

# AMERICAN BUILDER

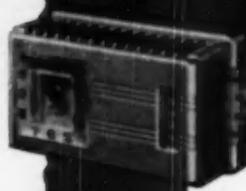
AUGUST 1950  
PRICE 50 CENTS

THE WORLD'S GREATEST BUILDING PAPER



*In This Issue:* **THE GARAGE** - Part of the Home Today

# better heating *Always* with the New Honeywell **TM\*** *Comfort* **THERMOSTATS**



*Comfort*

The well-known electric clock thermostat—automatically provides lowered night temperatures and morning pick-up. NOW better than ever with the Thermostat Magic of TM.

*\*Available in a few weeks.*



*Comfort*

For lowered night temperatures. Set the dial for the morning pick-up time you select—wake up in a comfortably warm house. The Time-O-Stat now assures pin-point control through the Thermostat Magic of TM.



*Comfort*

The finest thermostat of its type in the world. Featuring the easy-to-read dial adjustment, precision control—and NOW, Thermostat Magic with Honeywell TM.

*Tested and Approved*

*it's  
hermostat  
agic*

**TM** means . . .

The magic of TM is accepted and acclaimed everywhere . . . winning enthusiastic approval from builders and home owners, alike. In the building profession, installation of TM simply means that you offer the best heating control available . . . at no increase in cost. Buyers of your homes will thank you for recommending the newest, the finest—the nationally advertised . . . nationally accepted . . . Honeywell *Comfort* Thermostats with TM!

**TM** Keeps the heat coming in regulated portions



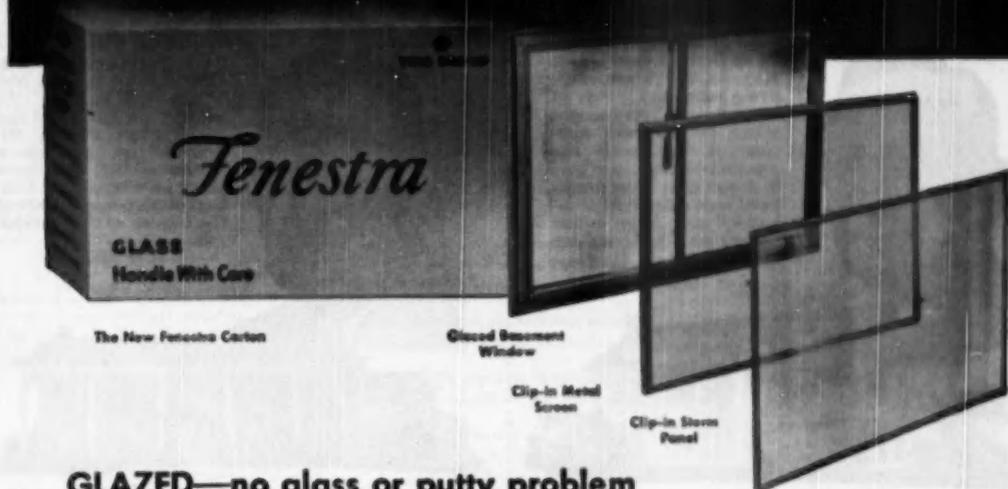
TM furnishes the required heat by properly regulating the length of burner operations in accordance with outside weather conditions.

Long and irregular burner operations permit up and down temperatures . . . allow rooms to get too hot or too cold for comfort.

\* **TM** means *Thermostat Magic*

MINNEAPOLIS  
**Honeywell**  
FIRST IN CONTROLS

# HERE'S THE NEWEST, FINEST, MOST COMPLETE BASEMENT WINDOW UNIT MADE!



The New Fenestra Carton

Glazed Basement Window

Clip-in Metal Screen

Clip-in Storm Panel

**GLAZED**—no glass or putty problem

**PACKAGED**—no loose parts to handle

#### AVAILABLE IN 3 WAYS

1. **Package A**—Fenestra® Basement Window, glazed, with Screen and Storm Panel insert, in carton.

2. **Package B**—Basement Window, glazed, with Screen, in carton.

3. **Basement Window Unglazed**—Screen and Storm Panel available separately also.

Three sizes: 2 lights—15" x 12"; 2 lights—15" x 16" and 2 lights—15" x 20". Screen held in by two screws. Storm Panel provides economical insulation.

#### THESE OUTSTANDING ADVANTAGES

- Easily installed—all of the sizes fit concrete block
- Glazed—no fiddling around with glass or putty.
- Sturdy—made of hot-rolled casement window sections.
- Weathertight—double contact of sash against frame.
- Leakproof—square corners for tight construction.
- Varmintproof—impervious to rats, termites, other pests.
- Protected ventilation—opens in at the top.
- Easy to operate—steel can't warp or swell or shrink.
- Locks tight—with quick and easy lever action.
- Footproof—no side arms or hinges to get out of order.

- Easily removable—vent removed from inside only.
- Low cost—produced in great volume . . . in standard sizes.
- Low maintenance—steel can't shrink, rot or splinter.

#### NEW FENESTRA UTILITY WINDOWS AVAILABLE IN 3 WAYS

1. **Package A**—Glazed Utility Window, with Screen, plus Side Guards to reduce drafts in barns.

2. **Package B**—Glazed Utility Window, with Screen only.

3. **Unglazed Utility Window**—Screen and Side Guards separately.

For garages, shops, dairy barns, building areways, etc. 2' 9½" wide by 3' 6½" high. Construction and quality features same as the New Fenestra Basement Window.



For full information call the nearest Fenestra office, listed in the yellow pages of your telephone directory, or mail the coupon.

# Fenestra

**WINDOWS • DOORS • PANELS**

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Please send me complete information on the new Fenestra Packaged Basement and Utility Windows.

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

# From Experience In Their Own Homes—Leading Lumber Dealers Praise **UPSON PANELS**

**FRED H. LUDWIG, Reading, Pa.**



"The reason I used Upson Kuver-Krak Panels in the living room and library of my residence was brought about by the great difficulty I had with the plaster cracking. I am glad to report that these panels have been extremely satisfactory and have added beauty and charm to our home."



**BOB GEISY, Columbus, Ohio**



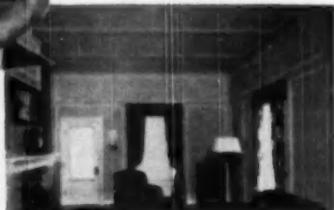
"We put Upson Strong-Bilt Panels in our new home, built in 1941. We never expect to have any repair work of any description on them. As a matter of fact, they have never been repainted. Visitors often comment about the beauty of our paneled ceilings."



**G. E. CARTER, Port Arthur, Texas**



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



**O. C. CALDWELL, Lisbon, Ohio**



"We chose Upson Strong-Bilt Panels for the interior walls of our home because their surface has a rich and delicate quality; one that lends itself well to decoration. We are well pleased with our Upson walls and beautiful ceilings and recommend their use to everyone desiring artistic interiors."



**Carpenters:** Everywhere, more and more carpenters are applying more and more Upson Panels. Application can be made any month in the year. Get your share of these profitable jobs.

**mail this coupon today** ▶

Upson Panels are easily identified by the famous blue-center



## THE UPSON COMPANY

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I am interested in knowing more about  Upson Strong-Bilt Panels for new construction  Upson Kuver-Krak Panels for re-covering cracked ceilings.  Send me your booklet "New Interiors For Old" and Instruction Sheets.  Have your Representative call and discuss application with me.

NAME \_\_\_\_\_  
 TYPE OF BUSINESS \_\_\_\_\_  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_

AMERICAN BUILDER

## In This Issue

### IN THE SEPTEMBER ISSUE

Read the most comprehensive article on INSULATION ever published. Profusely illustrated with charts, drawings and photographs, the article will present specific details on how to install—where to use—and what benefits are derived from insulation. Here is an article you will want to read and keep for ready reference. Don't miss it!

See how another kitchen equipment manufacturer suggests altering the kitchen of the First Prize House in American Builder's contest for women architectural students to increase its efficiency.

A double feature blueprint! Two houses for small lots designed by well-known architects that have individuality, sound planning, and are suitable for any climate.

Technical Guide, numerous How-To-Do-Its, and New Products are other popular features of the September issue.



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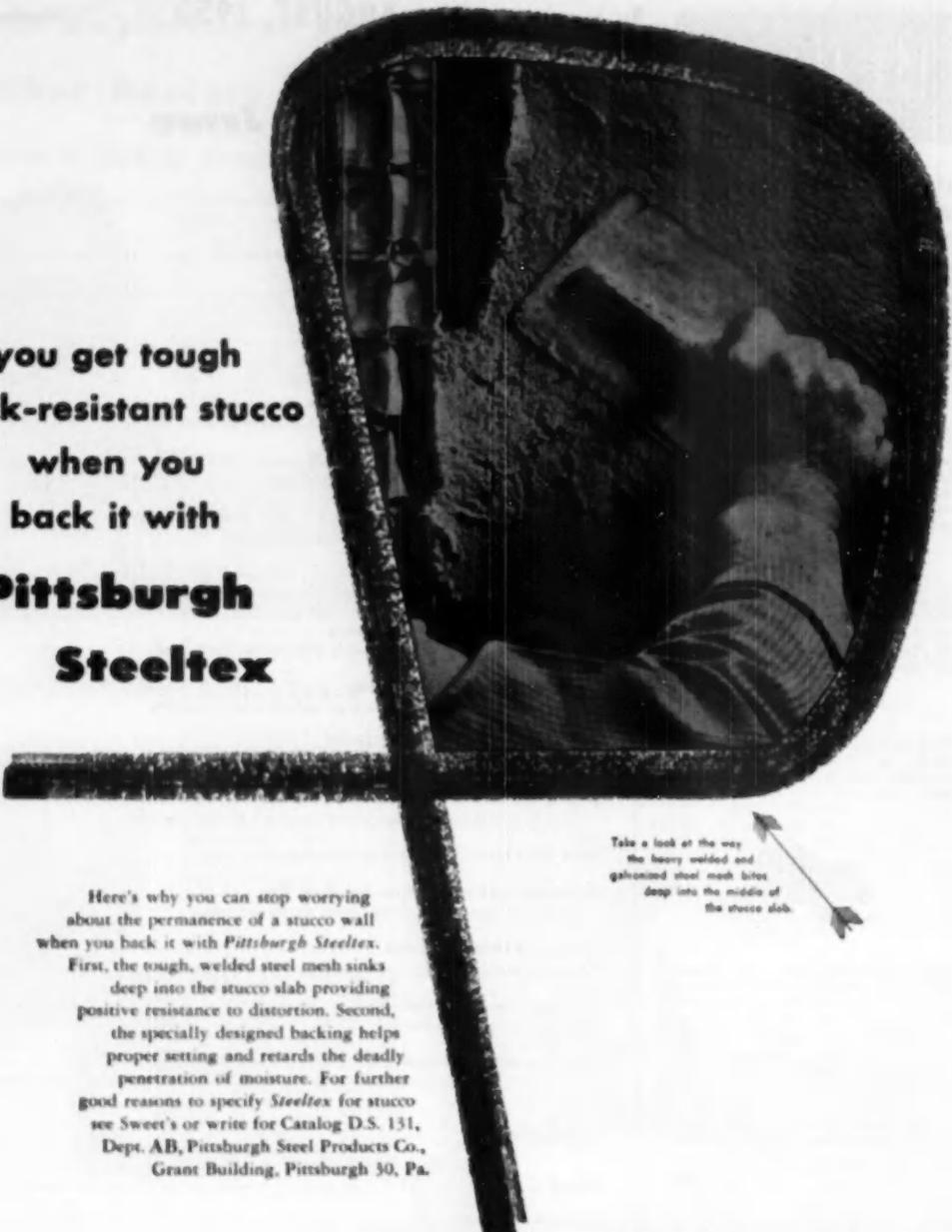
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you get tough  
crack-resistant stucco  
when you  
back it with  
**Pittsburgh**  
**Steeltex**

Here's why you can stop worrying about the permanence of a stucco wall when you back it with *Pittsburgh Steeltex*. First, the tough, welded steel mesh sinks deep into the stucco slab providing positive resistance to distortion. Second, the specially designed backing helps proper setting and retards the deadly penetration of moisture. For further good reasons to specify *Steeltex* for stucco see Sweet's or write for Catalog D.S. 131, Dept. AB, Pittsburgh Steel Products Co., Grant Building, Pittsburgh 30, Pa.



Take a look at the way  
the heavy welded and  
galvanized steel mesh bites  
deep into the middle of  
the stucco slab.

**Pittsburgh Steel Products Company**

A Subsidiary of Pittsburgh Steel Company  
Pittsburgh 30, Pa.

AMERICAN BUILDER



### How to Prevent Socialism

**W**HAT kinds of policies should all industries and professions unite in opposing because of their tendency to destroy private enterprise and establish socialism?

Such policies are principally of two kinds: (1) policies by which government takes the money of the citizens and uses it in competition with them, and (2) policies by which government applies unnecessary controls and deprives citizens of opportunity to carry on their businesses and professions with success proportionate to their ability and to the energy with which they use it.

Almost innumerable examples could be given of policies of both these kinds which already have been adopted or are being promoted. The railroads afford the most examples of them. The government has taken and is still taking billions of dollars from the taxpayers, including the railways themselves, to aid carriers by inland waterway, highway and air to take traffic and earnings from the railroads. And the government subjects carriers to regulation so unequal that its regulation adds greatly to the difficulty caused the railways by the subsidization of their competitors. The government's combined policies of taxing the railways heavily, subsidizing their competitors and applying more restrictive regulation to the railways than to other carriers is steadily promoting the adoption of government ownership of railways, which would do more than any other single thing to establish socialism.

The government is taxing everybody to pay for government build-

ing of homes. In this way it competes with and injures both the private home builder and the private home owner. It can raise money at a lower rate of interest than the private home builder and with it hire labor and buy materials that the private home builder needs. And when, as it always does the government pays less than normal taxes on housing that it owns and rents it at less than cost, it taxes private home owners to help build, operate and maintain the housing occupied by its tenants. Thus it *reduces* the value of the private home owner's property both (1) by increasing his taxes to help provide homes for government tenants and (2) by charging its tenants less than the rental value of the private home owner's property, *based on its cost*.

Socialized medicine would subject doctors to controls that would make it impossible for them to attract patients and make earnings in proportion to their knowledge and skill, and thereby hinder progress in the development of the science and practice of medicine.

In view of the fact that *every socialistic policy applied to any industry or profession has the same detrimental effects*, why has there been no united opposition by *all industries and professions to all such policies*? One reason is that most men in any industry or profession have little or no knowledge of what government is doing or threatening to do in other industries and professions but believe the socialistic attacks being made on their industry or profession are unusual and, therefore, of special importance. Also,

many believe they benefit by socialistic policies *applied to others* and have no inclination to oppose what they believe benefits *them*.

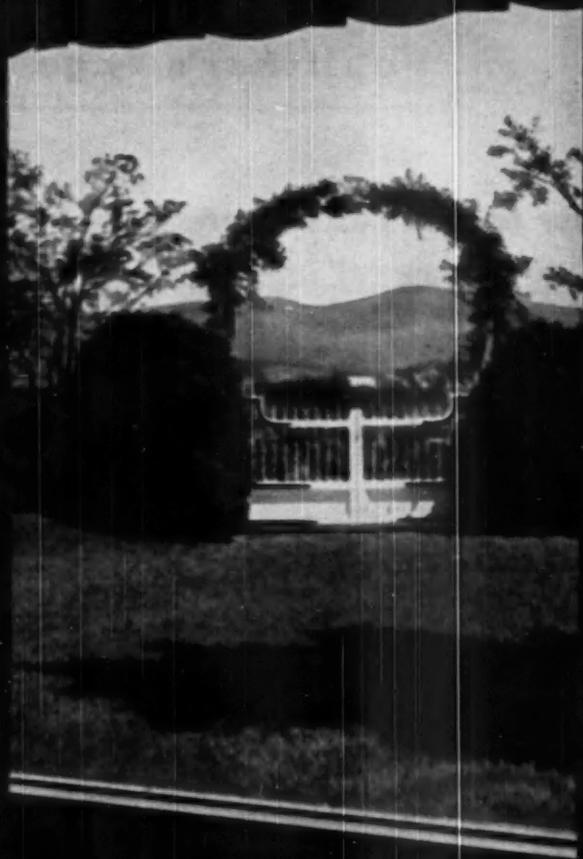
Why should home builders and home owners oppose the policies driving the railways toward government ownership when many of them believe that, as shippers, they benefit by the rates that unequal regulation and subsidization enable them to get from other carriers? Why should the railways concern themselves about socialization of home building and home ownership when they get traffic created by home building regardless of whether the building is done by government or private builders? Why should the railroad and building industries concern themselves about socialized medicine if they believe it will affect only the doctors and that if they oppose it they will increase the hostility to themselves of politicians who are promoting socialized medicine?

The answers to these questions are very plain. (1) *Every socialistic policy applied to any industry or profession in the long run injures everybody*. (2) Private enterprise will never be destroyed and socialism established by most of the people voting for it. If private enterprise is destroyed and socialism established it will be by the application, step by step, of socialistic policies to one industry and profession after another. This process already is far advanced; and the only way to stop it is by *everybody* who is opposed to socialism opposing the application of socialistic policies to *any* industry or profession.

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*Samuel O. Dunn;*



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It's easy to bring nature right into the home with Ceco Picture Windows of Steel to make each room truly live. There's movement in the murals of the vibrant outdoors framed by these handsome window creations. Distant views, ever changing with the mood of the hours, bring relaxing thoughts and a sense of better living. All this is possible because there's less interruption of vision. The eye is drawn easily to the outside world of motion—barriers are minimized due to slender frames and muntins. And to have Ceco Steel Windows is to know truly sound value. They're engineered to

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STEEL**

*In construction products* **CECO ENGINEERING**



**Advantages of  
Ceco Steel Casements**



**Controlled ventilation  
up to 100%**



**Easy to open and close  
Can't stick or warp**



**Easy to wash  
from inside**



**Easy to scrub  
from inside**

*Come Alive...*

provide the tightest weatherseal ever—with extra strength built in—sections are  $1\frac{1}{8}$  inches deep. Yes, when you build with Ceco Steel Windows, you know you've used the very best—you're sure of economy too—you're modern as tomorrow.

**CECO STEEL PRODUCTS CORPORATION**

General Offices: 5601 West 24th Street, Chicago 50, Illinois  
Offices, warehouses and fabricating plants in principal cities

*makes the big difference*

# "Quality Homes

American Radiator & Standard Sanitary Corp.  
P. O. Box 1226  
Pittsburgh 30, Pa.

Gentlemen:

Last year I built ten new houses in the east section of Denver. I wanted these homes, which were designed to sell for \$22,000, to be quality homes in every sense of the word — not only in design and construction but also in equipment and fixtures used. So I used American-Standard Heating Equipment and Plumbing Fixtures whenever possible.

From past experience I found that American-Standard products gave good service and that the use of these products made people confident that they were getting a well-built house. And I also knew that I could find the products I needed in the complete American-Standard line.

To assure the best to be had in heating I chose Standard Gas Boilers, Multifin Converters, and Baseboard Radiant Panels. These panels under the picture windows are most attractive and efficient.

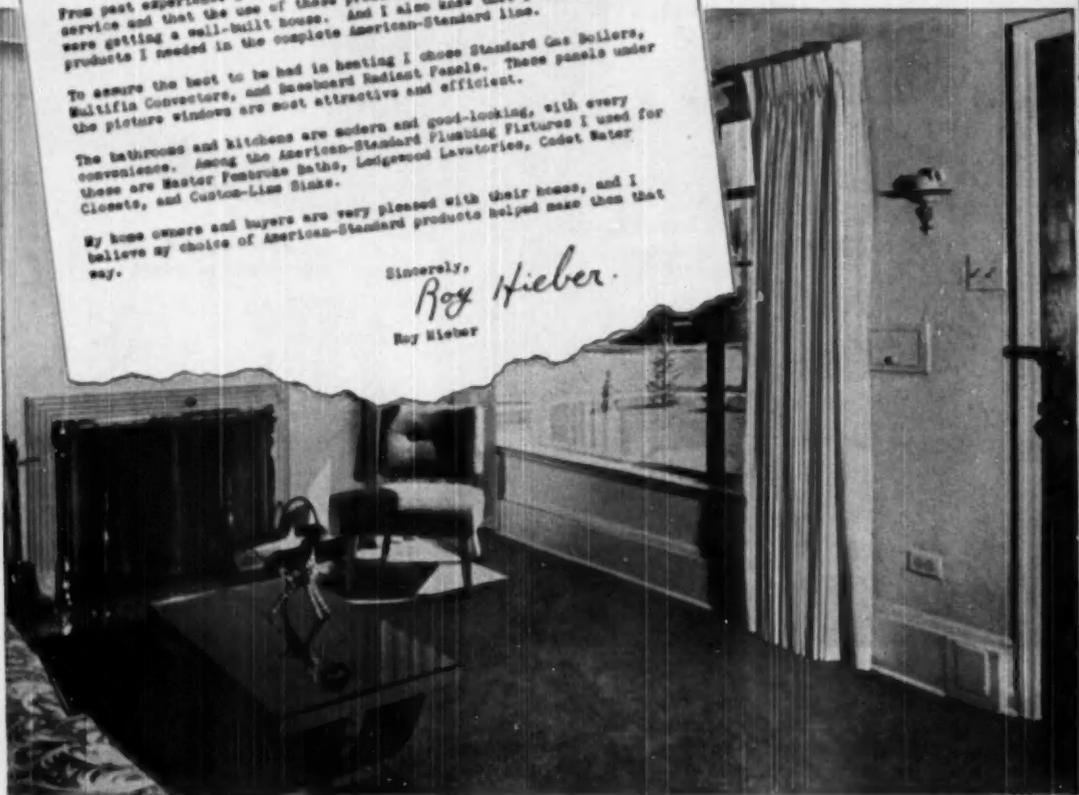
The bathrooms and kitchens are modern and good-looking, with every convenience. Among the American-Standard Plumbing Fixtures I used for these are Master Fernose Baths, Ludgewood Lavatories, Cadet Water Closets, and Custom-Lite Sinks.

My home owners and buyers are very pleased with their homes, and I believe my choice of American-Standard products helped make them that way.

Sincerely,

*Roy Hieber.*

Roy Hieber



# call for AMERICAN-Standard™

## says Denver Builder

■ "To be sure of quality homes in every sense of the word—not only in design and construction, but also in equipment and fixtures used—I used American-Standard Heating Equipment and Plumbing Fixtures wherever possible," reports Mr. Roy Hieber, in writing about his new building project in Denver, Colorado.

More and more builders, like Mr. Hieber, are using American-Standard products to assure quality homes that will sell rapidly and that will bring satisfied customers. Because they're so widely known—for their smart styling, skillful designing, and dependability in service—the use of American-Standard products creates public confidence in the dwellings in which they're installed . . . helps make fast sales, with minimum selling expense.

You, too, will create satisfied customers when you use American-Standard products in the homes you build. No heating equipment and plumbing fixtures are better made . . . none better known. And you'll find just the products for your particular needs in the complete American-Standard line. Ask your Heating and Plumbing Contractor for details. American Radiator & Standard Sanitary Corporation, P. O. Box 1226, Pittsburgh 30, Pa.



# AMERICAN-Standard

First in heating . . . first in plumbing

*Serving home and industry*

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# For your clients THE ULTIMATE



ROBERT H. WACHSMOEP, builder and developer, is cooperating with Servel, Inc., and The Cincinnati Gas and Electric Company in the construction of the Meadow Ridge Year Around Model House in Ambury Village, Cincinnati, shown below.

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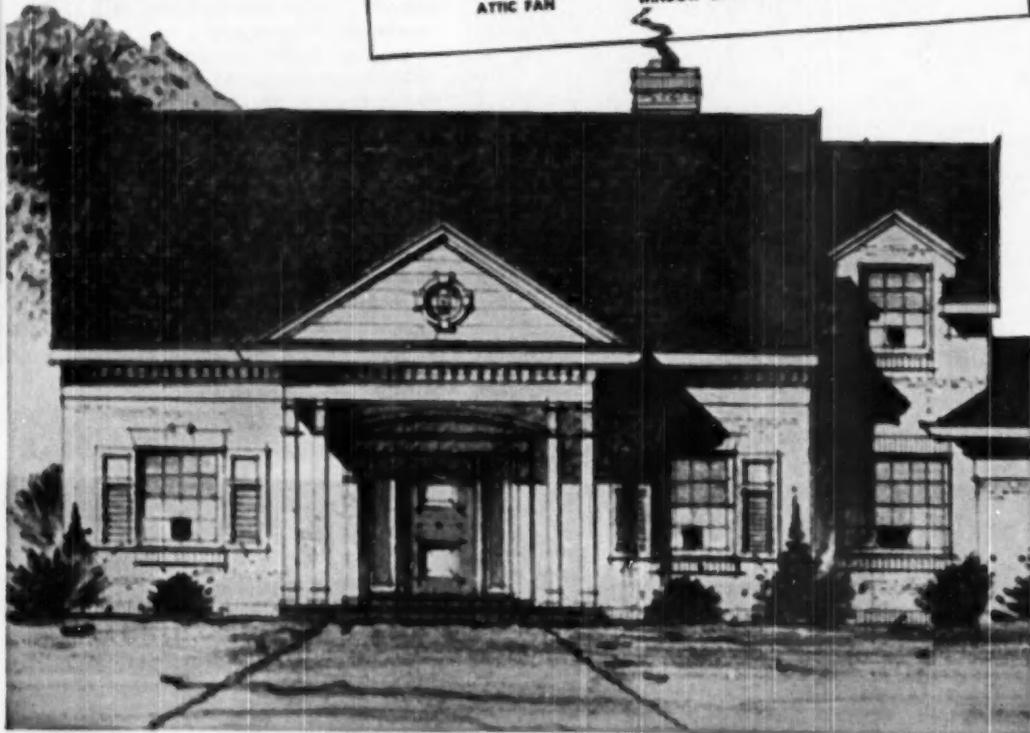
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LOWER-COST WINDOW CONSTRUCTION



NO SCREENS



# IN ALL-YEAR AIR CONDITIONING ...AT LITTLE OR NO EXTRA COST!

For little more than the cost of a quality heating plant, you can now offer your new home clients the all-year comforts of Servel All-Year Air Conditioning.

You can offer them homes which will always be ideally comfortable, no matter how hot or cold, how wet or dry, the weather outdoors.

The new Servel All-Year Air Conditioner cools the air or heats it. It squeezes out wilting humidity in summer, adds just enough moisture to the air for comfort in winter. It filters out dust and irritating pollen, circulates air evenly, without drafts through every room in the house.

The whole operation is automatic. Your client just sets the Servel Selectrol—and forgets it. From then on, the Servel unit switches

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A Servel air conditioned home needs no porch, no fireplace, no attic fan. Outside doors and windows may be kept closed. Glass may be fixed, permitting use of a simple wood frame. Screens are not necessary. If you plan your homes around Servel All-Year Air Conditioning, you'll find that these and other possible savings permit you to include the Servel unit for little or no extra cost.

The Servel All-Year Air Conditioner can be easily adapted to any size, style, type, or shape of home your client wants. Ask your local Gas Company for all the particulars, or write to Servel, Inc. 1008 Morton Avenue, Evansville, Indiana.

*Architect: Luigi Marioni,  
1518 Beacon Street, Cincinnati*



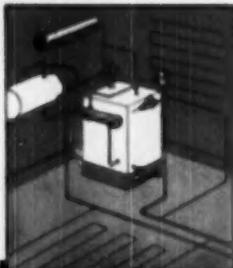


# Thrush

\*Leading name in **RADIANT HEAT**

## LOW COST HOT WATER CONTROLS

**THRUSH** Radiant Hot Water Heat is a leader . . . in economy, in efficiency, in popularity. Thrush Flow Control System offers the simplest yet most satisfactory method of automatically controlling temperature of radiant ceiling, wall or floor panels. This system provides uniform heating comfort without continuous Circulator operation. Inexpensive No. 201 Thrush Radiant Heat Control, illustrated below, maintains a constant room temperature and system water temperature without variation. Thrush Forced Circulating Flow Control System is easy to install. It provides economical heating plus summer as well as winter supply of domestic hot water for laundry, bath and kitchen use.



### THRUSH FLOW CONTROL SYSTEM OF HOT WATER HEAT

Send for booklet giving the complete story of Thrush Radiant Hot Water Heat. The same simple equipment may be used for zoning apartments inexpensively and is ideal for modernizing home heating plants. For more information, see our catalog in Sweet's or address Dept. G-8.



FLOW CONTROL VALVE WITH AIR TUBE



WATER CIRCULATOR

**H. A. THRUSH & COMPANY - PERU, INDIANA**

NO. 201 RADIANT HEAT CONTROL

AMERICAN BUILDER



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Their superiority in design and especially in *finish* is outstanding. Their flash-welded corners assure maximum rigidity and weathertightness. Their roto-operation is smooth and dependable. And of course they have the basic advantages exclusive to aluminum windows: rustproof permanence with no need for protective painting, narrow frames of neutral tone to harmonize with any concept.

Reynolds supplies residential casement, fixed and picture windows in all combinations, standard and western types... also Reynolds Aluminum Screens to fit these and all metal casement windows.

Stop right here and write for complete descriptive literature in A.L.A. file form. **Reynolds Metals Company,** Building Products Section, 2003 South Ninth Street, Louisville 1, Ky. Offices in 32 principal cities.



...and so does all

### Casement Screen shopping!

Reynolds Aluminum Screens fit not only Reynolds Windows but all Aluminum and Steel Casements. Exclusive corner lock feature assures great rigidity and high spring tension to keep the cloth tight. Where you are buying new windows, specify Reynolds Aluminum Windows complete with Screens. Where you must screen other casements, do it with Reynolds Aluminum Screens. See your dealer!

**REYNOLDS ALUMINUM  
RESIDENTIAL CASEMENT FIXED  
AND PICTURE WINDOWS**

# REYNOLDS ALUMINUM



**PACE-SETTER!**

We present the **ALL NEW**

# Case ONE-PIECE

with lower bowl and important sanitary developments

With the #1000 Case One-Piece, modern development in water closet design attains a new standard of beauty, performance and utility. The #1000 carries on the immensely popular idea sponsored by

Case in the original one-piece water closet. New mechanical features assure the positive, *quiet* flushing action people desire in the up-to-date bathroom. The bowl has been lowered one inch, incorporating the findings of the latest research on posture. For maximum health protection, the riser pipe of the ballcock is enclosed in a china channel completely separated from the water in the tank. The body of the ballcock is located well above any possible water level.

An open atmospheric vent obviates all possibility of back-syphonage under any conditions. Of particular appeal is the fresh exterior styling, designed to convey the feeling of quality inherent in this fixture. The #1000 is built to the highest specifications, is attractively priced, and is available in white and 26 popular colors. See it now at your Case distributor—or write for folder. W. A. Case & Son Mfg. Co., Buffalo 3, N. Y. Founded 1853.

## ... and a new matching lavatory

The handsome new style motif of the One-Piece water closet is duplicated line for line in this companion lavatory, the new *Windell* #780\* with specially designed fittings. When installed together, each fixture complements the other's beauty.

Size 24" x 20".



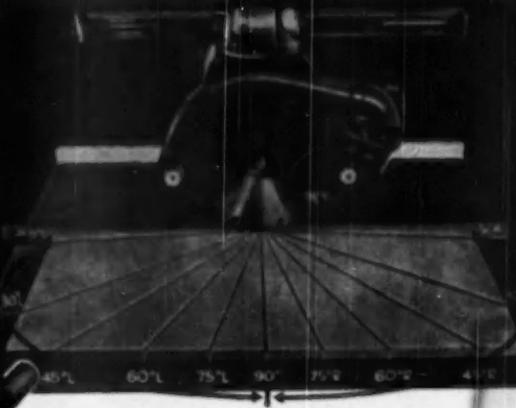
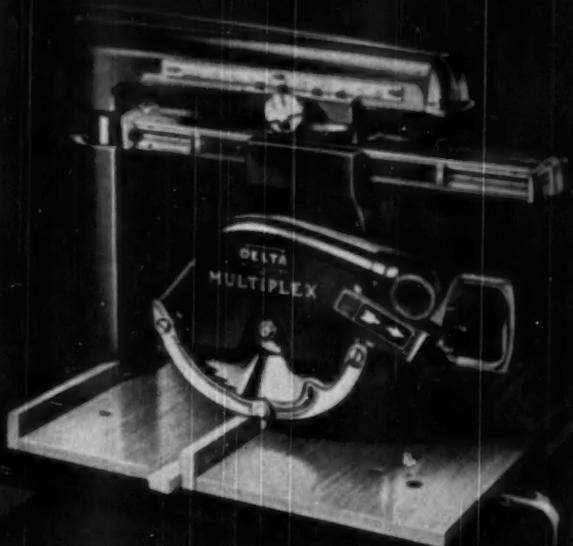
# Case

*Fine Vitreous China*

W. A. Case & Son (One-Piece) — D-13063, 21237A, 212942B.  
(Lavatory) — D-13105, 9



# MAKE THIS SIMPLE MITER TEST!



Try all saws before you buy! It's easy . . . just follow this picture. Swing arm to right for right-hand miters . . . then swing arm to left for left-hand miters. The saw must cut miters and angledado from 0° to 90° both right and left, as shown, to be fully practical in today's construction. Don't take less — get the full range.

## DELTA MULTIPLEX DOUBLE RADIAL ACTION

# DELTA® MULTIPLEX portable job shop!

Delta Multiplex is the perfect radial saw. Look over these new features: \* Double Radial Action sets up faster. \* Centralized Cutting works safely in common area. \* Pivot-point Slide keeps kerf always above work-top. \* Safety Guard fully encloses saw teeth. \* Front Controls adjust faster, safer. \* Full Saw Action, no lost motion. \* Eye-level Degree Scales easily visible. \* Anti-friction Ball Bearing Carriage rides life-time Nitralloy trackways. \* Plus Delta Quality Values.

There's no doubt about it—make the miter test and prove to yourself Delta Multiplex is your best buy!



Makes profits on every cut from collar to roof. It often pays for itself on one job!



Learn more about Delta Multiplex these 3 ways:

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Send me now Delta Multiplex catalog, "Unlimited Applications"

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BECAUSE IT'S PRICED RIGHT... BECAUSE IT'S BUILT  
RIGHT... BECAUSE IT'S EASIER TO INSTALL... BECAUSE  
IT'S LIFETIME WARRANTED

*Be Careful!*

**MORE  
FOR YOUR  
MONEY!**

**USE**

**DEXTER**

**the  
lifetime  
lock**

**NATIONAL BRASS COMPANY**

*Manufacturers of America's First Tubular Lock*

GRAND RAPIDS



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Dexter Direct Factory Representatives are located in Abilene, Baltimore, Boston, Chicago, Cleveland, Columbus, Detroit, Fort Worth, Knoxville, Los Angeles, Milwaukee, New York, Omaha, Philadelphia, St. Louis, San Francisco, Syracuse, Tampa.

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AND LOOK  
AT THAT  
"JEWELER'S  
FINISH"!



MUSKY BIG BEARING  
BETWEEN KNOB AND  
ROSE, FOR HEAVY  
DUTY SERVICE!



NO 'POT METAL'  
ALL WORKING PARTS  
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COLD ROLLED STEEL!



LARGEST HOLE  
TO BORE  $\frac{1}{4}$ "  
INSTALL IN 6 MINUTES!



DEXTER EXCLUSIVE  
ARMORED CYLINDER!



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Warranted



INSTALLS EASY AS...



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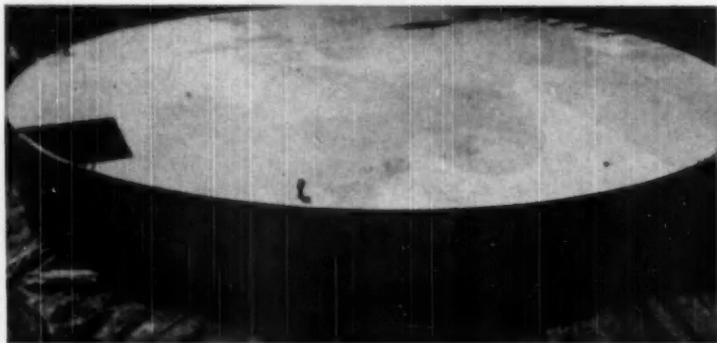


## Ten Years Ago...

this test paving was laid in Minneapolis—the first commercial use of Atlas Duraplastic air-entraining cement. Badly cracked background section was made with regular cement. Foreground concrete was laid at the same time with Duraplastic cement. Here are both sections, photographed ten years later, after ten severe winters, heavy applications of de-icing salts and many freezing-thawing cycles—convincing proof of Duraplastic concrete's lasting durability. Longitudinal structural crack shows some spalling. Note perfect transverse joint.



# Today... A typical report says: "DURAPLASTIC\*... highly resistant to the effects of freezing and thawing"



7,000,000-gallon Water Reservoir,  
South Bend, Ind. Contractor:  
Thomas L. Hickey, Inc.; Duraplastic  
ready-mixed concrete, Kuart  
Concrete, Inc., both of South Bend.

The contractor on this 4000-cu. yd. concrete reservoir built exclusively with Atlas Duraplastic air-entraining portland cement reports:

*"...walls have a pleasing appearance with smooth texture and no 'honey-comb' spots or streaks. We particularly like Duraplastic for structural concrete, especially if it is exposed to the weather. Duraplastic concrete is highly resistant to the effects of freezing and thawing..."*

This report is typical. For Atlas Duraplastic air-entraining portland cement has proved its advantages in a wide variety of structural and mass jobs; foundations, walls, columns, and floors. It's ideal for slip-form, gunite and other uses. It requires less mixing water for a given slump; gives a more plastic, uniform mix; places and finishes easily.

Atlas Duraplastic complies with ASTM and Federal Specifications,

sells at the same price as regular cement, calls for no unusual changes in procedure.

**Send for free new booklet, "A Decade of Atlas Duraplastic Air-Entraining Portland Cement."** Write to Universal Atlas Cement Company (United States Steel Corporation Subsidiary), Chrysler Building, New York 17, N. Y.

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

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

AS-10-107

# ATLAS DURAPLASTIC

AIR-ENTRAINING PORTLAND CEMENT

MAKES BETTER CONCRETE AT NO EXTRA COST



NBC SUMMER SYMPHONY CONCERTS—Sponsored by U.S. Steel Subsidiaries—Sunday Evenings—June to September



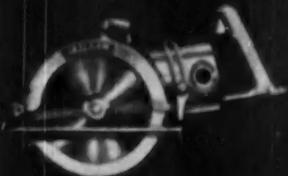
**"This  
SKIL Saw  
has been in  
business with  
me for  
20 years"**

**Says F. William Wessel, for  
over 40 years a carpenter-  
contractor in Peoria, Illinois**

knows, probably better than anyone, that SKIL Saws don't need to be babied or pampered to keep them out of the shop and on the job.

Here's one reason Bill Wessel's old veteran (like all SKIL Saws) stands hardest wear and the shock of heaviest loads: It has famous SKIL Saw *Worm-Gear* construction and the extra margin of power that make tough jobs easy year after year. Contractors who *know* never take chances. For saws they see their SKIL Distributor. It's plain good business for you to see him, too.

Bill Wessel and his Model E SKIL Saw have been working together day after day for more than 2 decades—and both are still going strong. Bill



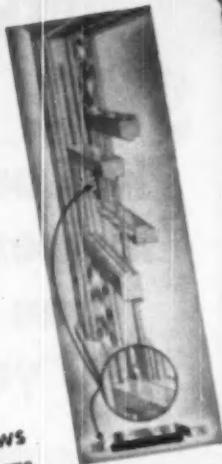
SKIL Products are made only by SKILSAW, INC.  
5033 Elston Ave., Chicago 30, Ill.  
Factory Branches in Principal Cities  
In Canada: SKITOOIS, LTD., 64 Portland St., Toronto, Ont.

**SKIL**  
PORTABLE TOOLS



Mack says... Check the Weather

# Numetal WEATHER STRIP



## FOR DOORS

Conveniently packaged in sets for almost all standard doors. Available with regular brass and felt door bottom strips or with threshold and exposed hooks. No special skill or tools are required. Easily installed with only a hammer and household scissors. Comes complete with sufficient strips for complete with sufficient strips for size opening, lock keeper strip, screws, nails and instructions for installing. Perfect for over-the-counter sales!

This door equipped with Style "C" Numetal on sides and top, lock keeper strip and a brass and felt door bottom.

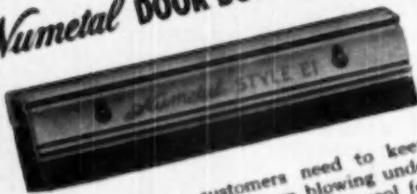
## FOR WINDOWS

Numetal Window Sets also come complete in convenient packages. Fits all standard 28", 30", 32" and 36" double hung windows. Cut-to-dimension strip and it is a practical and efficient type. It can be quickly installed by anyone. Each set contains necessary strip for top, bottom and sides, meeting rail strip, sash plugs, nails and instructions. Individually packaged — ready to hand to your customers — ready to install!

This window is completely weatherproofed with strip from Numetal Window set. Includes Style "A" for top, bottom and sides, Style "B" for regular meeting rail, sash plugs Style "D" available for rabbeted meeting rails.



## Numetal DOOR BOTTOM STRIPS



Just what your customers need to keep cold air, dust, and dirt from blowing under doors. A popular seller! Made of wool felt and extra heavy gauge brass or aluminum. Furnished in standard lengths for 28", 30", 32", 36", 42" and 48" doors. Also available in special lengths. Packed 1/2 dozen same length in each carton.



## Nu-WAY WEATHER STRIP

Easy to sell because it's so easy to put on! Works perfectly on any type window or door. Made of moth-proof, pre-shrunk, color-fast, wool felt and white metal. Attractive display carton contains 12 individual 20-ft. rolls.

er  
**proof Items You Need  
 ...and Order Now!**

**Nu-GARD Automatic  
 DOOR BOTTOM AND DRAFT ELIMINATOR**



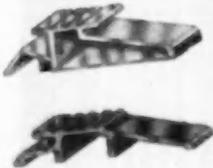
This is the door bottom in answer to a home-owner's prayers! Beautifully designed door bottom keeps firm contact with floor when door is closed. Saves fuel—stops drafts under door! When door is opened the hinged felt section automatically raises to clear carpet. All working parts and cover shield are made of high quality Alacrome metal—will not rust or tarnish. Easily installed. Furnished in 28", 32", 36", 42" and 48" lengths. May be shortened 2". Fits right or left hand door. Packed in individual cartons, including necessary screws and tools. A Nu-GARD Automatic Door Bottom is a boon to your customers and a boost to you'll sell 'em!

This handsome double-duty display case takes little space and makes sales! Given to you with your order for the introductory assortment. Removable top becomes handy shelf to hold actual working model. Case contains 24 door bottoms, twelve 32" and twelve 36" lengths—each individually packaged. Don't be without these—order today!

- WE NEED**
- Numetal Weather Strip
  - No-Way Weather Strip
  - Numetal Door Bottoms
  - No-GARD Automatic Door Bottoms
  - No-ART Thresholds
  - On-GARD Coil Weather Strip
  - No-CALK SHIM LOADS
  - No-GLAZE



**NU-ART THRESHOLDS**



Thresholds are becoming increasingly important in the weatherproofing picture—residential as well as commercial and industrial! You should have a complete stock of these attractive A-thresholds. Available in brass or Alacrome, with holes drilled, screws furnished—each individually wrapped and labeled.

**On-GARD BRONZE COIL WEATHER STRIP**

Here is the perfect coil strip! Patented nailing zone feature eliminates bucking and forms weather-tight edge. Double turned outer edge forms a hump-proof, rigid contact. Packed 100 ft. or 200 ft. in exclusive patented dispensing carton or five 100 ft. rolls we give you a sturdy counter display case.



**No-CALK SPEED LOAD**

America's favorite calking compound in the most efficient calking load on the market. Packed 10 loads to each carton and 4 cartons per shipping case. Keep a good supply on hand of this fast-seller!



**No-Glaze GLAZING COMPOUND**

Sells better because it does the job better—really "stays put"—crack or peel off. Perfect for all glazing. Won't in attractive cans from 1/2 pint to 12 1/2 lbs.—in drums from 25 lbs. to 850 lbs. Order now!



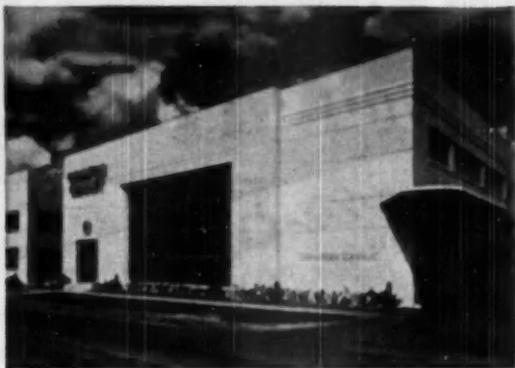
ORDER NOW! Your order will be shipped same day received.

**MACKLANBURG-DUNCAN CO.**

OKLAHOMA CITY 1, OKLAHOMA

**MACKLANBURG  
 DUNCAN  
 & CO.**

**QUALITY  
 PRODUCTS**



## Increase the range and quality of your building service with

# Architectural Concrete

There are rewarding opportunities for the contractor who uses architectural concrete in small commercial, industrial and public buildings. Such buildings, carefully planned, attractively designed and quality constructed, enhance his reputation and are a source of pride to both owner and community.

Architectural concrete presents no special problems. It simply requires adherence to quality principles—selection of good materials; right amount of water; careful proportioning, mixing, placing and curing.

Forming is especially important because the concrete finish and sharpness of ornamental details are due largely to the character of the forms.

Most important is the quality of the mix. Architectural concrete must withstand years of weathering. That requires a minimum water-cement ratio consistent with conditions of placing, but no more than 6½ gal. of water per sack of cement or less than 5½ sacks of cement per cu.yd. and a slump not to exceed 4 in. when vibration is used or 6 in. for hand placing.

Beautiful architectural concrete buildings often cost no more than less attractive structures. That's because both structural and ornamental elements can be cast in a single operation. And the many advantages of concrete buildings—firesafety, minimum maintenance cost, durability—result in **low-annual-cost** service.

For more information on textures and colors, on what is appropriate and economical, on forming details, get a free copy of "Architectural Concrete for Small Buildings," distributed in U. S. and Canada.

## PORTLAND CEMENT ASSOCIATION

Dept. 8-3, 33 W. Grand Ave., Chicago 10, Ill.

A national organization to improve and extend the uses of portland cement and concrete... through scientific research and engineering field work



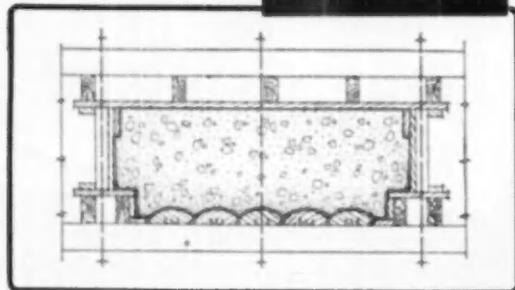
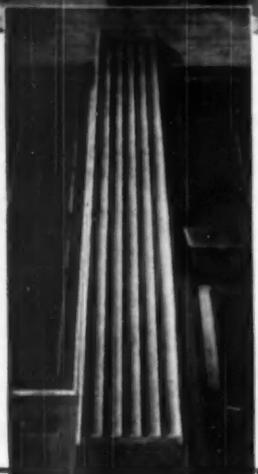
Photos at the top and above illustrate buildings for three functionally different businesses.

The motor express company office (upper left) derives character from simplicity of design, featuring board markings of the forms and a bold, aluminum painted entrance pylon.

The dairy plant (upper right) uses horizontal and vertical incised joints.

The bank (above) is ornamented with fluted pilasters and a dentil course above the windows.

A closeup of a fluted pilaster is shown at the right; a detail of the forming is shown below.



**"EASIER TO HANDLE...  
FASTER TO  
INSTALL"**



OWENS-CORNING  
**FIBERGLAS**  
**BUILDING INSULATION**

\*Fiberglas is the trade-mark (Reg. U. S. Pat. Off.) of Owens-Corning Fiberglas Corporation for a variety of products made of or with glass fibers.

**IMPROVED ROLL BLANKET PACKAGE**

- 25% Longer Roll . . . Less Cutting and Fitting
- One Cut and Roll is Ready for Use
- Fewer Packages to Handle on Job
- No Muss . . . No Bags or Cartons to Discard
- Uniformly Compressed Package Assures Specified Thickness Throughout

**PLUS BETTER VAPOR BARRIER**

- More Than Meets FHA's Latest, Rigid Requirements
- Stronger, Tougher Paper . . . Less Vapor Transmission

USE FIBERGLAS-BUILDING INSULATION IN YOUR HOMES

OWENS-CORNING FIBERGLAS CORPORATION, Dept. 62-H, Toledo 1, Ohio

AMERICA'S FASTEST SELLING BUILDING INSULATION

*Available through  
5 National  
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COMPANY  
New York, N.Y.



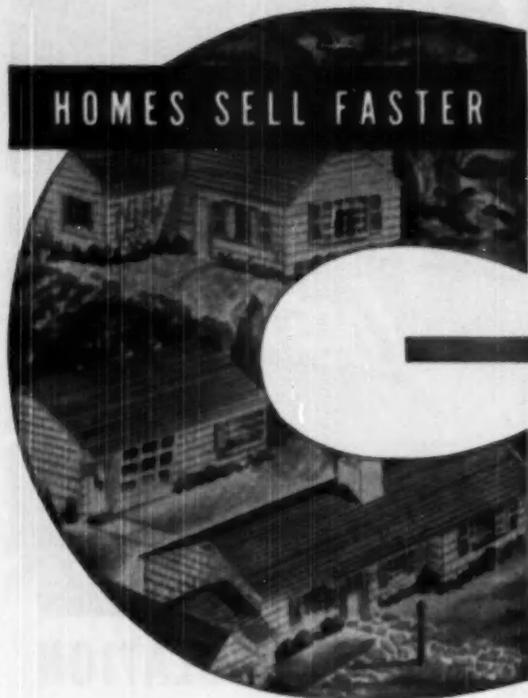
MINNESOTA AND  
ONTARIO PAPER CO.  
Minneapolis 2, Minn.



KELLEY ISLAND  
LIME &  
TRANSPORT CO.  
Cleveland, Ohio

AUGUST, 1950

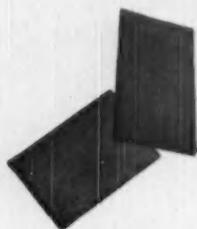
HOMES SELL FASTER



when side-walled  
with

**CREO-DIPT**  
DOUBLE WALL

**ZEPHYRS**



**T**HEY'RE genuine red cedar processed side-wall shakes. They're factory stained in a wide range of colors. Their heavy shadow lines lend beauty and interest to any home.

Back them with an underwall of CREO-DIPT Insulation Board and you can stress comfort and fuel savings, as well as beauty, as features of your homes.

Builders everywhere are learning that CREO-DIPT Double Wall Zephyrs make any home easier to sell. Used exclusively or in conjunction with other sidewall materials they arouse prospective home buyers' interest.

#### EASY AND ECONOMICAL TO APPLY

Aided by the unique CREO-DIPT "Speeder-Upper," two inexperienced men should apply at least 6 squares a day.

#### A COMPLETELY PACKAGED LINE

CREO-DIPT packages its shakes, insulation board and nails in sturdy cartons. You get them in A-1 condition and they're easier to handle on the job.

*Mail this Coupon Now* →

CREO-DIPT CO., INC.—Dept. AB-80  
North Tonawanda, New York

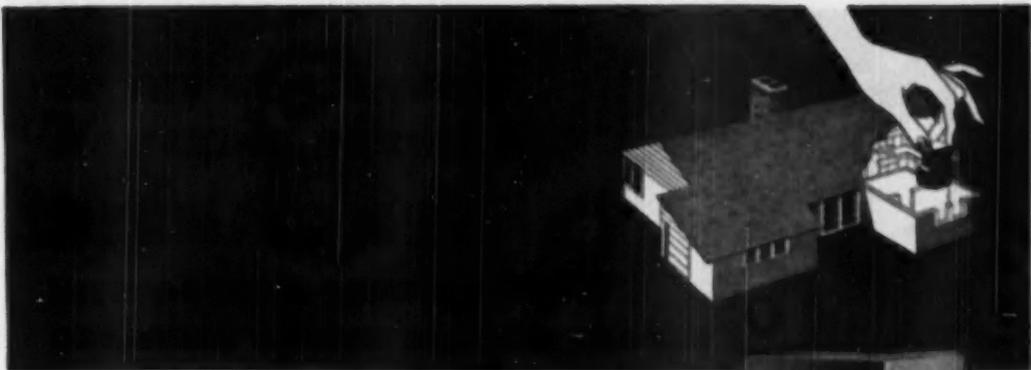
Send me further information on CREO-DIPT  
Double Wall Zephyrs and how to apply them.

NAME \_\_\_\_\_

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Here's an introduction that's sure to meet with the approval of clients concerned with heating modern ranch style homes—or garden apartments where heat control and distribution are problems!

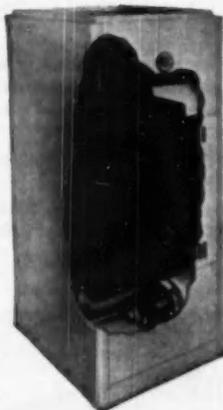
Here's a brand new, cabinet-enclosed Richmond unit that takes up just 22½ x 28 inches of floor space to fit easily into a closet or utility area—to lend itself ideally to any first floor or basement installation.

Here's a thermostatically-controlled unit that delivers uniform

heat to every room—and does it efficiently and economically.

The new Richmond Furnace is available in two popular sizes—85,000 and 110,000 BTU input per hour—and is fully approved by AGA for all types of manufactured, natural and LP gases.

When you introduce your customers to this new space-saving, money-saving Richmond unit they'll like its ultra-modern features—in the Richmond tradition of fine engineering, design and workmanship.



## EXAMINE THESE FINE FEATURES

of the Model SU Steel Gas-Fired Winter Air Conditioner

- 1 Sturdy round-cornered light green steel hammer-tone jacket.
- 2 1725 R.P.M., 115 volt, 60 cycle motor with V-belt drive, variable pitch motor pulley that quickly changes air volume for continuous air circulation.
- 3 Slow speed blower of efficient squirrel cage type. Resiliently mounted for quiet operation.
- 4 Heavy gauge welded steel heat exchanger is extra-durable, extra-efficient.
- 5 Gas-tight, all-welded radiator assures a large heating surface, long flue travel.
- 6 Choice of two fine Gas Burner Assemblies—one for natural and mixed gases; one for manufactured, natural and mixed gases.



# RICHMOND

RICHMOND RADIATOR CO.—AFFILIATE OF REYNOLDS METALS CO.



Richmond Radiator Company  
19 East 42nd Street  
New York 17, N. Y.

AS-8

Please send me additional information and literature on the new Richmond Model SU gas-fired, warm-air heating units. No obligation, of course.

NAME .....

COMPANY .....

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# Lone Star Masonry Mortar SAVES TIME-AND TEMPER -AT 110°F



● Concrete masonry construction is booming—providing utmost economy, both initial and ultimate, in industrial plants, warehouses, garages, stores:

Walls of clean, smooth concrete block made with LONE STAR CEMENT—or with 'INCOR'® 24-HOUR CEMENT, where faster hardening is needed to speed delivery . . . Quality block laid up with LONE STAR MASONRY CEMENT . . . a family kinship of quality materials that means utmost durability and low maintenance cost.

Here is sound block construction at its best, smooth-jointed with mortar to delight a mason's heart . . . rich, extra-fat mortar that sticks to block or brick like a true friend . . . mortar that stays plastic until units are firmly bedded, assuring better bond.

*This job was done in summer sun, at 110°F—yet Lone Star Masonry Mortar retained its workability, no tempering needed!*

Mortar to match the skill of the Masons who use it—that's why Masons everywhere are saying, "Be sure to send me that same Masonry Cement again!"

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



Owner: **GUSTAVESON, INC.**,  
Dodson, Mo.

Contractor:  
**McCUNE CONSTRUCTION CO.**  
Dodson, Mo.

Concrete Block by  
**ETERNACRETE PRODUCTS, INC.**  
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Lone Star Masonry Cement  
from **MAY MATERIAL CO.**,  
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LONE STAR CEMENTS COVER THE ENTIRE CONSTRUCTION FIELD

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LONE STAR CEMENT, WITH ITS SUBSIDIARIES, IS ONE OF THE WORLD'S LARGEST CEMENT PRODUCERS. 15 MODERN MILLS. 27,500,000 BARRELS ANNUAL CAPACITY

AMERICAN BUILDER

# TRENDS in the Building Field

## Homebuilding at All-Time High

May homebuilding broke all previous records by spiralling to 140,000 new permanent dwelling units started, according to preliminary estimates of the U. S. Labor Department's Bureau of Labor Statistics. The May figure was almost 50 per cent ahead of the May 1949 level.

The half-million mark for new housing starts was reached in May this year—two months earlier than last year. The cumulative total for the first five months of 1950 was 538,000 units, compared with 354,000 units in the like period of 1949. The sharp gain in house construction this year has been country-wide, and has been shared by cities as well as outlying areas.

Although annoying, shortages of materials are only temporary and will be cleared up in the next 60 to 90 days.

Producers of building materials have stepped up production to supply materials for residential starts at an annual rate of more than 1,250,000.

Johns-Manville Corporation, according to a Wall Street Journal survey, is reported to be working at a theoretical 120 per cent to 130 per cent of capacity. The nine plants are working three shifts and in most instances six and seven days a week. Unit volume is 25 per cent above a year ago.

Certain-teed Products Corporation is working at capacity. Sales for the first six months of the year are expected to hit \$22,500,000—up 15 per cent from the first half of 1949.

American Radiator and Standard Sanitary Mfg. Company has hiked employment about 36 per cent over last year. American Standard's boiler production in May was 150 per cent over that month a year ago. Bathroom production has climbed 200 per cent. Other vitreous china products are being produced at a rate in excess of 32 per cent over a year ago.

Lumber mills in the South and Pacific Northwest are producing at a near record rate. A big producer of builder's hardware reveals its incoming business is running better than 20 per cent above a year ago. A major producer of cast iron soil pipe says its plants are working two shifts a day.

Manufacturers of paint, plywood, brick, cement and tile report difficulty

in keeping pace with the demand.

**Housing Characteristics** of other metropolitan areas are now available from the Bureau of Labor Statistics's survey. Last month *American Builder* reported on the characteristics of home building in the Chicago area, showing that the majority of new houses in the area have basements, brick exteriors, luster interior finish, hot air heat, wood window frames, and have either four or five rooms.

Other cities for which data is now available include New York, Philadelphia, Washington, D. C., Atlanta, Pittsburgh, Miami, Dallas and Los Angeles.

It is no surprise to find from the survey that basements are non-existent in Miami, Dallas and Los Angeles; that only 20 per cent have them in Atlanta and 12 per cent in San Francisco.

**Brick exteriors** predominate in Philadelphia, Washington, D. C. and Pittsburgh. Stucco on masonry construction and stucco on frame is applied on 91 per cent of the new houses in Miami and Los Angeles respectively. In the other areas wood or asbestos shingles are used most extensively.

**Dry wall construction**, mainly gypsum board, flourishes in New York, Washington, Atlanta, Dallas and San Francisco, but not in Philadelphia, Pittsburgh, Miami, Los Angeles or Chicago.

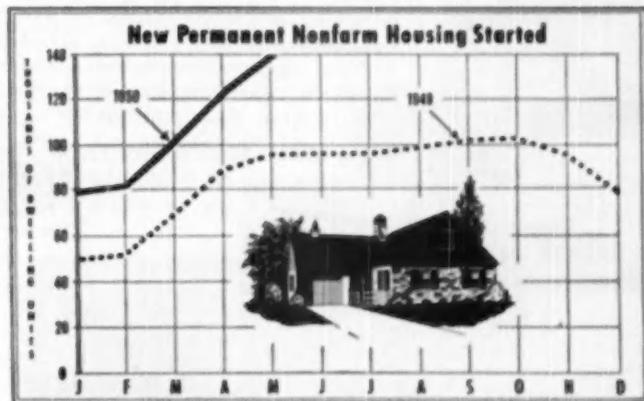
**Hot water heat** is used in 41 per

cent of the new houses in the New York area, 14 per cent in Philadelphia and Pittsburgh, but not to any extent elsewhere. Radiant systems are used in 18 per cent of the houses in the New York area and 9 per cent in Chicago. Elsewhere new homes are heated by hot air except in Atlanta, Dallas, Los Angeles and San Francisco where floor or wall furnaces are used. Miami does not admit to using any kind of heating equipment.

**Window frames** of steel and aluminum, used almost exclusively in the Maine area and elsewhere, account for from one-fifth to one-half of all windows. Aluminum window frames are used in about 5 per cent of new homes in Philadelphia and New York.

The majority of new houses have four or five rooms, except Pittsburgh where 53 per cent are six rooms or more. Philadelphia, Washington, Pittsburgh and San Francisco have a high ratio of six room homes.

Most new homes are operative built, according to the survey, except in Pittsburgh where contract built homes account for 7 per cent of the total and owner-built homes for 41 per cent. On the latter, the owners do a substantial amount of the labor. In all areas most new homes are built in projects of less than 25 units. Only a small proportion are built in projects of hundreds of units, except in Los Angeles, where 22 per cent of the new houses were built in groups of 100 or more.



United States Dept. of Labor  
Bureau of Labor Statistics

AMERICAN BUILDER CHART



Look-Ahead Builder,  
F. L. Burns



## BURNS REALTY FOUND A WAY TO MAKE BUYERS OUT OF LOOKERS!

Every home in the great Brentwood Development  
comes equipped with a Bendix Washer



Out Denver way, they do things up big. And this huge development by the Burns Realty Co., is a typical example. 1150 homes will be the total count by the end of this year. And every home will be equipped with a Bendix Washer!

Why did Burns—along with so many other "look-ahead builders"—choose Bendix?

A woman wants convenience. A man wants value. They both get what they're looking for

in a house that's equipped for modern living. And a Bendix is the very symbol of today's time-saving convenience.

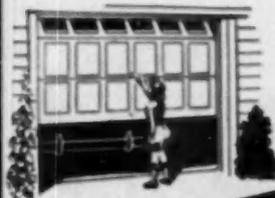
Many, many builders have discovered that a Bendix home Laundry as part of their package is the "extra" that closes sales—even in the heat of today's keen competition. The Bendix builder story is a story worth looking into. Check up on it through your nearest Bendix distributor—or write us for his name.



Bendix is participating in the  
Good American Homes Program

**BENDIX HOME APPLIANCES, INC., SOUTH BEND 24, INDIANA**





APPROXIMATELY  
**\$65<sup>00</sup>**  
 Size  
 8 x 7



# Fleetwood MAKES GARAGE DOOR HISTORY

Compare these de luxe features  
 with any other door:

- 1 DE LUXE 4-SECTION DESIGN — not a one-piece door.
- 2 ALL-WOOD 24-PANEL CONSTRUCTION, kiln dried Douglas Fir and exterior plywood.
- 3 FULL WIDTH SECTION FOR GLASS.
- 4 WEATHERPROOF PATENTED INTERLOCKING JOINT between each section, full width.
- 5 56 STRAND, QUIET, AERO-TYPE CABLES with internal lubrication.
- 6 TEN ROLLERS WITH 100 BIG BALL BEARINGS.
- 7 INSTANT SPRING ADJUSTMENT BRACKET on each side.
- 8 5-PIN CYLINDER TYPE LOCK with chrome plated handle.
- 9 DOUBLE EXTENSION SPRINGS.
- 10 GALVANITE RUST-PROOFED HARDWARE.
- 11 LOWER CORNER BRACKETS cradled under door take all lifting load.

See this handsome new door at your local Crawford dealer. If not yet available in your community, write us direct or send check and trial order and we will ship promptly from point nearest you. It's a record-breaking value, priced away below the market. Quickly and easily installed by your men and works like a charm. Money-back guarantee.

**FLEETWOOD DOORS ARE ALSO AVAILABLE IN INDUSTRIAL SIZES UP TO 12' x 12'.**

**FLEETWOOD DOORS ARE ANOTHER PRODUCT OF**

*Manufacturers of the Crawford Marvel-Lift Door, the Doormaster, and the Stylist.*

**FLEETWOOD DOORS AS WELL AS THE CRAWFORD MARVEL-LIFT, DOORMASTER AND STYLIST, ARE AVAILABLE THROUGH Crawford Door Sales Companies IN THE FOLLOWING CITIES**

- ALBANY, Sherkard Park, Bannock, N. Y., Phone 72-2374
- AMARILLO, 1413 West 10th St., Phone 3-3602
- ATLANTA, Olm & Washington St., Dealer, Phone (Central) 2650
- BALTIMORE, 5102 Falls Road, Phone Hamilton 1210
- BILLINGS, 1211 Fourth Ave., N. Phone 5-5415
- BIRMINGHAM, ALA., 2630 N. 13th Ave., Phone 4-1717
- BOSTON, 425 Wilton St., Phone 3699
- BRIDGEPORT, 725 Railroad Ave., Phone 4-6141
- BUFFALO, 107 Sherman Ave., Phone 1-6100
- CADILLAC, 123 Huron St., Phone 1000
- CAROLINA, Ottawa, Ontario, 215 Roosevelt Ave., Phone 724-23
- CHARLESTON, S.C., 215 Bay Street, Phone 4-6467
- CHARLOTTE, 1712 Tryon St., Phone 4-8271
- CHATTANOOGA, 2708 E. 10th St., Phone 2-6061
- CHICAGO, 1421 W. Lake St., Phone Hammond 1-3820
- CLEVELAND, 1065 E. 7th St., Phone Express 1-3289
- COLUMBUS, 354 West 10th St., Phone Main 7154
- DALLAS, 5217 10th Street, Phone Express 6-2622
- DEVER, 1001 Broadway, Phone Cherry 2114
- DETROIT, 6011 Grand, Phone Walnut 4-6300
- EL PASO, 1630 E. Missouri, Phone 2-3515
- ELKHART, 1714 S. 7th St., Phone 4-0020
- EVANVILLE, 621 Fallon Ave., Phone 3-6120
- HARRISBURG, PENNA., P. O. Box 21, Phone 4-5671
- HOLLYWOOD, FLORIDA, P. O. Box 61, Phone 2534
- INDIANAPOLIS, 1275 Griggs Road, Phone (Area) 4333
- KEOKUK, 1244 State St., Phone 2-4715
- INDIANAPOLIS, P. O. Box 6010, Phone Broadway 7640
- JACKSONVILLE, 2707 Main Street, Phone 6930
- KANSAS CITY, 1732 Oak Street, Phone Belmont 3-3915
- KNOXVILLE, 801 Laurel St., Phone 2-6037
- LANTON, 18 "C" Street, Phone 1790
- LITTLE ROCK, 624 E. Third Street, Phone 4-4701
- LONG BEACH CITY, 22-16 27th Ave., Phone 322-4100
- LOS ANGELES, 107 Arden St., El Segundo, Cal., Phone Orange 8-4100
- LOUISVILLE, 1025 Lexington Rd., Phone 516-2011
- LOSHECH, 2217 County Rd., Phone 2-2125
- MASSACHUSETTS, 501 First National Bank Bldg., Phone 229
- MEMPHIS, 555 Madison, Phone 37-7281
- MERIDIAN, 2211 Fourth St., Phone 71 and 71
- MILWAUKEE, 1241 W. Forest Home Ave., Phone Franklin 5-5245
- NASHVILLE, 915 Church St., Phone 5-7011
- NEW ORLEANS, 1811 Magazine St., Phone Bayou 7120
- NEWARK, 26-28 Broadway, Phone North 2-7120
- NEWTON UPPER FALLS, 91 Lincoln St., Phone Superior 4-6005
- OKLAHOMA, 126 N. Belmont St., Box 626, Phone 2402
- OKLAHOMA CITY, 2510 N. W. 16th St., Phone 561-42
- OMAHA, 4601 Dakota, Phone Walnut 1000
- PHILADELPHIA, 140 Cotton St., Phone Filbin 4-4720
- PITTSBURGH, 20 E. 20th St., Phone (George) 620-9
- PORTLAND, BRIDGE, 226 E. W. First St., Phone Broadway 5-5245
- NEWTON UPPER FALLS, 91 Lincoln St., Phone Superior 4-6005
- ROCHESTER, NEW YORK, 622 State St., Phone Hamilton 5851
- ST. LOUIS, 1617 Lafayette, Phone Lathrop 6202
- ST. PAUL, 100-126 E. 6th St., Phone Garfield 687
- SALT LAKE CITY, 126 W. Second St., Phone 5-1510 and 5-1672
- SAN ANTONIO, 477 Westwood Drive, Phone Shadydale 6-2177
- SAN FRANCISCO, 621 Mission St., Phone (Garfield) 1-6671
- SCANTON, 113 Shelby St., Phone 5100
- SPRINGFIELD, 111 Fulton, Phone 7-4716
- SPRINGFIELD, ILL., 447 E. Walnut, Phone 3-6113
- TAMPA, P. O. Box 2614, Phone (Main) 6762
- TULSA, 1215 So. Lawrence St., Phone 2-4280
- TYNNA, 1211 Baker St., Phone 4-6554
- WASHINGTON, 110 1/2 St. N.W., Phone National 5251
- WICHITA, 1045 S. Main St., Phone 2-0115

DISTRIBUTING WAREHOUSES in 67 major cities.  
 SALES AND SERVICE companies everywhere.

DEALER INQUIRIES  
 INVITED

*It's Hollywood..* **IT'S JANE WYATT.. IT'S**



Hollywood leads the way in making America's housewives want the latest and best for their homes.

That's why Jane Wyatt\* is pictured in a kitchen that sparkles with Genuine Clay Tile. The rich, decorator colors are fired-in . . . tiled surfaces defy scratches and stains . . . wipe clean with just a damp cloth.

Available in a wide variety of colors and patterns.

\*Jane Wyatt will soon be seen in **MY BLUE HEAVEN**, starring Betty Grable, a 20th-Century Fox production. Color by Technicolor.

The Tile Council of America, Room 3401, 10 East 48th Street, New York 16, N. Y., Room 433, 727 W. Seventh Street, Los Angeles, California.



**PARTICIPATING COMPANIES:**

American Beattie Tiling Co.  
Architectural Tiling Company, Inc.  
Atlantic Tile Manufacturing Co.  
B. Millin Hood Co.  
Cambridge Tile Manufacturing Co.  
Carlisle Tile Company  
General Tile Corporation  
Gladding, McBean & Co.  
Hosch Tile Company  
Hurray Tile Company, Inc.  
National Tile & Manufacturing Co.  
Ocean Tile Company  
Pacific Clay Products  
Pacific Tile and Porcelain Co.  
Pomona Tile Manufacturing Co.  
Robertson Manufacturing Co.  
Seminole Face Brick Co.  
United States Quarry Tile Co.

**THE MODERN STYLE IS CLAY TILE**

## Letters to the Editor

### Open End Mortgage

Sir: Please give us a little information concerning open end mortgages and in what sections of the country they are working. . . . We understand you made a most interesting talk on this at the Florida Lumber Convention, and we are sorry not to have been there to hear it.

W. S. Lowry,  
Secretary and Treasurer,  
All States Lumber Corp.,  
St. Petersburg, Fla.

**EDITOR'S NOTE:** It is our understanding that open end mortgages have been standard practice in California for some time and that new regulations now make them acceptable in Massachusetts, New Jersey, Connecticut, New Hampshire and North Dakota. Elsewhere Title I of FHA is now widely used. Although helpful in assisting home owners to make needed improvements, the terms and interest rates are still burdensome. The effective interest rate is close to 9½ per cent and the maximum terms are 3 years, 31 days. The practice of permitting home owners to make improvements on the same terms that they borrow to pay off their mortgage debts has long been encouraged by *American Builder*. The mortgagor's stake in the property would be enhanced in virtually all cases. The home owner would be more satisfied with his property. The mortgagor is in a position to be a counselor as to the feasibility of making improvements and adding appliances. Most cases of default can be traced to the mortgage being overlooked with installment payments. In some localities the title search procedure has been simplified and made less costly so that a new mortgage can be made with allowance for additions. It is to be hoped that the open end mortgage will soon become universal. We believe that it will be of benefit to the mortgagor, to the home owner, to manufacturers of building materials and equipment, and to the economic stability of the nation in general.

### The Easy Way

Sirs: Regarding the May issue of *American Builder*, page 100, and the How-To-Do-It "How to Lay Out an

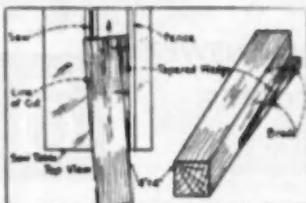
Arch." I submit a much simpler solution (when the span is given, 30 feet, the rise, 8 feet, and the problem is to determine the radius of the arch):

$$\text{Radius} = \frac{15^2 \text{ plus } 8^2}{2 \times 8} = 18\frac{1}{2} \text{ inches}$$

In other words, radius equals one-half the span squared plus the rise squared over two times the rise.

Walter R. Roof  
Structural Engineer  
American Roof Truss Co.  
Chicago 49, Ill.

Sirs: On page 216, May, 1950, *American Builder*, the article on how to taper lumber on a saw table does not look any too good to me. Nailing a wedge on side of stock takes time. Also, wedge as shown will not do any good, as stock will crowd between the saw and the fence when it is fed into the blade. I have cut lots of tapered parts on my saw without any trouble by using a "look" wedge, as in this drawing:



R. A. Patenaude  
Myrtle Creek, Ore.

### No Charge

Sir: Recently in the . . . issue of *American Builder* I saw some Catalogs and "How-To-Do-It" information listed, two of which I'm interested in. What is the charge for these items?

R. W. Downs  
San Antonio, Texas

Sir: Will you please send us the catalog on "New Decorating Ideas" issued by the Sloan-Blalock Corp. . . . If there is any cost for the catalog please advise us.

Greer & Bridgden Ltd.,  
Builders and Contractors  
Prince Rupert, B.C.

**EDITOR'S NOTE:** There are no charges for catalogs normally listed in *American Builder*. Readers may secure any of these by merely filling in the Catalogs coupon, marking the ones they desire, and sending the coupon to us.

## Contractors!

This is Profitable  
Business For You!



Resurface Worn,  
Dangerous Floors  
Quickly 1/2" With

**Tufcrete**  
RESURFACER  
**Resurfacer**

At Savings Up to 50%

Ideal for warehouse floors, loading docks, walks, platforms—easily installed over wood, concrete or composition floors—outwards either. No trade to buy. No heating. Normal curing time 30 hours.

Customers often ask name of Contractor who will install Resurfacer and other Tufcrete products. If you can see more business, mail coupon for detailed information and prices.

**TUFCRETE** Company, Inc.  
553 Teutoburg Bldg., Des Moines 2, Iowa.

ATTACH TO YOUR LETTER HEAD AND MAIL

Please send complete information about your Resurfacer proposition to Contractor.

Name .....

Business .....

Address .....

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

8

ANSWERING YOUR QUESTIONS ABOUT MODULAR SIZE WOODWORK



Q.

IS THERE A PRACTICAL ANSWER TO HIGH BUILDING COSTS?

a.

Yes, there is a proved, practical way to help cut the high cost of building. It is *modular design*—which means that you can cut costs by using plans and materials based upon a 4-inch unit of measurement or "module." Prominent manufacturers of windows, window frames, sash, screens and other woodwork are now providing these products in modular sizes, joining in a great national movement which can help YOU keep building costs down!

WOOD GAINS ANOTHER ADVANTAGE!

Modular design adds another major advantage to WOOD—the ideal material for windows, sash, window frames, screens, storm sash and other building products. For wood is a natural insulator—retards the passage of heat and cold. It takes paint or other finishes easily—and holds them in a vise-like grip. Wood discourages condensation, thereby cutting redecorating costs. And today, windows and other exterior woodwork are available *toxic preservative treated* at the factory, for EXTRA resistance where staining, decay, insect attack or humidity are problems.



Q. WHAT IS MODULAR SIZE WOODWORK?

Modular size woodwork consists of windows, window frames, sash, screens, etc., sized on a 4-inch unit of measurement. With modular sizes, all types of check-rail windows, whether 2-light, 4-light, 8-light, 12-light, top divided or other type, are built to the same standard 2-light opening size.

a.



Q. HOW DO MODULAR SIZES CUT BUILDING COSTS?

By reducing cutting and trimming on the job. Modular size woodwork, used with a modular plan, means that units go together quickly and easily on the job—that construction time is materially reduced—that labor costs are considerably lower.

a.



Q. ARE MODULAR PRODUCTS GENERALLY AVAILABLE?

In woodwork such as windows, window frames, sash and screens, modular sizes are available in all standard designs, including the leading pre-fit or pre-assembled units. Other modular products are now available for the entire exterior shell of a building.

a.



Q. IS MODULAR DESIGN SUITABLE FOR ALL TYPES OF BUILDINGS?

Yes, the planning of any building on the 4-inch modular system is easy and convenient. Modular design imposes no limitation or restriction on free architectural expression.

a.

GET ALL THE ANSWERS—MAIL THE COUPON!

Your lumber dealer will gladly explain all the details of modular size woodwork—show you how it can save you time and money. Or, mail the coupon for our free folder.

NATIONAL WOODWORK MANUFACTURERS ASSOCIATION

332 SOUTH MICHIGAN AVENUE • CHICAGO

This seal of approval identifies woodwork products which meet N.W.M.A. minimum standards of toxic preservative treatment.



National Woodwork Manufacturers Association  
332 South Michigan Avenue  
Chicago 4, Illinois

Gentlemen: Please send me your folder, "New Savings for Builders."

Name.....

Address.....

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

AMERICAN BUILDER

Right  
from

# House Beautiful

BETTER your home...better your LIVING

A PREVIEW OF THE SALES BUILDING OPPORTUNITIES TO BE FOUND IN THE SEPTEMBER ISSUE OF HOUSE BEAUTIFUL REACHING YOUR BEST CUSTOMERS ON OR ABOUT AUGUST 20th

## AMERICAN STYLE:

### AMPLIFICATION

TRULY AMERICAN HOUSE  
CHARACTERIZED IN SEPTEMBER  
BUILDING FEATURE

"A house in which all the social and technical progress of the 20th Century United States are put to work to serve the basic ideals of American life." That's the way September *House Beautiful* sums up the many things about appearance and performance which characterize today's truly American house. And tangible reasons are studied in detail . . . traced from the early architecture of H. H. Richardson and McKim, Mead & White down to modern standards, through the years of changing ideals.



The response from the building industry, as well as the public at large, to *House Beautiful's* significant American Style editorials has been overwhelmingly enthusiastic, since their introduction in the May 1950 issue. You'll want to keep abreast of all current amplifications! So watch for the September feature — "What is a Truly American House?"

AUGUST, 1950



### PACE-SETTER

*House Beautiful's* third pace-setter house of 1950 appears in the September issue . . . complete with up-to-the-minute ideas which architects and builders all over the country can use to profitable advantage. The sketch reproduced above illustrates the "maximum livability" planning which went into its design and placement . . . for example, the wide-cave protection against all weather, the sunny terrace sheltered from prevailing winds, the traffic-free privacy of the living area, thanks to placing the entrance, garage and service areas along the street side.

## CLIMATE CONTROL:

### SUMMER COMFORT

Looking for ideas to combat excessive heat and humidity? You'll find them in the climate-wise Philadelphia house presented in the September issue . . . many of them simple, not-too-expensive principles adaptable to any difficult summer climate problems.

Merging the stone hillside architecture, so important to Pennsyl-

vanians, with modern Climate Control design and construction requirements, this house embodies summer comfort, privacy and regional tradition. And the common extremes it overcomes offer any number of solutions and selling points for your locality.

Watch for it! Watch for its answers to mildew in closets and storage spaces, roof rot from high humidity, excessive summer heat

(Continued on next page)

RIGHT FROM HOUSE BEAUTIFUL

## ADVERTISERS

FOR EASIER, MORE PROFITABLE SALES TIE-IN YOUR FORTHCOMING PROMOTIONS WITH THESE FAMOUS NAMES FEATURED IN THE ADVERTISING PAGES OF SEPTEMBER HOUSE BEAUTIFUL

### INSULATION

#### 32. JOHN'S-MANVILLE "BLOWN" HOME INSULATION

JOHN'S-MANVILLE CORP.

This radiated Back Wax insulation is practically "blown" into the hollow exterior walls and attic spaces of a home. The work is done by approved J-M contractors who blow the Back Wax to the right density. The resulting insulation saves fuel in winter and keeps houses cooler in summer.

### SURFACING MATERIALS

#### a. Walls & Ceilings

#### 33. BLUE RIDGE PATTERNED GLASS

BLUE RIDGE DIVISION  
LIBBEY-OWENS-FORD GLASS CO.

Blue Ridge Patterned Glass lets light through, yet its patterns block vision. In September House Beautiful the Blue Ridge Sales Division of L.O.F. shows readers how they can use this beautiful glass in doors to brighten hallways and in windows where light is desired without visibility.

#### 34. BROWN'S SUPERCEDAR CLOSET LINING

GEO. C. BROWN & CO., INC.

#### 35. MISSISSIPPI DECORATIVE GLASS

MISSISSIPPI GLASS COMPANY

#### 36. ROMANY TILES

U. S. QUARRY TILE CO.

#### 37. STRAHAN WALLPAPERS

THOMAS STRAHAN CO.

STRAHAN again leads the field of quality wallpapers with its new and beautiful 1981 line... its wide range of colors keyed to today's living and tastes... its authentic and versatile prints. See them nationally advertised in *House Beautiful*, *Home and Garden*, *Brides*, and *Living for Young Homemakers*. See them... and you'll know you'll sell them.

#### 38. "TREND OF THE TIMES" WALLPAPERS

C. W. STOCKWELL CO.

ANTHURUM, featured in Stockwell's advertising this month, is the latest design in the renowned collection of "Trend of the Times Wallpapers." This is a style-setting hand print wallpaper inspired by the rare anthurium lilies of Central America, one of many wallpaper ideas from Stockwell's Los Angeles design studios.

### MORE ABOUT

## SUMMER CONTROL

gain, high heat and humidity discomfort, excluding summer sun and insects while still admitting summer breeze. They're all there and many more... in September *House Beautiful!*

### 39. VITROLITE GLASS PANELING

LIBBEY-OWENS-FORD GLASS CO.

Color is popular in today's homes... especially colorful surfaces that don't fade. *House Beautiful* readers will find in Libbey-Owens-Ford's September advertising a colorful suggestion—walls of Vitrolite Glass Paneling in a breakfast ell. It's an idea you can use to put extra sales appeal into houses.

### 40. WALL-TEX FABRIC WALL COVERINGS

COLUMBUS COATED PRODUCTS CORP.

Wall-Tex Fabric Wall Coverings give the customer triple value—1. Authentic decoration in color and design selection. 2. Protection against plaster cracks. 3. Fastest soap-and-water washability time of any other time. And Wall-Tex Dealers have a triple selling advantage because their customers want the extra value of beauty-plus-practicality that Wall-Tex is noted for.

### 41. WELDWOOD PLYWOOD

U. S. PLYWOOD CORP.

### b. Flooring

#### 42. BRUCE RANCH PLANK FLOOR

E. L. BRUCE CO.

Interest being shown in this new hardwood flooring is phenomenal. Builders find it gives homes extra sales appeal at only slight additional cost.

Aluminum windows won't rust away, won't rot, chip, crack or decay. They give you a lifetime of service... yet never need painting. Unusually sleek handouts, aluminum windows go well with any style of architecture... harmonize with any color scheme.

### 46. BURROWES HEALTH-GUARD COMB. WINDOWS

THE BURROWES CORPORATION

### 47. CIMCO STO-A-WAY COMB. WINDOWS

CINCINNATI ILY SCREEN DIV.  
F. C. RUSSELL CO.

### 48. MODERNFOLD DOORS

NEW CASTLE PRODUCTS

More and more builders find "Modernfold" doors sell houses faster. The rich beauty of these vinyl-covered, metal-framed doors appeals to prospective buyers; they're sold on the occasion-like action that adds many square feet of usable space. Costs are not increased, for "Modernfold" doors eliminate trim, hardware, painting, etc. Literature available. New Castle Products, New Castle, Indiana.

### 49. BUSCO ALL-METAL COMB. WINDOWS

F. C. RUSSELL CO.

## SAFER

Any doubt about the advantages of pushing nationally advertised product names? Read this typical subscriber letter:

"Dear House Beautiful:

As a regular reader of your magazine, I think you might be interested in knowing what a great help you've been to my husband and me.

My husband and I like to add improvements to our home gradually. Last year, when we added an extra room and did over two others, I'll tell you honestly that every idea we used came out of *House Beautiful*. There's something about seeing new things and definite names to ask for in a magazine like yours that makes me, for one, feel safer about buying them. I feel strongly about that, even though you probably hear it from a lot of people all the time.

Anyway, thanks a lot for making our living so much easier. I now look forward to *House Beautiful* every month.

Sincerely yours,

(Mrs.) E. S.

Dealers report Bruce's full color advertising on Ranch Plank Floor is producing many inquiries, with high percentage of sales. Literature, display cards and newspaper mats available from E. L. Bruce Co., Memphis 1, Tenn.

### 43. KENCORK

DAVID E. KENNEDY, INC.

### 44. "SMOOTHEDGE" TACKLESS

INSTALLATION FOR CARPETS & RUGS  
THE ROBERTS CO.

"Installing Carpet for Ultimate Beauty" is explained in this full-page, full-color advertisement. An interior shows the beautiful effect of "Smoothedge" tackless installation. Close-ups show the flawless finish of "Smoothedge" and explain how this tackless gripper works. Readers are told to look for the full-color "Better Carpet" installation" dealer display.

### DOORS, WINDOWS & EQUIPMENT

#### 45. ALCOA ALUMINUM WINDOWS

ALUMINUM COMPANY OF AMERICA

When building or remodeling, many modern homeowners are installing aluminum windows.

### 50. TRUSCON STEEL WINDOWS — SERIES 130

TRUSCON STEEL CORP.

### "WASH-MASTER SCREEN & STORM SASH COMBINATIONS

WARNER MFG. CO.

### PAINTS

#### 51. CABOT'S COLLOPANE'S

SAMUEL CABOT, INC.

#### 52. RAMUC ENAMEL FOR POOLS

INERTOL, CO., INC.

RAMUC enamel provides a long-lasting, water-resistant, tile-like finish on concrete pools, or on any masonry. It actually becomes a part of the surface — will not powder, peel, blister or flake off. Colors hold true under the strongest sun. For full information, address: Inertol Co., Inc., 490 Poughkeepsie Avenue, New York, N. Y.

TURN THE PAGE FOR FREE  
COUNTER CARD OFFER

## SANITARY EQUIPMENT

### a. Plumbing

53. CASE BATHROOM FIXTURES  
W. A. CASE & SON MFG. CO.
54. CHURCH SEATS  
C. F. CHURCH MFG. CO.
55. CRANE DIANA LAVATORY  
CRANE COMPANY
56. ELKAY LUSTERTONE SINKS  
ELKAY MFG. CO.
57. KOHLER OF KOHLER BATHROOM  
FIXTURES  
KOHLER COMPANY

### b. Dishwashers

58. G. E. AUTOMATIC DISHWASHER  
GENERAL ELECTRIC COMPANY

A new line of General Electric Automatic Dishwashers, with important new features for superior dishwashing results, is being presented in September. The principal features are: a Calrod heating element to provide higher wash-rinse temperatures and quick drying, a wash-action control, and a power rinse.

59. YOUNGSTOWN KITCHENS JET-TOWER  
AUTOMATIC DISHWASHER  
MULLINS MFG. CO.

World's Largest Makers of Steel Kitchens use full-color 2-page spreads and single page advertisements in September magazines to announce new Youngstown Kitchens Automatic Dishwasher, built on a revolutionary, high efficiency principle known as "Jet-Tower," with exclusive Hydro-Brush Action. Two models: 48" Electric Sink and 27" Cabinet model.

### c. Water Heaters

60. AUTOMATIC GAS WATER HEATERS  
AMERICAN GAS ASSOCIATION

### d. Garbage Disposers

61. IN-SINK-ERATOR ELECTRIC  
GARBAGE DISPOSER  
IN-SINK-ERATOR MFG. CO.

## TECHNICAL DATA

Technical reports on *House Beautiful's* Climate Control Project are being published by the American Institute of Architects for the benefit of architects, contractors, manufacturers and homeowners. They analyze precipitation, temperature, wind velocity and direction, humidity, sunshine, etc., for each region studied by the Project, and are available concurrently with the appearance of the general regional story in *House Beautiful*. Mid-Ohio, Metropolitan New York and New Jersey, Southern Florida, Southwestern Desert, Missouri River Valley and Gulf Coast analyses are now available. Price 50¢ each from Administrator, *House Beautiful's* Climate Control Project, 572 Madison Ave., New York 22, N. Y.

AUGUST, 1950



To illustrate how properly planned porches make fine climate control devices, as well as pleasant places to sit, this sketch is included in the September Philadelphia house story. In this case, the two-story porch along the entire south wall keeps sun, insects, and blowing rain out of all rooms, permits large glass doors to slide back for real summer ventilation. Insulating glass makes same walls weathertight in winter.

## HEATING, VENTILATING, AIR- CONDITIONING, HUMIDIFIERS

62. AMERICAN-STANDARD WINTERWAY  
WINTER AIR CONDITIONER &  
EMPIRE BOILER  
AMERICAN RADIATOR & STANDARD  
SANITARY CO.

Shown are the new oil fired Winterway Winter Air Conditioner, basement type unit for small to medium size homes; and the gas fired Empire Boiler for basement or first floor installation. Just two of the many American-Standard products for any type of heating — with oil, gas, or coal.

63. B & C HYDRO-FLO HEATING  
BELL & GOSSETT COMPANY

64. BURNHAM BASE-RAY RADIANT  
BASEBOARDS  
BURNHAM CORPORATION

BURNHAM BASE-RAY RADIANT BASEBOARDS — Made of durable cast-iron, these radiant baseboards hold heat longer. Only 7" high, they add to the appearance of any room. Placed on outside walls, where heat loss is greatest, they deliver radiant heat of ankle-height. Suitable for hot water or steam.

65. CHRYSLER AIRTEMP HOME HEATING  
AIRTEMP DIVISION, CHRYSLER CORP.

66. DUNHAM BASEBOARD HEATING  
C. A. DUNHAM CO.

Modern, handsome Dunham Cabinet Converters are efficient heating units which can be recessed into walls or fitted snugly under windows. Designed for use with hot water, steam or vapor, for old buildings as well as new, these converters are manufactured in numerous types and sizes . . . a converter for every need!

67. FITZGIBBONS BOILER-BURNER UNIT  
FITZGIBBONS BOILER CO.

All Fitzgibbons residential steel boilers are now available with an oil burner if desired. The Fitzgibbons oil burner is thoroughly standardized and has proven itself in thousands of installa-

tions. It teams up perfectly with the Fitzgibbons steel boiler for maximum fuel savings and trouble-free operation.

68. FRIGIDAIRE ELECTRIC DEHUMIDIFIER  
FRIGIDAIRE DIVISION  
GENERAL MOTORS CORP.

Here's a sure simple way to check moisture damage — electrically and automatically! The amazing Frigidaire electric Dehumidifier passes damp air over chilled coils — forcing moisture to condense into container or drain. It's been proved in thousands of home and business installations — is used by many stores to protect valuable inventories. Frigidaire Division of General Motors Corp., Dayton 1, Ohio.

69. HEATILATOR FIREPLACE UNITS  
HEATILATOR, INC.

Heatilator unit simulates heat to every corner of room and assures correct fireplace construction. Builders! — Here's a dramatic extra selling feature you can add to houses very economically! Architects! — Use of Heatilator units saves costly supervision time! Dealers! Heatilator is stepping up its national advertising, pre-selling more and more prospects!

70. MOR-SUN FURNACES  
MORRISON STEEL PRODUCTS, INC.

71. NU-WAY CO-2 OIL BURNER  
THE NU-WAY CORP.

72. SILENT GLOW OIL BURNER  
THE SILENT GLOW OIL BURNER CORP.

150. TRADE-WIND SUPER-CLIPPER  
KITCHEN VENTILATOR  
TRADE-WIND MOTORFANS, INC.

73. VENT-A-HOOD KITCHEN COOKING  
VENTILATOR  
VENT-A-HOOD COMPANY

Covering the ENTIRE range area, Vent-A-Hood instantly consumes and removes all cooking steam, grease vapors, odors and heat from the home. 250,000 owners tell us that the extended

**RIGHT FROM HOUSE BEAUTIFUL  
MORE**

**ADVERTISIES**

Life of decorating plus savings on flooring bills for rugs, draperies and furnishings more than pay for a Year-A-Road Information and Literature report. Year-A-Road Company, 1929 Plantation Drive, Dallas 9, Texas.

**74. WATERBURY FURNACES & AIR CONDITIONERS**

THE WATERMAN-WATERBURY CO.

**75. WEBSTER BASEBOARD HEATING**  
WARREN WEBSTER & COMPANY

Read what a well-known architect says about Webster Baseboard Heating in the Webster advertisement in September House Beautiful. See how well Webster Baseboard Heating fits into the custom-built house. Widely used in garden apartments and low cost homes. Eliminates the cold outside wall. Mild heat, clean, low fuel cost. Warren Webster & Company, Coosden 2, N. J.

**76. WILLIAMS-OIL-O-MATIC OIL BURNERS**

WILLIAMS-OIL-O-MATIC DIVISION  
EUREKA-WILLIAMS CORP.

Rated, beautiful more economical Williams Oil-O-Matic COMPLETE heating units provide warm air, winter air conditioning, hot water, or steam heat in homes of every size. Oil-O-Matic's buyers guide booklet "There is a BIG difference in Oil Burners" candidly compares all types. Write Williams Oil-O-Matic Division, Eureka-Williams Corp., Bloomington, Illinois.

**KITCHEN CABINETS**

**77. COPPES NAPANEH CUSTOMBUILT KITCHENS**  
COPPES, INC.

**78. FORMICA ON KITCHEN SURFACES**  
THE FORMICA COMPANY

The Formica Co. offers, free for the asking, copies of its new full-color brochure, "OPEN FORMICA INSPECTION." Brochure illustrates attractive applications of Formica throughout the home, in-

cluding kitchen, bathroom, living and bedroom. Address requests to The Formica Co., 4680 Spring Grove Avenue, Cincinnati 32, Ohio.

**79. GENEVA STEEL KITCHENS**  
GENEVA MODERN KITCHENS

GENEVA STEEL KITCHENS—This large line of standard cabinets plus any special units desired, makes it easy to plan kitchens for cottages or condos. Highlights of line include seamless stainless steel sinks, custom counter tops, no-drip finish inside and out, smooth, silent drawer action. P. M. A. approved.

**80. KITCHEN MAID KITCHENS**  
KITCHEN MAID CORPORATION

Now you can offer your customers Beautiful Kitchen Maid Kitchens with modern Flo-Line Styling, Aluminum Drawers, Baselite Doors, and a host of convenient features. Available in four delightful panels and the popular Applique White. Advertisements supported by a full assortment of sales promotion material and a complete newspaper ad service. The Kitchen Maid Corp., Andrew, Indiana.

**RESIDENCE ELEVATORS**

**81. SEDGWICK RESIDENCE ELEVATORS**  
SEDGWICK MACHINE WORKS

One-story convenience for two-story dwellings can be achieved by planning for installation of residence elevators, stair-travelers and dumb waiters. Vertical transportation not only enables home owners to have the convenience of one-story living, but, in addition, provides many other desirable advantages: such as higher levels, healthier sleeping quarters, greater privacy.

**LIGHTING & WIRING**

**82. CUTLER-HAMMER MULTI-BREAKER**  
CUTLER-HAMMER, INC.

**28. SIGNTRON**  
LIGHTOLIER, INC.

**CLOSET FIXTURES**

**83. KITCHEN K-VENIENCES**  
KNAPE & VOGT MFG. CO.

More than 40 of these space saving clothes closet fixtures make up the K-VENIENCE line.

These fixtures double the capacity of any size or shape closet. They are made of steel, plated with shining chrome. A new line of space saving KITCHEN K-VENIENCES provide a place for everything from pans to dust mops.

**HARDWARE**

**84. KIRSCH DRAPERY HARDWARE**  
KIRSCH MFG. CO.

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

**85. SOSS INVISIBLE HINGES**  
SOSS MANUFACTURING COMPANY

Soss Invisible Hinges have flush, smooth, streamlined interior effects that definitely give any type of building an increased air of quality, of modernity, of streamlined, gracious beauty. Tie in your sales promotions with Soss HOUSE BEAUTIFUL advertising and increase your profit picture. There's a weight-rated Soss Hinge for every type of installation. Soss Manufacturing Company, Detroit, Mich.

**FIREPLACE ACCESSORIES**

**86. FLEXSCREEN FIREPLACE SCREEN**  
BENNETT-IRELAND, INC.

**MASONRY**

**87. PORTLAND CEMENT**  
PORTLAND CEMENT ASSOCIATION

**MISCELLANEOUS**

**\* TUCKER DETERGENT HOUSE WASHER**  
TUCKER MFG. CO.

**FENCES**

**88. ANCHOR CHAIN LINK FENCE**  
ANCHOR POST FENCE DIV.  
ANCHOR POST PRODUCTS, INC.

**89. HABITANT RUSTIC WOOD FENCES**  
HABITANT SHOPS, INC.

**90. RUSTICRAFT WOVEN PICKET FENCES**  
RUSTICRAFT FENCE CO.

**GARDENING**

**a. Equipment**

**\*BRIGGS & STRATTON GASOLINE ENGINES**  
BRIGGS & STRATTON CORP.

**\*GRAVELY 5 H.P. GARDEN TRACTOR**  
GRAVELY MOTOR PLOW & CULTIVATOR COMPANY

**b. Fertilizer**

**91. ARMOUR VERTAGREEN**  
ARMOUR FERTILIZER WORKS

**c. Lawn Care Products**

**\*SCOTT'S LAWN CARE PRODUCTS**  
O. M. SCOTT & SONS CO.

Increase the volume of your garden department this Fall by featuring Scott's LAWN CARE PRODUCTS... SCUTI for killing crabgrass... WEED & FEED, TURF BUILDER, SCOTT'S LAWN SEED and SPREADERS. Millions know August, September, and October are favored months for starting new lawns or rejuvenating summer scorched ones. It's Nature's seeding time.

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Send for your FREE House Beautiful Window and Counter Display Card this easy way. . . .

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# On and Off the Record



News, Views and Comments

**GENERAL MOTORS**—The five-year agreement made with UAW-CIO is unique in labor-management relations. It cannot be re-opened by either party for five years, for any cause before May 29, 1955.

**HIGHLIGHTS**—Adjustment of wages every three months in accordance with a cost-of-living formula; an improvement factor of 4 cents per hour annually; funded non-contributory pension plan; an insurance package for which GMC pays about half the cost; increased vacation pay for 15-year men; additional five cents per hour for certain skilled jobs.

**MOST IMPORTANT**—While the wage scales are important, of far greater importance to everyone including the public is the apparent agreement between GMC and CIO on common goals.

**PATTERN**—The five-year agreement could set a pattern for all future negotiations, eliminate all strikes for five years at least, and provide a firm basis for industrial achievement as yet unequalled.

**MORTGAGE BANKERS**—They view the "Middle Income" housing bill and reduction of rate on Sec. 203 FHA loans without alarm. They do express the hope that Congress will recommend no further relaxation in terms.

**NEED STABILITY**—They ask a reasonable period in which to operate under present terms, and decry uncertainties which would be injected through further government intervention.

**COOP HOUSING**—There seems to be little question that the administration in Washington will press for a government-supported cooperative housing bill. Such legislation would confuse the whole structure of financing the present million-a-year home building program.

**STARTS**—The first five months of the year chalked up about 525,000 starts. Considering seasonal variations, and based on that total for five months the year could ring up 1-1/8 to 1-1/4 million starts, a new all-time record for any year. Weather and the limitations of certain segments of the industry will determine the final total.

**COSTS**—These are on the increase, and may go to a point where buyers will resist. A spot survey in Chicago in late June indicated that costs were up 7 per cent over the 1949 low, and prices up 5 per cent.

**CHICAGO VOLUME**—In spite of advanced costs and prices, sales of ready-built homes for present and future delivery were unchecked, and contracts for new custom-built homes were being signed in increasing numbers. Public was evidently convinced that increased wage scales to building tradesmen and others had set a new long-term cost basis.

**ESCALATOR CLAUSES**—These were beginning to appear in several spots including the New York area. Reason was sharp rises in lumber prices, and scarcity of some materials. Reports of attempts to renegotiate contracts by builders who had sold for future deliveries from models being circulated.

**TROUBLE**—Builders in several parts of the country, who had sold heavily for future delivery at firm contract prices were reported in trouble—unable to deliver at contract price without loss, and facing lawsuits if they failed to deliver.

**TEAMSTERS**—A Westchester (N.Y.) local business agent was reported to have forced builders to abandon the practice of picking up materials in their own trucks, and instead, hire trucks with drivers from a service concern. Started when union insisted that union teamsters do all the hauling on every job.

**SPECIFIC CASE**—Builder was short of copper nails one morning, so drove to his supplier and picked up keg of nails. After return to office was phoned by union and asked if he had had his private car at suppliers that morning. Builder replied in affirmative. Was ordered to have check for one day's pay for truck driver at union office immediately.

**PUBLIC HOUSING**—Builders and suppliers in New York agree that public housing programs—federal and state—are seriously hurting private builders by draining materials and labor. That was situation in early summer.



Stay Tight with **KAY-TITE**

FOR MASONRY ONLY

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For further information write  
**KAY-TITE COMPANY**

WHITE  
&  
GREY

DRAWER 510

West Orange, N. J.



**During National Home Week, feature the  
that completely modernizes dishwashing  
*POWERFUL ADVERTISING THAT***

**Act Now! Install Youngstown Kitchens Automatic Dishwashers . . . and Get the Full Selling Power of Sensational Advertising that Appears in Your Local Papers—as well as Nationally—during National Home Week.**

**THE BIG NEWS** in the kitchen appliance field is the entirely new and different Youngstown Kitchens Automatic Dishwasher.

**AND TO THOUSANDS OF HOME BUYERS IN YOUR COMMUNITY**, the big news will break during National Home Week! Powerful, 4-color double spreads in national magazines and sensational advertisements in your local newspapers will sell the new Youngstown Kitchens Automatic Dishwasher as the electric machine that **COMPLETELY MODERNIZES DISHWASHING!**

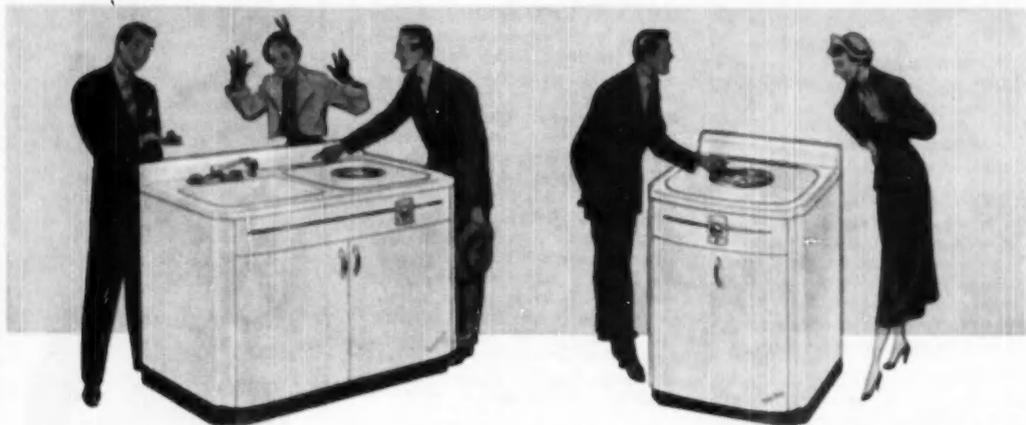
To virtually all the thousands of new home prospects who read and hear about the great new Youngstown Kitchens Dishwasher, "Youngstown Kitchens" has long meant "modern kitchens."

They'll be presold on the Youngstown Kitchens Automatic Dishwasher—just as they are now presold on Youngstown Kitchens. And when they see the Youngstown Kitchens Automatic Dishwasher in your homes, they'll greet it as the last word—and the best word—in modern work-saving, timesaving equipment.

So make the Youngstown Kitchens advertising of the Automatic Dishwasher, with the exciting new Jet-Tower principle, help YOU sell your houses easier, faster, during National Home Week and after. Wire now, at once, for details.

**MULLINS MANUFACTURING CORPORATION**  
WARREN, OHIO

**World's Largest Makers of Steel Kitchens**



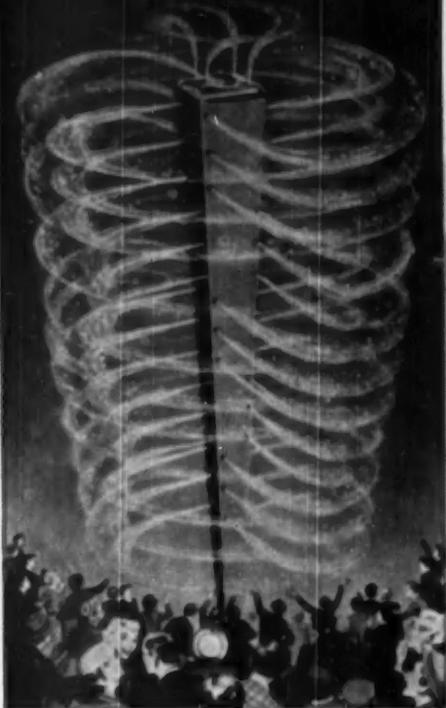
**YOUNGSTOWN KITCHENS ELECTRIC SINK** combines Dishwasher and Food Waste Disposer (optional) in beautiful 48" Cabinet Sink . . . with all the work-saving features and beauty that have made Youngstown Kitchens world-famous.

**YOUNGSTOWN KITCHENS AUTOMATIC DISHWASHER** in a trim, tidy, white-enamelled steel cabinet—27" wide. Fits snugly near any sink. Handsomely styled to blend perfectly with other Youngstown Kitchen units.

New Youngstown Kitchens Dishwasher  
... and **CASH IN ON THE  
LAUNCHES IT!**...

IT'S THE AMAZING  
**JET-TOWER**  
with exclusive  
**HYDRO-BRUSH ACTION**

—that makes the Youngstown Kitchens Automatic Dishwasher so practical, and so efficient. Water is "booster-heated" to ideal washing temperature (regardless of hot-water supply). Then, 64 whirling, swirling jets brush-flush every hollow, groove, corner and contour of every dish, glass, piece of silver and cooking utensil. Hydro-Brush Action from top to bottom. Followed by two piping-hot rinses. Presto! Dishwasher stops and pops open cover for practically instantaneous flash drying. All in 9¼ minutes (normal water pressure). All done automatically, electrically.



**WHEN WOMEN SEE THE EASE AND THOROUGHNESS** and speed with which the Youngstown Kitchens Automatic Dishwasher washes dishes, glasses and silver spotlessly clean—they're instantly and completely sold!

Users have, generally, one comment: —  
"This is the greatest helper a housewife ever had!"

For the Youngstown Kitchens Automatic Dishwasher **COMPLETELY MODERNIZES DISHWASHING.**

In just 9¼ minutes, it washes all the dishes for a family of six beautifully clean and bright. And—it's **FULLY** automatic. All the housewife does is flick a switch. The Youngstown Kitchens Automatic Dishwasher washes, double-rinses, stops, and pops open its cover for quick atmospheric drying—all by itself!

It's **superefficient** — it is the only automatic dishwasher that incorporates the remarkable **Jet-Tower** principle and **Hydro-Brush Action.**



*Youngstown Kitchens*



# TECHNICAL GUIDE for Builders and Craftsmen

## Installation of Structural Corrugated Glass

**T**HE POSSIBILITIES of corrugated structural glass as both a structural and design medium are receiving increasing attention from architects and builders today. These men are now finding that entire walls can be made of translucent glass without a criss-cross of supporting members or mortar joints. Its application appears to be unlimited in its scope both for exterior and interior work. Its use is not confined to commercial or industrial work, but has a widespread appeal in many phases of home design.

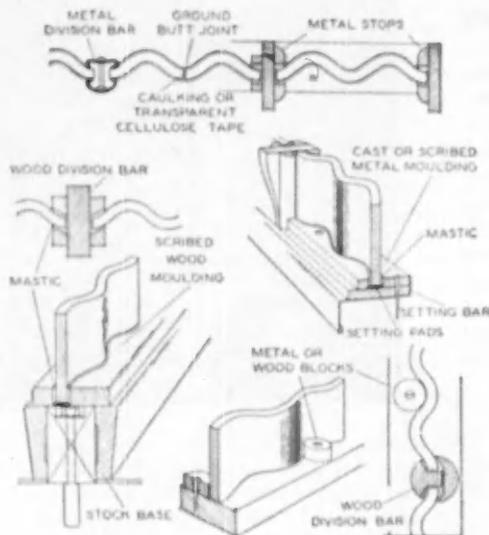
Structural corrugated glass can be obtained in standard

up to 50 inches. Corrugated glass exposed to sun or close to radiators should not be painted. Breakage may occur.

**SPECIAL OPERATIONS:** When required, pattern cutting can be done on the surface of glass with a diamond saw or by masking and sandblasting. Simple corner notches can also be made, as well as holes up to one inch in diameter for assembly use, etc.

### INSTALLATION

**GENERAL SETTING PRACTICE:** Improved Structural Glass should never be glazed directly on hard metal, masonry, or other unyielding base. Where a base of

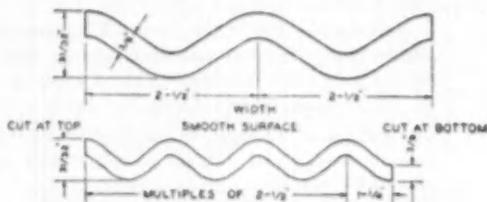


SUGGESTED details for installing structural corrugated glass

widths of 25 and 50 inches with a maximum length of 144 inches. The corrugations of two types of glass most generally used are based on multiples of  $2\frac{1}{2}$  inches as indicated in drawing. Thickness of the glass is approximately  $\frac{3}{8}$  inch.

**EDGEWORK:** When odd widths of glass are requested cut edges will usually contain spalls, projecting points and cut-backs. These edges should be ground to provide a neat butt joint. When turning the corner with glass it will be necessary to miter ground the edge.

**SURFACE TREATMENT:** Glare reducing finish can be applied on both surfaces on sheets up to 30 inches in width. Either or both surfaces can be sandblasted in sizes



DIMENSIONS of two types of glass to be observed when ordering

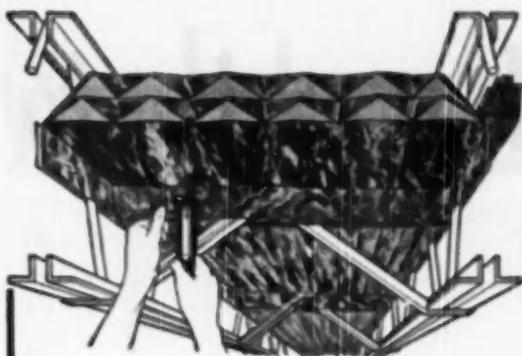
this kind is necessary, wood setting blocks or other cushioning material of adequate size and shape should be used. This glass should never be set directly in concrete, as breakage may result, and it should never be wedged tightly into an opening. Not less than  $\frac{1}{8}$  inch should be allowed at each side jamb. The factory does not supply moulding, trim or fittings.

**INTERIOR SETTING PRACTICE:** (a) *Butt Joints:* Where this glass is set edge to edge, the sides of the abutting lights must be accurately ground. The appearance of the installation will be improved if the ground edges are first painted with a clear cellulose acetate lacquer or transparent cellulose tape is applied; this will serve to remove the white, ground edge glass, when the installation is viewed from an oblique angle, and will prevent touching and spalling.

(b) *Division Bars:* This glass can be set with division bars of metal, wood or plastic, which may either be specially designed for the purpose or made up of stock shapes. Unless the division bars provide coverage of at least  $\frac{1}{2}$  inch from the edge of each light, the edges of the glass should be ground.

(c) *Mouldings:* Head and sill mouldings are generally used to hold the glass in place. Unless used in connection with ground edges, mouldings should be at least one inch deep, to cover any spoils or chips. Mouldings may be of wood or metal, and may be made to fit the contour of the glass or may be straight, with the contour filled by scribed

(Continued on page 165)



# Steel truss problems of heat loss, heat intrusion and condensation solved

**For under  
15c sq. ft., material  
with labor**

## IN FACTORIES, WAREHOUSES, HOSPITALS, SCHOOLS, MARKETS, ARENAS, THEATRES, FIREPROOF RESIDENCES, ETC.

It is hard to keep these structures comfortably warm or cool. In addition, condensation forms, often drips, causes damage. These problems are solved by using 3, tough, never-touching sheets of aluminum, compartmented by 2 fiber or asbestos partitions.

Steel beams are good conductors, exchange much heat with the surrounding atmosphere, causing condensation, and need insulation against heat and vapor flow. Multiple accordion aluminum sheets allow no vapor to pass; are non-condensation-forming; retain no moisture. With their zero permeability, they push out fortuitous vapor from wall, floor, and ceiling spaces. They emit practically no heat on the cold side — only 3%.

Contrast this with the necessity of heating-up tons of steel beams and mass insulation (usually wet) which wastefully emit 90% heat on the cold side. In summer, iron and steel beams, mass insulations, and most building materials, continue to radiate uncomfortable heat into a room long after the outside air has cooled. Multiple accordion aluminum sheets not only are cool at night, but all through the hot summer day often maintain temperatures 10° to 20° cooler than the shade outside.

Insulation as described above is technically called Type 6 Infra.

### 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**

Multiple Accordion Aluminum and  
Triangular Reflective Air Cells

### INFRA INSULATION, INC.

10 Murray Street New York, N. Y.

Telephone: COrtlandt 7-3833

#### Get Valuable Free Copy

of new, revised "Simplified Physics of Thermal Insulation," an authoritative, simply-written 44-page manual on heat and vapor flow, condensation, radiant heating, etc. Just off the press. Master Chart gives k, C, R, and U factors of all insulations, of all thicknesses, weights, densities.

Explanations and illustrations of multiple aluminum accordion insulations and mass insulations; and how to install and where. Check coupon to get free samples of Infra's insulations and price lists.

Our experts will answer specific questions.

INFRA INSULATION, INC.

10 Murray Street, New York, N. Y.

Dept. B-4

Please send "Simplified Physics of Thermal Insulation."

Name \_\_\_\_\_

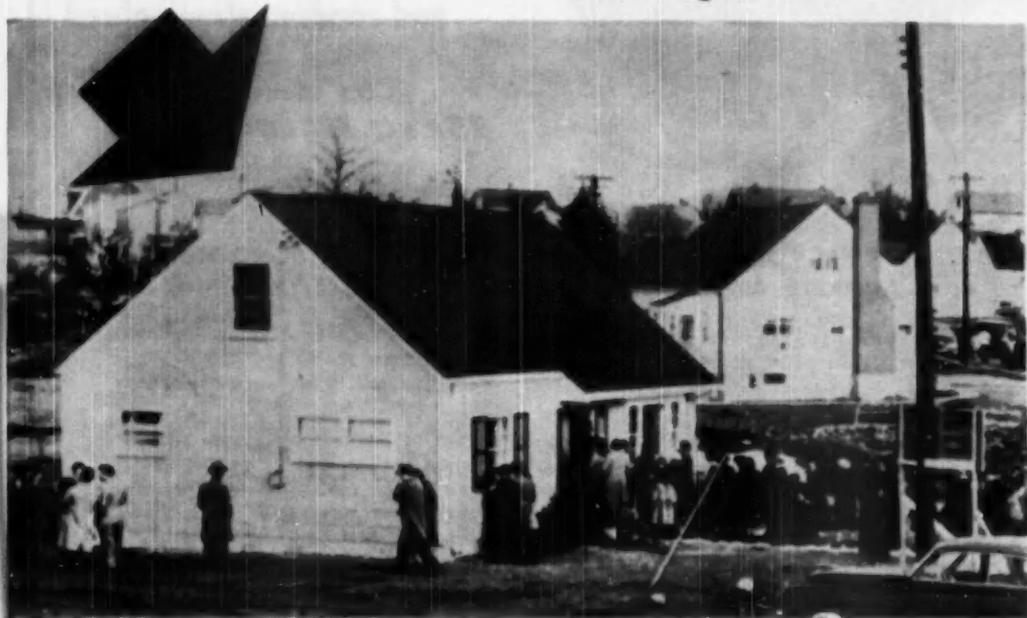
Firm \_\_\_\_\_

Address \_\_\_\_\_

Send Price Lists of Insulations

Send Free Sample

# They'll beat a path to



**THIS PHOTOGRAPH** was taken on opening day at the Stratford Acres Model Home in Stratford, Conn. A G-E Kitchen-Laundry was featured . . . and included in the purchase price of the house.

From all over America come similar enthusiastic reports from builders who have installed G-E equipment.

YOU, too, can include G-E Kitchen-Laundry equipment in your homes for as little as \$4.80 a month under the "Packaged Mortgage" Plan.

Why not install General Electric equipment in your homes, and watch home buyers beat a path to your door?

## General Electric offers you all this :

- Tested merchandising programs that have helped so many other builders enjoy phenomenal sales results.
- The brand of electrical appliances that people prefer to all others.
- One source of supply for matched equipment . . . a full line of cabinets and appliances.
- Assistance in designing and improving kitchen layouts for your houses.
- And most important: G-E equipment is world-famous for its dependability! Why not let G-E help pre-sell your houses?

You can put your confidence in—

**GENERAL**  **ELECTRIC**

# your door every time!



**George Decker and Oliver Martin** of Stratford, Conn., built their model home with a completely equipped General Electric Kitchen. Although other new homes near by were not selling, all fifty of the Stratford Acres homes were sold within 48 hours!



Here's how: the Bridgeport Telegram, Bridgeport, Conn., reported the model home event the next day:

"An estimated 3400 persons visited the Stratford Acres Homes Model Home on Greenfield Avenue, Stratford, yesterday afternoon, and all 50 homes planned by the firm already have been sold . . . the home sells for \$10,500."

#### Offered under "Packaged Mortgage" Plan

Builders of the homes report that this is the first large-scale

housing development in this part of the state to offer an all-electric kitchen fully equipped under a packaged mortgage...

#### A typical success pattern!

This experience with the General Electric equipped house is not unusual. Rather, it is typical of the sales miracles that are happening all over the country.

#### General Electric will help YOU, too!

Why not let General Electric help pre-sell your houses? See your local General Electric distributor, or write to the Home Bureau, General Electric Company, Bridgeport 2, Conn.

#### Here's the big drawing card . . .

. . . the completely equipped General Electric Kitchen-Laundry that is included in the sales price of the Stratford Homes.

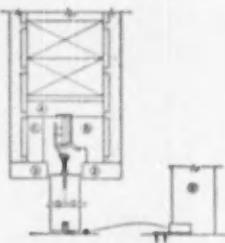
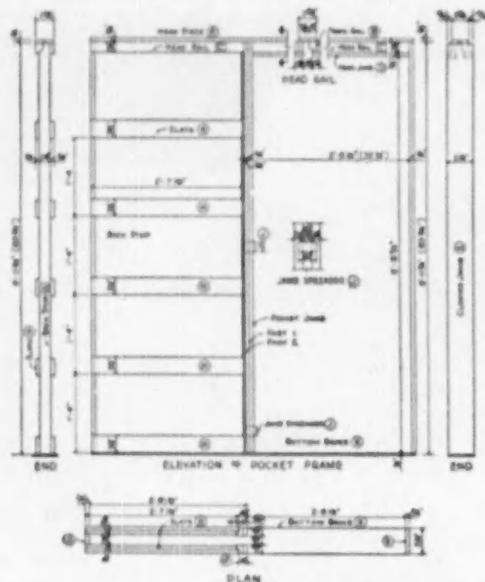
This worksaving General Electric Kitchen includes: Automatic Dishwasher-Sink and Disposal®, Automatic Washer, Range, Refrigerator, Clock, and all-steel Cabinets. No wonder all 50 houses were sold within 48 hours!



## Installation of Sliding Door Frames

**B**UILDERS and architects are interested today in methods devoted to saving space in areas, such as walls—especially with the current emphasis upon lower-cost

homes. The Sliding Door Unit adopted by the Fir Door Institute fits itself into a normal 2x4-inch-thick frame wall with assured ease of operations.



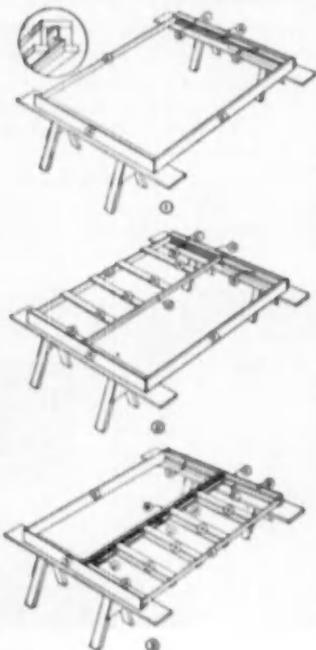
hanging door. When door is hung the stop is nailed permanently. Right angle metal guide, which engages groove in door bottom, should be fastened on floor in center of frame opening, and slightly forward of (RF) and (LF) jamb. The complete sliding door frame is constructed for 2x4 standard wall construction. Finished thickness 5-7/8 inches with plaster stop (D).

**NOTE** that the plaster stop (D) is temporarily nailed. This is done to allow inserting and

Any 1-1/2-inch-thick door may be specified for use with this frame. Doors 1-3/4-inch-thick cannot be used with this stock unit.



DETAILED method of hardware installation



**W**HILE the header indicated at (A), (B) and (C) in the assembled drawing above and the circled detail at left comes as a complete unit, it is necessary to screw the metal track in place on which the door hangs, before any assembly is started.

**Step No. 1:** The first step in setting up the frame is shown in Figure 1. Header comes from factory as a single unit, consisting of (A), (B) and (C). Nailing assembly should proceed as follows: Header (A) is laid on horses, and rear jamb (G) is nailed to header. Next nail front jamb (E) to header. Bottom brace (E) is nailed to the two jambs (G) and (E).

**Step No. 2:** In Figure 2 in the assembly insert one of the split jambs (LF) in place, fitting into mortise in header. Put one (H) piece at (K) to give (LF) quick alignment. Then nail split jamb to bottom plate (E) and header to (A). Now nail spreaders (H) to (G) and (LF). Gluing spreaders to split jamb but not to back jamb is best practice. Following this, temporarily nail plaster stop (D) to pieces (B) and (C), placing between split jamb (LF) and front jamb (E).

**Step No. 3:** For the final assembly turn over the frame tacking jamb spreaders (I) in position on split jamb (LF) as shown. Do not nail jamb spreaders on spreader. Spreader is needed so carpenter will not drive jambs too close together when toenailing frame into place. Position (RF) following procedure in step 2. The frame is now ready to be shipped with the package of hardware to the dealers yard.

**T**HE HARVEY Sliding door track can be easily installed by the following directions.

1. Plate "A" should be mortised into top of door. Place plate "A" 5-3/8 inches from top edge of door to center of plate, and scribe a line for position. Be sure the plate is centered and plumb with the top edges of door. (NOTE: For doors less than 24 inches wide—attach plates 3 inches from edge of door to center of plate.) Remove the plate and mortise to the depth of plate. Place plate in mortise and mark location of screw holes and center hole for adjusting bolt. Remove the plate and drill 3/8 inch hole—1-1/4 inch deep, for the adjusting bolt.

2. Screw plate (A) into position; insert adjusting bolt (B) into plate and thread down nut (C) until the bolt extends about 3/4 inches above plate.

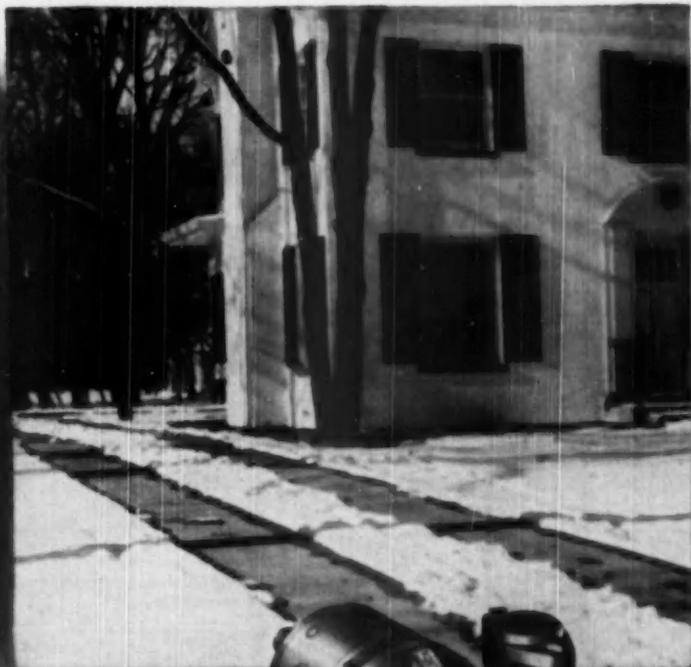
3. When both plates and bolts are mounted, set the door into position in the opening. Project the door about 1-1/2 inch into frame pocket to steady the door. Now shim up door about 3/4 inch from floor.

4. Hook the hanger (D) onto the track groove directly above plate (A). Engage top slot of adjusting bolt into flange of hanger. Tighten nut on adjusting bolt so hanger is rigid.

Data and drawings courtesy Fir Door Institute

# SNOW MELTING

## Hydro-Flo Heating



Here's one more reason why B & G *Hydro-Flo* Heating is tops in modern heating. Hot boiler water can be circulated by a B & G Booster through pipe coils under the driveway and sidewalk, melting snow as fast as it falls. Another tiresome job eliminated!

B & G *Hydro-Flo* Heating is known the country over for its outstanding advantages . . . *controlled radiant warmth* . . . fuel economy . . . supreme comfort in any weather! This forced hot water system permits a choice of baseboards, radiators, convectors or completely concealed radiant panels. Whatever your selection, you'll have the finest in automatically controlled heating.

The B & G *Hydro-Flo* System matches the heat supply to the weather—so exactly that from Fall to Spring, indoor temperature is held constantly at the comfort level. And besides, it provides a year-'round supply of hot water for kitchen, laundry and bath.



### NO JOB TOO BIG OR TOO SMALL

Hundreds of thousands of B & G *Hydro-Flo* Systems are in operation today. You'll find them in low-cost homes, apartments, industrial and commercial buildings, delivering the same comfort regardless of the size of the building.



B & G  
Flo Control  
Valve

### B & G HYDRO-FLO HEATING EQUIPMENT

The basic units of a B & G *Hydro-Flo* System are simple and dependable—an assurance of long years of trouble-free service. Any hot water boiler—new or old—can be equipped with B & G *Hydro-Flo* Products.



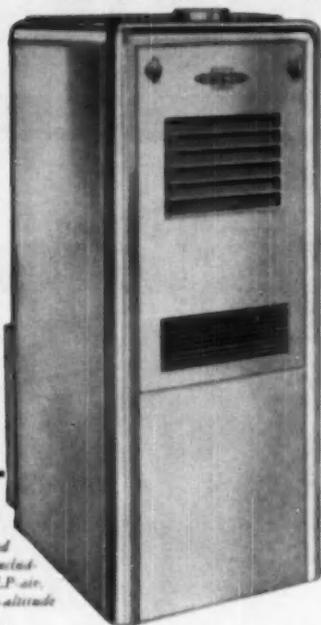
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1400 O'Connor Road, Toronto 15, Canada

*Company*

#Reg. U. S. Pat. Off.

# 5 New Models! Delco-Heat Announces a Brilliantly Engineered Line of New Gas-Fired Conditionairs



AGA approved  
for all gases, including  
LP and LP-air.  
Also for high-altitude  
installations.

"GA" Series Gas-Fired Conditionairs

| Model* | DIMENSIONS |              |              | BLOWER |             | AGA APPROVED RATINGS<br>BTU'S PER HOUR (in Thousands) |             |               |             |            |             |
|--------|------------|--------------|--------------|--------|-------------|---|-------------|---------------|-------------|------------|-------------|
|        | Ht.<br>in. | Width<br>in. | Depth<br>in. | RPM    | CFM<br>Max. | Nat. Wfg.<br>Mixed Gas                                |             | LP-Air<br>Gas |             | LP-Gas     |             |
|        |            |              |              |        |             | In-<br>put  | Out-<br>put | In-<br>put    | Out-<br>put | In-<br>put | Out-<br>put |
| GA 63  | 56         | 22           | 26           | 550    | 550         | 62.5  | 30          | 62.5          | 30          | 60         | 44          |
| GA 90  | 56         | 22           | 26           | 650    | 800         | 90  | 72          | 90            | 72          | 90         | 72          |
| GA 120 | 56         | 28½          | 26           | 640    | 1050        | 120   | 96          | 120           | 96          | 102        | 96          |
| GA 150 | 56         | 35           | 26           | 620    | 1300        | 150   | 120         | 120           | 120         | 150        | 120         |
| GA 120 | 56         | 48           | 26           | 600    | 1600        | 210   | 168         | 210           | 168         | 210        | 168         |

\*Available with either 12 or 16 gauge heat exchanger.



## New Homes sell better when they're equipped with Delco-Heat!

Delco-Heat manufactures a complete line of automatic home heating products—for all types of fuels, all systems of heating and all sizes of homes. And our engineering and sales department will be glad to

serve you in any way possible. For information about Delco-Heat products, write to Delco Appliance Division, Dept. AB-8, General Motors Corporation, Rochester 1, New York.

## Products of General Motors!

Here is a new line of gas-fired forced warm air furnaces that will add sales appeal and make your new homes easier to sell! Because for features, for value and for appearance—the new Delco-Heat "GA" Conditionairs challenge all competition!

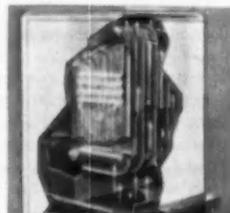
The new "GA" Series includes 5 AGA-approved, forced warm air models—in both 12 and 16 gauge steel. Capacities are 62,500, 90,000, 120,000, 150,000, and 210,000 Btu input . . . a range that makes them applicable for all sizes of homes.

Note that the new "GA" Conditionair has extreme eye-appeal. It's compact, streamlined, and tastefully finished in Delco-green. Nothing protrudes—even the draft hood is concealed beneath the louvered panel.

Outstanding features of the "GA" Conditionair include the exclusive Multi-Rad heat exchanger—ribbon-type twin burners — and a blower-filter unit that is powered by Delco's famous Rigid-frame motor.



Ribbon-type twin burners are engineered specifically for Multi-Rad sections. Made of cast iron, with expertly designed stainless steel ribbons. Design assures more even flame, more complete combustion, positive ignition and quiet operation.



Exclusive Multi-Rad heat exchanger has continuous-welded construction. Each of the multiple sections completely encloses the flame from a separate burner head. This affords greater radiation area — extracts maximum heat from fuel.

Also manufacturers of Electric Water Systems for farms and homes—fractional horsepower electric motors—electric automobile clocks.

Build extra "Buy Appeal" into every home with new Celotex Insulating Sheathing  
**IT'S STRONGER—MORE RIGID**

and **Double-Waterproofed!**

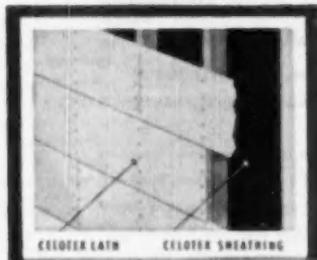


### 1 Waterproofed Inside!

Every one of the millions of tough cane fibres in its insulating board core is integrally treated with a waterproofing compound during manufacture.

### 2 Waterproofed Outside!

This board is then coated on both sides, and on all edges, with a thick, enduring "raincoat" of specially-treated asphalt which seals out moisture.



CELOTEX LATH      CELOTEX SHEATHING

The quick, low-cost way to build  
*"the Ideal Wall"*

Celotex Insulating Lath forms a strong, solid, continuous insulating plaster base. Used in combination with Celotex Insulating Sheathing it gives you the "Ideal Wall": a stronger wall with **BUILT-IN** inside. See. Write today for details.

New Celotex Insulating Sheathing enables you to build better, more salable homes at lower cost. Provides the effective sidewall insulation so necessary to keep a home cooler in summer, warmer and thriftier to heat in winter. Cuts both material and labor bills, because it insulates and builds, all at one time, at one low cost. Far stronger, more rigid than ever. Quick and easy to apply. Negligible waste. No building paper needed.

Though double-waterproofed, new Celotex Insulating Sheathing has over twice the vapor permeability required by government agencies. Resists moisture penetration even under severe exposure during construction. Thus enables you to resume work more quickly after heaviest rain, cutting costly delays.

No other insulation gives all the ad-

vantages of Celotex Insulating Sheathing. For no other is made of long, remarkably strong Louisiana cane fibres. And no other is protected against fungus, dry rot and termites by the exclusive patented Ferrox® Process. Yet this strong rigid insulation—applied—costs no more than ordinary sheathing!

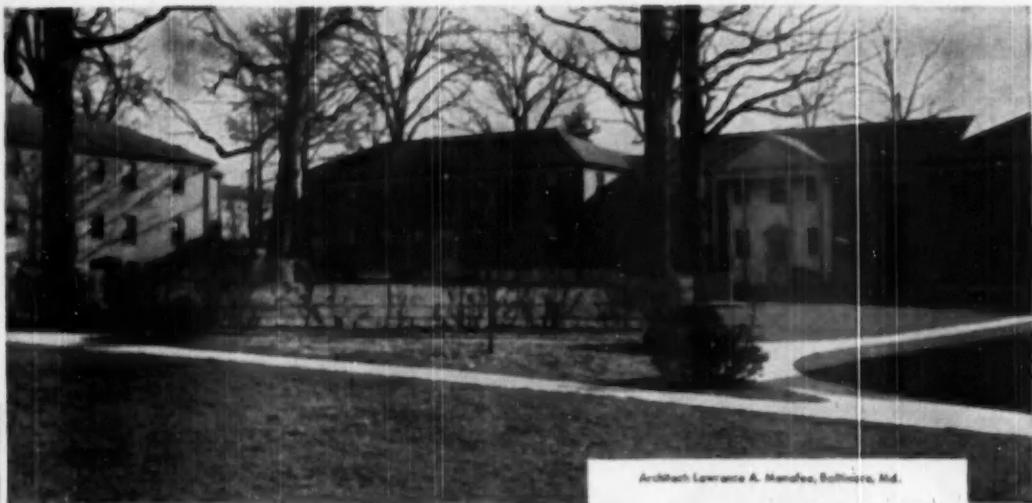
Send now for . . . free copy of the helpful new Celotex booklet, "How You Can Build Better Homes at Lower Cost." Gives full details on Celotex Double-Waterproofed Insulating Sheathing. The Celotex Corporation, Chicago 3, Illinois.

\*SEE U. S. PAT. 2,197,107.

**TYPES AND SIZES:** 25/32" Big Board, 4' wide x 8', 9', 10', 12' lengths; square edges—25/32" V-Type Center Matched, 2' wide x 8' long; center matched on long edges—1/2" Big Board, 4' wide x 8', 9', 10', 12' lengths; square edges.

*To make your home easier to sell . . .*

Build with genuine **CELOTEX** BUILDING PRODUCTS  
MADE IN U. S. A.  
 THE CELOTEX CORPORATION, CHICAGO 3, ILLINOIS



Archibald Lawrence A. Mandes, Baltimore, Md.

**Donneybrook Corporation  
chooses**

**K&M "Century"  
ASBESTOS-CEMENT ROOFING SHINGLES**

**for appearance, long life,  
economical installation**

When the Donneybrook Apartment Corporation chose K&M "Century" Shingles for the roofing on this modern Towson, Maryland, apartment project, there were good reasons for doing so—three good reasons.

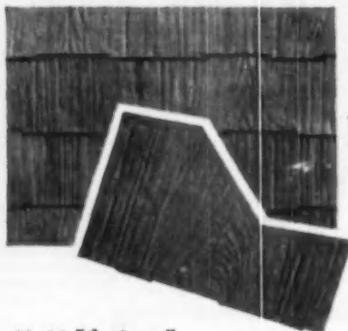
Read what William F. Chew, President of the company says: "We recognized in the use of 'Century' No. 5 Asbestos Roofing that (it) would not only give us the desired effect, but that long life and resistance to fire are features inherent in the product."

Commenting on the economical application of K&M Asbestos Shingles, Mr. Chew says, "We experienced on this installation, which involved over 1400 squares, that the No. 5 Shingles were not only easily, but quickly applied."

The experience of the Donneybrook Corporation proves again that your strongest sales points for K&M Shingles are *attractive appearance, long life, and economy*. Add to these the recognized freedom from maintenance, and you have a powerful sales story for any owner.

Tell your customers, too, about the "extras" in K&M "Century" Shingles. K&M Shingles resist weather, rust, rot, rodents, and fire. Their eye-pleasing colors—White, Black, Spanish Red, Surf Green, and Gray-tone—are *built in*.

With sales points like these, you can build your business—*increase your profits*—with K&M "Century" Asbestos-Cement Shingles. Ask your K&M Dealer for complete details, or write us direct.



**K&M "Century"**

**ASBESTOS No. 5 SHINGLES USED IN  
ROOFING THE DONEYBROOK APARTMENTS**

American method appearance; random width, matched butt construction. Each unit covers over 1 sq. ft. of exposed area. Application cost is low—only 9(1) shingles per square; 2 nails per shingle; self-aligning. Suitable for reroofing—apply directly over old wood shingles or composition roofs. Give complete weather protection on roof pitches as low as a 4" rise per foot.

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

*Original manufacturers of Asbestos-Cement Shingles in this country*

**EDITORS'**  
**Round Table**

**FHA**, with a few exceptions in a few of its regional offices from time to time, has been viewed by builders as a great aid in the field of building finance. That has been the picture from the time FHA was founded until recently.

**NOW**, it is reported by many sources, FHA seems to be losing its traditional policy of realism and co-operation.

**IN ITS PLACE**, say builders who note the change, is an increasing note of bureaucratic arbitrariness.

**THE QUESTION** is arising as to whether FHA is deliberately attempting to slow up the current home building wave by a policy of unrealistic valuations. If that is not the idea, said one builder, maybe they think they are indispensable, and can force us to go along on any terms they want to name.

**EITHER WAY**, he continued, the attitude, if it persists, may well put FHA out of business. The builder, after all, is a customer, and he will do business with FHA only as long as it is expedient to do so.

**IF THERE** is any basis for these complaints, FHA officials would be well advised to take them seriously, and examine their attitudes. It is almost universally conceded that FHA has been good for home building. It is not necessary to recite the well known achievements of the agency, but it is timely, in light of criticism that is increasing, to suggest to FHA that it take a good, long look at itself.

**HOW MANY RETAIL** lumber dealers will participate actively in National Home Week this year was not known in early June. NRLDA, however, was leaving no stone unturned to arouse interest, particularly among dealers in smaller towns where there is no formal organization of the home building industry.

**NRLDA** in May had issued a prospectus for independent dealer participation. The prospectus detailed the advantages that would accrue through participation, and set up two plans.

**PLAN A** is for dealers who build homes themselves or can set up co-operative arrangements with one or more builders for the construction of one or more exhibit homes.

*(Continued on page 55)*



● Kitchens in many of the Stapp homes include automatic electric laundry equipment for which ample, automatic hot water is assured by an Electric Water Heater of adequate size. There are also plenty of convenience outlets to make work easier.



... of course,  
**It's ELECTRIC!**

It pays to install Electric Water Heaters. They're completely automatic, clean, dependable in operation. They save money for builder and customer alike. Installation can be made anywhere—no flue or vent. This shortens hot water lines, cuts piping cost, prevents water waste. Fully-insulated storage tank for extra economy of operation. Safety assured by all electric, dependable temperature control.

**ELECTRIC WATER HEATER SECTION**

National Electrical Manufacturers Association • 155 East 44th Street, New York 17, N. Y.

ALLCRAFT • BAUER • BRADPOD • CRANE-LINE ELECTRIC • CROLEY • DEEPFROSTZ • FAIRBANKS-MORSE  
POWER • FRIGIDAIRE • GENERAL ELECTRIC • HOTPOINT • HOTSTREAM • JOHN WOOD • KELVINATOR  
LAWSON • MERTLAND • MONARCH • NOBLE • PERCO • SIK • SHESH • SPOD • A. G. SMITH • THERMOWAY  
TOASTMASTER • UNIVERSAL • WELIX • WESTINGHOUSE

**It's EASY to  
INSTALL an**

**ELECTRIC WATER  
HEATER**

**in a house wired for an Electric Range!**



**TRUSCON  
METAL LATH  
AND  
ACCESSORIES**

**immediate  
delivery assured**



Diamond Lath



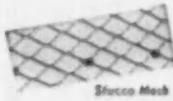
Herringbone  
Doublemesh Lath



1/2-inch  
Ribbed Lath



Soft-  
Sentoring Lath



Stucco Mesh



No. 8 Rib  
Stool Corner Bead



No. 700  
Partition Cap



No. 69  
Curved Point  
Base Screed With Corner  
Fittings



No. 72  
Wide Flange Casing



No. 7  
Expanded Corner Bead



No. 604  
Bull Nose Corner  
Bead - 1/4" Radius



No. 607  
Bull Nose Corner  
Bead - 1 1/2" Radius



No. 1 Base  
Screen - Flute Type



No. 10 1/2  
Scalloped  
Edge Corner Bead



**from many supply points**

From Truscon Warehouses in  
24 principal cities... from Truscon building  
supply dealers in almost every community... from Truscon  
Sales Offices at 47 major points... you get products and service  
that give you the greatest possible assistance in attaining continuous,  
profitable craftsmanship. • There are over 40 items in the Truscon  
Quality Line, giving you the most complete group of metal lath and  
accessories available from any single source. They are made by the  
world's largest manufacturer of steel building products, assuring  
you the highest standards of materials and workmanship.

Write for illustrated literature giving details  
of entire line.



FREE Book on Truscon Metal Lath and Accessories. Write for it. The  
Truscon Steel Company Manufactures a Complete Line of Metal Lath  
and Accessories, Including Practically All Items Necessary to Insure  
a First-Class Plastering Job in Any Type of Building Construction.

**TRUSCON** STEEL COMPANY

Subsidiary of Republic Steel Corporation  
YOUNGSTOWN 1, OHIO  
Warehouses and sales offices in principal cities

See  
the difference in  
**MENDEL** Stabilized  
**SOLID-CORE** Flush **DOORS!**

Mengel Stabilized Solid-Core Flush Doors employ an entirely unique and exclusive principle to give you a new standard of stability and dependability — and at strictly competitive prices.

Instead of attempting the impossible task of preventing expansion and contraction in wood, Mengel has developed a construction design which absorbs expansion and contraction within the core itself. All Mengel core members are deeply slotted at frequent intervals, both with and across the grain. The result is that the slots expand or contract in width, but the door remains stable!

Get all the facts, and see a cutaway sample. When you see the difference, you'll greatly prefer Mengel Stabilized Solid-Core Doors!

Also see —  
**MENDEL HOLLOW CORE FLUSH DOORS**  
the finest products of their type on the market.

FOR FULL DETAILS, PLEASE JUST WRITE  
YOUR NAME AND ADDRESS IN MARGIN, AND MAIL TO —

Plywood Division • **THE MENDEL CO.** • Louisville 1, Kentucky



All standard  
sizing and  
grades available

QUALITY CONTROLLED

**MA-TI-CO**  
ASPHALT TILE  
FLOORING

Because...  
**Only the Best Will Do!**

# MA-TI-CO

## SELECTED FOR USE THROUGHOUT THIS MODERN HOSPITAL

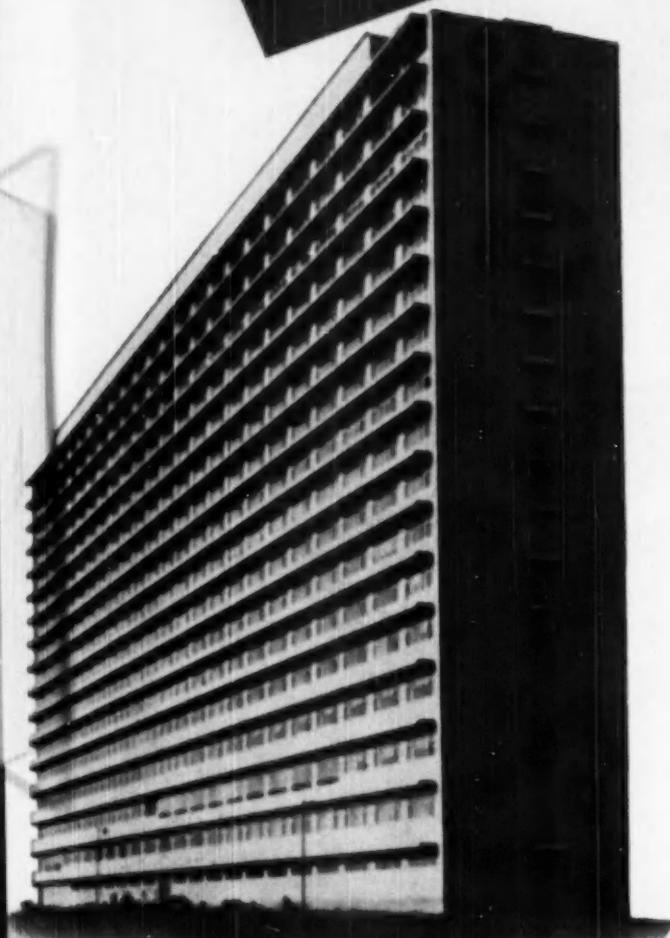
Day by day, the list of impressive MA-TI-CO Asphalt Tile installations continues to grow. More and more architects and builders are discovering that MA-TI-CO's outstanding advantages are the answer to almost every flooring problem.

MA-TI-CO assures long-lasting wear, resilience, economy, sanitation and easier, faster installation — qualities that make MA-TI-CO ideal for every type of installation. And MA-TI-CO's 27 rich, clear colors in solid tones and marbled patterns — including five new "Petal Tones" — add charm to any decorating scheme — offer unlimited design possibilities.

Whatever your next project — apartment, theatre, industrial plant, church, hotel, commercial store, institution or private home — be sure to specify MA-TI-CO Asphalt Tile. You couldn't choose a better all-around flooring.

### GET TO KNOW MA-TI-CO

Write today for MA-TI-CO literature and sample color chart!



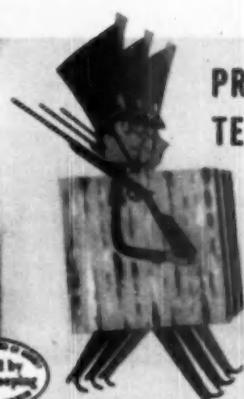
**FORT HAMILTON VETERANS  
ADMINISTRATION HOSPITAL**  
Brooklyn, N. Y.

Architect: Skidmore, Owings & Merrill  
Gen. Contractor: Cauldwell-Wingate Co.  
Flooring Contractor: Circle Floor Co., Inc.

### PRECISION TESTED

to conform to Federal  
specifications for

- Flexure
- Indentation
- Curling
- Impact



EDITORS'

## Round Table

(Continued from page 51)

**THIS PLAN** suggested that a dealer either have a house of his own ready for exhibit or arrange with one or more builders to have houses ready.

**IT ALSO** suggested arrangements with a local furniture dealer to furnish one or more houses, and listed publicity avenues available.

**PLAN B** was for dealers who do not build and for one reason or another could not arrange with a builder to have a house ready for exhibit.

**THIS PLAN** suggested open-house in the storage yard and showroom. Informative product displays were suggested and it was urged that local groups—women's clubs, church groups, Boy Scout Troops, etc. be invited to attend special demonstrations of materials and their uses.

**IT IS NO SECRET** that the retail distribution segment of the home building industry has suffered from lack of public relations to the extent that relatively few buyers are aware of the facilities and information—not to mention materials and services—that the modern, progressive retail lumber yard has to offer the building public.

**PUBLIC RELATIONS** increasingly are being recognized as more telling when implemented at the local level, and perhaps reaching maximum effectiveness when done locally, and at the same time tied in with a national program. NRLDA points out to its affiliated locals and their members that National Home Week has a tremendous impetus because of the nation-wide character of the activity.

**WHETHER** a local dealer both cashes in for himself and gives his community the benefits of information highlighted during National Home Week depends upon his knowledge of the building problems and needs of his community, and his willingness to draft a program consistent with community tastes.

**IN EARLY JUNE** public relations counsels and editors were meeting in Washington to draft a manual of procedure designed to help builders, dealers and realtors in small communities to join forces for effective National Home Week activity.

(Continued on page 59)

AUGUST, 1930



EASTGATE APARTMENTS

### DRIVE-IT "300" cuts fastening costs 50% on Big Boston Apartment Job!

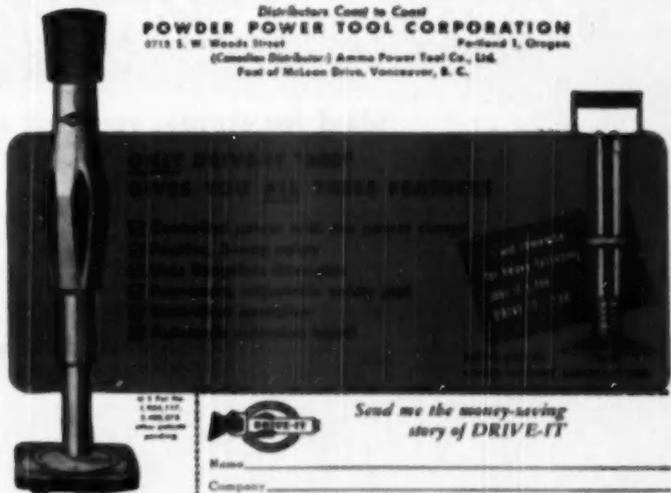
Over 9000 drive-pins were used at the Eastgate Apartments to fasten ceiling runner channels to concrete "at a saving of over 50%" writes the contractor.

Drive-It is one of the greatest cost-cutting tools ever invented. Hundreds of letters attest to the fact that steel or wood to concrete or steel fastening can be done with Drive-It at savings of 30% to 85% in man-hour costs!

Every architect, building engineer and contractor should investigate the DRIVE-IT system of fastening. It is Underwriter Laboratories approved for efficiency and holding power and engineered for super-safe operation.

Clip the coupon below and let us tell you how you, too, can save safely with DRIVE-IT!

Distributors Coast to Coast  
**POWDER POWER TOOL CORPORATION**  
8715 S. W. Woods Street Portland 1, Oregon  
(Canadian Distributor) Amma Power Tool Co., Ltd.  
Foot of McLean Drive, Vancouver, B. C.



DRIVE-IT "300"

Send me the money-saving  
story of DRIVE-IT

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

POWDER POWER TOOL CORPORATION, 8715 S. W. WOODS STREET, PORTLAND 1, OREGON

*Distinctive Corner Beauty*

**MILCOR\***

**No.10 Bull Nose**



*From the world's most complete Corner Bead line*

**Ideal for sturdy, rounded corners**

- ▶ Straight, true corners — 26-gauge galvanized sheet steel.
- ▶ Expansion wing — integral with nose of bead.
- ▶ Perfect plaster bond — provides strong plaster key and sturdy reinforcement.
- ▶ Small package for easy handling — boldly labeled for easy identification.

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

**INLAND STEEL PRODUCTS COMPANY**

Formerly Milcor Steel Company

**4025 WEST BURNHAM STREET • MILWAUKEE 1, WISCONSIN**

Baltimore 24, Md. • Buffalo 11, N. Y. • Chicago 9, Ill. • Cincinnati 22, Ohio  
Cleveland 14, Ohio • Detroit 2, Mich. • Kansas City 8, Mo. • Los Angeles 22, Calif.  
New York 22, N. Y. • Rochester 9, N. Y. • St. Louis 10, Mo. P-244



36 Sutton Place, New York. 700 aluminum windows manufactured by A.B.C. Steel Equipment Co. Owner: Peter Doegler, Inc. Architect: Bush & Rudd. General Contractor: Francis J. Kleban

## 700 ALUMINUM WINDOWS

*... that never will need painting*

For housing and commercial units that turn rental income into profits, be sure you include windows of Alcoa Aluminum. Then you'll know you have cut window maintenance costs to the bone.

Quality aluminum windows never need painting, can't shrink or swell; are easy to keep clean and attractive. Aluminum windows stay snug fitting and weathertight, can't rot or rust away. Strong, narrow

window members improve appearance, let in more light.

Aluminum windows, made by leading manufacturers are available for every type of building—residential, commercial and industrial. For information on any application of aluminum, call your nearby Alcoa Sales Office or write ALUMINUM COMPANY OF AMERICA, 1485H Gulf Building, Pittsburgh 19, Pennsylvania.

# ALCOA ALUMINUM



INGOT • SHEET & PLATE • SHAPES, ROLLED & EXTRUDED • WIRE • ROD • BAR • TUBING • PIPE • SAW, DIE & PERMANENT MOLD CASTINGS • FURTINGS • IMPURE EXTRUSIONS  
ELECTRICAL CONDUCTORS • SCREW MACHINING PRODUCTS • FABRICATED PRODUCTS • FASTENERS • FOIL • ALUMINUM PIGMENTS • MISCELLANEOUS PRODUCTS



# Builders!

## Get the "Specs" on the Duo-Therm gas floor furnaces!

They've got features that'll make you and your buyers warm friends.



**Revolutionary All-in-One Control.**  
All controls in a single, compact unit including automatic shut-off. Standard on all models. Another Duo-Therm first!



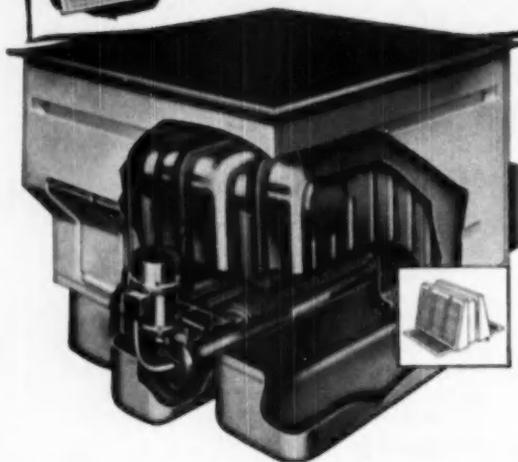
**Exclusive Comfort Selector—Now!**  
Eliminates on-and-off heating. A flip of the handy switch lets you adjust the low fire setting. A major improvement in thermostatic controls.



**Exclusive Equo-Therm Burner—burns all types of gas.** One piece burner, special tapered design for efficient uniform flame at all ports.



**Generous 10 Year Warranty.**



They're built with your problems in mind

- Shipped to you ready to install.
- So compact only one (six) need be cut on any installation.
- Priced so competitively you won't believe it.
- Choice of BTU inputs from 35,000 to 60,000.
- Choice of floor or dual-wall registers on all models.
- All models available with either thermostatic or manual control.
- Designed so most service jobs can be handled from above floor.
- Two series—4 models—shallow and standard, to fit any home.
- Waterproofed to meet regional FHA requirements.
- AGA approved.

### They're sold with a liberal Duo-Therm Builder Discount Plan

This entitles you to special single and quantity discounts to fit your needs.

Remember: This is more than another line of gas floor furnaces. *These are gas floor furnaces built to the performance standards of the leader in modern heating appliances.*

These are gas floor furnaces built to our high standard of quality—and incorporating the savings made possible by Duo-Therm precision mass production techniques.

For your most-for-your-money gas floor furnace investment, see your local Duo-Therm dealer or distributor. Or mail coupon below.

Over 1,500,000 Warmly Satisfied Customers

# DUO-THERM

*Always the Leader*

DUO-THERM is a registered trade mark of Motor Wheel Corp. © 1960

Duo-Therm Division, Motor Wheel Corporation, Dept. AB-8  
Lansing 3, Michigan

Send me *prints and without obligation* complete information on the Duo-Therm Gas Floor Furnace Builder Plan and all the specifications on the new line.

My name \_\_\_\_\_

Firm \_\_\_\_\_

Firm address \_\_\_\_\_

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

AMERICAN BUILDER

**EDITORS'**  
**Round Table**

(Continued from page 55)

**RETAIL LUMBER DEALERS** have for the past two years (the first National Home Week was in 1948) been prominently associated with the Week in the more than 100 major cities where great success has attended the observance. The aim of NRLDA this year is to extend the benefits of the Week to smaller communities.

**THE LUMBER YARD**, where there are no houses to be used for exhibit purposes, has the advantage of having in stock most of the important structural materials ordinarily used in home building. Lacking a new model house, the next best possibility is the yard with these materials on display, and with one or a series of dramatic demonstrations.

**THE MANUAL** under preparation in June, while probably too late in appearing to permit either a dealer or a builder in a small town to begin a full program with exhibit homes this year, was available in time to permit plans for effective work with the local lumber yard as the focal point for the community.

**AT THE END OF MAY**, 28 communities had turned down public housing by action of a city council or commission, and nine had turned it down by referendum vote. These figures do not include the entire state of California where a state-wide referendum refused public housing.

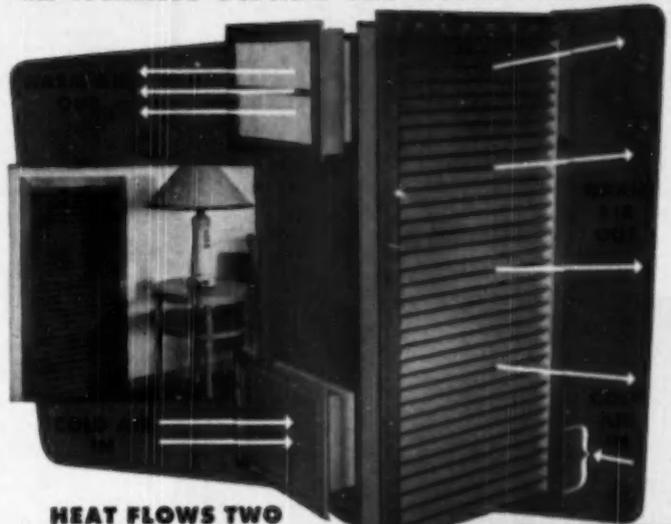
**BENJAMIN F. FAIRLESS**, president of United States Steel Corporation, recently delivered an address entitled, "Guilty Before Trial." It is a brilliant refutation of the attack made on American industry, in which industry was charged with failure to achieve permanent, full employment. It also scores government methods aimed at eliminating the weaknesses of private enterprise. The speech, published in pamphlet form, should be read by everyone in a position to inform any segment of the public about what is back of socialistic schemes and what these schemes cost.

**C.B. SWEET**, NRLDA president, is urging families who expect to add more bedrooms to their houses to seek open end mortgages.

AUGUST, 1950

# SEE THIS NEW FEATURE!

**in Winkler Oil and Gas Wall Furnaces**

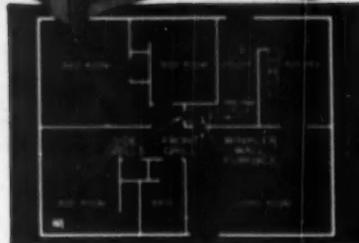


## HEAT FLOWS TWO WAYS AT ONCE!

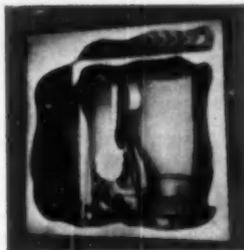
Another great Winkler improvement! Winkler Wall Furnaces circulate warm air in two directions—for more uniform heating, greater comfort. Both front and side grilles fit flush with wall—no space wasted. Smartly styled, handsomely finished. Small home heating at its best!

**A complete package of comfort, economy and convenience at amazingly low price!**

Radiant-air Dual Heating • Circulating fan for better heat distribution • Heat saving baffle • Quick and easy to install.



Note small space required for installation. Available in standard and other combinations, with smoke outlet left, right or rear, grills and oil valve right or left side.



## AUTOMATIC OIL-FIRED FLOOR FURNACES

A marvel of design for better heating at lower cost! Forced draft for more efficient operation, automatically adjusting itself to various firing rates. Large warm air circulating fan speed automatically adjusted to burning rate • Larger heating surface and flue passes • Thermostatic control • Chassis mounted, entire unit removes for complete access. Adaptable burning rate—30,000 to 60,000 BTU with No. 1 oil.

**WRITE!** Get the facts on how to sell more and profit more with Winkler fine automatic heating products.

# WINKLER WALL AND FLOOR FURNACES FOR THE SMALL HOME

## Designer solves heat loss problem with new Reflective KIMSUL\*



The fine new home of Mr. & Mrs. Melvin Stansberg, in Huntington, New York. Gustave R. Keane, designer.

Each day, as the facts and figures about new Reflective KIMSUL\* insulation become better known, more and more architects and builders specify it for residential construction. For in today's highly competitive market, maximum efficiency with *low true cost* is an absolute necessity.

New Reflective KIMSUL provides double-action resistance to heat loss, combining in a single highly efficient

unit the advantages of *regular* insulation and *reflective* insulation.

Reflective KIMSUL, too, gives you a vapor barrier that meets FHA requirements—greater strength and permanence in the non-sagging, non-settling stitched blanket—an 80% reduction in storage and handling costs with the smaller, lighter compressed package—new sturdy tacking flanges to cut the time and expense of installation. It

resists fire, vermin and mold—provides fuel savings up to 44%—keeps a home as much as 15° cooler on hottest summer days.

For complete information, see Sweet's Architectural and Builders Catalogs, or write to Kimberly-Clark Corporation, Neenah, Wisconsin.

**KIMBERLY-CLARK CORPORATION**

Neenah, Wisconsin

Now 2 types of KIMSUL insulation

— Regular and Reflective

(Red Roll)

(Gray Roll)



GUSTAVE R. KEANE

27 IRVING PLACE

HUNTINGTON, L. I., N. Y.

HUNTINGTON 18266

Kimberly-Clark Corporation  
Neenah, Wisconsin

March 4, 1938

Gentlemen:

The Stansberg home is heated by a radiant ceiling panel. In my opinion this is the most desirable of all heating systems, but it has seldom been used in residential construction. To solve this ideal heating system practical for medium-priced homes, a simple and economical way of preventing the heat loss was needed.

Reflective Kimsul was the solution. Two layers were used over the ceiling with dead air space between; the lower blanket with the aluminum foil cover facing down, the upper with foil facing up. As radiant heat leaves the bare pipe, it hits against the foil surface and is reflected back on the plaster from where it is finally radiated down into the room. The ceiling panel constantly radiates heat against the flooring, thereby warming it to almost the same temperature as itself. This was proved when the plaster was found to be drying from the floor up instead of from the ceiling down. And in summer, this sterile insulation system reverses itself to keep out the heat which would otherwise penetrate into the house from the roof.

Very truly yours,

*Gustave R. Keane*

Gustave R. Keane



The ceiling is finished with Armstrong's Temlok Insulation Board. These big boards go up fast over furring strips. One piece will cover the entire width of most rooms. False beams hide the joints and add contrasting decoration.



The walls are finished with 16" x 32" Temlok Tile. Tiles are nailed or stapled to furring in new work or can be cemented to old walls in remodeling. Temlok Plank is also ideal for walls, installed vertically or horizontally.

## Here's an answer to cost problems

With today's problems of cost, there's a big demand for dry-wall construction that's practical, economical, and decorative.

The room above shows how Armstrong's Temlok® can be used to create the good-looking interiors your customers want and still stay within their budgets. On the ceiling of this room, large panels of Temlok Insulation Board were used. Temlok Tile was used for the distinctive styling of the walls. The addition of some wood moldings and false beams provided the finishing touches that helped to make the job so attractive.

Armstrong's Temlok is not only low in first cost, it's also an inexpensive material to install. In addi-

tion it has a durable, two-coat paint finish that's ironed on for extra smoothness.

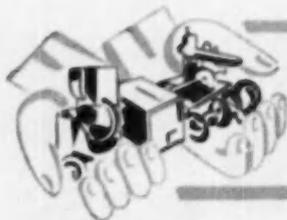
Where costs are a problem, Temlok may be the answer. Get full details from your Armstrong lumber dealer or write direct to Armstrong Cork Company, 1608 Ross Street, Lancaster, Pennsylvania.



### LOK-BEVEL JOINT

on Temlok Tile and Plank speeds installation, conceals staples or nail-heads, and allows for expansion and contraction.

# Armstrong's Temlok

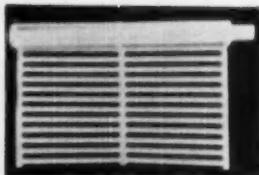


# NEW PRODUCTS

## Offered by Manufacturers

### ALUMINUM LATH ROLLS **ABB3011**

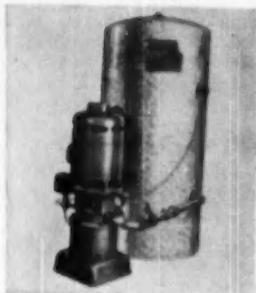
Alumath rolls are five feet wide and 50 feet long, consisting of aluminum laths spaced with openings ranging from 0 to two inches securely



riveted to stringers. Assembled rolls are complete, ready to roll out for use in constructing lath houses by simply nailing in place. Laths are for use over patios, porches and as awnings or in nurseries for sun control. Harry H. Reynolds, Dept. AB, 2541 Valencia St., Santa Ana, Calif.

### EJECTOR TYPE PUMP **ABB3014**

Myers series "HN" Ejector are furnished in 1½, 2 and 3 horsepower sizes for well lifts up to 300 feet. Flow of water is automatically divided in separation chamber so that water pumped by



lower impellers to nozzle is maintained at required pressure of 80 to 150 pounds. Impeller above separation chamber delivers water to greater lifts. Ideal for crooked wells since unit has no rods to wear out. Can be offset at any convenient location from well; no well pit required. For wells up to three inches in diameter. Equipped with single phase or three phase motor. F. E. Myers and Bros. Co., Dept. AB, Ashland, Ohio.

### AIR-ENTRAINING AGENT **ABB3007**

Protex air-entraining agent developed for ready-mix companies, block plants and concrete contractors is a liquid which, when added to concrete mixtures, entrains millions of non-microscopic, non-combining air bubbles. Air-entrainment reduces bleeding and segregation, improves plasticity, and facilitates vibration. Increased plasticity of concrete reduces breakage in block plants. Autolene Lubricants Co., Dept. AB, 1331 West Evans Ave., Denver 9, Colo.

### BATT INSULATION **ABB3028**

Rock wool batt 2½ inches thick of Seal-Foil insulation is backed with aluminum foil which stops 95 per cent of all radiant heat trans-



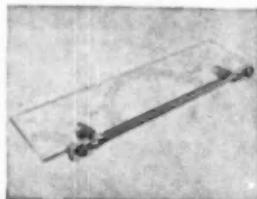
mission. Made in 14 and 24-inch widths, batts have flanged edges for easy installation. Batt is fireproof, moisture-proof, rat-proof and vermin-proof. Units are packaged in substantial cardboard cartons. Seal-Foil Insulation Manufacturing Corp., Dept. AB, Waukesha, Wis.

### BRICK SIDING CUTTER **ABB3035**

Unit cuts siding material up to ½ inch by feeding siding into blade as lever is worked, with three teeth on each side of blade. Blade is continuously oiled by impregnated felt pads. Mandrel is 25 inches long. Total weight, seven pounds. Blade is tempered spring steel. Unit held steady while in use by placing foot on plate that folds out from lower handle. Can be attached to table through holes provided on undercarriage. O. Pearson Manufacturing Co., Dept. AB, Lake Villa, Ill.

### DRAFTING INSTRUMENT **ABB3009**

Portable drafting instrument combines in one basic precision instrument the functions of T-square, straightedge, triangle, protractor, scale and parallel ruler. It is constructed of sturdy



transparent section with critical moving parts machined to .002 inch tolerance. The instrument, which measures 10½ by 3.3/16 inches over-all, is completely self-contained and requires no attachments or board clamps. It fits readily into pocket for field or drawing table use. Loomis Industries, Dept. AB, 516 Park Way, Piedmont, Calif.

### MASONRY SAW **ABB3002**

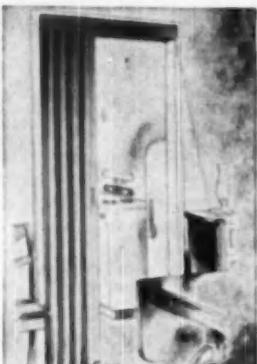
Clipper masonry saws have new "Save-A-Blade" dial that instantly adjusts blade-cutting pressure to conform to hardness of material being cut. Three adjustments for brick or tile,



concrete products, and glass and marble are provided. 1950 Clipper models also have "Select-A-Notch" adjustment for cutting head heights and "Adjust-A-Cut" control of cutting head angle. Patented stabilizer locks head for high speed, production work. Clipper Manufacturing Co., Dept. AB, Kansas City 8, Mo.

### FOLDING DOOR **ABB3017**

Plastic fabric-covered accordion-fold folding door has formed cornice which conceals top edge of closure and overhead track. Rust-re-



sistant frame has door handles at regular height. Folding door is manufactured in both stock and made-to-order sizes in wide choice of colors for use in homes, stores, offices and institutions. Melcomb and Hake Manufacturing Co., Inc., Dept. AB, 1345 Van Buren St., Indianapolis 7, Ind.

### GLAZING COMPOUND **ABB3001**

Nu-Glaze glazing compound is applied like putty, but will not harden, crack or peel because oils in it are retained. Recommended for glazing wood or metal sash, setting plumbing, filling cracks, boatwork, patching purposes. Macklenburg-Duncan Company, Dept. AB, Oklahoma City, Okla.

**85% of all prospective  
home owners want oak floors**



## **oak-starts the sale rolling**

"When I put my money into a house, I want to know it's going to move fast. Substitute materials, I find, slow down sales—accepted materials speed them up.

"So, the first thing I show a house prospect is the oak flooring.

"I do that because it's the right way to start a sale. Those oak floors just naturally put them in the right frame of mind to look at the rest of the house favorably.

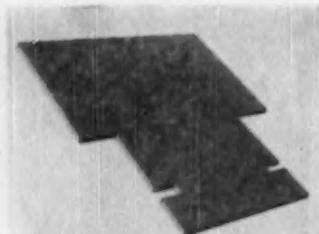
"That's because they wanted oak floors before they ever walked in. They're part of the 85% of all prospects who prefer oak floors over all others. So, it's no wonder I have oak in all my homes to start sales rolling."

Nothing helps  
sell a house  
faster than  
Good Oak Floors

**NATIONAL OAK FLOORING MANUFACTURERS'  
ASSOCIATION • Dept. 5-8, Sterick Bldg. • Memphis 3, Tenn.**

**LOCKING SHINGLE****ABB5004**

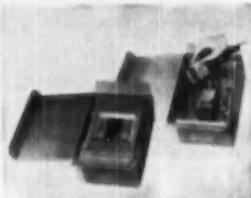
Ever-Fast locking roof shingle provides 100 per cent double coverage and 50 per cent triple coverage over roof area. Locking mechanism requires no metal clips since two slats on each



side of shingle slide under and over edge of adjoining shingle, locking it in four places. Lock provides for expansion and contraction from temperature changes. Two nails only are required for each shingle though pattern results in each shingle being nailed in four places. Square requires 111 shingles weighing 235 pounds. Ever-Fast shingle is made in both plain and weathergrain finishes. Barrett Division, Allied Chemical and Dye Corp., Dept. AB, 40 Baxter Street, New York 6, N.Y.

**MULTI-BREAKER LOAD CENTER** **ABB5033**

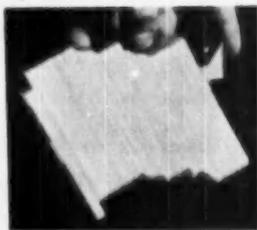
Type MO B multi-breaker load center is now packaged with new method to eliminate necessity of stocking variety of complete devices and



to simplify inventory and bookkeeping. Box and interior covers (10 to carton) and "Ad-On" breaker units (one per carton) are packaged separately. Required package for customer is assembled by removing filler of basic carton, adding "Ad-On" units and inserting cover in place of filler. Square D Company, Dept. AB, Detroit, Mich.

**CONTOUR COPY****ABB5012**

Contour copying device consists of blades with locking mechanism. Workman releases lock,



presses each blade against contour to be copied, then locks unit which holds contour for copying. Made of aluminum. Available in twelve sizes from 4 1/4 by 4 1/4 to 15 1/2 by 4 1/4 inches. The Celsa Company, Dept. AB, 555 Gateway Building, Minneapolis 1, Minn.

**New Products continued page 134**

**STEEL LINTEL****ABB5026**

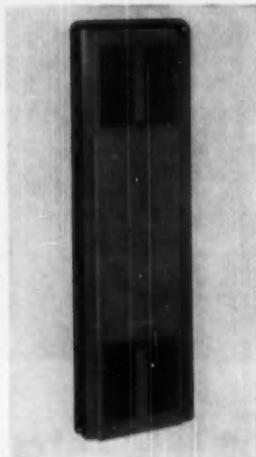
Formed steel lintels come in stock sizes of six-inch multiples and are corrugated for extra



strength. Lintel is made of nine and 11 gauge steel and is painted with baked-on special prime coat. Steelcraft Manufacturing Company, Dept. AB, Rosslyn, Ohio

**PANEL WALL FURNACE****ABB5016**

Panel gas wall furnaces are made in single-wall 25,000 B.T.U. model and dual-wall 50,000 B.T.U. unit with outer jacket 1 7/8 inches wide



and 6 3/4 inches high. Inner unit fits between studs, 16 inches on centers. A.G.A. approved unit is for use with natural, manufactured or liquid petroleum gas. Heat exchanger is suspended inside furnace. Outer jacket, finished in Hammerstone baked enamel, is rust color. Temco, Inc., Dept. AB, Nashville 9, Tenn.

**TABLE SAW****ABB5029**

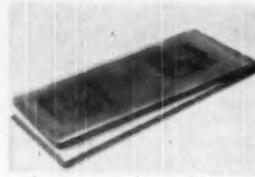
Floor model Kwik Saw of tilting arbor has 20 by 24-inch table and eight-inch saw blade. Features include cut-off stop, rip fence, angle



position lock, miter gauge, depth of cut control, angle set control, heavy-duty one-half h.p. capacitor type motor and heavy welded pressed steel stand. Cuts any angle up to 45 degrees. All moving parts turn in lubricated ball bearings. Emvick, Inc., Dept. AB, 1724 Clinton Ave., Kalamazoo, Mich.

**SEALED ROCK WOOL BLANKET** **ABB5022**

Gold Bond mat-thick sealed rock wool blanket is produced in 15-inch widths to fit standard spacing of studings, in eight foot lengths.



Widths of 19 and 23 inches and greater lengths are available on special order. Fireproof rock wool adheres to all four sides of specially treated paper enclosure which provides breather cover on three sides and vapor barrier on fourth side. Blanket has k factor of .27 and conductance of 0.18 and is lightweight. National Gypsum Company, Dept. AB, Buffalo 2, N.Y.

**INSERT NUMBERS AND MAIL COUPON FOR INFORMATION**

**American Builder, 79 W. Monroe Street, Chicago 3, Illinois**

Name .....

Address .....

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

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**

# NOW! ... Johns-Manville Super-Felt Insulations come in 3 types

—all made of the famous, firmly felted Johns-Manville Rock Wool



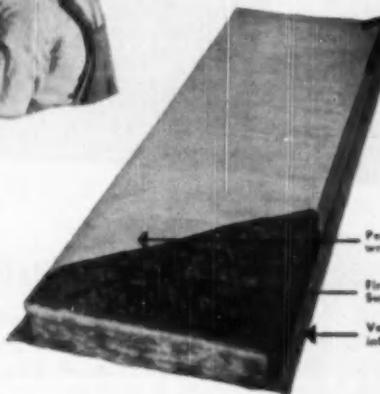
## Ful-Thik Batts

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



## Thick Batt Blankets

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



Permeable Kraft paper wrapping

Firmly felted J-M Super-Felt Rock Wool

Vapor-barrier with reinforced tacking flange

## Medium Roll Blankets

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

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



J-M Rock Wool Blankets are not available on the Pacific Coast.

And remember, J-M Home Insulation is easier to sell because  
**People think of Johns-Manville FIRST\***



\*For home insulation, the public preference for Johns-Manville is 40 to 1, according to nationwide public opinion surveys  
AUGUST, 1950

Quality  
THROUGH AND THROUGH



## For Those Who Expect a Lot for Their Money

You can't see all the quality features of Eljer Brass Fittings unless, of course, you subject them to various laboratory tests. But quality *is* there . . . and to such a degree that your clients, who are entitled to expect a lot for their money, will be more than satisfied.

The finest of materials . . . modern, efficient equipment and machinery . . . craftsmen highly skilled in their trades . . . all contribute to this high standard of quality established by Eljer. To you, this means

*It pays you, it pays us -*

dependability and service from the items you specify. So be sure to specify the best . . . specify Eljer Fittings . . . designed for Eljer Fixtures.

### A COMPLETE LINE

The fitting illustrated above . . . E-9430-B, C. P. Over-rim Bath Filler with Drop Sprout . . . is a popular item in Eljer's complete brass line. All moving parts are completely and easily renewable. For full descriptions of all Eljer Fittings ask your Eljer Distributor for a copy of Eljer's Brass Goods Catalog or write to Eljer Co., Ford City, Pa.



because we specialize in Plumbing Fixtures and Brass

# ELJER





# ASSOCIATIONS

## *Their Plans and Activities*



### **Membership Drive Adds 202 To Long Island Institute**

A 94 per cent increase in membership was recorded by the Long Island Home Builders Institute in the five months, Feb. 1 to July 1, it is reported by Leonard L. Frank, president, who "would not be surprised to see membership tripled by the time of the next NAHB convention."

Seventy-nine per cent of the membership gain was registered between May 15 and July 1 as a result of a contest among 16 four-man teams.

Starting the fiscal year Feb. 1 with 214 members, the Long Island affiliate of the NAHB added 43 builder and associate members through staff solicitation in the 14 weeks ending May 15. In the next seven weeks, with the contest under way, 159 new members were added, 37 of them being active builders. This brought total membership on July 1 to 416, of which 202 were signed since Feb. 1.

Scheduled to end July 31, the contest was organized like a baseball pennant race. Each builder member counted as 5 "runs"; a sustaining associate at \$500 annually, 10 "runs"; \$250 contributing

associate, 5; each \$100 special associate, 2, and a \$60 minimum associate as 1 "run."

A long list of cash and merchandise prizes were offered, chief of which was \$200 toward expenses of attending the annual NAHB convention next January for each contestant scoring 20 "runs." By scoring 10 additional runs with two new builder members, each winner of the trip to Chicago was allowed \$400 toward expenses of himself and wife or associate.

### **Dallas Association Gets Big Housing Center**

The offices of the Home Builders Association of Dallas have been moved to the Home Builders Auditorium, a 12,000 square-foot building where a housing center has been established. H. Leslie Hill, association president, said that a vigorous promotional campaign has been launched with a goal of attracting 5,000 visitors a month to exhibits in the center.

The auditorium was officially opened August 1 with 40 exhibits.

### **Roy Healy Named Milwaukee Executive Vice President**

The appointment of Roy F. Healy as executive vice president of the Milwaukee Builders Association has been announced by the association president, Elton A. Schultz.

Healy was formerly executive assistant of the Chicago Metropolitan Home Builders Association, which he joined in 1944. Prior to that he was secretary of the Sycamore, Ill., "Own Your Own Home Association."

While with the Chicago Association he was known as an authority on housing projects in the area. He helped organize and served as secretary for the Home Builders Association of Northern Indiana and the Home Builders Association of the Fox River Valley, two groups which are sub-chapters of the Chicago chapter, with a single membership providing affiliation with the local, the Chicago Metropolitan and the national.

The Milwaukee association is one of NAHB's largest and most active. In 1949 it enrolled 248 new members to take first prize in its bracket of the national membership contest.

### **'Step Up Sales' Clinics Held By Northwestern Iowa Dealer Groups**

The first "Step Up Sales" clinic sponsored by the Northwestern and Iowa Lumbermen's Associations and held recently in Sioux Falls, S.D., attracted more than 150 lumber and building material dealers from Iowa, Minnesota and South Dakota.

The program of one-day sales clinics replaces the district meetings formerly held each year throughout the territory. The clinics are conducted by William H. Badeaux, secretary of the two associations, and F. P. Longeway and R. H. Laird of the field staff.

Badeaux said that interest in the first clinic was not limited to newcomers in the business, attendance including a number of veteran dealers. One was 80-year old C. W. Derr of Mitchell, S.D., who said that he still had a lot to learn about the business.

The "Step Up Sales" plan covers eight topics: Customers' buying motives, opening the sale, telling your sales story, showing and demonstrating, outselling competition, overcoming objections, closing the sale, and planning for better results. Training aids include slide films, illustrated text booklets and test questionnaires.



IOWA, Minnesota and South Dakota dealers assemble for first "Step Up Sales" clinic

### **Past Presidents Club Organized in Detroit**

The recently-organized Past Presidents Club of the Builders Association of Metropolitan Detroit, whose membership is limited to persons who have headed the group in its 22-year history, has named S. J. Christie, association president from 1931 to 1934, club president. Other club officers are Harry J. Durbin, 1939 association president, vice president; Edmund Kuhlman, association president in 1937-38 and currently a member of the city plan commission, treasurer; and Frank A. Quinlan, 1935-36 association president, secretary.

Among the aims of the club is development of closer cooperation between components of the industry, particularly builders, bankers, lumber dealers and retail outlets. Another function is to make former leaders' experience and training available to the association as an organized advisory body. The club plans to meet monthly.

### **Woodwork Jobbers Meeting**

The ninth annual meeting of the Woodwork Jobbers Service Bureau will be held Sept. 11-16 at the Chalfonte-Haddon Hall Hotel, Atlantic City, N.J.



## Cy Sweet Says -

C. B. SWEET, President, National  
Retail Lumber Dealers Association

### AFTER THE CURRENT BOOM . . . A NEW MULTI-MILLION MARKET

A multi-million dollar plus market is awaiting the building material dealers of the country when the current building boom starts to taper off.

When we bear in mind that half of all our 44,000,000 homes are 30 years old or older, it is rather easy to visualize the tremendous market these older homes offer.

A great many people in this country believe we can't make our private enterprise system work. They do not question our ability to mass produce, but they do question our ability to solve the problem of mass distribution.

This is a challenge to our industry, for whether we continue to prosper will depend in large measure on how far the 78 per cent of the United States families, whose incomes are less than \$5,000 per year, can safely stretch their buying dollars. Installment credit has been the magic word that has helped fill the gap between our tremendous productive capacity and the purchasing power of our people. And it must continue to be if the wheels of industry are to be kept turning at top speed.

There is a relatively new type of installment credit that stretches the home-owner's dollar from three to six times as far as traditional consumer credit. It is the open-end mortgage which allows long-term amortization for remodeling and repairing instead of the now widely used short term FHA Title I type of loan. There is nothing very abstruse or complicated about the plan, it simply permits the mortgagor to re-borrow additional sums from his lending institution for the purpose of repair, remodeling or improvement of the structure covered by the mortgage. It does however, allow the borrower to make the desired improvements without over-extending himself on monthly payments.

If properly merchandised, this credit tool will serve as a strong economic bolster and as a trump card for the building material dealers in the struggle for the consumer's dollar. The open-end mortgage can be the means of providing the dealers with a considerable amount of plus business which might not be obtained in any other way and which may be sorely needed in the next year or so.

## Paid Attendance Hits Peak At Buffalo Home Show

Paid attendance at the 1950 home show of the Niagara Frontier Builders' Association, Buffalo, N.Y., was the largest in the history of the event, according to George F. Brunner, executive vice president. The total attendance was 85,000 and there were 200 exhibitors.



Buffalo "Apartment Home" of 1950

One of the most popular show exhibits was the "Apartment Home of 1950," so called because it was planned to combine for a small family the all around livability of a full-sized home with the conveniences of an apartment. Brunner reported that an actual count of 51,000 persons visited the home and that many thousands more were turned away or became discouraged because of the long waiting line.

Another feature was an 8,000 square foot exhibit titled the "Electric Living Room-up," at which appliance dealers and distributors were dressed in Western regalia and music was furnished by a three-piece cowboy band.

At the association booth a booklet, "1950 Homes on Parade," was distributed to the public. It contained pictures and plans of homes going up in the area, a map showing how to reach them, and names of all association members.

Innovations at the 1950 show included a greenhouse, a 35-foot cruiser, a small summer cottage, model homes built to scale and a concrete masonry home.

## 200 Visitors Attend Dallas Regional Builders Conference

More than 200 visiting home builders, including top NAHB officers, attended the recent Texas-Oklahoma regional conference at the Baker Hotel, Dallas.

Panel discussions included mortgage and construction finance, public relations and advertising, new housing legislation, land planning and house designing, economy housing and low rentals and public housing and slum clearance.

Among the national association guests who participated in the program were President Thomas P. Coogan, Miami; First Vice President W. P. Atkinson, Oklahoma City; Second Vice President Alan Brockbank, Salt Lake City; Executive Vice President Frank W. Corright, Washington, D.C.; Director David D. Bohannon, San Francisco; Franklin L. Burns, Denver, regional vice president for Colorado and Wyoming; and E. Earl

Colomb, New Orleans, regional vice president for Arkansas, Louisiana and Mississippi.

One of the meeting's social highlights was the "Home Builders Stompede" at Pappy's Showland night club which approximately 900 persons attended.

Members of the conference program committee were H. Leslie Hill, chairman; Vernon S. Smith, Avery Mays, E. P. Lamberth, Hub Hill and Edward Dickler.

## Junior Group Organized

Plans for organizing a junior association, composed of young men who are members of the Chicago Metropolitan Home Builders Association, are being made by a special committee representing the younger men.

The committee, appointed at a recent organization meeting, consists of Chairman Robert H. Wilson, Laurence Hollander, William Jones, William McCulloch, Brittain C. MacIsaac and Edward Sawyer.

## Plywood Promotion Mapped At Douglas Fir Meeting

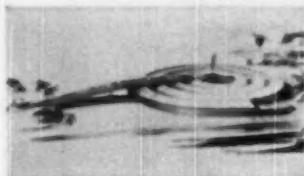
In the keynote address of the recent annual meeting of the Douglas Fir Plywood Association at Tacoma, Wash., Frost Snyder, who was re-elected president, emphasized that "continued hard-hitting advertising and plywood performance will maintain plywood's preferred status as America's busiest building material in the highly competitive years ahead."

Speaking of the future of the plywood industry, now producing a record volume of 45,000,000 feet of panels a week, Snyder said the manufacturers are now jointly spending one million dollars to develop new markets and uses.

Elected vice president of the group was Victor Olson of Olympia, Wash. Other officers are Charles M. Ducey, North Bend, Wash., secretary; J. P. Simpson, Tacoma, treasurer; and O. Harry Schrader, Tacoma, managing director.

## New-Type Exhibition Building to be NAREB Convention Feature

A new feature of the 43rd annual convention of the National Association of Real Estate Boards, scheduled for Miami Beach, Fla., Nov. 12-19, will be the first annual National Realtors' Exhibition. Henry G. Waltemade, New York, chairman of the convention and exhibition committee, said, in announcing convention plans, that approximately 6,000 realtors' representing the 45,000 NAREB membership, are expected to attend.



ARCHITECT'S drawing of the "Sporama," designed especially to house exhibits of NAREB's annual convention at Miami

Exhibits will be housed in a building called the "Sporama," a temporary structure especially built for the convention. The Sporama will consist of a continuing spiral of display booths beginning at the center of the building, entered at that point by a ramp constructed from the exterior to span the roof. The plan of the building provides for a steady flow of traffic, with exhibits arranged along the viewer's right. It was designed by Elmer J. Schrang, Milwaukee Realtor and a member of the American Institute of Architects.

Exhibits will cover the fields of building materials; apartment, home, and office equipment and maintenance; business machines and systems; mortgage loans; and insurance.

(Continued on page 229)

## 'Buckeye Builder' New Ohio Publication

A new magazine, the "Buckeye Builder," is now being published by the Ohio Home Builders Association as its official organ. Current circulation is about 5,000. A. H. Falace, managing editor and association executive secretary of the state group, has reported, with possibly twice that number expected by the end of the year.

The monthly magazine has a two-color cover and standard 7x10-inch printed pages. Other members of the staff are Paul E. Sterner, editor; Arthur H. Phillips, advertising manager; Paul O. Jones, publisher's representative; and Wilson L. Moon, business manager.

AUGUST, 1930

## Cortright's Column

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



### WAR AND THE BUILDING INDUSTRY

Every one in Washington is on edge about the Korean war. Whether it will fizzle out—drag along for months—or explode into a world conflict is anybody's guess.

In any event, it has awakened us to the necessity of making war plans during times of peace. Nothing is more unpalatable and unpopular than crying "Wolf, wolf!"—and preparing to shoot the wolf down if he does jump from the bushes unexpectedly.

That is just what the National Security Resources Board has been doing here in Washington for many months. Their budget and personnel have been inadequate. Their reception by both government and industry has been indifferent to say the least but, now that American boys are being killed every day in Korea, their job has moved to the number one position.

Not only has NSRB been making a careful study of the successes and failures of World War II in matters of civilian defense and war mobilization, but, anticipating an atomic war, they have sent men to Japan, England and Germany to learn how to take care of people in bombed-out areas.

This is where the housing industry comes in. One part of the job would be the construction of war housing for new war plants, shipyards and military installations, but in an all-out war, with American industrial centers and airports heavily bombed, the erection of temporary shelter and the patching up of damaged structures would constitute a staggering task.

Daily we are asked what will happen to home building if an all-out worldwide conflict started. Of course, no one can answer such questions as yet. It will depend upon how serious the situation is and what the thinking of the various government officials in power at such a time may be. In a recent issue of NAHB's Washington Letter, this reporter assumed the risk of guessing answers to the most generally asked questions, as follows:

#### 1. IN THE EVENT OF ALL-OUT WAR, WOULD CURRENT HOME CONSTRUCTION BE STOPPED?

No further construction could be started but housing well under way would probably be permitted to be completed on a minimum basis.

#### 2. WOULD MATERIALS AND MANPOWER BE ALLOCATED?

Materials would undoubtedly be allocated on a priority basis following the pattern of World War II.

#### 3. WHAT KIND OF HOUSING COULD BE BUILT?

Only minimum war housing under rigid governmental control for incoming war workers and military personnel.

#### 4. WOULD OCCUPANCY BE CONTROLLED?

Rigid restriction and occupancy controls would be instituted. There would be a minimum of requisition and maximum of conversion.

#### 5. WHAT ABOUT PREFAB AND MOBILE HOUSING?

Most careful study is now being given to the industry's facilities to construct housing in non-military areas for rapid shipment into areas where on-site building labor is in minimum supply or is needed for war purposes.

#### 6. IN THE EVENT OF BOMBING, WHAT TEMPORARY CARE WILL BE TAKEN OF VICTIMS?

This is NSRB's number one problem. Temporary sharing of all existing facilities would be required and elaborate provision made for temporary shelter of various kinds, including the mobile shelter of trailers, demountables, and even tent cities.

The above questions are, of course, being threshed out now in Washing-

(Continued on page 230)

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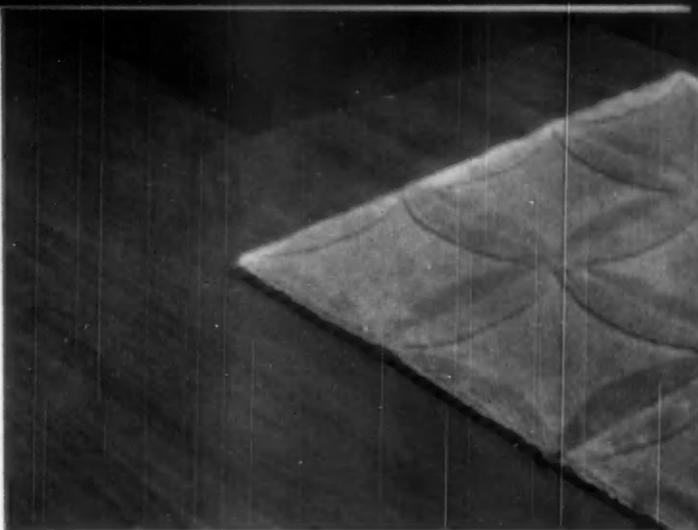
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## What Is Maximum Volume?

**A** QUESTION often asked since 1945 is "What is the capacity of the home building industry in new units a year?" Both guesses and estimates have been made, but there has been no sound basis for a statistical study. Now, in light of what has transpired since the first of this year, there is beginning to develop some evidence that might establish the answer to the question as a little in excess of one million, or possibly a little less than one million.

It will be remembered that 1949 saw a record of 1,019,000 starts. General opinion was that the figure was not industry's maximum capacity. It is well known, however, that the record was established at a sacrifice of an unknown volume of needed remodeling and major repair work. How many starts would have been made if builders had taken care of remodeling work can only be guessed at. On the other hand, an unmeasured quantity of both material and skilled labor was consumed on public works projects. It is possible that had these been sacrificed also, the home building total might have been larger.

Conceding, however, that a certain volume of public works construction and heavy industrial and commercial building has to be done to keep abreast of the needs of a million new home owners, home building at the end of the first five months of 1950 seems to have pegged its capacity at roughly 1,000,000 starts a year. Each of the first five months set a new record for starts compared with the same month in any other year. The result was serious dislocation by the middle of June. Excavators in many parts of the country were far behind their orders. Cement workers were unable to keep up with the demand for new foundations, and serious cement shortages were being reported. Carpenters, apparently geared for higher production, were being slowed, and short weeks were being worked.

Where weather broke right for two-shift excavation work, carpenters and bricklayers were being paid premium wages by builders who could afford to go above scale to keep high-grade workmen, and sub-standard workers were finding jobs. In New York plumbing

supplies were short, iron pipe was on allocation, and soil pipe was difficult to get. Of course, strikes in some of the major lumber mills and inclement weather in most of the lumber producing areas had created serious lumber shortages with accompanying sharp increases in prices. This condition might be said to be unusual, however, and to have no bearing on the capacity of the industry.

As 1950 started it appeared that the year would beat the record of 1949 by about 20 per cent. Viewing the dislocations that began to show up in June there is good reason to believe that neither skilled manpower nor materials production can be expanded as rapidly as 20 per cent in a few months without causing automatic slow-downs that peg the industry's maximum capacity at about the figure established last year. With this in mind the public housers' demand for 2,000,000 units a year seems even more ridiculous than it did four years ago. And it might be added that about all the current public housing program will do is slow down much needed private construction.

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# The Garage

## Part of the Home Today



AN effective use of stone is employed in garage wall which forms part of entrance forecourt. Stone is boldly terminated at door

**T**HE GARAGE, an essential component of modern living in the United States today, is being neglected in the current record production of new homes. In a preponderant percentage of the low priced houses it is eliminated altogether. When it is included, even in the high priced houses, there is frequently a lack of serious planning of the unit for the purposes it is to fulfill.

Actually, the garage in the modern home, especially where there is no basement, serves a multitude of purposes in addition to protecting the automobile from the weather and other possible sources of damage. Much improvement in the planning and erection of garages could be expected if they could be thought of as utility buildings for storing cars and other equipment required in the protection and maintenance of a modern home plus, even, certain recreational facilities.

In contrast to the apartment dweller, who has no maintenance problems either on his dwelling or his grounds, the home owner as a general

**If garages would be thought of as utility buildings for storing, at ground level, equipment required in the maintenance of a home and its grounds as well as for protecting the family car, improved garage plans would result**

rule must have some place to house, at ground level, his lawn and garden equipment plus a host of other items. A partial list includes such family appurtenances as lawn furniture, bicycles and outdoor toys, lawn roller, lawn hose, fertilizer, lawn mower, storm sash or screens, step ladder and in many instances an extension ladder, firewood where there are fireplaces, garden tools, toboggans, sleds, skis, assorted lumber for odd jobs, awnings, cans of paint, several types of shovels, plus all the odd items most automobile owners accumulate to wash and main-

tain the finish on the family car. Even the best housekeepers, men or women, find it virtually impossible to find adequate storage space for the above essentials on the premises of the average American single-family dwelling.

The logical, most convenient and most economical place to provide room for storing the appurtenances of home ownership is the garage. This is the most convenient providing there is a good one and that it is properly planned and well built.

Although no figures have been compiled on the subject, industry authorities agree that a large majority of the low-priced houses erected since the war do not have garages. Many originally erected and sold without garages, have since had them added by the purchasers. Guesses on the percentage of single-family houses less than five years old with garages vary all the way from 30 to 50 per cent. During the last quarter of 1949 the Bureau of Labor Statistics conducted surveys on housing characteristics in fifteen major cities. Ten of these reports were completed at the time this

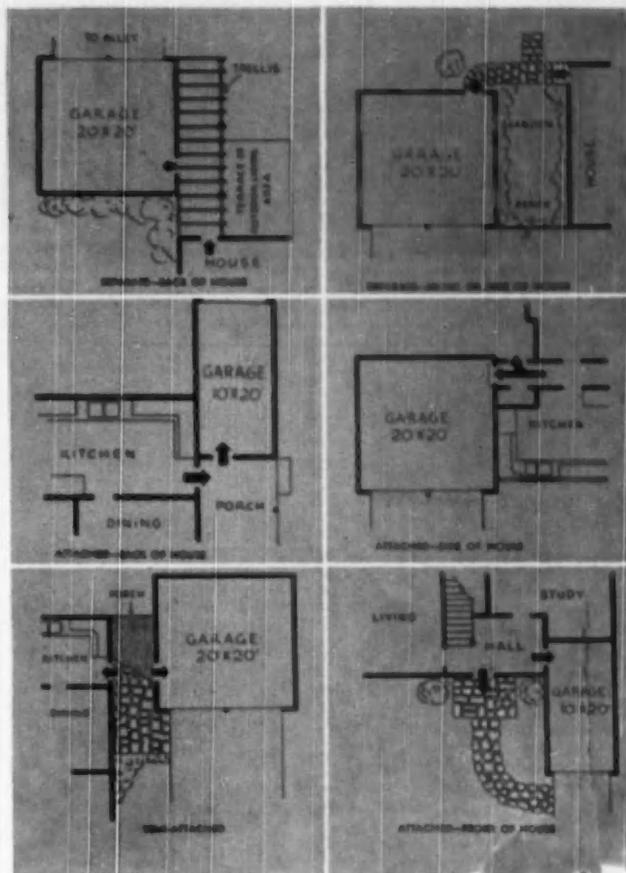
was written and show that in the ten major cities reported on, 53.3 per cent of the single-family houses in all price classes erected during the last quarter of 1949 had garages. The cities and the number of new single-family houses erected with garages during the last three months of last year are as follows:

|                     |             |
|---------------------|-------------|
| New York .....      | 37 per cent |
| Chicago .....       | 16 per cent |
| Los Angeles .....   | 86 per cent |
| San Francisco       |             |
| (one car) .....     | 78 per cent |
| (two car) .....     | 19 per cent |
| Philadelphia .....  | 67 per cent |
| Pittsburgh .....    | 89 per cent |
| Washington, D.C. .. | 8 per cent  |
| Dallas .....        | 36 per cent |
| Atlanta .....       | 36 per cent |
| Miami .....         | 59 per cent |

From this it is obvious that in overcoming the postwar housing shortage, the industry has created a garage shortage. There will be a good volume of single and double, attached and detached garages erected to take care of this demand alone in the next few years.

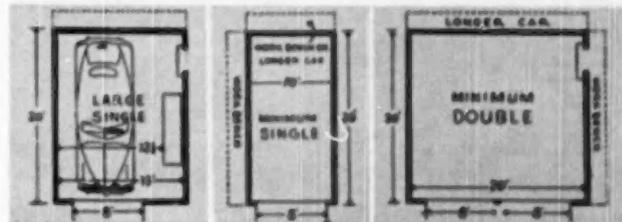
When the functions of a garage as a utility building for the home are kept in mind, the planning of that unit proceeds beyond its original, prime function of protecting the automobile. First of all, space for the car must be at least wide enough to permit car doors to be opened so individuals may get in and out comfortably when the car is in the garage. Ten feet is about the minimum width for this. It must be at least long enough so a person can get around the car with the garage door closed. That means at least six inches in front and about 18 inches clearance in the rear. With the exception of about three of the largest American passenger cars made, 20 feet is adequate for this. The ceiling or deck above the car should be at least seven feet six inches above the floor. These figures approximate the minimum requirements for housing the family car. FHA requirements in many areas specify minimum inside width of 9 feet 6 inches and length of 19 feet.

Size of the lot and location of the garage determine largely where additional space can be provided in the unit so it can properly fulfill its function as a utility building. If it must be single-car width then the extra space should be added lengthwise. Even though the family may never intend to have two cars, a double-car 20-foot wide unit is desirable where space permits. Variations in providing extra storage and recreational space in garages can take an infinite number of steps in different directions from these two standard setups.



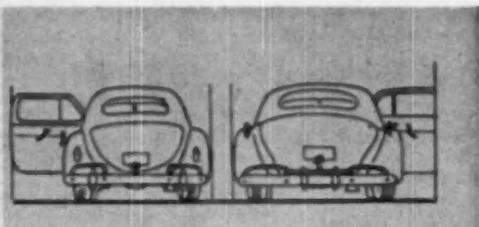
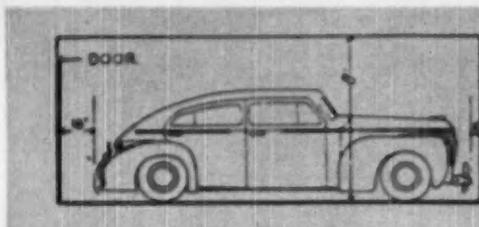
**IMPORTANCE** of the location of the garage on the home site should never be underestimated. Easy and preferably protected access to the basement or service portions of the house adds immeasurably to the full use of the garage as a utility building. The driveway should always be planned at the same time the garage is planned. Tricky turns, bad grades and obstructed views of danger spots are

drawings courtesy Fir Door Institute  
some of the results of poor driveway planning. A one-car driveway should be at least eight feet wide on straight stretches and 11 feet wide on the curves. Regardless of grade there should always be a level area at least 15 feet long in front of the garage to facilitate parking without the danger of the car moving because brakes are not set or because of tampering



A **LARGE** single garage should be at least 14 or 15 feet wide. This permits doors on both sides of the car to be opened comfortably and still allow about two feet for storage or a work bench along one side. The recommended minimum size for a single garage is 10x20 feet. If it must be

kept to this width and if storage space is desired, the extra area can in most cases, be added in the length of the narrow structure. The recommended minimum size for a double garage is 20x20 feet. With two cars this leaves an inadequate amount of storage space but ample room for the cars

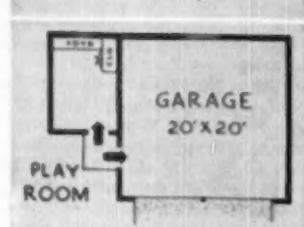
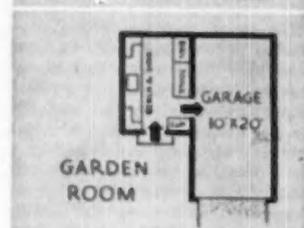
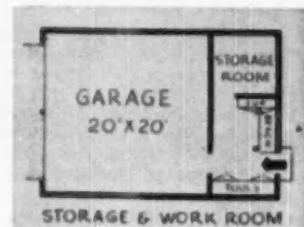


**IN PLANNING** for space to be occupied by the automobile in a garage where space is also allocated to storage of tools, toys and equipment, these diagrams illustrate the points on the car to be measured. In figuring length, allow at least six inches in front of the car and 18 inches at the rear. A clear ceiling 7 feet

and 6 inches in height is adequate. The diagrams above show a medium-sized and a large car with one door on each completely open. The width should permit cars to open fully without banging the garage wall, a work bench, bicycles or other stored items. If a work bench is desired, 2 feet is about minimum width

| Make and Model      | Shipping Weight<br>(Pounds) | Wheelbase<br>(Inches) | Overall Length<br>Including Bumpers<br>(Inches) | Width<br>(Inches) | Height<br>(Inches) | Roof Clearance<br>Three Inches<br>Above (Inches) | Roof Clearance<br>From Ceiling<br>(Inches) |
|---------------------|-----------------------------|-----------------------|---|-------------------|--------------------|--|--|
| Buick 40            | 3710                        | 121 1/2               | 204   | 79 2/5            | 63 9/10            | 7 3/4  | 6 13/16                                    |
| Buick 50            | 3870                        | 125 1/2               | 208   | 80                | 63 9/10            | 7 3/4  | 6 13/16                                    |
| Buick 70            | 4220                        | 130 1/4               | 212 4/5   | 80                | 64 2/5             | 8 1/4  | 7 9/32                                     |
| Cadillac 61         | 3870                        | 122                   | 211 7/8   | 80 1/8            | 62                 | 8 3/4  | 8 3/4                                      |
| Cadillac 62         | 4010                        | 126                   | 215 7/8   | 80 1/8            | 62 11/16           | 8 3/4  | 8 3/4                                      |
| Cadillac 60         | 4150                        | 130                   | 224 7/8   | 80 1/8            | 62 11/16           | 8 3/4  | 8 3/4                                      |
| Cadillac 75         | 4460                        | 146 3/4               | 236 5/8   | 80 1/8            | 64 1/10            | 8 4/8  | 8 4/8                                      |
| Chevrolet Skyline   | 3075                        | 115                   | 197   | 74                | 65 7/8             | 7 13/16  | 8 1/16                                     |
| Chevrolet Fleetline | 3085                        | 115                   | 197   | 74                | 65 3/16            | 7 13/16  | 8 1/16                                     |
| Chrysler C-48       | 3655                        | 123 1/2               | 207 5/8   | 65 5/8            | 62                 | 8 3/8  | 9  |
| Chrysler C-49       | 4170                        | 131 1/2               | 212 5/8   | 76                | 62                 | 8 5/8  | 9 1/2                                      |
| Chrysler C-52       | 5235                        | 145 1/2               | 230 1/4   | 81                | 62                 | 9  | 10 5/8                                     |
| Crosley CB          | 1363                        | 80                    | 148 1/4   | 50                | 57                 | 6 1/2  | 6 1/2                                      |
| Crosley Hotshot     | 1095                        | 85                    | 137   | 51                | 51                 | 6 1/2  | 9  |
| De Soto S-14        | 3520                        | 123 1/2               | 207   | 74 1/8            | 62                 | 8 1/4  | 9  |
| Dodge D33           | 3200                        | 115                   | 196 1/4   | 73                | 62                 | 8  | 9 1/4                                      |
| Dodge D34           | 3295                        | 133 1/2               | 202 7/8   | 74 3/8            | 62                 | 8 1/8  | 9 1/4                                      |
| Ford 8 OSA          | 3048                        | 114                   | 196 7/10  | 73.8              | 64 7/10            | 8 1/5  | 7 9/10                                     |
| Ford 8 OBA          | 3083                        | 114                   | 196 7/10  | 73.8              | 64 7/10            | 8 1/5  | 7 9/10                                     |
| 1951 Frezer         | 3535                        | 123 1/2               | 211 3/8   | 73 7/8            | 64 1/2             | 8 1/4  | 9 1/4                                      |
| Hudson 300          | 3510                        | 119 7/8               | 201 1/2   | 77 1/16           | 60 3/8             | 8  | 8  |
| Hudson 301          | 3590                        | 124                   | 208 3/16  | 77 31/32          | 60 3/8             | 8 1/8  | 8  |
| Hudson 302          | 3655                        | 124                   | 208 3/16  | 77 31/32          | 60 3/8             | 8 1/8  | 8  |
| Hudson 303          | 3605                        | 124                   | 208 3/16  | 77 31/32          | 60 3/8             | 8 1/8  | 8  |
| Hudson 304          | 3675                        | 124                   | 208 3/16  | 77 31/32          | 60 3/8             | 8 1/8  | 8  |
| 1951 Kaiser         | 3125                        | 118 1/2               | 208 1/4   | 74                | 60 1/4             | 8 1/4  | 9 1/4                                      |
| Lincoln             | 3988                        | 121                   | 212   | 76 1/2            | 63 1/10            | 7 2/5  | 8 7/10                                     |
| Lincoln Cosmo       | 4293                        | 125                   | 220 1/2   | 77 4/5            | 64 1/5             | 7 1/2  | 8 7/10                                     |
| Mercury V-8 OCM     | 3387                        | 118                   | 206 8/10  | 76 1/2            | 64 8/10            | 6 4/5  | 8 1/10                                     |
| Nash Rambler        | 2430                        | 100                   | 175 7/8   | 74 1/2            | 59 3/4             | 8  | 8 1/2                                      |
| Nash Stripliner     | 2950                        | 112                   | 201   | 77 1/2            | 63                 | 7 3/4  | 7 1/4                                      |
| Nash Amb. 6         | 3285                        | 121                   | 210   | 77 1/2            | 63 1/2             | 8  | 7 1/2                                      |
| Oldsmobile 76       | 3351                        | 119 1/2               | 202   | 75 3/16           | 62 7/16            | 8 1/8  | 8 1/8                                      |
| Oldsmobile 88       | 3531                        | 119 1/2               | 202   | 75 3/16           | 63 19/32           | 8 1/8  | 8 9/32                                     |
| Oldsmobile 98       | 3750                        | 125                   | 213   | 78 3/4            | 63 27/32           | 8 1/8  | 8 11/16                                    |
| Packard             |                             |                       |   |                   |                    |  |  |
| 8 & 8 Dlx 8 3201-11 | 2850                        | 120                   | 204 11/16                                       | 77 15/32          | 64 1/16            | 8 13/32  | 7 1/2                                      |
| Super 8 3202-32     | 2970                        | 127                   | 211 11/16                                       | 77 15/32          | 64 1/16            | 8 13/32  | 7 1/2                                      |
| Custom 8 3206-33    | 4270                        | 127                   | 213 1/4   | 77 15/32          | 64 3/32            | 8 3/16   | 7 15/16                                    |
| Plymouth P 19       | 2951                        | 111                   | 186 1/2   | 72 7/8            | 62                 | 7 1/2  | 9  |
| Plymouth P 30       | 3059                        | 118 1/2               | 192 5/8   | 73 5/8            | 62                 | 8  | 9 1/4                                      |
| Pontiac 25          | 3275                        | 120                   | 202 1/2   | 75 11/16          | 63 1/4             | 7 11/16  | 8 1/8                                      |
| Pontiac 37          | 3360                        | 120                   | 202 1/2   | 75 11/16          | 63 1/4             | 8 1/8  | 8 11/16                                    |
| Studebaker          |                             |                       |   |                   |                    |  |  |
| Champion 90         | 2750                        | 113                   | 197 1/4   | 69 7/8            | 61 1/2             | 8  | 8 1/4                                      |
| Commander 17A       | 3255                        | 120                   | 207 7/8   | 69 9/16           | 62 1/4             | 8 3/16   | 8 9/16                                     |
| Willys—Q, 4725W     | 2758                        | 104                   | 175 3/4   | 68 13/16          | 72 11/16           | 8 3/8  | 9 27/32                                    |
| Willys—Q, 4725W     | 2845                        | 104                   | 175 3/4   | 68 13/16          | 72 11/16           | 8 3/8  | 9 27/32                                    |

The Urban Land Institute in its "Community Builders Handbook" says: "It is recommended that storage space be provided in garages even where houses contain basements. Provision of storage space in the garage for tools, garden furniture, and similar articles is desirable. For single car garages, it has been found feasible to add five to six feet to the length of the garage for this purpose. This is preferable to widening the garage as this may require a greater lot width."



Drawings courtesy Fir Door Institute

**THREE** suggestions for providing extra space to help the garage fulfill its function as a utility building. In the interest of neatness, it is advisable to set up partitions or install cabinets to close off storage areas which frequently become cluttered

### Attached Garages Preferred

Studies of home buyer reactions indicate a strong preference for the attached garage. Regarding this, the Urban Land Institute says: "In general . . . the attached type is recommended. Although construction costs may be somewhat greater, offsetting savings may be effected in shorter driveways, integral construction, and width of lot permitted by the attached garage. The attached garage with direct access to the street is preferred to one placed on the side or rear due to the great amount of paving required to maneuver a car in getting in and

**AN example of traditional design in which the garage, though given prominence, is subordinated in its relation to the house by placing this feature at the low end of the sloping terrain of building site. Splayed corners of door opening add interest**



out. Garages in the rear yard detract greatly from the yard's use for garden and outdoor living."

Where the garage can be located, however, depends on a number of factors including the climate, size and topography of the lot, local codes, traffic on the street, size and style of the house to be built, parking space required for the home owner's and his guests' cars. Regardless of where it is located there are some fundamentals in planning, which, if not observed, will cause unending extra work and dissatisfaction for the home owner.

**A WELL designed garage and porch that blends in character with the excellent detail of the house. Space is provided under the roof area for rooms or storage. Roof overhang provides shelter for door in bad weather**



Easy and preferably protected access to the basement, kitchen and service portions of the house is paramount. There is such a preponderance of cash and carry shopping in modern living that the housewife as well as her husband will always appreciate a short trip with the purchases from the garage to the basement or kitchen. This is true whether the garage is attached or detached.

Since modern living calls for the use of the garage as a utility building, it is equally important that traffic between the garage and the rear yard be

**A TYPICAL type of detached garage, adaptable in areas where a more generous use of site frontage is available. In the case above, entrance is obtained by means of a paved forecourt. If an alley is provided at rear, entrance doors can be reversed**





A large group of ingenious manufacturers, fully recognizing the problems of garage closures, have developed a host of excellent doors to meet an infinite variety of problems and tastes. There should be no valid reason why any modern garage door should not operate as easily as the front door of the home, and look just as attractive.

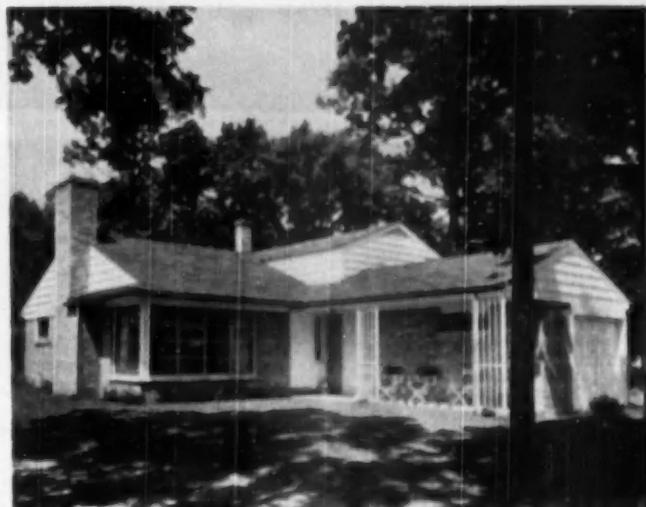
There are about six major types of garage doors on the market in a wide range of prices. These can be roughly classified as the roll-up or sectional door; the swing-up or panel type; sliding door; hinged doors; accordion doors and the two-section upward-folding door. Upward-acting doors of one type or another are far in the lead in popularity with builders and home purchasers.

Prime consideration in planning any garage for the installation of an upward-acting door is provision for head room for the type of door to be installed. There are doors available to take care of all kinds of head room situations, with a number on the market which require no head room, a maximum of two or three inches, on up the scale to others which require 15 to 16 inches. Stock sizes range from the smallest listed, which is 8 feet wide by 6 feet 6 inches high, on up to the large full double garage width of 14, 15 and 16 feet. There are sectional roll-up doors available with removable center posts. Thus two or more doors can be installed to close a large opening and if found desirable, the center posts between the doors can be raised up and taken out of the way to provide a clear opening of any width structurally sound.

The most meticulous designing, research and manufacturing techniques on garage doors and hardware are of no avail, however, if the units are not installed on the job properly. They are all made to function smoothly with minimum effort and maintenance, but



**GARAGE** becomes part of an extended wing of house. Design of doors follows the pattern of wall surface by introducing vertical buttresses in some manner as wall. Projecting bay on end wall lined with horizontal siding introduces an interesting contrast



**HOUSE** design is enhanced by attached garage and entrance porch wing that extends along one entire wall. Off-center position of doors is balanced by the open porch on opposite end. This house indicates the design potentialities contained in an attached garage when it is made an integral part of the basic structure, thus reducing the over-all costs



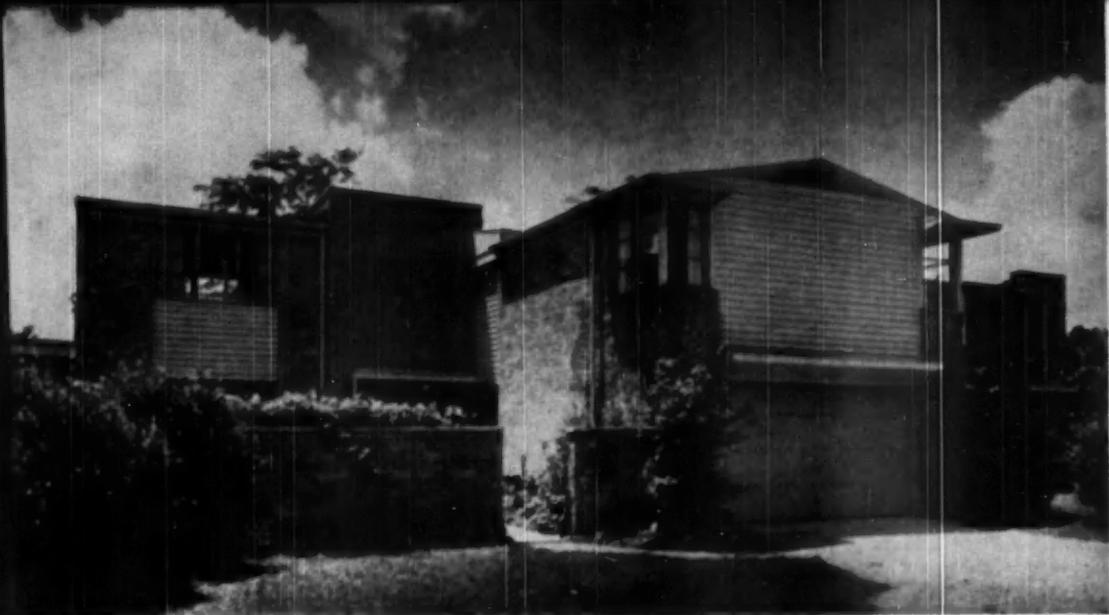
Drawings courtesy Fir Door Institute

**WITH** the large number of basementless houses being erected currently, space in

the garage structure for a workshop adds much to its all-around utility functions

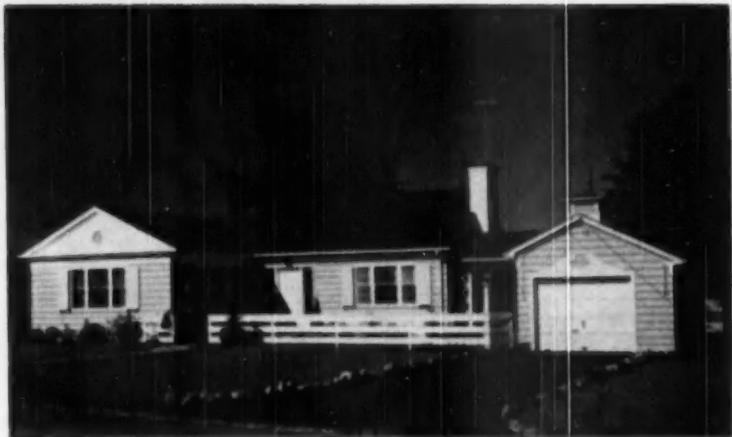
faulty installation in too many cases, leaves the home builder, his designer and the occupant of the house with an ever-recurring headache over the vagaries of a stubborn garage door.

The builder and his workmen should never underestimate the importance of following, rigidly, the manufacturer's directions on garage door and hardware installation particularly on all upward-acting types. This is no place to cut corners on material or time. A decision on the particular manufacturer's door to be installed should be made before the rough opening is framed so that the opening can be made to exact dimensions required for the finished job, and also, so the recommended headers and jamb fram-

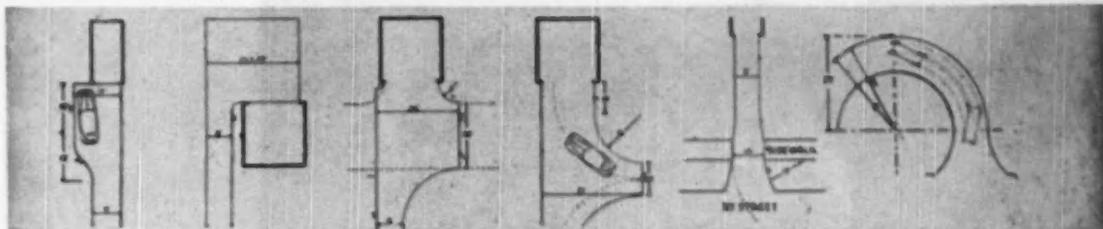


**MODERN** application of the garage to a two-story wing. The horizontal divisions in the door are in keeping with the horizontal siding on wall above. Canopy over door provides protection from weather

**THE DETACHED** garage of this one-story ranch type house, designed in the traditional manner, is made a part of the over-all arrangement by a connecting breezeway. The garage doors are placed off-center of front wall to provide for work bench on side wall. Roof ridge is centered on door, thus extending the roof line on one side and purposely establishing a lower eave line



**THIS** position of the eave line in the design of the garage is flexible, as indicated in the house shown at left. It gives an informal appearance to this part of the house. Windows are effectively placed in the street wall of garage, with fieldstone and stained shingles used for the exterior



Drawings courtesy Fir Door Institute

THE first four designs above suggest various types of parking areas and turn-arounds that can be incorporated as part

of the garage driveway where they are necessary or desirable. Where these large areas are concrete they are also ideal for children's play or game courts. Dimensions shown are minimum. Where the

driveway crosses the street curb, it must be flared at a three to five-foot radius. The smallest outside radius to a circular turn-around or curved driveway is 20 feet and the smallest inside radius is 10 feet



CROSS-SECTION of a thick-edge slab, reinforced to form foundation and floor of garage

ing members can be incorporated as a definite part of the garage structure to assure that it will be permanently rigid and plumb. The garage floor should always be level with the width of the door and the opening must be square, adequate space must be allowed on each side of the jamb interior for installation of the hardware, usually three to four inches.

Hardware for garage doors of many types is available to builders who wish to fabricate their doors adjacent to the site of construction. Here, again, it is paramount that manufacturers' directions be followed so that the hardware will not be overloaded or put to some use for which it was not designed.

The remodeling and renovation of old garages with the installation of new doors of the upward-acting type as well as replacement of other types with new doors and hardware offer a tremendous potential market for

labor and materials. A number of manufacturers offer hardware which can be used to convert swinging or accordion-type garage doors to the upward-acting type. Whether the old doors are converted or a new upward-acting type of door installed, it is essential that the old garage structure be properly leveled, plumbed and reinforced, especially around the large door opening, so that the new door will work satisfactorily. Good builders and dealers will find no short cuts here if they are to maintain a satisfied clientele.

Following in the steps of the increasing popularity of upward-acting garage doors is the development of automatic garage door operators. Progressive manufacturers are bringing the fascinating magic of remote electrical control and sound vibration activation to the level of use by the home owner at prices that are making it



AUTOMOBILE bumpers and tail pipes scrape the driveway unless careful calculation is made on grade variations. A change of not more than one inch per foot within any 10 feet of distance will usually allow adequate clearance

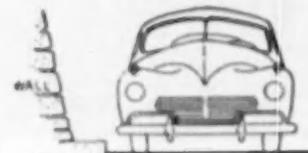


Photo courtesy Urban Land Institute

IF THERE is a retaining wall parallel with the driveway, it is desirable to install a low curb at the base to guide automobile wheels so leaders will not scrape the wall more and more practical to install these units. Their desirability and convenience to the home owner stem from the fact that the garage door can be opened or closed by merely pushing a button on the instrument panel or floor of the car. With garages fronting on



WHERE building codes permit garages are effective when allowed to project beyond the front wall of house. House and garage are of concrete block with flat deck over garage



Drawings courtesy Southern Pine Association  
A POSTWAR model automobile's bumper and tail pipe scrapes pavement entering private driveway in a 15-year-old subdivision. This can be avoided by following recommendations on grade variation included on these pages



TO HAVE the garage wing conform in outward appearance to the bedroom wing on opposite side of main facade, the surface of the garage door is designed to harmonize by applying horizontal siding to the surface and cutting a window into the door to resemble a wall. Use is made of the same materials for facing the opposite end of front wall

the streets and being used more extensively as utility and storage structures, the need for keeping the door closed at all times is obvious. It not only obviates the danger of theft but also closes off from public view whatever weaknesses the home owner may have as a neat housekeeper where the garage is concerned. Because houses are designed to look their best with the garage doors closed, it is desirable that they be closed most of the time, whether the garage is attached or detached. These operators also switch

lights on and off in the garage or outside and at other points in the house when desired.

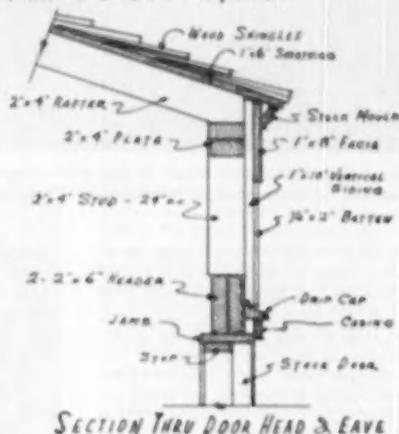
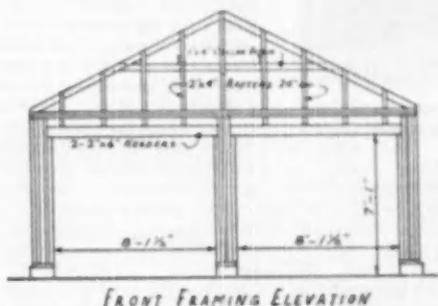
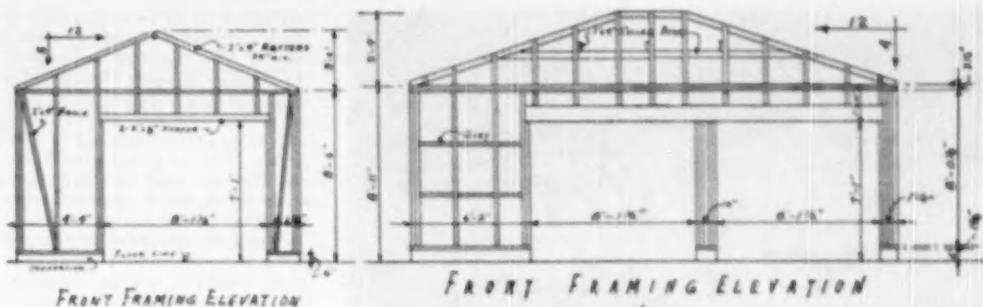
Industry surveys indicate that less than one per cent of the existing garages have automatic door operators. There are several different models, but basically they consist of a simple sending unit mounted in the owner's car with an individual wave length set to activate the door operator mounted in his garage. His car unit will not open any other doors and no other owner of an automatic set of his

type can open his door. These units make contact with a coil imbedded in the driveway or directly with the operating mechanism. There are units that activate the door operators with inaudible sound vibrations and function in the standard manner. Electrical switches inside the garage can be used to open or close the door and, should electric power fail, the door can be opened manually.

Automatic door operators are no longer experimental gadgets. Some manufacturers have been in the busi-

AN EXAMPLE of garage and breezeway extended from main body of house. The architectural lines of the house and garage are simple and effective. Good use is made of color contrasts on the wall and trim of both units without either one appearing garish. The extended type of garage as shown at right, must be confined to a one-car unit to prevent garage from becoming excessively dominant





SEVERAL examples of garage framing showing practices which conform to common situations. Where there are storage rooms or living quarters above the garage, framing of course, is done to accommodate the extra loads. Exterior garage architecture and finish should closely match the house even though the garage is detached

ness, doing research and producing units for more than 40 years. True, the mechanism is complicated and their manufacture requires highly skilled techniques but when the proper unit is selected for the job it is to do, and installation is strictly according to the manufacturer's specifications, these additions to the plus conveniences of home ownership can be pleasurable and immeasurably valuable time-saving devices.

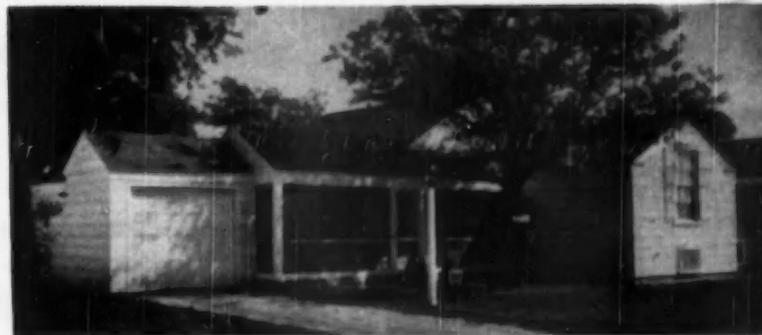
The pleasure and satisfaction of designing and erecting a modern garage with all the conveniences can be marred soon, however, if it is not set on a good foundation and is not easily accessible with the automobile. Footings and foundations should always be put down according to local code requirements and climatic needs. Recommended floor for the modern garage is concrete, with the slab at least four inches in thickness and equipped with a drain if at all possible. If the slab is not reinforced the bed under the slab should be gravel, cinders or crushed rock to a minimum thickness of four inches. Earth under the slab should of course be leveled and tamped. The slab should extend at least two feet in front of the garage

door opening to form an apron, sloped to the driveway. An expansion joint should be provided at the garage apron between it and the driveway.

There are variations in the design and methods of laying garage floor slabs, depending on the locality and climate. A popular and satisfactory floor, incorporating foundation and slab in one unit, is the thick-edge reinforced slab. These are 18 to 24 inches

thick at the outside edges with the underside arched to a minimum thickness of four inches at the center.

The driveway should always be planned at the same time the garage is planned. Tricky turns, bad grades and obstructed views of danger spots are some of the results of poor driveway planning. A one-car driveway should be at least eight feet wide on straight stretches and at least 11 feet



A TYPE of garage design that is often used on the less expensive homes. The short pitch of the roof at front wall conforms to house roof. The balance of garage roof is left flat



The two-car "OVERHEAD DOOR" of flush wood construction, gives a wide, unobstructed opening. The door is equipped with the model "H" electric operator with radio type control

wide on curves. If it is a two-car driveway, minimum width is 15 feet and 16 to 17 feet is preferable. If the driveway is sloped there should be a level area at least 15 feet long in front of the garage to facilitate stopping the car and to minimize the possibility of the car rolling with poorly set brakes or because the brakes are not set. Where there are curves in the driveway it is well to remember that with modern model automobiles, the smallest outside radius for a curve is 29 feet and the smallest inside radius 18 feet. If there is room to do it, it is always well to increase both radii, at the same time keeping the driveway at a minimum width of 11 feet on the curves.

Whether the new rolled curbs or the conventional straight curbs are used, it is recommended that curb returns at the roadway be three to five feet in

radius. With a 26-foot street, this will permit a car to enter or leave the driveway without being obstructed by another car parked at the opposite curb.

Sharp dips or sudden changes in grade on driveways are common faults to be particularly avoided because of the long overhangs and low ground clearances on most new model passenger cars. Entrances to driveways and the driveways themselves should be designed to accommodate all common makes of cars with long rear overhang and low bumper or tailpipe clearance. Rear, overhangs run as high as 4 $\frac{1}{2}$  to 5 feet and about six inches clearance for the tail pipe is usually accurate. Considering these factors along with possibilities of overloading and spring action, a change of driveway grade not more than one inch per

foot within any 10 feet of distance will allow adequate clearance for practically all American-made automobiles. No driveway should be absolutely flat but should slope slightly from the center toward each side, or from both sides to the center, depending on conditions. This is to permit good drainage. The usual slope for this purpose is one-fourth inch to each foot from the high point to the low point. Obviously no garage should be set on grade so that water drains toward it and remains around it to form miniature lakes or ice ponds.

In areas where there is a great deal of ice and snow during winter months, engineers and manufacturers have developed heating systems which keep concrete driveways warm enough to eliminate ice and snow as it develops. This type of convenience is especially important and serviceable where driveways have steep grades and complicated turns. For all home owners in cold climates, however, a heated driveway can assure easy access or exit to or from the garage in all weather, without the customary laborious snow shoveling or expense of having it removed.

Only a few years ago considering the garage as part of the house would have been thought as ridiculous as placing the old-time stable in the same location. Now that it has become so definite a part of modern living its design and construction merit the same attention as the house. Where the garage is attached to and a part of the house, obviously its design, construction and finish treatment must blend with and match that of the house. This also holds true when the garage is detached, with the exception of framing and foundation. Some builders and home owners cut corners on garage erection costs by using ex-



CONTEMPORARY design is given full play by the designer in house and garage shown at left. Large forward sloping window at front of side wall of garage together with brick flower box, serves as an architectural feature to highlight this end of house

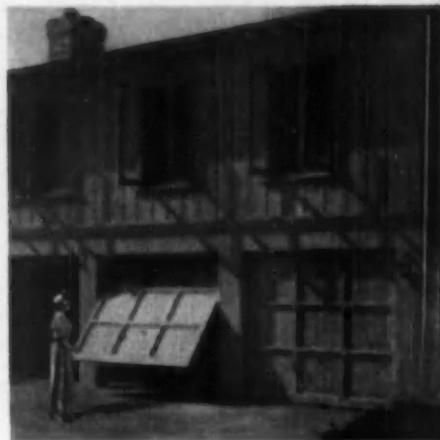
**IN AREAS** where zoning laws permit, a great convenience may be established for tenants by erecting apartments over ground floor garages as indicated at right. These doors were built on the job and equipped with factory-made hardware

Photo courtesy Frantz Mfg. Co.

terior finishes which are different from those on the house. Such a move should always be made reluctantly. The esthetic as well as the monetary value of property is enhanced when the garage matches and blends with the home.

All garages which are attached to or part of a house should be separated from the house with a firewall and fire-resistant access doors which conform to local codes and insurance underwriter specifications. If the house heating unit is installed in the garage, it should always be set apart with a

appearance, blending with the house, its landscaping and architecture. Visitors and guests commonly park their cars in the home owner's driveway, so the garage is one of the first closeup views such persons get of their host's residence. This makes it essential that the driveway be in good order and that the garage present a pleasing appearance, whether it be attached or detached. This makes the garage door one of the most conspicuous parts of the home frontage. Thanks to the ingenuity and good designing techniques of manufacturers, the builder and home owner can obtain garage doors and garage entrance treatment which bespeak good living and "welcome" as much as the house front entrances have for generations. This plus judicious use of shrubbery, and trellises make the garage part of the home today.



partition. When a door opening occurs between the garage and the dwelling in attached garages, the garage floor should be lower than the adjoining floor or the door saddle should be raised a few inches.

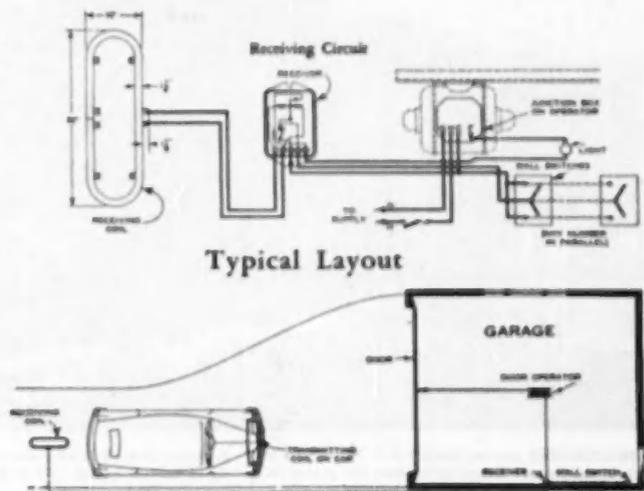
The one-story detached garage may be framed with 2x4's 24 inches on center. Studs do not have to be doubled around openings less than about 3 to 3½ feet in width. Corner posts can be 2x4's or 4x4's and single top plates can be used but plates should be lapped or tied at the corners. The rafter ties can be 2x4's but should be spaced no farther than 6 feet on center. Corners should be braced and these pieces can be fastened on the inside surface of the studs. Sheathing and building paper can be omitted, although it can help the home owner to avoid much hard car starting in extremely cold weather if it is used. In extremely cold climates insulation is desirable.

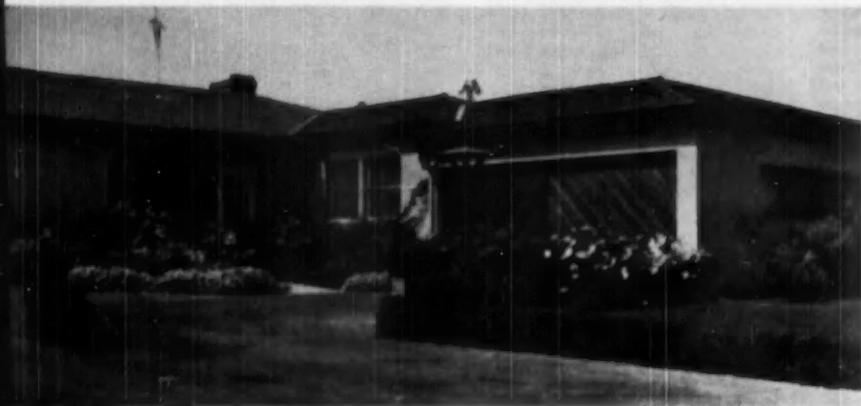
With the trend preponderantly toward street entrance garages, it is essential that the driveway, as well as the garage itself present an attractive

LESS than one per cent of the existing garages have automatic door operators. Modern techniques in design and manufacture make them efficient and trouble-free when properly installed according to manufacturer's specifications. A push button installed somewhere on the instrument panel of the car or on the floor is used to activate the mechanism from the car

**DIAGRAM** showing one type of automatic garage door operator installation. This particular unit utilizes a receiving coil imbedded in the driveway. There are others which make direct remote control contact with the operator. All units are on individual wave lengths so that the sending unit in a car will open only the door to which it is synchronized. Wall switches can be used to open the door also and should electric power fail the door can always be opened manually

Photo and drawing courtesy Barber-Colman Co.

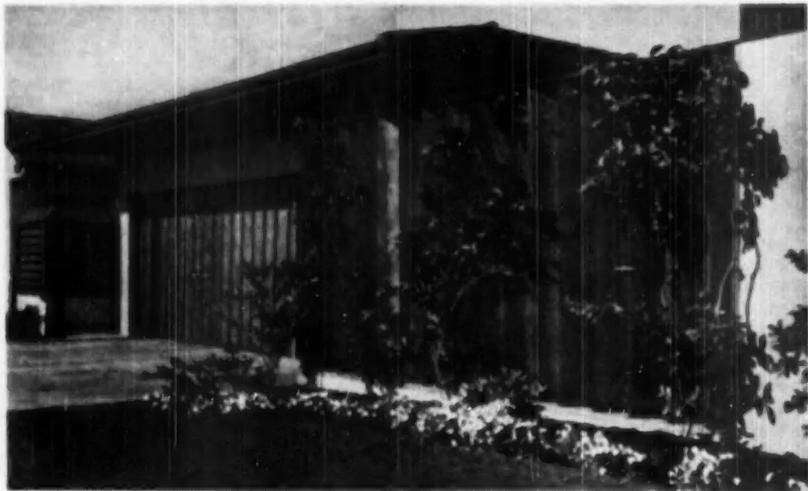




BECAUSE of the prominent position of the garage in relation to the house, the forecourt adjacent to the drive is thickly landscaped. Wall, flower box and lamp standard which form a separation, introduces a color note both in the character of box and its contents

## **Architectural Details that Add Interest**

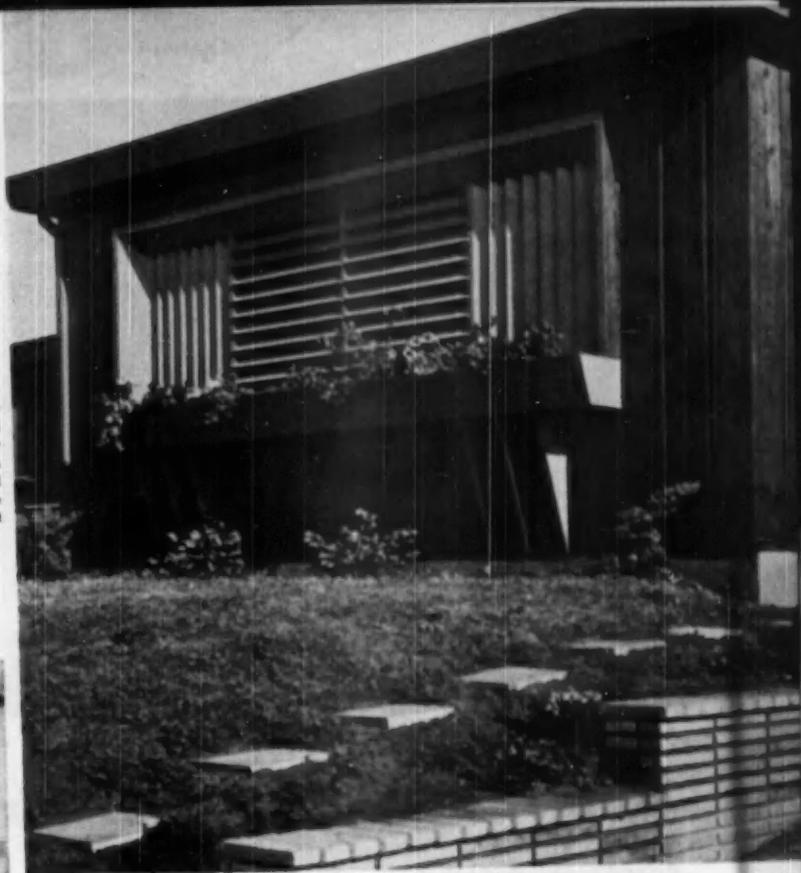
ARCHITECTURAL accessories such as the 2x4-inch square pattern lattice frame extending out from wall of garage, do much to break the severity of plain wall surfaces. The lattice frame is placed on a knee high stone wall that serves as a planting base. The horizontal facing of door and frame is painted white in contrast to the vertical redwood and bottom siding. Garage forms a part of the entrance forecourt



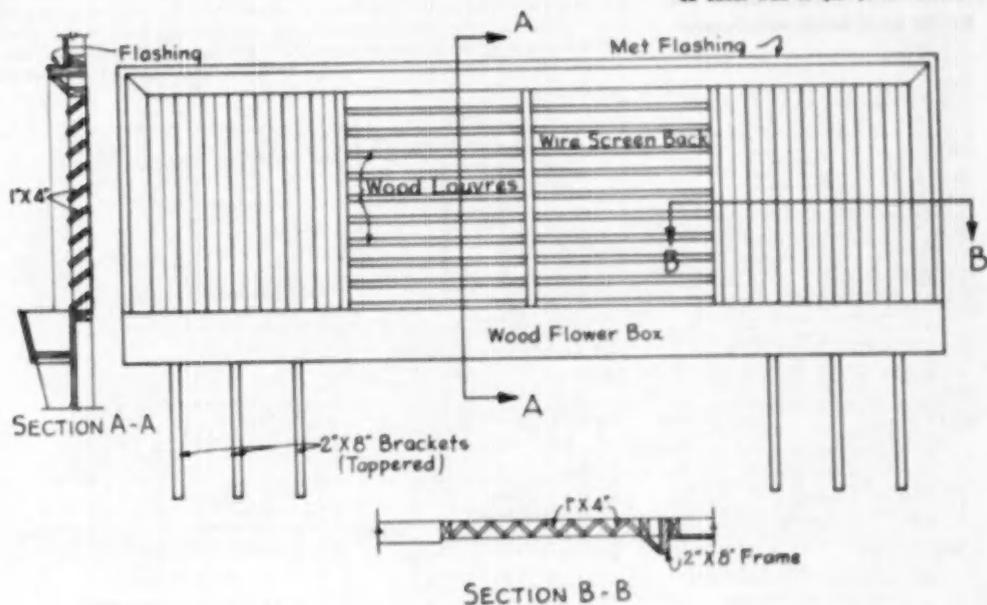
SEMI-DETACHED garage connected to house with a high board fence. All boards in fence are placed in an angular pattern, thus providing privacy but allow-

ing passage of air through fence. Garage door is built up of vertical boards and bottoms. Material used is redwood. Wide roof overhang protects garage doors

THE FEATURE at end wall of garage wing, referred to as a shadow box, while primarily ornamental and used for the purpose of dressing up the street wall, also has a practical value in that horizontal louvres are used for ventilating the garage. Shadow box is constructed of a 2x10 inch frame with a plywood surface on inside face. Vertical louvres are closed on inside face with provisions at sill for drainage. Flower box is supported on simple V type wood brackets. All material is of redwood. View below shows the relation of the garage to house and street



DETAIL drawing below showing the construction and elevation of shadow box on street wall of garage shown above





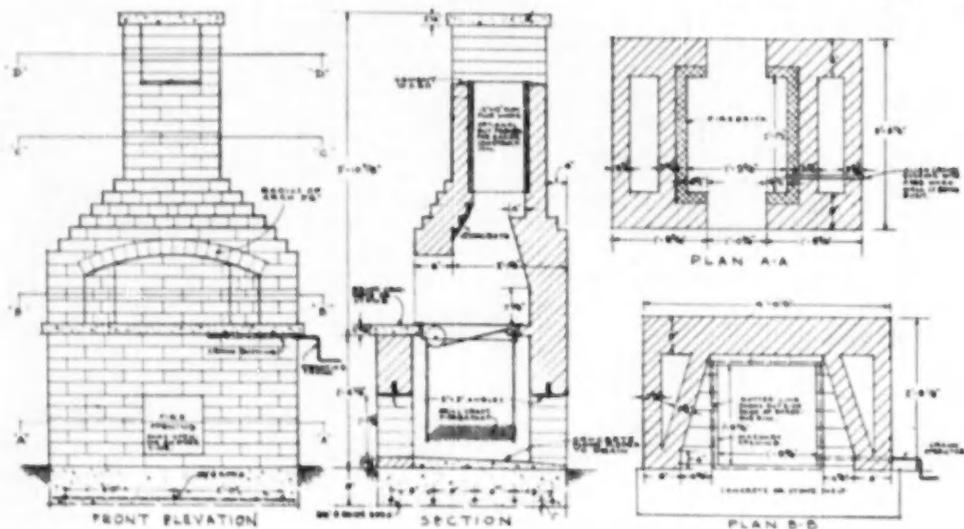
BARBECUE unit in this Grilcraft outdoor fireplace can be removed and used indoors. How unit is installed shown below

## How to Build Outdoor Fireplaces

**Prized possessions to most home owners, today these units are inexpensive to build and help sell homes**

**T**O BACKYARD-CONSCIOUS home owners who like sunshine and fresh-air entertaining, outdoor fireplaces are prized possessions. Today, a builder can offer these units, at little extra expense, as valuable selling features for any home.

Like an indoor fireplace, certain basic principles of design and construction must be followed in building an outdoor unit. These concern parts of the fireplace that control draft, fire, and cooking effectiveness, however, and need not interfere with the





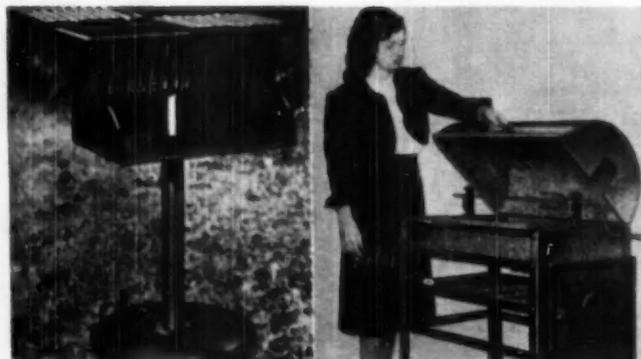
## Outdoor Fireplaces

builder's own good imagination in creating exterior designs to his liking.

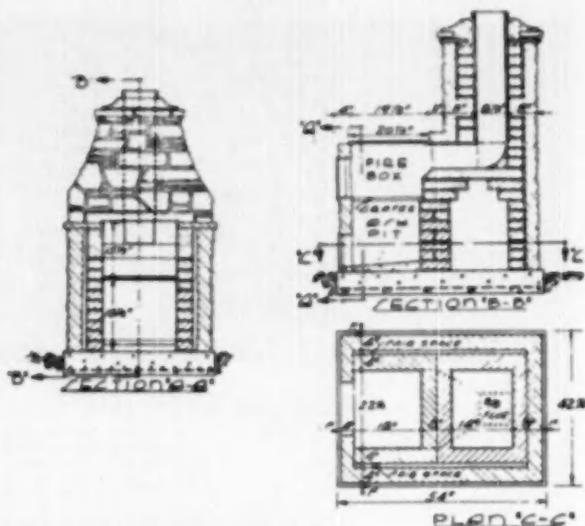
Here are some of the basic principles:

First, a good fireplace has a strong, solid foundation. Concrete or masonry is recommended, though in warm climates, tamped earth, cinders or gravel are sufficient. In cold climates, the unit should be built on either a floating slab of reinforced concrete, or brick or stones set in mortar at least four or five inches below frost line. A floating slab should be six to eight inches thick, with two-thirds of it below grade, the remainder above. If the foundation is stone set in mortar, be sure all joints are filled with mortar to prevent water from entering. The foundation should be at least one inch wider on each side of the fireplace and one inch longer at each end. A paved apron in front is desirable, to form a work area.

To avoid the necessity of worrying about proper dimensions of fireboxes, flues, and other working parts, the easiest and usually the least expensive procedure is to purchase a ready-built, all metal fireplace unit. They form a framework for the masonry and keep all inner working parts in proper proportion. Outer walls may be of brick or stone, or both. Inner walls should be firebrick placed on edge to save bricks and space. These should be lightly buttered with 1/16-inch joints of fire clay mortar, as should the space between firebrick and exterior chimney. Mortar made of fire-clay, with about 20 to 25 per cent portland cement is recommended. Common brick should be thoroughly dampened before laying up, and joints should be not more than one-half to three-fourths of an inch.



GRATE on outdoor cooking unit, left, rotates on stand for draft control. It is made by Bennett-Ireland, Inc. Majestic unit has top accessory to hold in heat



THESE typical detail sections illustrate basic relationship between dimensions of fireplace parts required to achieve an efficient operating unit

Before exterior mortar joints set they should be raked deeply with stiff wire loop, if rustic stone work is used, or flush for face brick. To make a neat finish for the top of the fireplace walls surrounding the metal unit, flat stone or tile may be used. Or any other material may be used, as long as it is fireproof, keeps water from getting down between the walls, and offers a convenient counter or working area.

Metal used in the fireplaces expands and contracts with the temperature. Provisions to allow for this are mandatory, to prevent ruining the fireplace walls. One good idea is to place sheets of corrugated paper against the fireplace unit before surrounding

it with firebrick. When the first fire is built in the unit, this will burn away and leave the proper space for expansion and contraction.

If wood or coal are to be used in the fireplace, a chimney is preferred. It should be high enough to create a good draft and to carry away the smoke. There should be no square corners on the inside of the chimney passage. This interferes with the draft. It should have a flue liner of fire brick, a cap to keep water out, and a screen to prevent flying sparks.

Design possibilities for outdoor fireplaces are almost limitless, if the above basic principles are followed in setting up the ready-built working unit. Most attractive units suit the surroundings and available space where they are built. Low, rambling designs are ideal for open spaces; high chimneys go well where the yard is surrounded by trees. Any fireplace should face the direction of prevailing winds.

Materials selected for the exterior of the fireplace should be chosen to harmonize with structural materials used in the home or other nearby buildings. If field stones are used they should be the least porous type possible, to prevent cracking from moisture freezing and thawing.

It is advisable to waterproof the entire exterior of the completed outdoor fireplace, sealing all porous portions. This protects the materials, accents, and helps retain colors of the masonry used.

Data courtesy of The Majestic Company

# Uncle Doesn't Know Best

By R. E. Saberson

**T**HE MAILMAN just arrived. It is mid-afternoon . . . a hot day. His load was extra heavy and he was not in a pleasant mood. Several of his customers were complaining, as usual, because it no longer is possible for him to make his deliveries in the forenoon. They liked it best when he used to come early in the morning. Now his arrival is late in the day . . . and uncertain. They don't like it. Neither does the mailman.

Seems as how it was all brought about because the Post Office Department has been "forced" to curtail its services, owing to the short-sighted-

ness of a group of niggardly politicians on Capitol Hill who insisted that certain long-needed economies might be in order. The Hoover report had revealed shocking wastes and exorbitant duplications sufficient to arouse the ire of the over-burdened tax payers—eye-witnesses daily to the extravagances. Consequently it only seemed reasonable that either the excessive costs or the incompetent officials should be eliminated. What could be more logical!

The department's reply was a kick in the pants for every Post Office user in the United States. With bureaucratic noses tilted high in the air and with public-be-damned hauteur written all over their grim countenances, irate Post Office officials issued instructions that apparently were intended to teach all economy-minded citizens not to meddle with or worry about the inefficiencies of the gargantuan monopoly that once had the respect of the public it is supposed to serve.

This kick-em-in-the-slats reaction on the part of Government officials is more or less typical of what happens when dear hearts and gentle people

have the temerity to suggest the inexcusable inefficiencies and needless extravagancies be done away with or at least reduced substantially.

By this time every citizen of the so-called "land of the free and the home of the brave" knows that the Post Office Department is in an unwholy mess. Mail trucks of ancient vintage careen menacingly down crowded streets. Delays in deliveries have become the rule rather than the exception. Scheduled pick-ups are postponed and even overlooked. The mailman that used to ring twice is now ashamed to ring at all when he puts in his belated appearance as he attempts to carry the day's grist in a single load instead of two as was formerly the case.

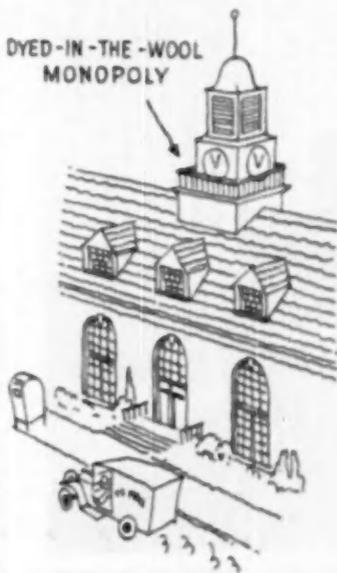
No other Governmental activity is as familiar to the American people as the Post Office . . . no other bureaucratic operation comes more intimately to the public's attention. Here the man of the street has a first-hand opportunity to appreciate why costs pile up needlessly whenever Government redtape is involved.

There is much food for reflective thought in the fact that the United States Post Office has long been a dyed-in-the-wool monopoly. No one else has even had a chance to deliver the mail. No one has ever questioned the authority of the vast organization or dared to do anything that would improve its progress. The department has been supreme from the very beginning and even protected by a psychological aura that insulated it from criticism.

Yet despite these unusual advantages that are never enjoyed by private companies that can only grow big by virtue of the quality of the services rendered (and therefore "vicious" according to current bureaucratic philosophy), the Post Office steadily has grown bigger and has gone from bad to worse until finally it has all but broken down.

American citizens who are looking toward Washington with more and more concern over the manner in which their hard earned tax monies are being spent, have a perfect right to wonder whether a Government that cannot deliver and collect the mail efficiently is able to take over the exceedingly complicated job of providing housing, as is the constant ambi-

(Continued on page 128)





## Panelized Home for Select Projects

**This is the new Sun Ranch Home—supplied to eastern builder-developers in modular panels from prefabricating plant**

**E**XHIBITION models of the new Cy Williams three-bedroom, duo-bath Sun Ranch Home were opened in April for public inspection in two Long Island locations. Although 40 per cent factory-fabricated by Cy Williams Fabricators, Inc., Huntington Station, New York, it is constructed and assembled with conventional building methods.

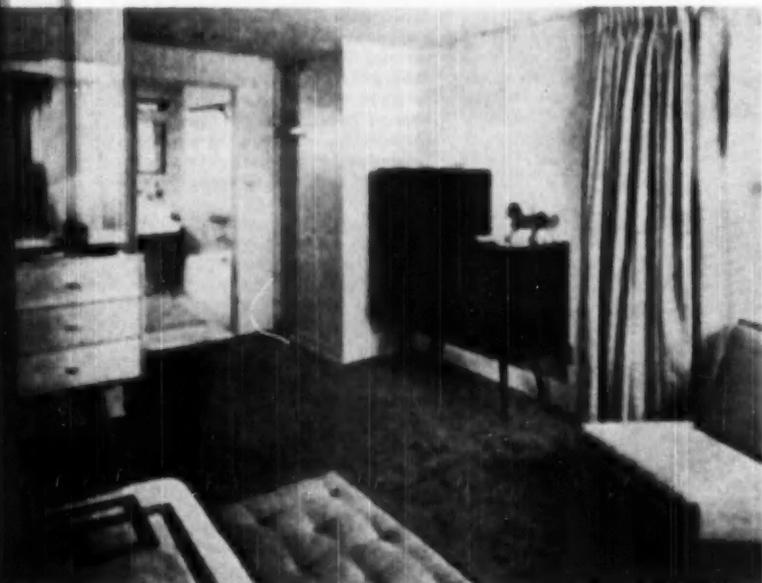
Last year the expansion model Sun Ranch Home, which is an improved version of the conventional five-room story-and-half home, won national acclaim (see *American Builder*, August, 1949, page 80). The new model of 1220 square feet of living space has been developed to meet the requirements of the \$15,000 market; the 1949 home was in the \$10,000 price class.

### Approved by Institute

The 1950 Sun Ranch Home is the first of its type to be approved by the Revere Quality House Division of the Southwest Research Institute. On Long Island the home is priced at \$14,990, complete with garage and fully landscaped plot.

The basic floor plan of this house designed by James Scovil includes a large living room with wood-burning fireplace, three bedrooms, duo-bath, fully equipped kitchen and a dining area.

Monolithic concrete foundations of the house extend below the frost line, and the structural floor (four inches



SLIDING doors separate duo-bath seen in background of bedroom into two compartments, each with water closet and lavatory. All clothes closets are factory-fabricated

AT LEFT, completed Sun Ranch Home has design integrity of modest and functional lines that arrest attention with dynamic proportions of large window area, vertical paneling and facade of common brick. Hard-burned common brick are used, also, in fireplace that is major focal point in living room shown at right. Wallboard and asphalt tile were used for wall and floor finishes



of concrete over a six-inch gravel fill) has half-inch copper coils imbedded in it for the radiant heating system. Three-fourths-inch insulation boards used as a barrier at the floor slab periphery also extend four inches below the slab to the footing abutment at the grade line.

#### Panelized Framing

Framing consists of panelized sections of 2x4-inch studs, 2x6 joists, 2x6 roof trusses and 3/4-inch plyscord sheathing. A 2x4-inch continuous top plate installed on the job helps to bind the sections. Attached to the foundation with 3/8 by 8-inch anchor bolts is a 2x4-inch crosstied sill.

Interior walls are finished with 3/4-inch wallboard carefully taped, with 1 1/2-inch baseboard at the floor and quarter-round at the ceiling intersection. Windows and doors have two-inch beveled wood trim. Interior floors are finished with asphalt tile except in the bathroom which has a white ceramic tile floor and wainscoting.

All the factory-made closets in this model home have sliding doors. Youngstown kitchen cabinets are generally used. Top hung casement windows and flush doors complete the interior trim motif.

#### Roof and Walls Insulated

While type "B" Reynolds Metallation is used to insulate exterior side-walls, two inches of Cellulite are used in all ceilings. Zinc interlocking type weatherstripping on all exterior openings provides further weather protection. Covering the roof are 210-pound asphalt shingles over a felt under-

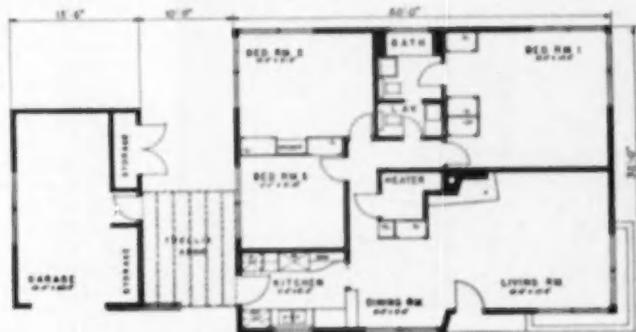
coarsing. Beveled siding, cedar shingles or asbestos shingles and brick or stone form the exterior finish.

The Cy Williams company has organized a Home Development plan which incorporates a complete building program to aid the qualified local builder in the construction and promotion of Sun Ranch Home projects and offers these aids: job organization, advertising, land planning, engineering, financial guidance, and architectural help.

Builders erecting and selling Sun Ranch Homes this year in the New York area are: Eugene Miltonberger, Redbank, N. J., 15 units; Colby & Sons, Inc., Glen Cove, L. I., 103 units; Wm. Colby Corp., Flower Hill, L. I., 43 units; Samnis & Mead, Greenwich, Conn., 30 units; Mead Co., Stratford, Conn., 70 units; Stephen Mapes Ruden, Inc., Chappaqua, N. Y., 30 units; Roy Julie, White Plains, N. Y., 75 units; and Ansell Ranch Homes, Inc., Demarest, N. J., 98 units.

Formerly the Sun Ranch Homes were available through local builder-dealers on individual home-owner sites. Today, however, they can only be obtained in one of these carefully chosen community locations.

These are the products used in the house or included in the purchase price: Wallboard, United States Gypsum Co.; kitchen cabinets, Mullins Mfg. Co.; insulation, Reynolds Metals Co. and Gilman Brothers Co.; hardware—door, Schlage Lock Co.; window, Vincent Whitney Co.; medicine cabinet, G. M. Ketcham Mfg. Corp.; Heater, Auto-Heat Corp.; hot water heater, Bryant Heater Div., Affiliated Gas Equipment, Inc.; lighting fixtures, Lightolier Co.; asbestos shingles, Johns-Manville; range and refrigerator, Nash-Kelvinator Corp.; washing machine, Bendix Corp.; ventilating fan, Fasco Industries, Inc.; plumbing fixtures, American Radiator and Standard Sanitary Corp.





FREE-winning Colonial Terrace apartments designed by Solheim



"FLYING architect," Selmer A. Solheim, has designed apartments for four different states

## **Rental Units for the Small Builder**

**Apartments designed by "the flying architect" are built in Nebraska for as low as \$7,000 per unit**

**R**ENTAL units designed by a Lincoln, Nebraska architect are finding wide acceptance in a four-state area for two practical reasons: (1) they are small enough to be comparatively inexpensive to build, and (2) large enough to bring sufficient rental income for the owners. The architect is Selmer A. Solheim.

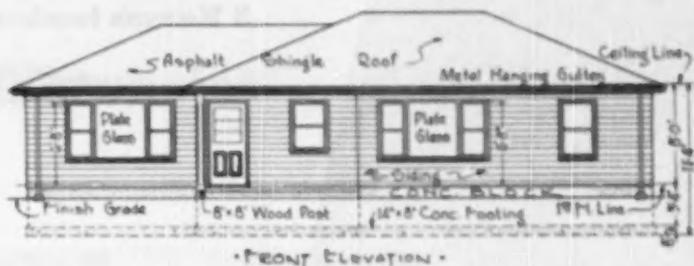
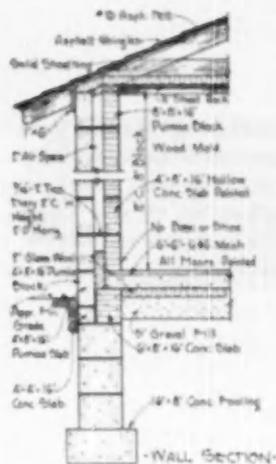
One recently completed project of four-family units in Lincoln was built at a cost of \$7,000 per family unit, including land. Built by the Hueske Building Company, they are conventionally framed, individually heated, and equipped with separate hot water heaters, ranges, refrigerators, garbage disposers, and kitchen ventilating fans. With one and two bedrooms, they rent for \$69.50, \$82.50 and \$85.

Reinforced concrete slab floors over concrete foundation walls and footings are used in some of these frame apartments, while others have full basements. Where slab floors are used, first floor covering is asphalt tile. Two-by-four plates are bolted around the outside perimeter of the foundation wall or slab, and 2x4 studs 16 inches O.C. are erected. Floor joists are 2x8's, 16 inches O.C. Oak flooring is placed over diagonal subflooring. Slab floors are insulated with 2 inches of Fiberglas, while insulating sheathing is used on outside walls and three inches of mineral wool is placed between ceiling joists. Roof covering is 210-pound asphalt shingles.

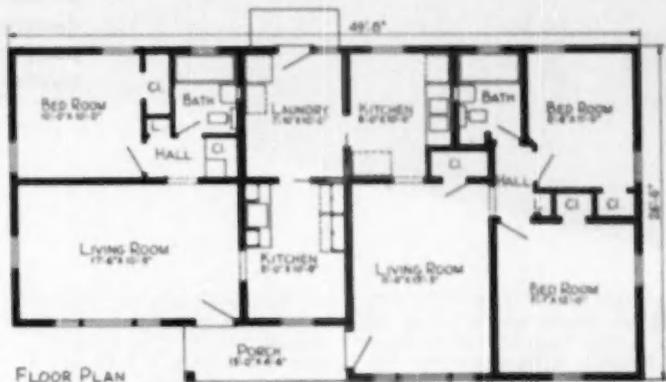
Where there are basements in the new frame buildings, each four apartment unit has two bedrooms. Where a slab floor is used, there are two one-bedroom and two two-bedroom units.

One four-unit apartment project in Lincoln designed by Solheim was built at \$6,500 per unit, and rents range from \$55 to \$71.50 for one-bedroom units to \$65 and \$88.50 for two-bedroom units. These four-unit buildings are 28 x 55 feet.

Recently the Lincoln Real Estate Association, a private enterprise group promoting construction of low rental housing, selected Solheim to draw up plans for four, two, and single-family units for low rental. Solheim's contribu-



NEW duplex apartment can be built in Lincoln for about \$9,000, according to Solheim



DETAIL drawing, left above, is Solheim's recommended side wall to underpin and loading construction for duplex apartment he has designed for Lincoln low-cost rentals. Floor plan of duplex, above right, shows efficient room arrangement of unit



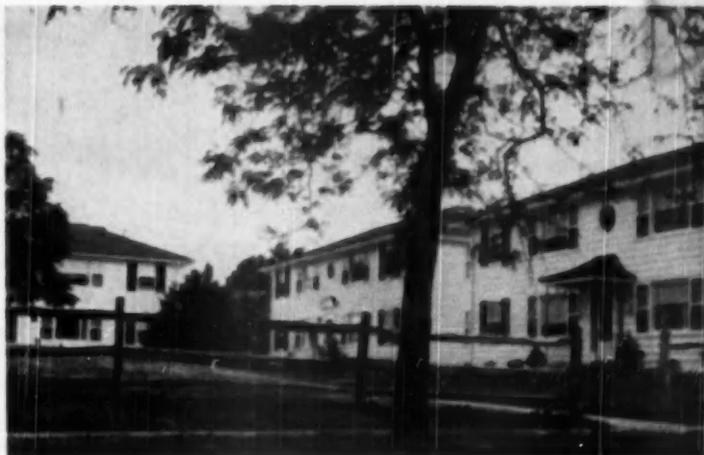
LATEST four-unit apartments designed by Solheim, as floor plans indicate, are compact in arrangement yet offer liberal room sizes. Each living room has a large picture window

RENTS of these frame apartments vary from \$89.50 to \$95, and cost of construction was about \$7,000 per unit. Conventional framing is used throughout, with 2x4 studs and 2x8 floor joists 18 inches O.C. Some are built on slab floors; others have full basements

tion so far has been a duplex which he says can be built in Lincoln for as low as \$9,000, to rent for about \$39.50 to \$49.50. The cost to build elsewhere would vary about 20 to 30 per cent, he says. It will fit on a 50-foot corner lot (see construction details).

The Colonial Terrace apartment project built in Lincoln in 1948, now owned by Solheim, is typical of other Solheim-designed apartments. It won an Honorable Mention award

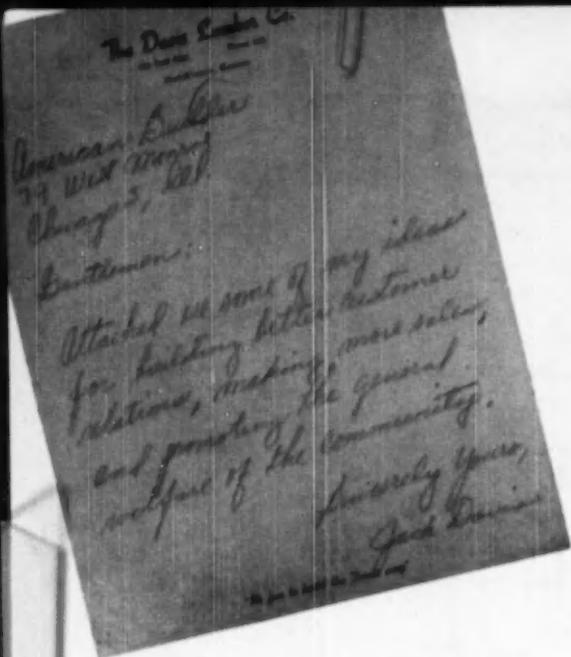
(Continued on page 205)



## A Kansas lumber dealer says

# "Sell from the

**Sales ideas that count for this firm include a personalized portfolio, picture post cards and slogans. Equally important to the company's success is a new method of buying control . . .**



**A** PERSONAL touch to selling has steadily built up a long list of satisfied customers for the Davis Lumber Co., Hutchinson, Kansas. The sales methods, promoted by Jack C. Davis, managing partner, offer new ideas of selling from the customer's viewpoint.

Aim of the firm's sales approach is to make as many people as possible feel they actually "know" the company, and feel that it is intimately concerned with their home building or maintenance problems. Newspaper and radio advertising are more personalized than usual, and this, together with a unique type of advertising with

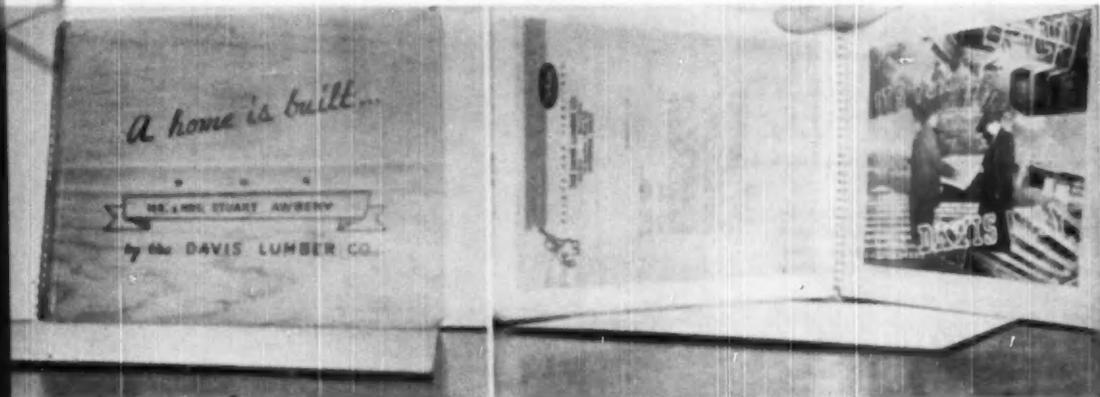
portfolios, post cards, and slogans—backed up by services that fulfill the complete demands of the consumer—keeps this company in stride with a progressive community.

Newspaper and radio advertising are effective for two reasons: (1) they are easy to read or follow, and (2) they leave the impression that Davis Lumber company can take care of the home building or repairing problem, no matter how large, with minimum effort to the customer. A few, simple words are used. The word "you" is stressed.

Classified advertising, says Jack Davis, is just as important as one

and two column newspaper advertising—if it is properly worded. Stimulate the reader to immediate action, is the advice Davis gives. He uses such words as "Build Now . . . labor and materials are not going to be any lower from what we hear. . . ." Or, "Call the Davis Lumber Company now."

Selling from the customer's viewpoint means being able to know his wants and finding out how to satisfy them, says Davis. Most families, for instance, are proud of their new home, and want to show it off. More practically, every family likes to feel it has made a good bargain; that re-



PERSONALIZED portfolio, entitled "A home is built . . ." is presented by the Davis Lumber Company to each new home owner. On inside front cover, right, a letter guaranteeing the home for one year is included. Progress photographs of the home, a list of materials used, and a cost breakdown of materials and labor are incorporated in attractive book

## Customer's Viewpoint



THREE typical homes built by the Davis Lumber Co. Firm averages completing about 12 a year

sale value is good, and will be for a long time. Davis has devised a personalized portfolio designed to point up the value of the home.

The portfolio is regarded by Davis as an important sales tool. Given to each new home owner, it contains illustrations showing construction procedures of the home, including a large black and white photo of the completed home; a guarantee from the Davis company; description of materials used, and manufacturers' guarantees of materials used if they are supplied. Spiral-bound, the portfolios are made up with handsome covers simulating wood grain, and

are usually kept in a handy place in the living room by home owners.

The guarantee from the Davis company, on the inside front cover, is in the form of a personal letter from Jack Davis. The letter explains that the new home, like a new automobile, may sometimes require minor adjustments. These adjustments are made free for a period of one year, the letter states. Complete as it is, the book provides a valuable sales tool for the home owner, who may show prospective buyers complete details of his home. Important to Davis is that maintenance jobs on the homes will be required long after the one-year

guarantee has expired, and long before the portfolio is taken out of use and display by the home owners.

Fifty post cards with a picture of the new home, in addition to the portfolio, are given to each new home owner. The slogan, "It's Fun to Build the Davis Way" is printed along one border of the picture side of the card.

"It's Easier to Build than You Think" is another slogan used by the company. A slogan emphasizing the reputation the company is striving to maintain is "Davis Built Means Well Built."

Backing up all advertising and promotion claims by the Davis company

**NATIONALLY** advertised products—ones that are likely to be most in demand by both builders and consumers—are kept in the well-stocked Davis Lumber Company store, and are ordered according to a unique Unit Buying Control system devised by Jack Davis





**When The "Building Bug" Bites You  
HERE'S WHAT TO DO:**

1. Don't be alarmed... It's not fatal. It's fun to build the Davis Way!
2. Walk... don't run, to the nearest telephone.
3. Please 336... the Lumber Number.
4. When called... we take it from there.

For thirteen years people who have been bitten by the "Building Bug" have come to us for prompt assistance and have remained as satisfied customers.

**HERE'S  
WHAT  
WE DO:**



1. Help you select the building site.
2. Provide you with plans and specifications designed to solve your individual building problems.
3. Recommend reliable contractors who will do your building and guarantee the construction.
4. Give you up-to-the-minute financing information.
5. Provide you with accurate estimates on what it will cost to start living in your new home.



**HURRY,  
CALL THE  
LUMBER  
NUMBER  
336,**

or come in today, if you're thinking of:

Building a new house

Re-siding

Re-roofing

Re-painting

Re-decorating

Building a garage

**Our complete ONE-STOP BUILDING  
SERVICE will save you time and money!**

Ask About Our

**SWEAT EQUITY PLAN**

Where your labor provides all or part of the down payment on your new home.

**Davis**  
Lumber  
& Hardware

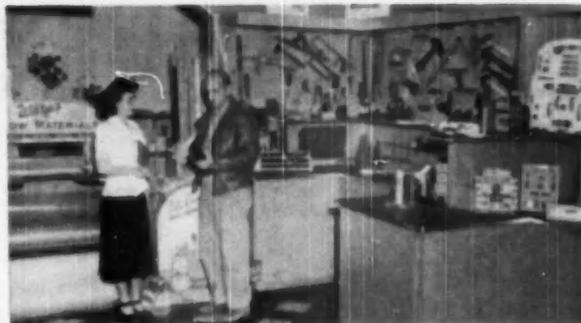
Phone 336  
151 East First

Illustrations News-Herald ad by W. J. Wakefield  
ADB for Davis Co. are personalized

are well-trained employees, carefully selected, who are housed in homes they bought with no money down from the Davis company; who receive paid vacations, and work on a bonus plan. They feel they are an active, important part of the organization. Once a week they, with the company management, get together at night to discuss company problems and offer solutions to them. In return for good working conditions and salaries, Davis expects—and gets—first-rate salesmen who carry out his sales policies.

**Unit Buying Control**

As a basis for forecasting demand and for keeping inventories balanced in relation to sales, Davis has devised and uses a unit buying control method. It provides a convenient and systematic method of counting stock and ordering items. When properly kept, says Davis, it shows—(1) What sold well last year; (2) what did not sell well last year; (3) what is selling well this year, and (4) what is not selling well this year. It thereby helps determine what to order, when to order,



**SALES personnel are well-trained in the Davis sales methods**



**VARIED designs and materials are features in Davis-built homes**



# How to Use Section 213

## COOPERATIVE HOUSING

By Martin C. Huggett

Executive Vice President

Chicago Metropolitan Home Builders Association

**D**IRECTORS of the State and District offices of the Federal Housing Administration, prompted by Commissioner Richards, are recommending to home builders that they sound the possibilities involved in Title II, Section 213, Cooperative Housing, a new, and yet, untried program.

The section was written and enacted as a private enterprise substitute for the bill providing direct government loans for cooperative housing which was so ardently fought and finally defeated by our industry. Its substitute accordingly provides a challenge to private builders to take it, utilize it or suffer the consequences of ignoring its provisions.

### A Profit Incentive

A preliminary review of the provisions of the law might possibly lead to the belief that little incentive is offered to engage in the organization and construction of programs under this law. That is not true because the fee construction contract provides as much profit as builders usually seek and renders a compensation for the extra work involved.

It is certainly true that groups of cooperators desiring homes under the provisions of the law, when unskilled in construction operations, will run into the same and possibly more serious difficulties than those who have previously tried to organize cooperatives and failed miserably and often scandalously.

### Builders The Logical Promoters

It follows that, if the law is to become operative to a successful degree, it is best that the transactions should be handled by those skilled in the wholesale production of housing. The project builder therefore becomes the only logical person to carry through the promotion from beginning to end.

The law offers extremely favorable terms—mortgages for \$8100 per dwelling unit or \$1800 per room, whichever is best, but aggregating

not more than 90 per cent of replacement cost. When 65 per cent of the stockholders are veterans of World War II these figures are advanced to \$8550 per unit or \$1900 per room with a 95 per cent mortgage limit. Savings are also achieved due to freedom from franchise and income taxes. In addition the limit of amortization is placed at 40 years and the rate of interest at 4 per cent, rendering monthly payments very reasonable.

### Chicago Committee Has Made Close Analysis

The Chicago Metropolitan Home Builders Association committee on Housing Redevelopment of which Leonard R. McDonald is chairman, with the advice and counsel of the association attorney, John F. McCarthy, has made an exhaustive study of the possibilities lying within the provisions of the act and offer a suggested method of procedure to those who would like to try their hands at such cooperatives. The chairman has been bold enough to try out a "guinea pig" case, preliminaries of which have involved two trips to Washington, and the following procedure is offered as being most likely to avoid difficulties. Steps are as follows:

1. Provide a definite or firm option on the land involved or other means of placing the site entirely under control.
2. Prepare preliminary plans in sketch form in sufficient detail to avoid future differences. Make a preliminary estimate of cost.
3. Present the site, plans and estimates to FHA and arrive at a mutual preliminary understanding regarding location, plans and arrangements, and costs.
4. Consult with bankers and know definitely where and how mortgage will be handled.
5. Organize a corporation and prepare by-laws and cooperative leases. (These papers to date, require the approval of the Washington office of FHA. The chairman has obtained

such approval for the so-called "guinea pig" case. Forms will be made available at the office of Attorney McCarthy.

6. Obtain from FHA a *Preliminary Letter of Eligibility*.

7. Proceed with the sale of stock and leases. Ninety per cent of the stock must be sold before the corporation can function. Each stockholder must be passed upon by FHA and found eligible for credit amounting to his share of the loan payment as represented by his rental. In connection with such sale, take from each stockholder an amount equal to his share of the difference between the total cost and the mortgage, plus a small amount to provide working capital.

8. Present final plans to FHA and secure firm commitment, execute mortgage papers and proceed with construction.

### All Types of Housing Covered

Under the provisions of the law any type of housing can be constructed—single family dwellings, semi-detached and row housing or any type of apartments. Any stockholder may sell his stock and lease at any time with the approval of the corporation. In the cases of single family dwellings, semi-detached and row housing, he may also purchase his unit outright by paying to the corporation his share of the mortgage balance. There are no strings on this sale. It offers the greatest opportunity yet devised for home purchase, particularly to non-veteran stockholders.

### Avoiding Delays and Disintegration

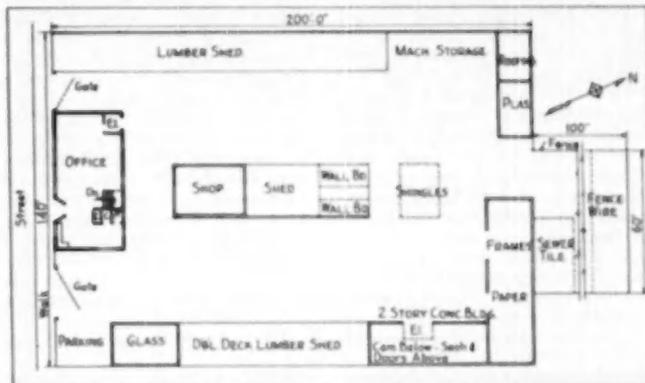
It will be observed that the committee recommends the postponement of the actual sale of stock until all preliminaries except building construction have been completed. This is to avoid disintegration due to delays often encountered in similar transactions and anticipated here. A reasonable homogeneity of membership is also recommended.



## New Office Proof of Dealer's Half-Century of Success



OLD office shown in inset was adequate in company's early days, but expanding business made replacement imperative



U-SHAPED drive in plot plan provides easy entrance and exit to all storage space



PAINT is one of the major items sold by this lumber yard. Therefore, special care went into construction of storage shelves and counters that are open for customer inspection

**Progress and prosperity of dealer is attested to by grand opening of his new sales and office building**

**F**IFTY-two years of successful business operations of the Lincoln Lumber Company, Plentywood, Montana, culminated in the grand opening of a new sales and office building this past spring. Founded in 1908 by Mr. A. Riba, the yards have been managed since 1910 by Mr. R. L. Rue who has promoted the company's interest in civic improvement and in better building construction and design.

The new building which measures 30 by 60 feet has a full basement and is constructed of concrete and concrete block with a stucco finish. Many of the items in the building, such as the Thermopane front window, sliding doors, Modernfold door and kitchen equipment, were incorporated in it for demonstration purposes.

Since paint is a major item in the company's business, the coverings used on the interior walls, floors and ceilings were selected to show applications of various paint products.

The building is equipped with an elevator, two bathrooms and is located in the front center of the yard.

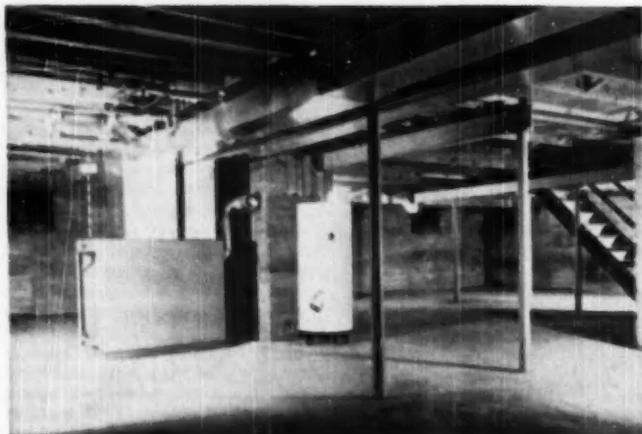
The Lincoln Lumber Company operates a building plan department and works closely with a professional architectural service to provide skilled drafting for local builders.

## 50 Personalized Homes from a Single Plan

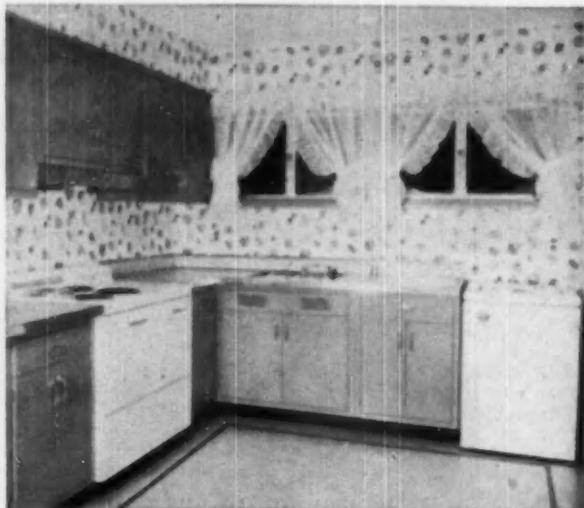
**First of a group of houses built from a standard plan. Each house to be personalized for buyers through design and materials**

**T**HE FIRST of 50 personalized homes to be erected in a quarter million dollar setting of flowering trees and shrubs on the former Percy Pyne estate in the village of Roslyn Harbor, Long Island, N. Y., has been opened for public inspection by Walter G. Stackler and Leonard L. Frank, builders.

This house, as well as others to be built, is placed on a one acre plot and contains 1,518 square feet of living area exclusive of the garage and basement. The sale price is \$23,800 including refrigerator, range, dishwasher, automatic laundry and exhaust fan. The L-shaped ranch-type house with three bedrooms, two baths and attached garage was designed by Alwin Cassens, Jr., Forest Hills architect.



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**KITCHEN** is furnished complete with Esquivator refrigerator and range. General Electric dishwasher and Bendix washer. Work counters are plastic topped

"Although we are building with a standard floor plan in order to hold down costs and selling prices, each of the 50 Mid-Century houses planned for the 75 acre development will be personalized for individual buyers," Builders Stackler and Frank said. "This will be accomplished by offering a variety of exterior designs which will provide changes in both roof and wall surfaces, exterior and interior finishes, or other changes necessary to meet the tastes and requirements of individual buyers. In addition, each house will be carefully oriented to its site to take full advantage of the desired exposures and at the same time to be properly screened from adjoining houses."

Close collaboration on the part of

architect and landscape architect in laying out the development has produced a house of contemporary design that will form the pattern of others which are to follow. Extensive glass areas on exposed walls in the main living rooms, open to the home owner a vista of flowering shrubs and trees on an area of rolling terrain, both to the front and rear of the property.

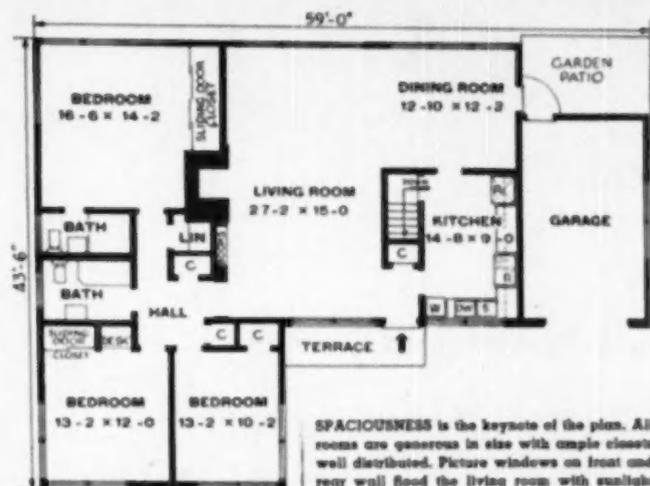
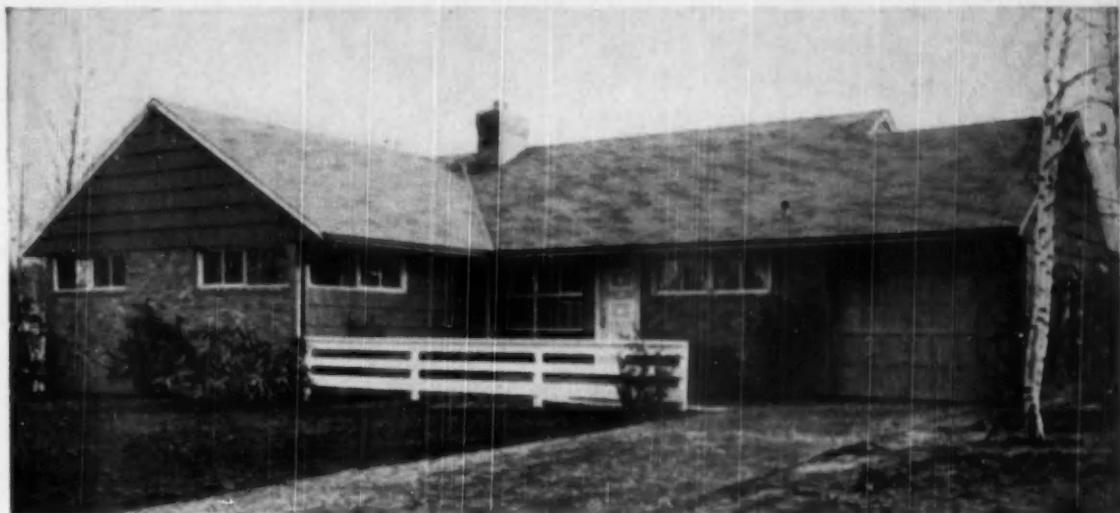
The window walls are divided into three horizontal tiers, the two lower tiers are all fixed sections and insulated with Twindow hermetically sealed sash. Abundant ventilation is provided by the aluminum casements in the upper tiers of the picture windows and windows at shoulder height in all other rooms.

The designers of this model house



**CLEVER** utilization of space is a feature of one bedroom. A quiet study nook is provided in alcove between closet and entry

**THE BASEMENT**, which extends under the entire house, is planned for maximum use. It has room for recreation and service units



THIS Leaped house with wide overhanging eaves, faced with a combination of double curved cedar shingles and variegated face brick, is designed to blend well with the wooded and rolling terrain

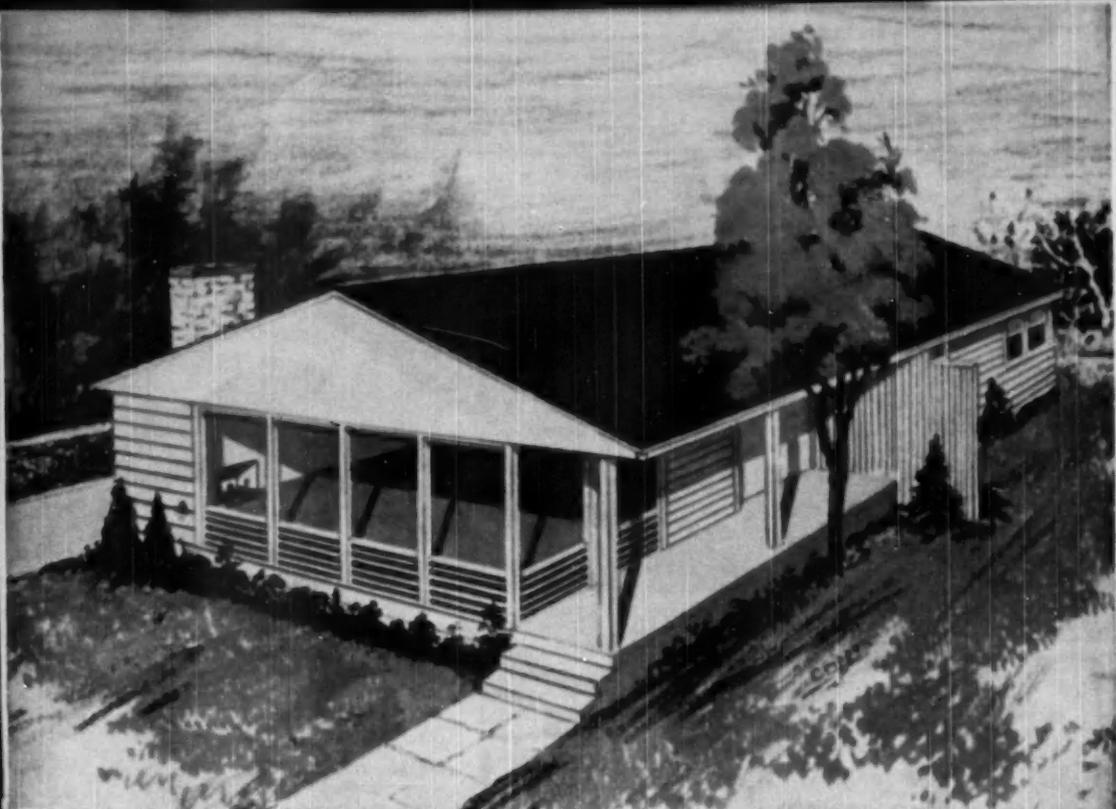
are commended for providing a living room sufficiently large to accommodate the occupants of three bedrooms and two baths. A full size dining room wing adds additional area to the living portion. A kitchen, one car garage and ample closets complete the layout.

A feature of the house is a huge basement containing 1,518 square feet. Equipment furnished includes a Rheem 52 gallon electric hot water heater and a warm air oil burner. The layout provides for a large recreation room, hobby room, workshop, laundry, clotheslines and other facilities.

Foundations are of 10 inch poured concrete on 18 inch footings. Most of the first floor joists are 3x8's supported by steel girders and Lally columns. The house has a wood frame shell with face brick veneer facing in some portions and gray stained striated cedar shingles for balance of walls and gables. The house is insulated in side walls and ceilings with rock wool. Roofing is slate-surfaced asphalt shingles. Wide overhanging eaves all around the house, except at gable ends, afford protection from sun and rain. The garage is separated from the living quarters by an insulated, fire-resistant wall and ceiling.



VIEW of rear of house. Two picture windows occupy 24 feet of the 28 foot rear wall of living and dining room. Extended eave provides protection from elements



A FRONT wall of glass lends an effect of openness to this house, designed to make most advantageous use of a narrow lot

## ***A House of Limited Frontage***

**A** ONE-story dwelling that can be built on a 50 foot lot in urban areas is the type of house desired today by many potential home owners.

This month's blueprint house designed by Grainger, Thomas & Barr, architects, Seattle, Wash., reflects this type of planning. The featured front carrying back to approximately three fourths of the length of the house is confined to 25 feet 5 inches in width. This includes an entrance porch 5 feet wide and the width of the living room. The rear portion of the house is extended in width to include the

attached garage. This arrangement allows a wide, open area on the garage side of the house for the living rooms and kitchen.

A feature of the house is the over-all economy of the design. The simple gable roof is unbroken in line except for the garage gable which overlaps the main gable but does not disturb the framing of the main roof. Simplified framing throughout is possible because of the rectangular shape of the house. An architectural feature that provides balance to the house is the wood louvre screen that extends from grade to underside of roof soffit, on the side of house opposite the garage.

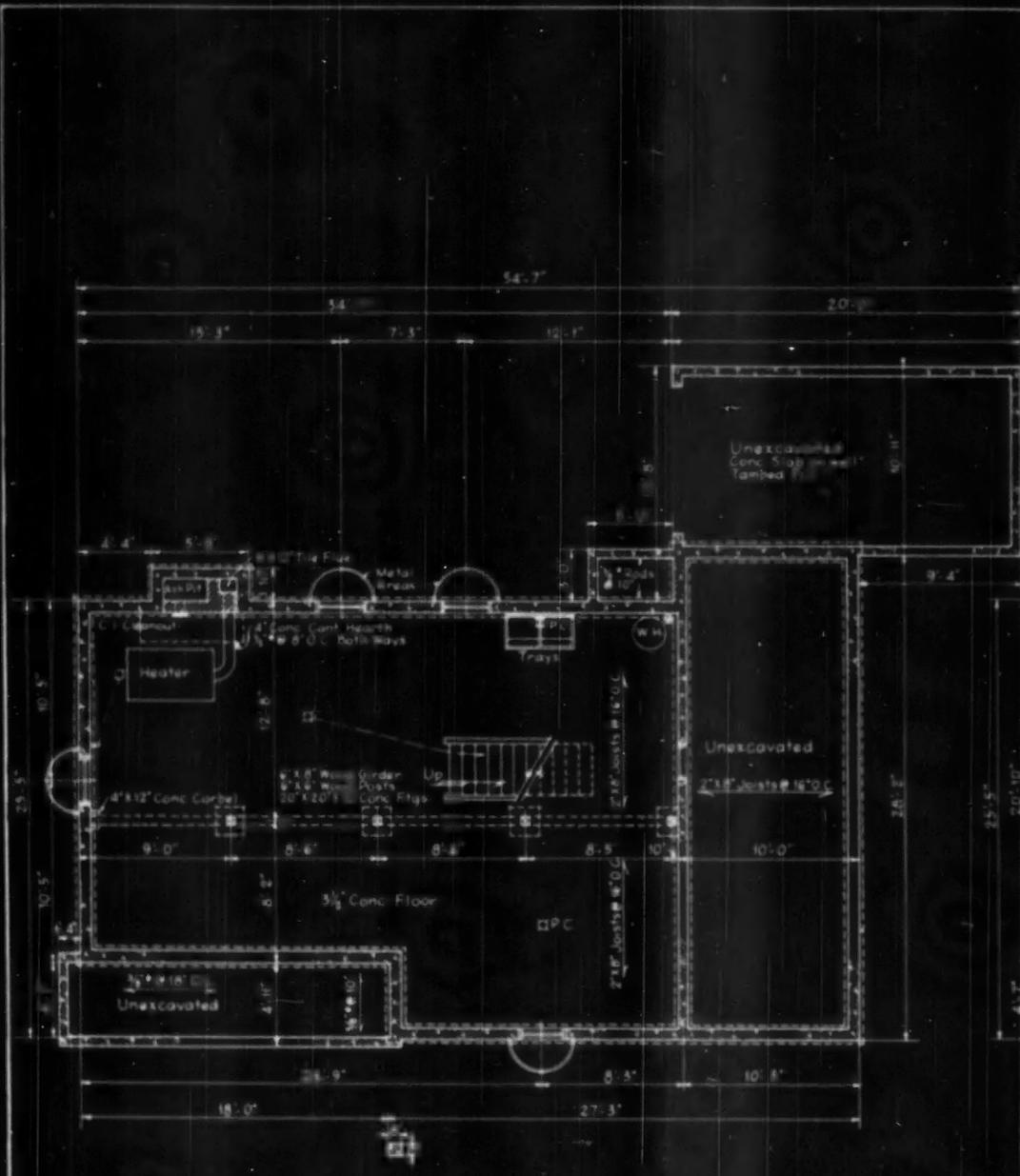
Six rooms are contained within the perimeter of the exterior walls. The rooms consist of three bedrooms and a bath and a combination living and dining room that is separated by a low wood screen. The living area of the house contains approximately 1012 square feet exclusive of the attached garage and entrance porch.

### **AMERICAN BUILDER**

#### **Blueprint House No. 44**

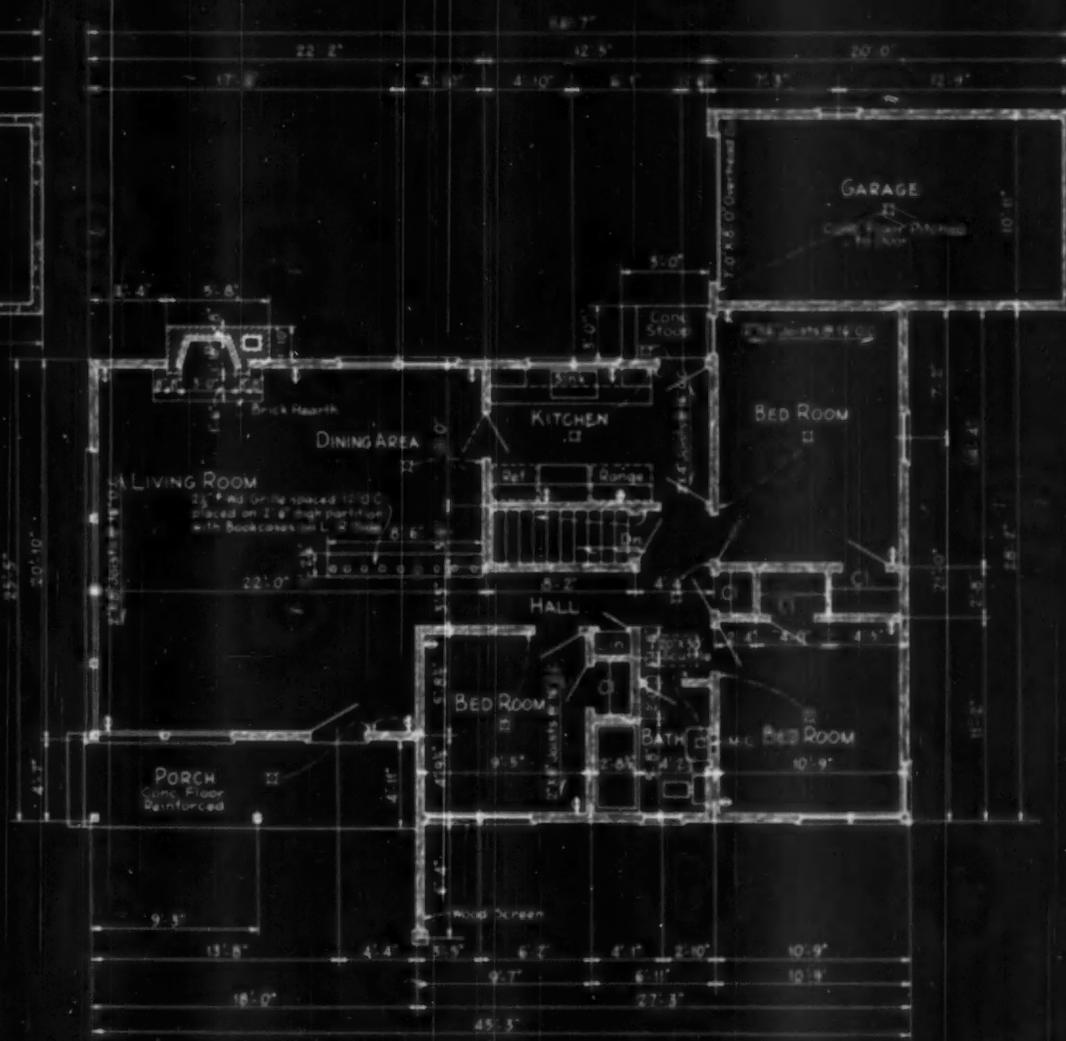
Grainger, Thomas & Barr, Architects

*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.*



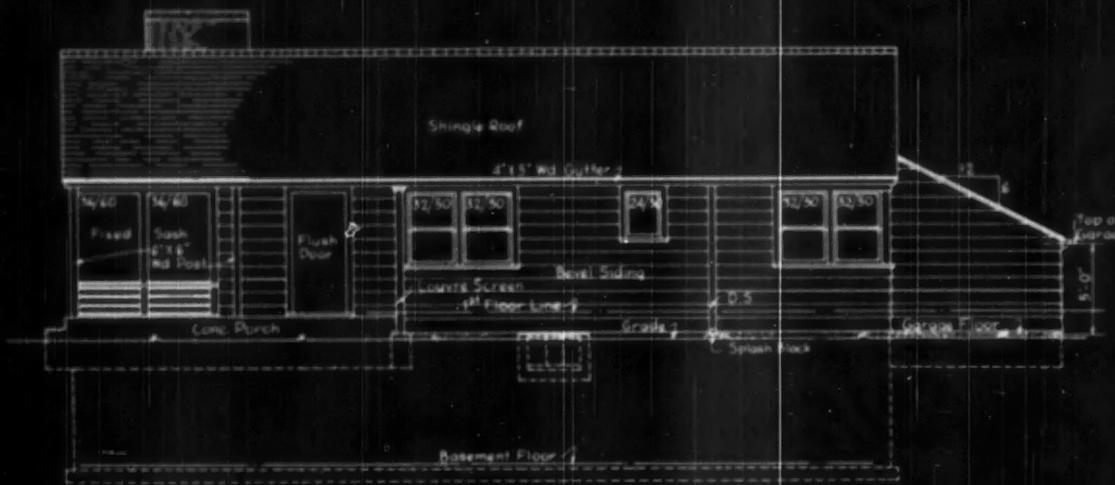
BASEMENT PLAN

Scale 1/8" = 1'-0"

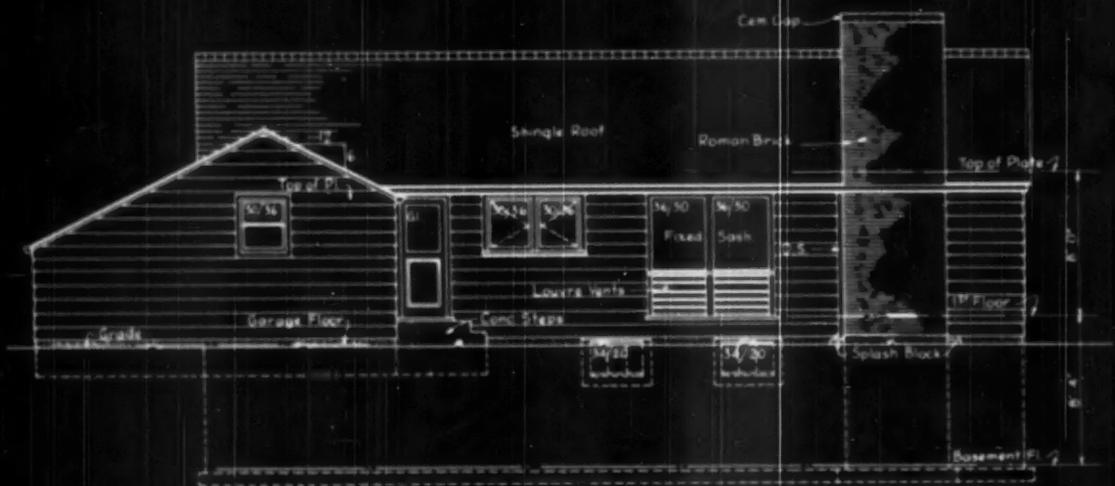


FIRST FLOOR PLAN

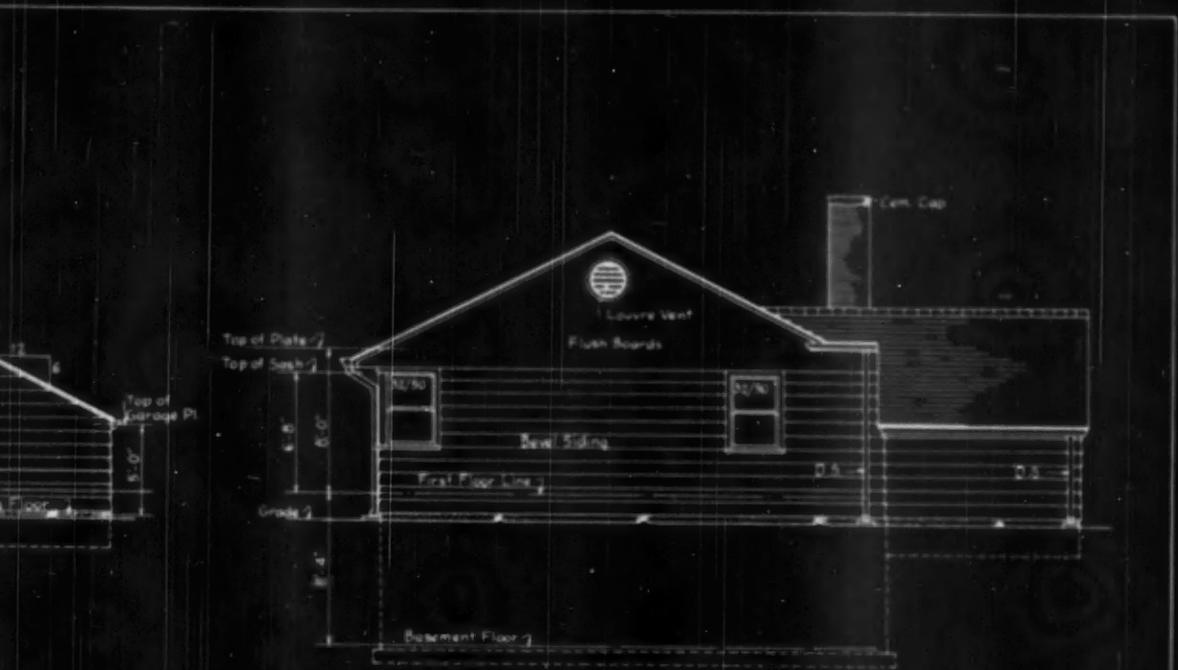
DESIGN NO A B 157  
 AMERICAN BUILDER BLUE PRINT SERIES  
 Designed By  
 GRAINGER THOMAS & BARR ARCHITECTS  
 Arcade Building Seattle Wash  
 ©Simons Boardman Pub. Corp. 79 W. Monroe St. Chicago Ill.



RIGHT SIDE ELEVATION

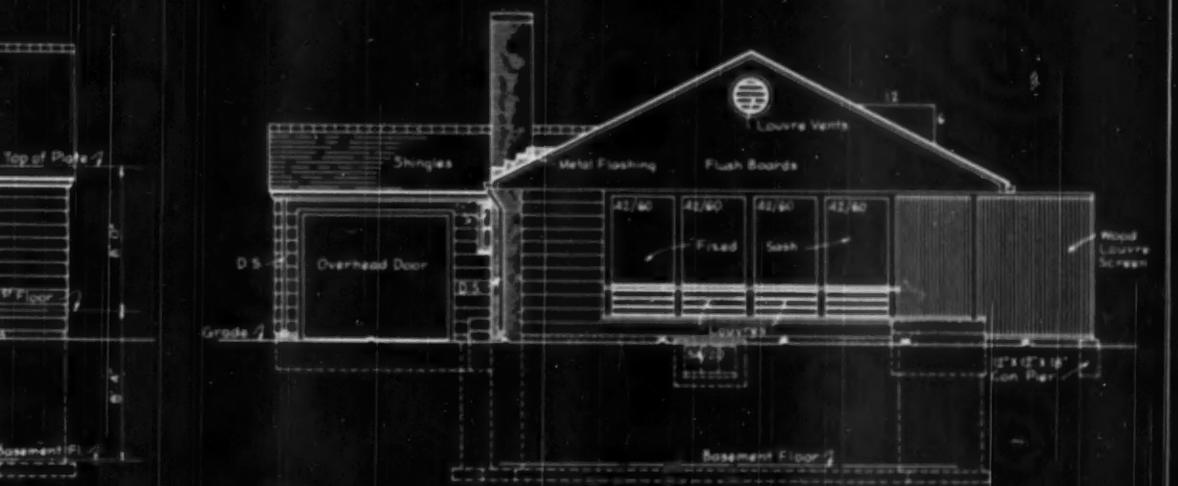


LEFT SIDE ELEVATION



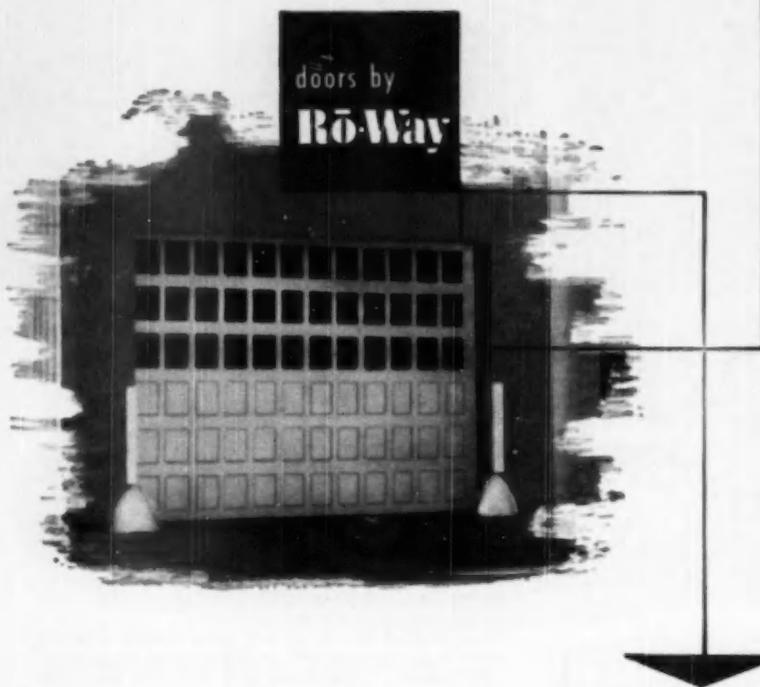
REAR ELEVATION

Scale: 1/8" = 1'-0"



FRONT ELEVATION

*what's back of this door?*



Ro-Way Overhead Type Doors are available for all Industrial, Commercial and Residential installations including a new model which requires only 2 1/2 inches of headroom.



See your classified Telephone Directory for name and address of the Ro-Way Distributor equipped to give you expert installation service.



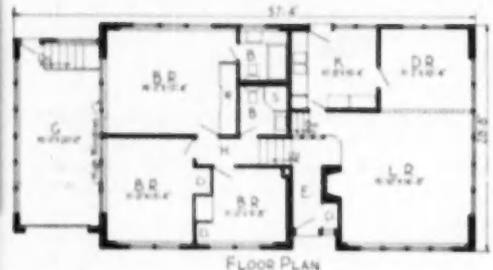
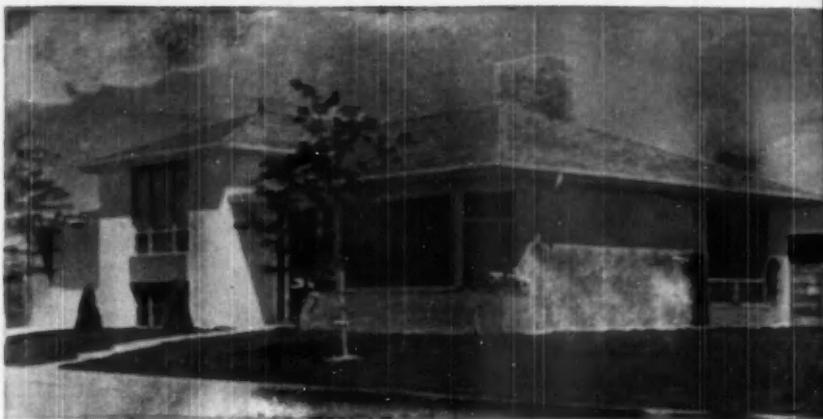
*There's a RolWay for every Doorway!*

- A Progressive Company** that has been in business for over 40 years under the same ownership and management.
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- A Sales Organization** that has always kept faith with architects, builders, contractors and home owners, so that today "Ro-Way" is the most sought after door franchise in America.
- A National Network** of selected distributors competent to counsel intelligently with architects and builders and equipped to see that every Ro-Way Door is installed right.

*That's What's Back of Every RO-WAY Door!*

**ROWE MANUFACTURING COMPANY**  
771 Holton Street • • Galesburg, Illinois

THE living rooms on ground floor, bedrooms on intermediate level and large, open basement below, form the basis for the plan of this interesting three level house shown at right. Exterior facing is natural colored stone and painted brick topped by a wood cedar shingle roof. Plan of ground and intermediate levels shown below



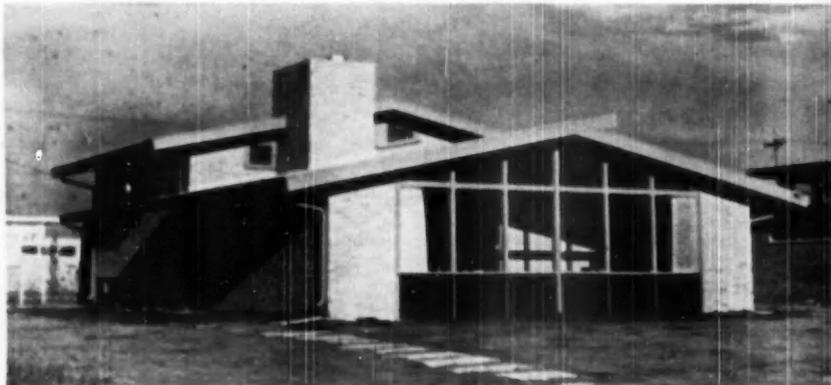
## Split Level Gains in Public Favor

THE TWO houses shown on this page are part of a development of 35 homes designed and built by Edward B. Hawkins, Denver, Colo. This development consists of a group of one-story and split-level houses, that, because of the large variety of design in each of the houses, appear to be custom-made to conform to individual requirements. To obtain this effect is the goal of every operative builder, whether they be large or small, providing, of course, that economy in building is maintained.

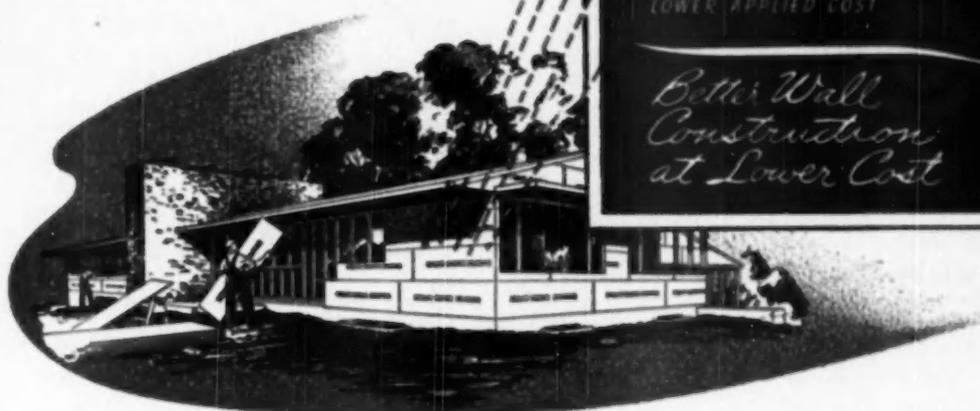
The so-called split or tri-level house appears to be the answer to the one who does not like to climb the stairs of a full two-story house. Conversely, there are those that object to the ranch or one-story house because they do not provide for a basement. The split-level house takes care of both. One half flight of stairs up to the intermediate level with bedrooms off the ground, and one half flight down to a light basement, usually just the right size.

The house shown at top of page contains approximately 1,050 square feet of living area exclusive of garage and basement area. The house at bottom of page contains 1,325 square feet of living area with the same exceptions.

ANOTHER example of a tri-level house. The living room extends across the entire front of dwelling. Ceiling line follows the pitch of roof with fixed oak extending to the underside of roof eave. Bedrooms are at the upper level of the rear unit. The ground and intermediate floor level plan is shown above



# Add up the Advantages of **BILDRITE\*** over Wood Sheathing



GREATER INSULATING VALUE  
STRONG AND STURDY  
WATER-PROOFED THROUGHOUT  
VAPOR PERMEABILITY  
HELPS CONTROL MOISTURE  
CONDENSATION IN WALLS  
LOWER APPLIED COST

*Better Wall  
Construction  
at Lower Cost*

## TWICE THE INSULATING VALUE OF WOOD

In fact, *more* than twice the insulating value. By actual tests in a laboratory "cold room," BILDRITE Sheathing proved to have 122% more insulating value than ordinary wood sheathing. That saves on fuel bills.

## 4 FT. WIDTHS OFFER TWICE THE BRACING STRENGTH OF WOOD

Here again, laboratory experiments with a MILLION pound testing machine proved that BILDRITE had more than twice the bracing strength of wood sheathing horizontally applied. Wood sheathed walls showed a  $\frac{1}{2}$ " distortion at 1,021 lbs., but it took 2,179 lbs. to cause the same deflection in walls sheathed with 4 ft. widths of BILDRITE.



REG. U.S.P. PAT. OFF. © 1930  
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BILDRITE SHEATHING COMPANY  
CHICAGO, ILL.  
8-00

## VAPOR PERMEABILITY HELPS CONTROL MOISTURE CONDENSATION AND FROST IN WALLS

In a laboratory "ice box" big enough to hold a house, tests proved condensation in walls can be controlled by sealing the warm side and venting the cold side. This is the principle of the INSULITE "Wall of Protection"—recommended and used for ten years. Sealed Lok-Joint Lath seals the warm side. Vapor-permeable BILDrite on the cold side properly "breathes" vapor towards the outside.

## WATERPROOFED . . . EVERY FIBER PROTECTED

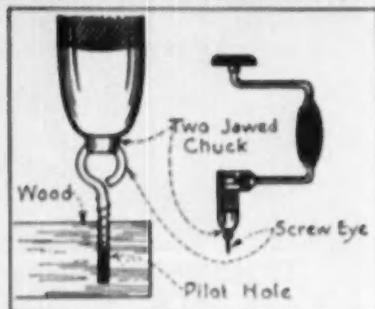
INSULITE is the original wood fiber structural insulating board—first made 36 years ago. It is waterproofed throughout—not merely a surface coating. Every fiber inside and outside is thoroughly—safely—adequately protected.

## LOWER APPLIED COSTS

To get the *real* story on sheathing costs, you have to figure the *total applied costs*. BILDRITE takes only half the time to apply (compared with wood), eliminates waste material and building paper, reduces labor insurance costs. When you add it all up and compare, your best buy is BILDRITE.

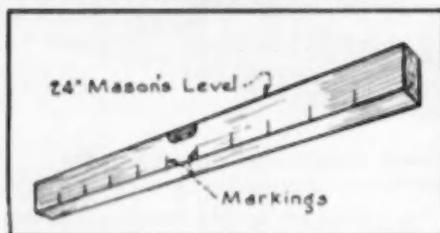
## TECHNICAL GUIDE for Builders and Craftsmen

### Easy Way to Drive Large Screw-Eyes



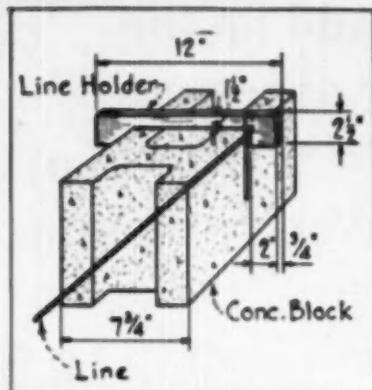
A breast drill is used to drive large screw-eyes into hardwood material. Undersized holes are first drilled as a starter, then the chuck of drill is placed over large screw-eyes as illustrated. Chuck is then released after screw-eye is in position.—Submitted by Herbert E. Fey, New Braunfels, Texas

### How to Make a Brick Scale on Level



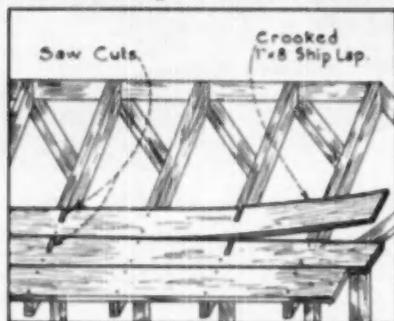
The task of laying out vertical brick joints on a wall surface for the brick mason can be greatly simplified by making a scale on the edge of level. Each space marked off on scale would represent a brick and joint, the entire length of scale to be marked off by using a sharp knife for marking.—Submitted by Oscar West, Bryan, Ohio

### How to Make a Line Holder for Laying Concrete Blocks



Wood line holder is made of  $\frac{3}{4}$  inch stock to fit snugly over top of concrete block while wall is in process of construction. This holder will work where other types run into difficulty.—Submitted by C. D. Robb, Frankfort, Ohio

### How to Nail Warped Boards on Roof



Warped or curved boards can easily be secured to roof. Mark the exact location of rafters on boards and then saw cut one side as illustrated. Crooked board is drawn up tightly.—Herbert E. Fey, New Braunfels, Texas

HOW TO DO IT \* HOW TO DO IT

## G-10 ... Shoe Display Case

DISPLAY units, placed in strategic positions, often complement the displays shown in the exterior show window. They become a sales medium of inestimable value. The display case detailed on opposite page is located directly in front of top of stairs leading to basement and consequently is seen and examined by many of the people that frequent this shop.

The problem before the designer was to create a shoe display case whereby the merchandise could be protected from the public, and yet afford a clear, unobstructed view of the entire content of the display. To protect the merchandise placed in the case from being handled indiscriminately by the public, intervals of plate glass were installed

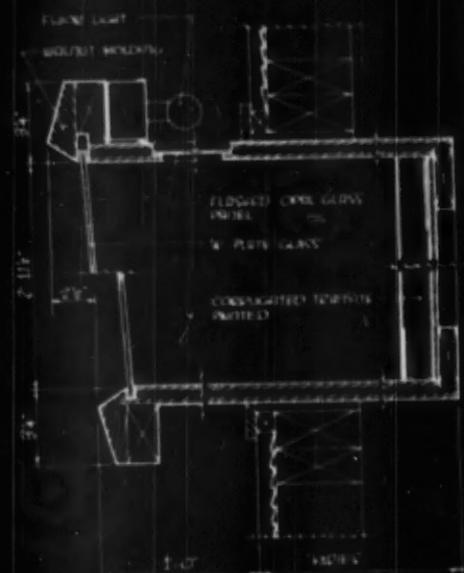
with open spaces between each length of plate glass. The open spaces are used for trimming purposes. Each length of glass can easily be removed by simply lifting and pulling out. This arrangement of glass gives the effect of an open display and yet does not permit the handling of merchandising displays.

The trim and return panels, both inside and out, are finished in bleached solid and walnut plywood panels. The interior background finished in plywood and corrugated transite is painted white and turquoise. The wall into which the case is recessed is painted a chartreuse shade. The floor of case is covered with rubber tile in a grayish green and white marbleization.

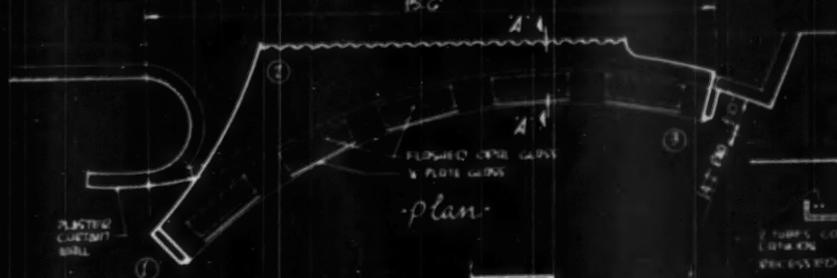
# AMERICAN BUILDER'S STORE FRONT DETAILS

Designed by Louis J. Glavin for American Builder

## G-10 SHOE DISPLAY CASE



National Shoe Store N.Y.C.



Section A-A



Typical section



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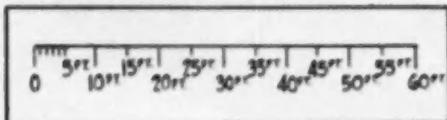
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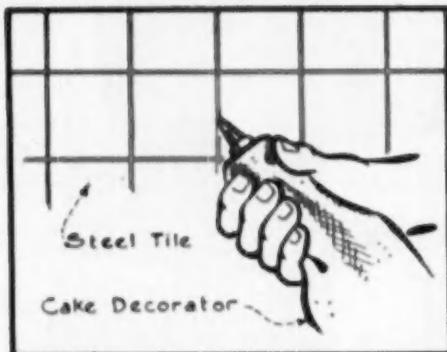
## TECHNICAL GUIDE for Builders and Craftsmen

### How to Scale Plans that are Printed in Magazines



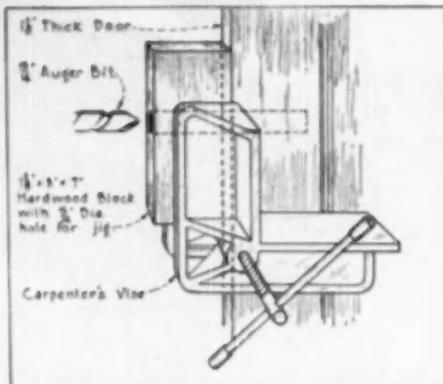
Use the bathtub as a unit of measurement and assume that it is five feet long. A small scale such as illustrated above can quickly and easily be made on this basis. The scale can then be used to measure any portion of the plan.—Submitted by J. G. Caldwell, San Mateo, Calif.

### How to Fill Joints of Steel Tile



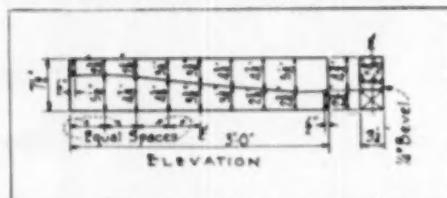
When installing steel tile on vertical wall surfaces use a cake decorator for filling in the joints in place of using a portion of the hand. This method keeps hands and tile clean and makes a neat job.—Submitted by LeRoy Bradley, Lorain, Ohio

### How to Arrange a Bit Guide for Boring Holes for Door Locks



Guiding the bit is essential when drilling a hole for lock plunger or striker in end face of 1-3/4-thick door. This is best done by clamping a carpenter's vise to the face of door and inserting a hardwood block guide, which has a 3/8 inch drilled hole, into the jaws of vise. The auger bit is then held in a level position for drilling by the guide.—Submitted by Fred Friedh, Logan, Utah

### How to Make Brackets for Door Hood



By following the method indicated in the illustration a pair of wood brackets can be made from one piece of fir or cypress material with no waste. The brackets can be cut out with a hand saw.—C. D. Robb, Frankfort, Ohio

HOW TO DO IT \* HOW TO DO IT

## No. D-69 ... Garage Ventilator and Bird House

**V**ENTILATORS on top of garage roofs, while not required by law, are a safety measure well worth considering, especially when the garage is made a part of the house. Fumes from the car that are often retained within the garage need to find a natural and easy way of escape and this can be accomplished best by means of a roof ventilator.

In addition to its practical value the ventilator or cupola, as it is often called, can be a distinct architectural feature and enhance the appearance of the complete unit of house and garage. This type of feature adapts itself well where the garage is connected to the main part of the house by breezeway or porch.

Cupolas can take a number of different forms and sizes. Two of these types are shown in detail on opposite page. One is devoted primarily to ventilation of garage through

the use of stationary louvres placed on all four sides of cupola. Roof rafters are framed under this unit for support.

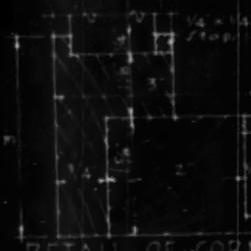
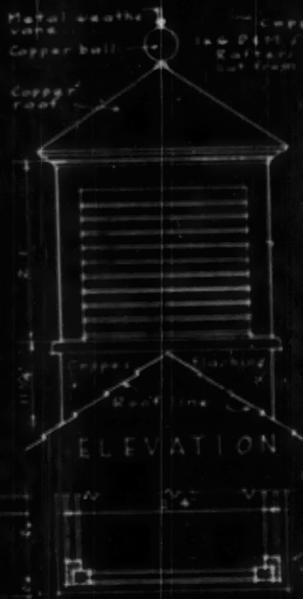
The other type indicates the use of the exposed portion above the roof as a bird house, with perforations made on all four sides, the size of openings to be governed by the kind of birds to be attracted. The roof sheathing over the main rafters under the cupola are to be laid with open joints, joints to be of a width to prevent birds from flying into the garage. The floor in the three levels of the bird house are to be laid in open joints to permit air to circulate through and ventilate the garage.

Size is of prime importance in the design of a cupola. This feature should be scaled in proportion to the garage structure and the roof and should be securely anchored to the roof framing.

# AMERICAN BUILDER'S BETTER DETAIL PLATE

Designed by R. J. Alexander for American Builder

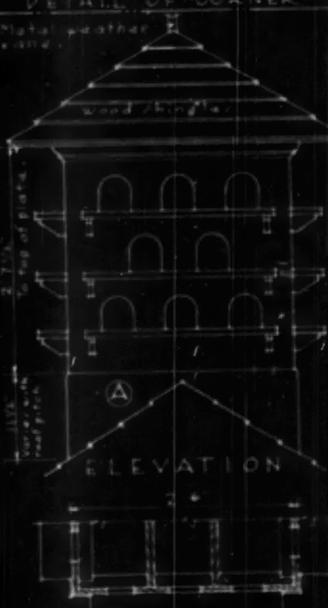
## NO. 69-VENTILATOR AND BIRD HOUSE



ELEVATION

VERTICAL SECTION

DETAIL OF LOUVER



ELEVATION

VERTICAL SECTION

DETAIL AT A

## For jobs that are "off the beaten path" . . .

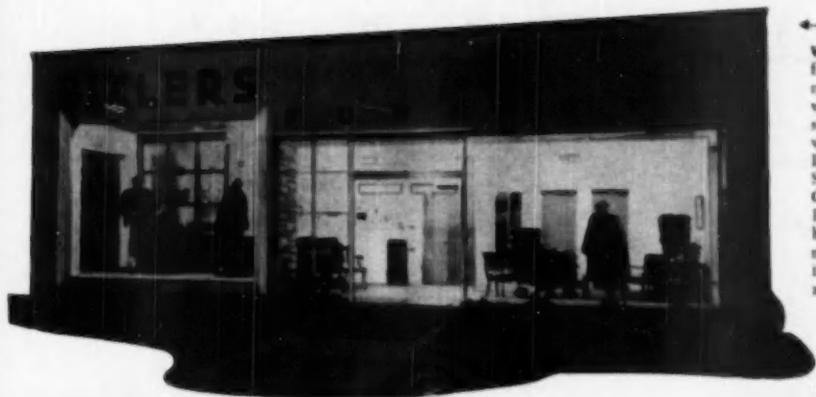


**IN MANY RANCH-TYPE** houses the trend is toward a fixed window wall, with louver-type ventilator. Here's something that homeowners will appreciate. For this construction, offered by Solar Air-Flt, Inc., Elkhart, Indiana, gives an unobstructed view through the Pittsburgh Twindow panels, with adequate ventilation and insulation. And louvered sections may be placed at top, bottom or sides of Twindow panels, according to design requirements.

**THIS CUTAWAY** shows the construction of a Twindow unit with two panes of Pittsburgh Plate Glass. The hermetically-sealed air space between the panes provides effective insulation which minimizes downdrafts, cuts heat losses through windows, reduces condensation. Insulation is even more efficient when three or more panes are used. There are forty-five standard sizes available, adaptable either for wood or steel sash.



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← **WHEN YOU BUILD** or remodel a store front, you'll find that profit-wise merchants are already impressed with the advantages of "open vision." They know that that's the ideal way to show off their merchandise. Here, Pittsburgh Products (Carrara Structural Glass, Polished Plate Glass, Pittsburgh Doorways, Pitco De Luxe Store Front Metal) have been effectively used to build a store front of distinction—eye-catching and sales-winning. Always tell merchants that you are using Pittsburgh Products when you bid on a job. You'll find your selling job much easier.



← **HERE'S VALUE** that can be seen and appreciated by the modern homemaker—Carrara Structural Glass on the bathroom walls. Carrara is easy to clean, lasts indefinitely, and is available in ten attractive colors to harmonize with any decorative scheme. Notice also the decorative panel above the tub, one of the many decorative possibilities inherent in Carrara Glass. The smart Plate Glass shower enclosure also is a feature that is highly appreciated by homeowners.

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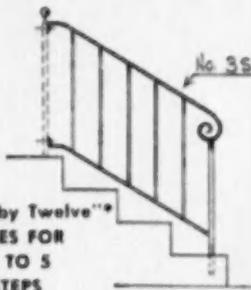
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HORIZONTAL  
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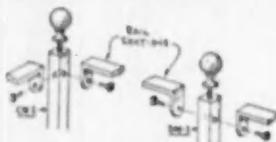
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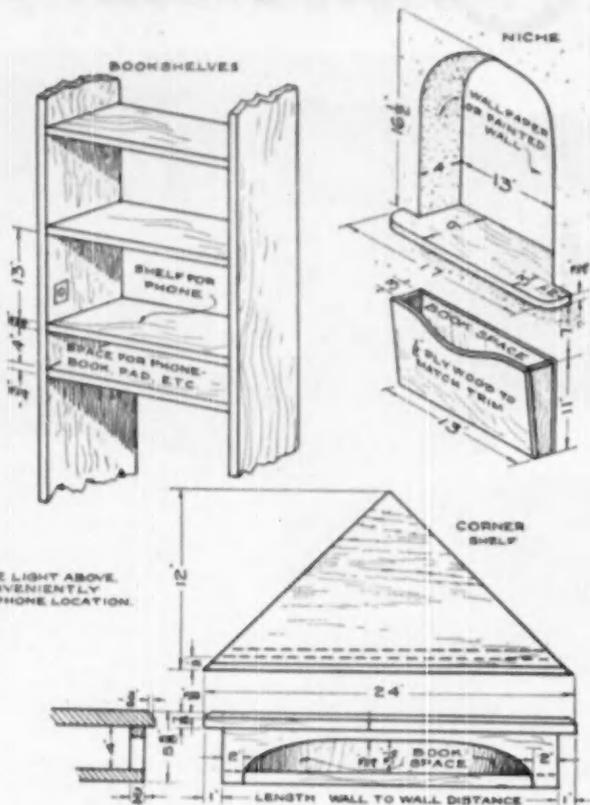
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# TECHNICAL GUIDE for Builders and Craftsmen

## How to Provide for Convenient Telephone Niches



WHERE to place the telephone is a problem in many new homes. Despite its importance to family needs the telephone is often poorly located, whether in the living, dining room, or elsewhere. The telephone niche illustrated above provides a location that can be convenient to all the members of the family at all times.

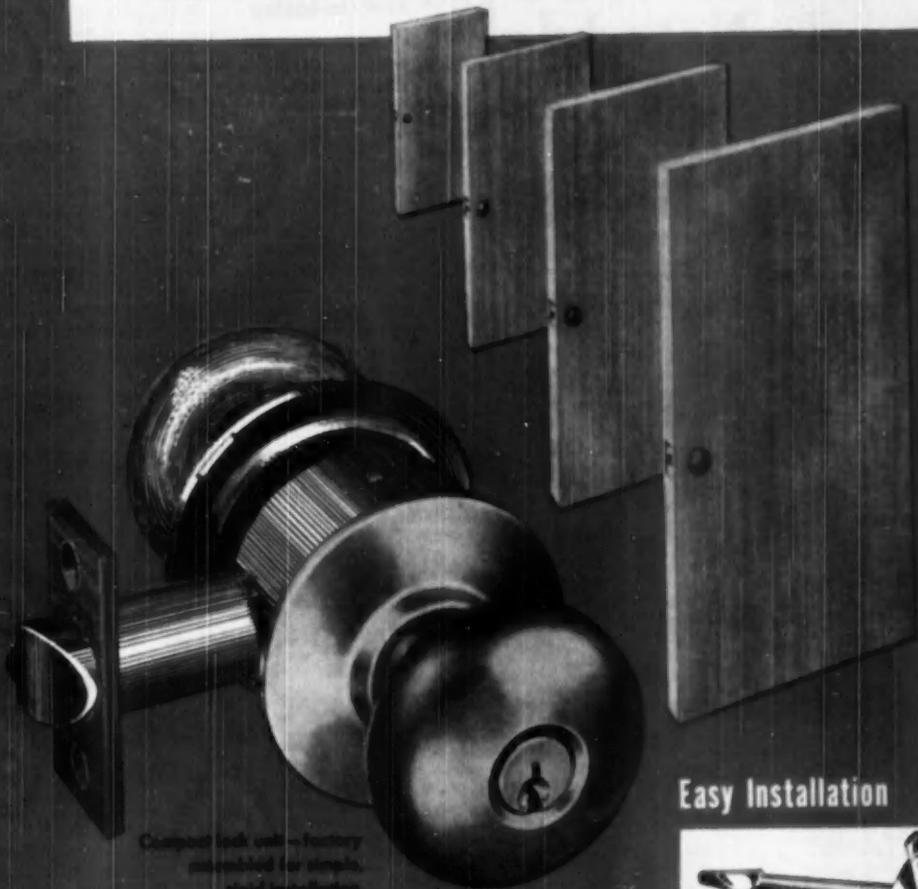
Whether it be for a new home or a remodeling job, the telephone shelf is not difficult to install. It is designed to fit the space between two studs—studs or 2x4's being normally 16 inches on centers. The clear area between studs will allow space sufficient to box in the shelf as illustrated. If it is built according to the dimensions given it will not protrude excessively into the room. It is well to have a light outlet located in the niche or shelves or located conveniently close by. This in-

stallation is easily done during remodeling when the wall is open, by installing wires from the nearest outlet.

The corner shelf could be located in any central and convenient corner. Height of shelf from floor is the same as that of any ordinary table. A double shelf arrangement could be made, if desired, to care for the telephone directory, pad of paper, and pencils. Using space in open book shelves is another way of arranging for a telephone installation as shown in illustration. The selection of design and construction of this job will depend on the general interior appointments, whether it is English, Early Colonial, Spanish or other influence. Niche and shelves should be finished to match the trim of the room.—Submitted by Harold O. Akeson, East Orange, N.J.



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(Schlage No. 914 bit)

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**REAL ESTATE**

# Early Start, Heavy Volume Is Noted In Home Building Here

By EMMETT PETER, JR.  
 Tribune Real Estate Editor

Many of the so-called experts in the building industry shook their heads when E. O. Gavin, editor of *American Builder Magazine*, predicted that home building would get underway earlier this year than last year's volume.

BOSTON, MASS.  
 Christian Science Monitor  
 Cir. D. 165,021

# U.S. Told to 'Build Up' Slums

Special to The Christian Science Monitor

Chicago

The way to rid the cities of slums is not to tear down buildings but to bring them up to the standards required by health regulations and building codes.

"Owners who fail to have the needed work done," the editor stated, "are taken before a special housing court where heavy fines are assessed."

Mr. Gavin contended that programs like the Baltimore plan would remove any bureaucratic barrier for enormously expensive housing projects and tax funds.

The cost of improving Baltimore was figured as \$400 for each unit. But this also intrudes the value of the property, which is averaging increases of 10 percent.

CLEVELAND, OHIO  
 PLAIN DEALER  
 Cir. D. 271,827 - S. 454,718

# Builders Urge Local Voting on Public Housing Projects

The building industry believes that home owners should insist that local decisions on federal public housing be made by referendum vote, E. G. Gavin, editor of *American Builder*, declared yesterday.

HAMMOND, IND.  
 TIMES  
 Cir. D. 35,350 - S. 38,025

# Cinder Block Gains in Use As Home Building Material

Cinder block is proving to be a highly satisfactory material for residential construction in northern climates, says *American Builder* magazine.

Cinder block is a type of concrete block in which the aggregate is cinders instead of sand and gravel. Its use as a major material in home building has been made possible by progress in manufacturing techniques and by many developments in waterproofing compounds, *American Builder* explains.

As an example of modern cinder block construction, the building industry magazine describes a house built in New York. *American Builder* says the do is "practically fireproof" because of a cinder block siding of resistant asphalt shingles, which cannot readily be kindled by flying sparks.

When given a cement stucco finish, the walls were painted with waterproofing compound to prevent harmful condensation water.

Interior floors are finished with a waterproofing compound.

NEW YORK, N. Y.  
 TIMES  
 Cir. D. 541,269 - S. 1,077,060

# VENTILATION SAVES PAINT

Excess Moisture Inside House May Blister Coating on Outside

Too much moisture inside a house sometimes causes paint on the outside to blister and peel, according to *American Builder*.

# AMERICAN BUILDER

Authoritative... Most Widely Quoted

Newspapers throughout the United States regularly use "American Builder" as the authority when discussing home building and the light construction industry

AT LEAST 3,000 newspapers, with a total circulation in excess of 50,000,000, regularly feature *AMERICAN BUILDER* in their news and editorial columns. No other publication serving the building industry is as widely quoted.

Why? First, newspaper editors recognize *AMERICAN BUILDER* and its editors as alert, authoritative, and qualified spokesmen for the building industry.

Second, a business publication has an obligation to its industry as well as to its readers and its advertisers. *AMERICAN BUILDER*, conscious of this responsibility, is continuously channeling facts about the progressiveness of the industry to newspapers. *AMERICAN BUILDER* sees it that newspaper editors get the facts.

A few of the stories which have been appearing in newspapers recently quoting *AMERICAN BUILDER* are reproduced on this page—just a few, as 10,000 is a conservative estimate of the number of stories which newspaper subscribers, your buyers, are reading every month.

SIoux CITY, IA.  
 JOURNAL  
 Cir. D. 57,675 - S. 6,258

MAY 21 1950

# Engineer Urges Use of Various Types of Lighting

The fluorescent lighting is worse than none at all, D. Westerberg of the electrical engineering department of Western university. Writing *American Builder* magazine, he urged the use of various types of lighting.

TULSA, OKLA.  
 TRIBUNE  
 Cir. D. 60,844

MAY 17 1950

# Soft Water Reduces Operating Expenses

Soft water is essential for softening cuts household operating expenses, and provides longer life for pipes and drains, says *American Builder* magazine.

It is estimated that the cost of water averages from \$1.50 a year, depending on the amount of the water and the size of the family," the magazine says. "Probably the most widely used water-softening systems are those which employ the zeolite process," *American Builder* says. "Zeolite, a durable chemical, is used in a water-softener which may be installed in the

PASADENA, CALIF.  
 STAR-NEWS  
 Cir. D. 32,607 - S. 32,607

JAN 29 1950

# Color Favored for Fixtures in Bathroom

Demand for colored bathroom fixtures has increased sharply since the war, says *American Builder* magazine.

"Not only are colored plumbing fixtures more popular today than ever before but there has been a decided change in color preferences," the magazine says. "Before the war, ivory was the most popular color. Today tan, green and blues are at the head of the parade."

*American Builder* also points out that the plumbing industry now has a wide variety of colors to choose from, and that this has made the list.

SOUTH BEND, IND.  
 TRIBUNE  
 Cir. D. 92,745 - S. 91,040

JUN 4 1950

# POOR CHIMNEY WASTES FUEL

Faulty chimneys usually are the cause of wasteful fuel combustion in home heating plants, says Guy A. Voorhes, technical secretary of the National

PORTLAND, ME.  
TELEGRAM  
Circ. 5, 6, 57

FORT WAYNE, IND.  
NEWS-SENTINEL  
Circ. D. 75,441

ALTOONA, PA.  
MIRROR  
Circ. D.

JUN 3 1950

MAR 25 1950

### Heating System For Basementless Homes

A radiant-forced warm air heating system has been developed to meet the need for a satisfactory low-cost method of heating basementless houses, according to American Builder magazine. Warm air is distributed through ducts under the floor at the perimeter of the house. Radiant heat rises from the ducts up into the walls. In addition, warm air

### Weather Affected Lumber Market, Editor Declares

Don't blame the lumberman for rising lumber prices. Blame the weather.

E. G. Gavin, editor of American Builder magazine, says lumber production has been held down by unusually heavy snow storms in the U. S. lumber areas and by export to the South.

There appears to be no big building on the part of any of the big builders, including International, Ayala, Smith and dozens of others.

Another private-enterprise house is scheduled to "break ground" in February.

Every indication points to an heavy year in both business and general construction.

One big factor in the early structural volume, often overlooked by the National Service Life Insurance refund which veterans will receive between now and June. Most developers are frankly asking for checks.

They contend there's no way a veteran could invest than in a good home. You can bet estate people in these battle-dealers and scores heavily windfall.

RUSKIN G. COURIST.

BOSTON, MASS.  
GLOBE (Sunday)  
Circ. W. 381,517

### HOME COLOR SCHE

ST. PAUL, MINN.  
PIONEER-PRESS  
Circ. D. 97,651 S. 145,901

APR 23 1950

### Double-Glazed Glass Reduces Heating Cost

Double-glazed glass makes possible the use of large windows in homes, reduces heating costs, and minimizes cold drafts of air, says American Builder magazine of the building industry.

The magazine explains that a double-glazed window consists of two panes of glass separated by a hermetically sealed space. Installations of this kind are used for most picture windows.

Originally available on a custom-made basis only, these windows are now produced in a number of standard sizes. They offer a practical answer to heating and air-conditioning problems when large windows are desired, American Builder says.

A half-inch air space between the two panes of glass is needed. This air space has insulating qualities. The pane of glass holds the temperature of the room, while the pane stays at the outdoor temperature.

In winter, double-glazed greatly reduces the amount of heat that escapes out through the window. In summer, it limits the amount of heat that can enter.

American Builder tells owners and prospective double-glazed

ROCHESTER, N. Y.  
Democrat & Chronicle  
Circ. D. 104,811 - S. 155,723

1950

### Power Tools Make Building Gains Possible

POWER tools are used in constructing every house built today, making possible the present production rate of a million homes a year.

### Kitchen Color Ideas Approved

Colorful decorating schemes for kitchens are being widely accepted in place of the cheerless hospital whiteness common during the last few decades, says American Builder, home building industry magazine.

The trend toward decoration is toward colors which reflect the personality of the housewife. The magazine explains. Selection of a color scheme thus has become the first step in home building.

FLINT, MICH.  
JOURNAL

Circ. D. 69,569 - S. 68,186

noted-vinyl flooring. All these materials the magazine says, are available in both solid colors and variegated patterns.

The Colors Permannent Kitchen floor materials are permanent resistant to chemicals and strong cleaning solutions.

American Builder says approved kitchen wall materials include paint or wallpaper on walls, are panels and tiles with metal moldings at the joints, linoleum, wall-flex, chrome zinc asbestos-cement boards with metal tiles and panels are adaptable for modernization as well as new construction, the magazine says.

Banking a kitchen, a more intimate room in which to work, is one of the suggestions.

Color combinations suggested include the use of several different materials. American Builder says to reduce the cost, do it in stages, on the type of material which has proved popular in the use of wall panels on the use of

CHARLOTTE, N. C.  
OBSERVER

Circ. D. 131,184 - S. 137,607

home Beatrice West began to use gray-stained red brick on an end wall with contrasting accent color on brick on an end wall with

rged In  
on of  
Scheme

of should  
with the name

HARRISBURG, PA.  
NEWS (Evening)  
Circ. D. 65,124

Inefficient  
Planning  
Housewife

Inefficient arrangement of range, refrigerator, sink, cabinets and counters can cause a housewife to spend twice as much time and effort

frigerator, sink, cabinets and counters can cause a housewife to spend twice as much time and effort

### Extra Electrical Capacity Used May Save Expensive

ter

JACKSONVILLE, FLA.  
TIMES-UNION  
Circ. D. 125,889 - S. 130,640

w houses  
money by  
systems  
necessary,  
c maga

### Paint Quality Small Portion Of Job's Cost

of painting usually are three times the cost of the paint itself, says American Builder magazine. Because of this, a large portion in the price of materials goes to the total cost of a paint job by only a relatively small percentage.

durability, appearance, cost of painting and similar factors are much more important than the cost alone, the magazine says. All of these qualities should be considered in paint selection. For use in homes, low cost paint is considered suitable only if frequent redecoration is desired. However, a durable paint should be used as a priming coat to minimize the expense of surface preparation and repainting. American Builder

### Industry Shaping Home Week Plans

National Home week, conceived two years ago as a springboard to call attention to the home building industry's achievements and progressiveness, will be observed this year from September 16-17, according to E. G. Gavin, editor of American Builder magazine.

Executives of the National Association of Home Builders, the National Retail Lumber Dealers Association, the National Association of Real Estate Boards, building material manufacturers and

been observed into every crossroads where there is a builder or a building material dealer.

To give the program over-all direction, American Builder will co-ordinate the campaign at the national level.

A spot check of builders in 17 metropolitan areas by American Builder revealed sales of more than 7,000 homes valued in excess of \$63 million during National Home week in 1949.

frigerator, although a small refrigerator might be installed

Save Time  
... Cut Costs

with B & T's complete line of

**CHROME**

**Tap-N-Rol**  
Metal Trims

TAP-N-ROL  
SINK  
FRAMES!

735 TR

For heavy and light standard  
also  $\frac{1}{2}$  material

735 TRD

030" to 1.16" plastic laminates

WATERPROOFING  
TRAPS

735 TR WB

For material from  $\frac{1}{2}$ " to 5.32" thick

TAP-N-ROL  
COUNTER  
ROSLINGS!

123 TR

23 TR

For 1.16" to 3.32" materials

123 TR WB

23 TR WB

For 3.32" to 5.32" materials

\*Manufactured under U. S.  
Patents Nos. 128,793  
and 2,758,314. Other  
patents applied for.

No matter what kind of covering materials you use on sink tops, you'll find it a lot easier and faster to get a job that stays neat and watertight, with all edges permanently anchored, when you use Chromedge Tap-N-Rol nosings. For one thing, you get away from having to scribe and cut coverings to hairline accuracy. It's easy to tap the lip of the trims down firmly over edges of the covering, forming a deep lip recess that gets a firm grip on the material. In addition, special grooves trap waterproof cement where it does the most good, forming a moisture seal that can't be beat! You avoid call-backs — and make more profit!

In the Chromedge "735" series, one-piece welded sink frames are available in all sizes, for all coverings up to 5/32". For matching effects on sink-top counter edges,



use Tap-N-Rol nosings. Tap-N-Rol nosings are also available in preformed frames, or can be formed on the job for either round- or square-cornered frames, by cutting or noching the flanges as required.

**B & T**  
Metals Co.  
Columbus, O., Ohio

## Catalogs and

### HOW-TO-DO-IT INFORMATION

**776—APARTMENT TELEPHONE SYSTEMS AND MAIL BOXES**—A 24-page bulletin, No. 160, published by the Auth Electric Co., 34-20 Forty-fifth St., Long Island City 1, N.Y., features a variety of inter-apartment telephone systems, apartment mail boxes, and telephone-mail box combinations, along with data on wiring and installation.

**777—BATHROOM ACCESSORIES**—Wide variety of bathroom accessories for almost every need are included in new literature available from Reliable Metal Novelty Co., Inc., 46 N. Second Ave., Mount Vernon, N. Y.

**778—"GLAMOUR WITH GLASS"**—Attractively illustrated 22-page catalog published by Pittsburgh Plate Glass Co., 632 Duquesne Way, Pittsburgh, Pa., shows several different ideas for use of glass in the home.

**779—STEEL KITCHEN CABINETS**—Features and specifications of Jamestown White Steel kitchen cabinets are presented in a new catalog offered by Jamestown Metal Products, Inc., 178 Blackstone Ave., Jamestown, N. Y. Several illustrations are shown.

**780—METAL TILE**—"Tile In The Modern Manner" is the title of an attractive catalog offered by Hilton Manufacturing Co., 2525 Hilton Rd., Ferndale 20, Mich., which presents a recent development in insulated metal tile.

**781—POWER TOOLS**—Heavier power tools for use with wood, metal and plastic are described in a two-color, 36-page catalog issued by the Walker-Turner Division of Kearney and Trecker Corp., Plainfield, N.J. The well-illustrated booklet gives complete specifications and operating conditions for each machine.

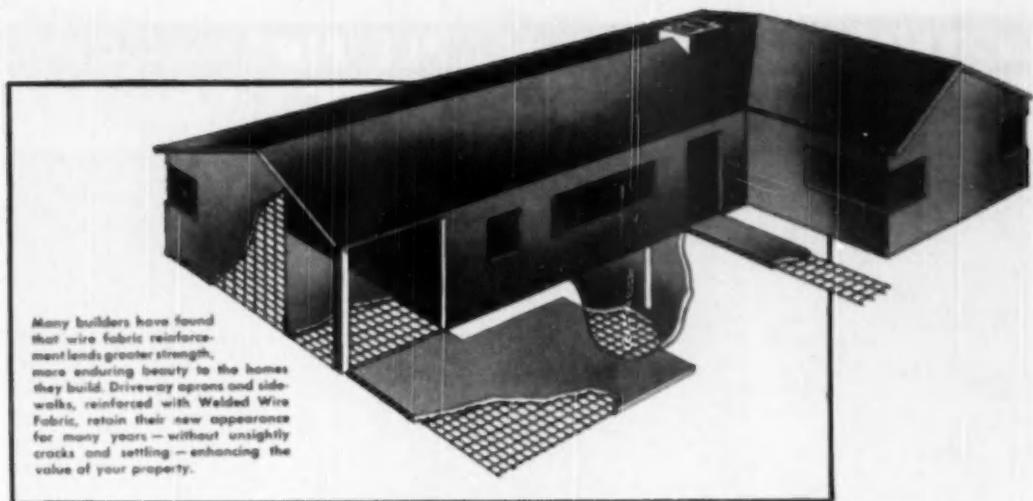
**782—HOME FREEZER**—An attractive color folder distributed by the Kelvinator Division of Nash-Kelvinator Corp., Detroit 32, Mich., shows 1950 freezer models ranging in size from six to 20 cubic foot food storage capacity and includes specifications and operating features.

**783—STEEL DOOR FRAMES**—A booklet published by the Richmond Fireproof Door Co., Richmond, Ind., gives illustrations, specifications and installation details for the firm's factory-assembled and welded steel frames; and knockdown frames, assembled by the contractor.

**784—WATER SOFTENER**—An attractive loose-leaf booklet, "Why Permutit?" outlining the features of its water softener has been issued by the Permutit Co., 330 W. 42nd St., New York, N.Y. The material is interestingly presented and well-illustrated.

**785—STEEL BASEMENT WINDOW**—Detroit Steel Products Co., 3101 Griffin St., Detroit 11, Mich., has published a two-color bulletin, "The New Fenestra Steel Basement Window." Included are sizes, construction features and installation details.

**786—ELECTRIC HEATERS**—Two brochures distributed by the Electromode Corp., 43 Crouch St., Rochester 3, N.Y., feature electric room heaters and unit heaters.  
(Continued on page 126)



Many builders have found that wire fabric reinforcement lends greater strength, more enduring beauty to the homes they build. Driveway aprons and sidewalks, reinforced with Welded Wire Fabric, retain their new appearance for many years — without unsightly cracks and settling — enhancing the value of your property.

## To keep that "new look" longer *American Welded Wire Fabric*

**Y**OU can offer prospective buyers homes that will *stay* new by reinforcing concrete construction with American Welded Wire Fabric. Foundations, basements, floors and walls are joined into a single unit by the continuous reinforcement of American Welded Wire Fabric. Seepage and dampness, undue settling . . . which usually results in cracked plaster, warped baseboards, bulging wood floors . . . are prevented.

Sidewalks, curbs and driveways, too, stay free from unsightly cracks and fissures, hollows and hillocks, insure the good looks of home surroundings when you use American Welded Wire Fabric reinforcement. The many small, evenly spaced cold-drawn high strength members of Welded Wire Fabric fortify the entire concrete slab.

Make sure your new homes and the plots they occupy will remain good looking. Use the proper design and gauge of U·S·S American Welded Wire Fabric for each installation in house foundations, walls and floors

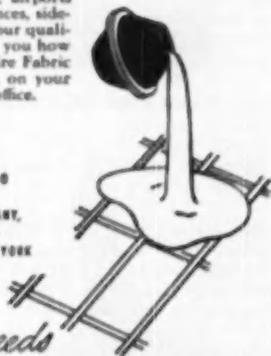
and in the sidewalks, driveways and curbs that help adorn the home grounds.

You can get U·S·S American Welded Wire Fabric in every locality from jobbers' and dealers' stocks.

### *Complete Information and Guidance*

It will pay you well to get the latest information on American Welded Wire Fabric. Send today for our illustrated folders, which show typical uses of wire fabric reinforcement in factories, farms, airports and public buildings, as well as in residences, sidewalks, curbs and driveways. If you wish, our qualified experts will be glad to call and show you how you can use U·S·S American Welded Wire Fabric to the best advantage. Just drop a line, on your business letterhead, to our nearest sales office.

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*

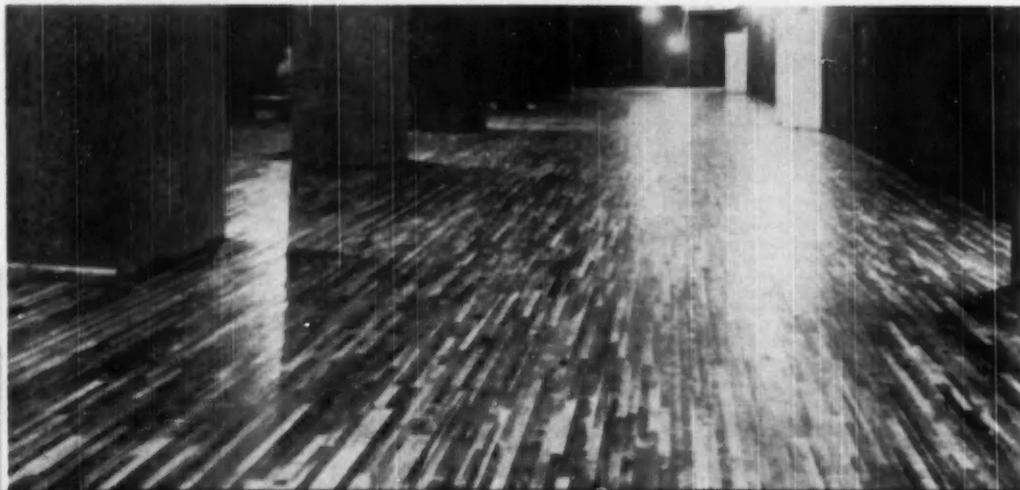
**AMERICAN WELDED WIRE FABRIC**  
*reinforcement*



UNITED STATES STEEL

# CONNOR LAYTITE MAPLE FIRST AGAIN

The Minnesota Mining Company recently chose Connor "Laytite" Maple, third grade, 1/2" face to floor the warehouse pictured below. "Laytite" is made under Maple Flooring Manufacturers Association specifications and is famous for uniform quality. Write for prices.



## CONNOR LUMBER AND LAND COMPANY

P. O. BOX 112 • TELEPHONE 3 OR 418 • TELETYPE 26 • MARSHFIELD, WISCONSIN  
CONNOR FOREST PRODUCTS SINCE 1872

## Catalogs

(Continued from page 124)

Illustrated and described are kinds of installations, installation details and specifications. A number of models are shown of both heater types.

**787—FARM BUILDINGS**—The uses of glass block in farm structures are illustrated and discussed in a new eight-page brochure, "Outstanding Farm Buildings," released by the Pittsburgh Corning Corp., Pittsburgh, Pa.

**788—FANS AND BLOWERS**—A new catalog published by the Chelsea Fan and Blower Co., Inc., Irvington 11, N.J. (After August, 1950: Plainfield, N.J.) presents illustrations, performance data and other information on fans and blowers for a wide variety of uses.

**789—HEAT AND HOT WATER UNIT**—"The National Packet," a new automatic oil-fired heat and domestic hot water unit is described and illustrated in a four-page three-color catalog, No. 572, a publication of the National Radiator Co., Johnstown, Pa.

**790—STEEL KITCHEN CABINETS**—An attractively illustrated consumer folder, "Planning Your Kitchen is Fun," is being offered by the Berger Manufacturing Division of Republic Steel Corp., Canton 5, Ohio. Complete kitchen layouts are shown, as well as individual cabinet features.

**791—HARDWARE FINISH AND SYMBOL CHART**—A chart listing all the common builders' hard-

ware finishes with symbols as established by U.S. Bureau of Standards is being distributed by the Ajax Hardware Manufacturing Corp., 4351 Valley Blvd. Los Angeles 32, Calif. Also charted are 29 manufacturers with their respective symbols corresponding to those of the Bureau of Standards.

**792—TWELVE MACHINES IN ONE**—A single machine that will do crosscutting, ripping, jointing, dadoing, routing, boring, sanding, and many other jobs is described and illustrated in a new 4-page brochure issued by The Master Woodworker Manufacturing Co., Brush and E. Fort Sts., Detroit, Mich.

### SERVICE COUPON—CLIP and MAIL to CHICAGO

Readers Service Department

(August, 1950)

American Builder

79 W. Monroe St., Chicago 3, Ill.

Please send me additional information on the following product items, or catalogs, listed in this department:

Numbers .....

Name .....

Street .....

City .....

State .....

OCCUPATION\* .....

\* Please note that occupation must be stated if full service is to be given.

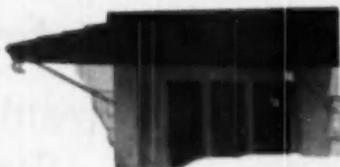
AMERICAN BUILDER



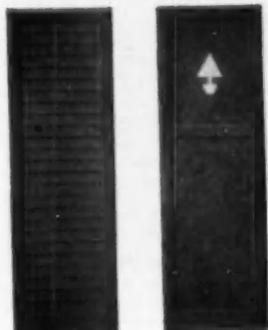
Window Awning  
Assembled permanent type  
Sizes 30", 36" and 42" widths  
Colors Tile Red, Green or Blue



ARISTOCRAT  
MAIL BOXES



Door Canopies  
Size 48" and 54"  
Assembled permanent type  
Colors Tile Red, Green or Blue



Louver Ornamental Shutters Panel



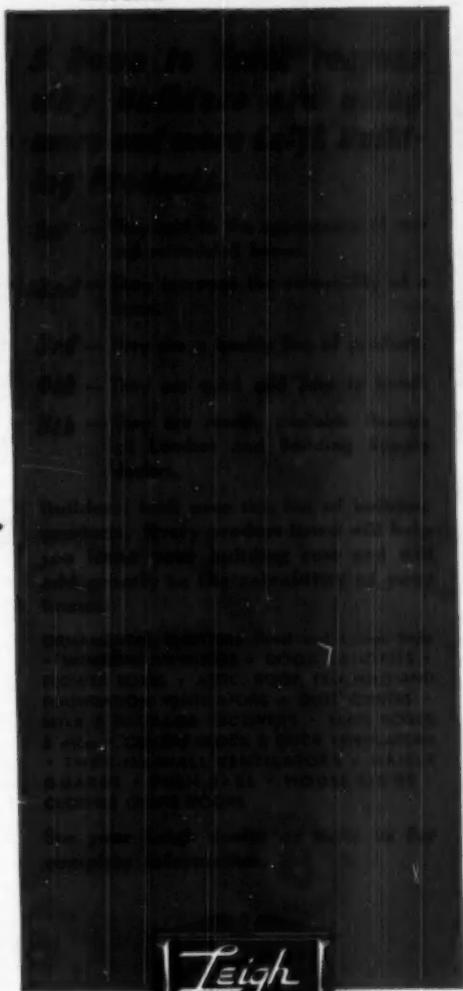
ROOF VENTILATORS



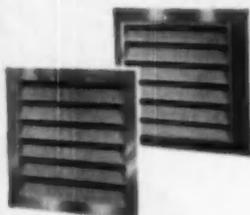
FOUNDATION VENTILATORS



CLOTHES CHUTE  
DOORS



FLOWER BOXES  
36" LONG AVAILABLE IN 3 COLORS



ATTIC VENTILATORS



PUSH BARS



PACKAGE RECEIVERS

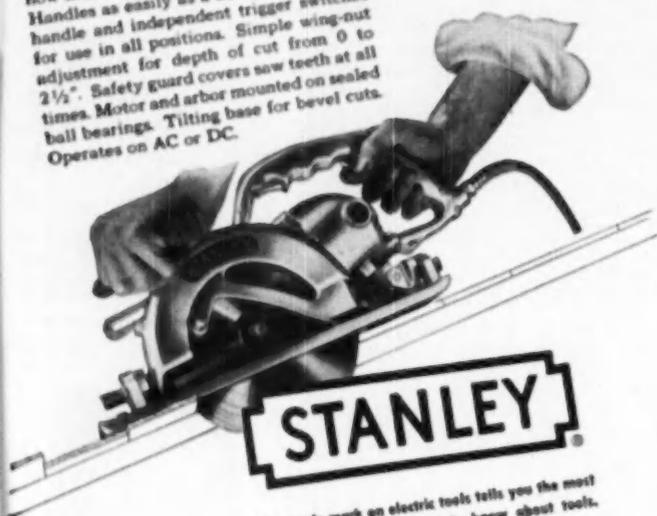


"KITCHEN MAID"  
BUST CHUTES

LEIGH BUILDING PRODUCTS DIVISION  
of The General Products Co., Inc.  
DORCHESTER, MASS.      1930      McCallum

# Cut the time from "framed" to "finished" with a Stanley W7 Safety Saw

Make the most of the skill you pay for. Give a good man a Stanley Safety Saw and discover how much better he can be, how much further he can spread his skill. Handles as easily as a hand saw. Duplex handle and independent trigger switches for use in all positions. Simple wing-nut adjustment for depth of cut from 0 to 2 1/2". Safety guard covers saw teeth at all times. Motor and arbor mounted on sealed ball bearings. Tiltng base for bevel cuts. Operates on AC or DC.



This trade mark on electric tools tells you the most important thing you want to know about tools.

When you buy an electric tool you have to take somebody's word about gears, motor, bearings, shaft, switches, power, etc. Whose word about tools could be more reliable than the word of "Stanley" — tool makers for over 100 years. On an electric tool the name Stanley means the tool is quality built, thoroughly tested and honestly rated. Covered by a generous guarantee and serviced by a network of Stanley Service Stations. See your dealer or write for complete catalog. Stanley Electric Tools, 492 Myrtle St., New Britain, Connecticut.



Stanley-Carter J5 Power Plane, powerful electric plane with spiral cutter and 18,000 r.p.m., 1 h.p. motor removes wood five times as fast as by hand.



Stanley-Carter Wings Bolt Reuter (MS 8) 1/2 h.p., 18,000 r.p.m. Assures perfectly hung doors with just the right clearance.

**STANLEY**  
MADE IN U.S.A.

Hardware • Tools  
Electric Tools • Steel Strapping • Stud

## Suberson

(Continued from page 91)

tion of an increasingly large segment of the vast army of bureaucrats who insist that Uncle knows best . . . and can do it better.

One reason for the widespread doubt that exists concerning the ability of Uncle Sam to handle a colossal job of this kind stems from the costliness of previous efforts in this direction and from the inefficient, extravagant manner in which other bureaucratic agencies go about their daily duties . . . the Post Office merely being one of the many examples.

I was discussing the subject with a friend only a day, or so ago, only to find that he wasn't greatly concerned.

"It's politics," he said with an alarming display of complacency.

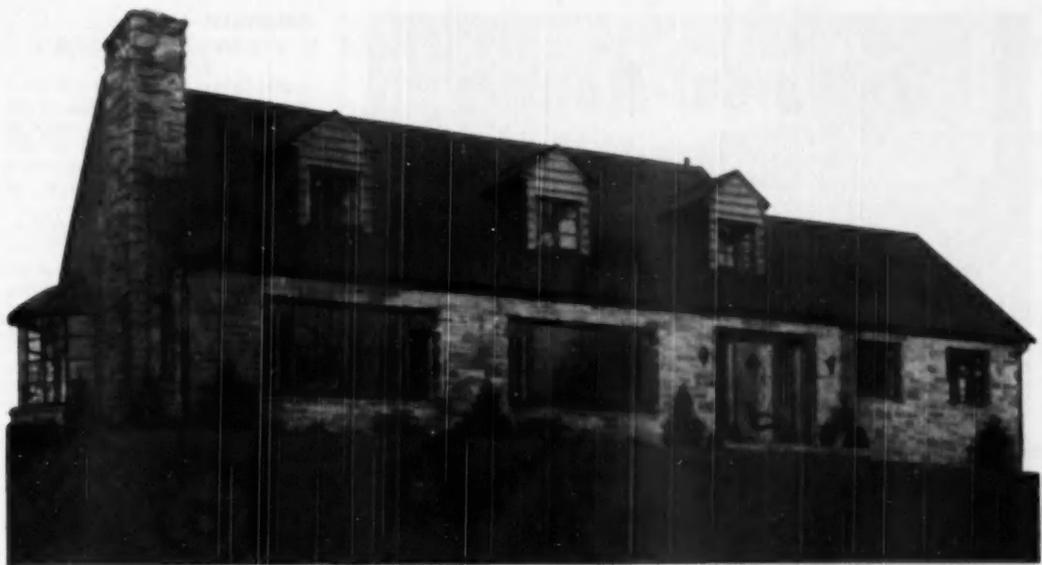
Now it so happens that my friend owns a home in a city that has recently voted favorably on a 2,000-unit project. He complains bitterly about his rapidly increasing tax burden but neglected to go to the polls when the public housing issue was being approved by the pathetically small number of voters who took the trouble to cast their ballots.

In the meantime, houses and apartment buildings are mushrooming in the city to such an extent that it already comes close to having more than it needs of both. My friend, who was offered \$22,500 for his twenty-year old home at the peak of the housing shortage, now doubts his ability to sell it for \$15,000. He hasn't figured out what will happen when the rapidly diminishing shortage finally turns into an overage and the 2,000 subsidized residential units rear their bureaucratic heads to add immeasurably to the confusion which is certain to exist when ways and means are sought for raising taxes on real estate values that unhappily will shrink in direct proportion to the size of the overage.

Many a retail merchant by this time has discovered that shortages are exceedingly annoying, to say the least, but that overages are far more so. During the war and the boom which still continues in many lines, he has often been impatient with some of his suppliers because of their inability to furnish enough of certain items to meet his full demand. Later on he learned to his dismay that it is practically impossible to make a satisfactory profit when overages finally supplant shortages, as they always do in the long run.

Perhaps I am unduly concerned about the zeal of the bureaucrats to take over bigger and bigger projects, even to providing the roofs over our

(Continued on page 130)



Residence of Perch P. Harkin, builder

# A room with a view— and plenty of ventilation!



### Operator 4715

is an inexpensive angle-drive operator for residential wood casements. It is precision-built, handsome of line, heavily finished.

- Case-hardened steel worm integral with shaft
- Teeth precision machined at exact operating angle
- Housing of Zamak alloy
- Heavy brass channel guide, cadmium-plated steel operating arm

- Operates through screens
- Easily installed—2 measurements, 5 screws
- Crank handle and worm shaft serrated—no slip, no play
- Operates on casements carrying built-in extension hinges (specify)
- Lubricated for a lifetime of hard wear

GETTY-OPERATED SIDE CASEMENTS make any picture window complete. They provide as much or as little ventilation as desired. They respond instantly to the slightest turn, anchor securely at any opening. Getty operators thrive on twists and turns throughout their long life. And they're as trim-looking as they are tough.

That's why architects, builders, contractors, casement manufacturers, building material dealers, hardware jobbers and dealers specify, use and carry the Getty line. That's why *Getty operators are found on more casement windows than all other operators combined.*

Write for our descriptive brochure D. It contains complete information on our three operators (internal gear, external gear, horizontal drive) and our specialty hardware for every type of wood and metal casement.

H · S · **GETTY** & Co., Inc.

3348 NORTH 10TH STREET

PHILADELPHIA 40, PA

# Universal-Rundle bathroom



BATHROOM PLAN

Design No. 2

Architect

*Ernst Peyer*  
A.I.A.

## Now they Buy Convenience

Gone are the days when folks were satisfied with just a washstand, closet and tub to complete their bathrooms. Now they want fixtures of Universal-Rundle high quality and superior styling—and they want ideas for bathroom convenience. With the U-R line of line fixtures and architect Ernst Peyer's A.I.A. plans, you have a most intriguing selling package. Write for information on the Universal-Rundle line of bathroom fixtures and kitchen equipment.

Complete illustration and specifications available upon request.

## UNIVERSAL-RUNDLE

*for Bathroom and Kitchen*

UNIVERSAL-RUNDLE CORPORATION  
NEW CASTLE, PENNSYLVANIA

*Serving the world from 3 plants located coast to coast*

UNIVERSAL-RUNDLE CORPORATION  
NEW CASTLE, PENNSYLVANIA

Please send Ernst Peyer Bathroom Plan No. 2..... Information on U-R Fixtures.....

Name.....

Address.....

Firm.....

## Sabersson

(Continued from page 128)

heads. Being an ordinary citizen, I may be in water far too deep for my financial acumen when I attempt to ponder the eventual effects of continuous deficit spending. Assuredly I am not regarded as an authority on the subject.

In this connection there is a measure of consolation in the fact that I may not be alone in my ignorance. I am reminded of the casual reply of our ever-reassuring President when he was being questioned concerning the resignation of Dr. Edwin G. Nourse as Chairman of the Council of Economic Advisers.

"The Doctor is a nice old fellow," was the reported reply. "He just doesn't understand deficit spending."

Mebbe so. Mebbe too if the owners of a certain haberdasher store had enjoyed a better understanding of the full implications of deficits, the establishment might have prospered sufficiently to engage the continued attention of the former owners.

No doubt I am an old fogey but the thought will not dawn that what won't work in a necktie store won't work in larger affairs. Nor is it at all clear to me just why a Government that is making a mess of getting letters into the multitudinous mailboxes of the land should be so greatly concerned about taking over the houses to which they are attached.

In the meantime, the home building industry continues to hang up bigger and better construction records each year despite the former lugubrious predictions of many of our political prognosticators that it couldn't be done.

Nor is this unprecedented volume all there is to the story. It is the houses that speak eloquently for themselves... comfortable, efficient, economical structures that are being built and lived in for less than if big, bungling Uncle Sam attempted to do the job.

All of which raises a question which no public houser has answered as far as I have been able to perceive. If better housing can be provided for less money through normal channels, why not take full advantages of such an opportunity?

The assumption that Uncle Sam can do it best is not justified by anything that is being done by overworked bureaucratic agencies—even to delivering the mail!

Remember

NATIONAL HOME WEEK

September 10 to 17

AMERICAN BUILDER

# Meet 13,000 young men doing their *"level best"* to serve you

We're proud of these young men. We think you should know about them.

They're a hand-picked group learning to do an important job for you, for us, for everyone interested in the building industry.

These lads are the brickmason apprentices now enrolled in a nationwide training program being promoted by SCPI in cooperation with the BM&PIU.

They are being enrolled at the rate of 3,000 per year. They are learning their trade well.

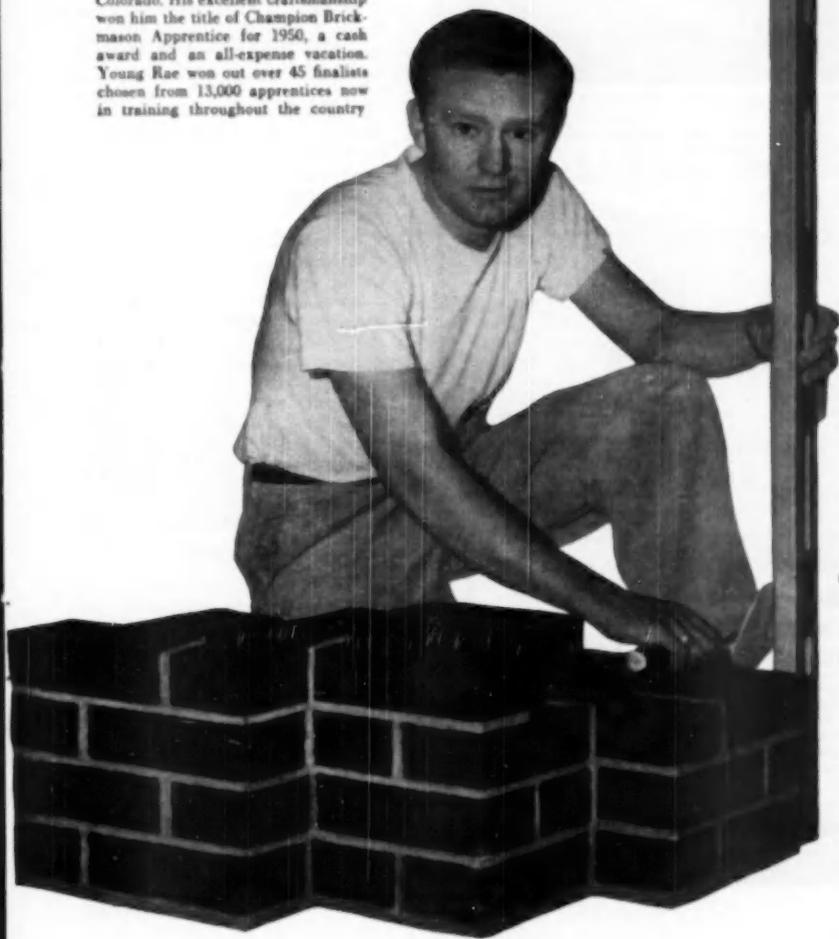
How well was recently shown in the finals of the 1950 national bricklaying competition held in Philadelphia. Here 45 sectional champions from 44 states went to work with trowel and mortar to demonstrate their skills before a thoroughly impressed audience of almost 400,000.

This competition is just one aspect of the day-in, day-out effort being made by manufacturers, government and labor unions to assure you a continuing supply of skilled craftsmen.

The success of this program is good news to all of us—good news that can be translated into decreased building costs, efficient workmanship, and satisfied buyers, every time you build or design with brick and tile.

## Meet the new Champ!

He's William J. Rae, 20 year old brickmason apprentice from Denver, Colorado. His excellent craftsmanship won him the title of Champion Brickmason Apprentice for 1950, a cash award and an all-expense vacation. Young Rae won out over 45 finalists chosen from 13,000 apprentices now in training throughout the country



### 14 regional offices to help you —

Structural Clay Products Institute  
New Haven 16, Conn., 341 State St.  
New York 17, N. Y.

1949 Grand Central Terminal  
Canton, Ohio, 308 Market Ave., No.

Pittsburgh 22, Pa.  
502 Benedum Trust Building

Chicago 7, Illinois, 228 N. La Salle St.  
Ames, Iowa, 120 1/2 Welch Avenue

Council Bluffs, Iowa  
257 Elmwood Drive

Minneapolis 4, Minnesota  
206 Wesley Temple Building

Denver 3, Colo., 308 Kittredge Bldg.

Phoenix, Arizona  
1538 West McDowell Road

San Francisco 5, Calif.  
55 New Montgomery Street

Seattle 4, Wash., Central Building  
Clay Products Association  
of the Southwest

Austin, Texas, Littlefield Building

Oklahoma City, Okla.  
First National Building

**SCPI**

MAIN OFFICE

**STRUCTURAL  
CLAY  
PRODUCTS  
INSTITUTE**

1520 18th Street, N. W.  
Washington 6, D. C.

**NOW!** PERFECTLY FINISHED  
DRY-WALL JOBS

with ONE Coat of

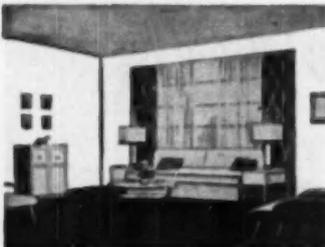
**DRAMEX**  
Interior Finish

**No Sanding! • No Sizing! • No Second Coat!**

**HERE'S ALL YOU DO!**



After wallboard sections have been cemented and taped, simply brush or spray ONE coat of DRAMEX on the surface. That's all there is to it!



Instantly, wallboard seams, tape, cement, and blemishes disappear. In their place appear new, plaster-like surfaces in beautiful decorator colors.

**NO SANDING, SIZING, OR SECOND COAT** is required — regardless of what kind of wallboard or plasterboard is used! And, you can paint over DRAMEX later, with oil paint, if desired.

Why not make your Dry-Wall jobs this easy? DRAMEX is low-cost and saves you time and labor! Try it on your next Dry-Wall job. You'll never be without DRAMEX Interior Finish!



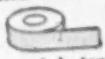
**DRAMEX HIDES CRACKED PLASTER, TOO!**

- ★ Colors Like Paint
- ★ Resurfaces Like Plaster
- ★ One Easy Coat Does Both Jobs
- ★ Many Decorative Finishes Possible
- ★ Mixes With Water, Stays Mixed
- ★ Dries Without Blushing in 4 Hours
- ★ Available in 8 Colors and White

**ASSURE TIGHT DRY-WALL JOINTS WITH REARDON'S JOINT CEMENT AND REARDON'S JOINT TAPE**



Reardon's Joint Cement mixes and spreads easily, feathers to a fine edge, won't burn through or discolor finish coatings. Use it to join wallboard sections, and to spot-in nailheads.



Reardon's Joint Tape is a long-lasting perforated paper tape with sanded, tapered edges. It guides smoothly, sets firm, won't wrinkle under the knife. For best results in Dry-Wall, use both fine Reardon products. Order Now.

**THE REARDON COMPANY**

St. Louis 6 • Chicago 9 • Los Angeles 21 • Bayonne N.J. • Montreal 1

**Customer's Viewpoint**

(Continued from page 99)

preceding months and year, and an estimate of what the sales of the item are likely to be during the coming weeks is made. Based upon this estimate, it is decided whether or not an additional quantity of the item should be ordered, and if so, how much.

When an order is made, the quantity of the item ordered is entered in the column "Regular Order" under the month of the order. When the order is received, the quantity is circled. If an order has not been received by the time of the next stock count, a line is drawn through the quantity ordered, and this quantity is entered in the next month column.

Whenever it is necessary to place an order for an item in addition to the amount included in a regular order, this quantity is entered on the "Spot Order" line in the proper month column. When this quantity is received, a circle is drawn around it. If the spot order is not received, a line is drawn through the quantity and the quantity ordered is entered in the next month column.

The quantity of an item on hand at one stock count plus the additional quantity of the item received during the month plus the quantity of the item on hand at the next stock count gives the unit of sales of this item for the month.

For example, assume that an item is counted on the second of each month. On the second of January the item is counted, and the quantity on hand is found to be 50. Between January 2nd and February 2nd, 48 additional units are purchased or ordered as a regular order and are received. No spot order is made. On February 2nd the item is counted, and the quantity on hand is found to be 35. Sales of the item for January then would be 63 units. This is found by adding the quantity on hand January 2nd (50) to the quantity ordered and received during the month (48) and subtracting the quantity on hand February 2nd (35).

"On fast selling items," says Davis, "you will find it desirable, as an aid in preventing out-of-stocks, to make one or more spot checks between the regular stock counts." Usually a quick estimate, not an exact count, of the quantity on hand and on order is all that is necessary. If the quantity on hand and on order appear to be too low in relation to estimated sales, then an additional order in all probability should be placed.

Sales by quarters for both the current and preceding year are posted in the spaces divided by diagonal lines

**AMERICAN BUILDER**

## Customer's Viewpoint

and designated "Last Year" and "This Year." Sales for quarters for last year should be posted to the current Unit Buying Control pages at the beginning of the year, Davis recommends. This will provide for a more readily available comparison with the current sales figures as the year progresses.

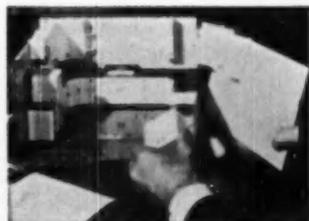
## Combined Experience

Long on ideas, Jack C. Davis came into the business in 1937 after his graduation from the University of Oklahoma. Before putting his ideas to work, he followed a practice of tempering them with the judgement of his father, William R., who spent 28 years in the employ of the Long-Bell Lumber Company, 25 of these years as district sales manager. Together the father-son team has built the present organization, with William Davis now in charge of home construction for the company. The firm builds about 12 homes a year.

## Dealer Kit is Effective Kitchen Planning Aid

A new Kitchen Planning Kit, now being made available to its dealers by Curtis Companies, Inc., consists of more than 100 units, contained in an attractive leather carrying case. By use of the kit dealers can plan a kitchen to fit customers' needs and means.

In using the kit, the dealer sets up a miniature room which is adjustable



KIT features adjustable kitchen replica

to the size of space available. Exact replicas of Curtis kitchen cabinets are then fitted into this room. The tiny cabinets are made of plastic, finely molded to show exterior details. Each piece is stamped with the unit number of the full size cabinet it represents in order to facilitate ordering.

The planning kit includes doors, windows, a floor, and the room walls, to simulate the actual kitchen. Included also are a miniature stove and refrigerator so that prospects may see how Curtis cabinets fit in with other standard kitchen equipment.

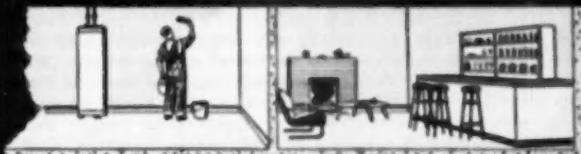
AUGUST, 1950

# MASONRY... Looks Better\* Lasts Longer\* when you specify BONDEX

... the patented cement paint that colors,  
seals and preserves, all in ONE easy treatment



**LOOKS BETTER\*** because BONDEX dresses up masonry in white or 12 beautiful decorator colors. All BONDEX colors are sunfast and nonfading. Now you can get color—beautiful, long-wearing color, with BONDEX—and it's simple to apply. It's a fact, clients notice color first—and clients know BONDEX Cement Paint is best.



**LASTS LONGER\*** because BONDEX seals dampness out, provides maximum protection against erosion, weather and disintegration. BONDEX actually penetrates the surface, becomes part of the masonry. It stays on the job—won't chip, crack or peel—pays for itself in protection. To keep basements dry, exterior walls protected, always specify BONDEX Cement Paint. Then you'll see why.

BONDEX IS BEST FOR ALL  
TYPES OF MASONRY  
INDOOR AND OUT



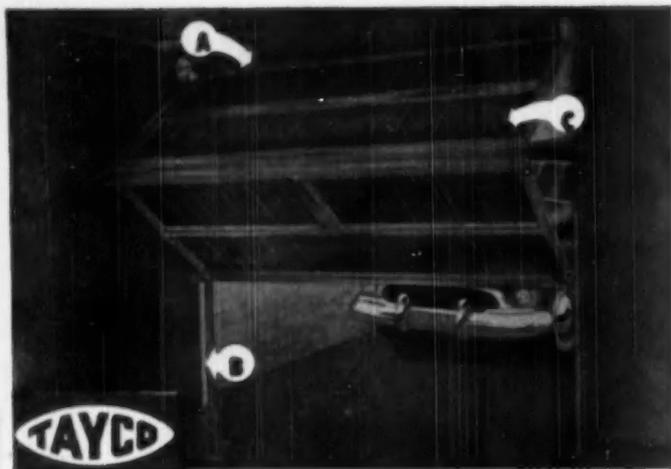
TO PREPARE CONCRETE FLOORS FOR PAINT, ENAMEL  
OR VARNISH USE VENOSTONE PRIMER...

Add years to the life of oil-painted masonry walls and floors, avoid costly paint failures. VENOSTONE checks dampness, neutralizes alkalinity and provides a perfect base for even the most delicate colors on floors or other easily worn surfaces. Use the safest surface sealer—VENOSTONE.



THE REARDON COMPANY

St. Louis 6 • Chicago 9 • Los Angeles 31 • Bayonne, N. J. • Montreal 1



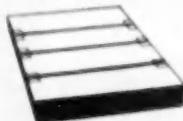
## Easiest Door to Sell...

because: Home owners are attracted by the ease of operation, incomparable beauty, painted or natural finish, and trouble-free service. Lifetime aluminum means no rust, no rot, no warping, or expensive repairs.

because: Builders appreciate the extreme simplicity of design and installation. The torsional spring motor (A), having a through shaft and mounted on the back of the top panel, is wound for correct tension before shipment. Only six wood screws (B) are required to attach the door to the garage opening and this can be accomplished by two men in forty-five minutes.

because: Dealers prefer a quality product with repeat sales and not requiring service. Also, the single carton packaging reduces warehouse space and simplifies handling. TAYCO standard size doors are adaptable to under-size openings, so that practically any opening can be supplied from stock.

because: Perfect Service is guaranteed by the high quality, rugged components and expert workmanship. Cover Sheets and Braces (C) are .032" thick tough alloy aluminum; Rollers are Ball Bearing, Rubber Tired; Pivot Pins operate in lifetime lubricated Bronze Bushings; the snap type locking device is actuated by Yale Locks; Spring Shaft operates in 5/8" Ball Bearings, and the Lift Cables are Aircraft quality with a safety factor of twenty-five to one.



SHIPPING CARTON  
4" x 46" x 96"  
Approximately 100#

L. S. TAYLOR MANUFACTURING CO.

849 Marietta Street, N.W., Atlanta, Georgia

Gentlemen:

Please send full information and prices to:

Name .....  Wholesaler  
Address .....  Dealer  
City .....  Builder

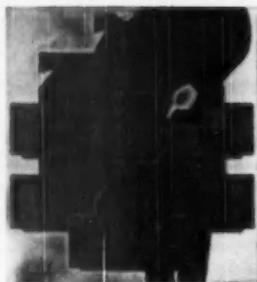
849 MARIETTA STREET, N. W. . . . . ATLANTA, GEORGIA

## NEW PRODUCTS

(Continued from page 64)

### INTERLOCKING SHINGLES ABB5020

Asphalt Sta-Lock shingles have exclusive interlocking design which assures 100 per cent double and 42 per cent triple coverage over



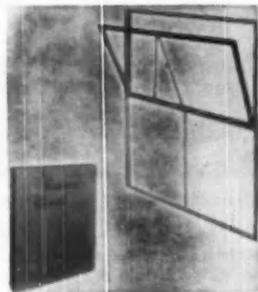
roof area and permits each shingle to be secured to roof or adjacent shingles at eight separate points. Pattern creates distinctive roof as well as preventing shingle "blow-ups." Available in Celotex color blends and deep-grained textures. (Celotex Corp., Dept. AB, 120 South LaSalle St., Chicago 3, Ill.)

### GARAGE DOOR HARDWARE ABB5006

Tayco 49'er model hardware for upward-acting garage doors comes assembled ready to install on door and jamb. Requiring only eight inches of overhead clearance, movement of door is powered by all-tempered springs. Has no weights, tracks, pulleys or cables. Main pivot revolves in roller bearings. Hardware is made of heavy gauge steel throughout. Tayco Co., Dept. AB, 15134 S. Orizaba Ave., Paramount, Calif.

### UTILITY WINDOW ABB5021

Fenestra utility window is especially designed to fit concrete block construction and is recommended for use in garages, alleys or street fronts where opening sash do not protrude over



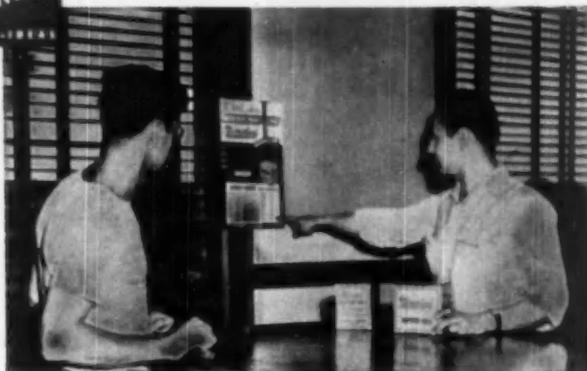
lot lines. In restaurants, top opening sash provide ventilation with privacy. Also used in commercial buildings, airways, exposed basement walls and garages. Unit, standardized in one size only—2 feet, 9 1/2 inches wide by 3 feet 6 1/2 inches high, is available completely packaged. Utility window is shipped in three ways: Package A—glazed window with screen and side guards; Package B—glazed window with screen only; or as unglazed window not packaged. Detroit Steel Products Co., Dept. AB, 3101 Griffin Street, Detroit 11, Mich.

(Continued on page 126)

AMERICAN BUILDER

# They're Hanging Their Memory on the Wall

**BUILDERS' CORNER**  
PRODUCTS—DEALS



"Puts words in their mouth," this new wall chart which gives penny-lengths of nails. Hung in building supplier's office, it helps clerks and customers. Tells of "Zinclud" nails' heavier coating, longer wear, too.

Been in the business a long time, have you? Then, what's the length of a 5-penny nail, or a 10-penny?

Today many dealers and their builder customers have all this information in plain sight, hanging right in the building supplier's office. It's a bright, new wall chart just issued by the W. H. Maze Company, Peru, Ill., makers of the well-known "Zinclud" nail.

Aiding both clerk and customer in ordering, and filling the order, a chart of "Penny-Wise Nail Lengths"—from 2 to 60 penny—gives the answer at a glance. At the same time it briefly tells the story of "Zinclud," the "Nail with the Weather-Proof Coat."

Many dealers and builders are still unaware of the big difference between galvanized and "Zinclud" nails. They don't realize that galvanized nails are tumbled in

a barrel—receiving a coating in the same manner that popcorn is buttered. But "Zinclud" nails are actually *dipped* in pure, molten zinc for *complete, uniform* coating over every part of the nail surface. As the wall chart points out, this means a heavier coating, a longer nail life, with no rusting, no discoloration!

To emphasize the difference, the wall chart pictures the 5-lb. "Zinclud" carton. Says "Look for ZINC-DIPPED on the Top of the Box"—one, sure way to distinguish the *dipped* nail from other types.

Dealers now requesting the wall chart say it's something long needed for their own use, and their customers, too. "And it might suggest to our customers that being penny-wise is pound foolish when they're looking for a nail that should wear as long as the material it's fastening."



... but "Zinclud's" biggest help to the industry is offering a nail actually *dipped* in molten zinc, not just galvanized, for a coating that will outlast the building itself.

## WEATHER-PROOF NAILS FOR BIGGER SALES!



IF THEY'RE MAZE "ZINCLAD," THEY'RE HOT-DIPPED FOR A HEAVIER COATING, LONGER LIFE

The difference is in WEATHER-PROOF WEAR! Maze "Zinclud" nails are hot-dipped in pure molten zinc for a much heavier coating than usual galvanized nails. You pay just a few cents more for a LOT MORE in nail life, weather-resistance, no discoloration in the years ahead. Every type: Roofing, shingle, spiral, butt, asphalt, siding, common, cribber. See your dealer, or write for samples, literature.

OTHER MAZE MADE NAILS: Lead head, pallot, bronze and stainless steel asbestos face, galvanized roofing, painted asphalt siding, copper, screw, ring shank, and lead head roofing fasteners.

*Zinclud*

W. H. MAZE COMPANY

# There are *two sides* to the Superiority of PAINE REZO DOORS

One is the  
**1 3/4" Standard  
Thickness** ▶

that helps de-  
liver unsur-  
passed rigid-  
ity and  
strength;



the other is  
**Dimensional  
Stability**

provided by an  
interlocking  
wood mesh  
core that has  
been time-test-  
ed and time-  
proved by more  
than four million  
installations from  
coast to coast.

And both sides give you and your customers  
**An Unconditional Guarantee  
of Satisfactory Service**

a product warranty backed by the world's largest  
exclusive producer of cell-type flush doors.

Is it any wonder that Paine Rezo is the door most speci-  
fied, most demanded and most insisted upon by architects  
and contractors everywhere. See SWEET'S FILE, or write  
directly for a data bulletin.

*Manufactured by the*

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

ESTABLISHED 1853

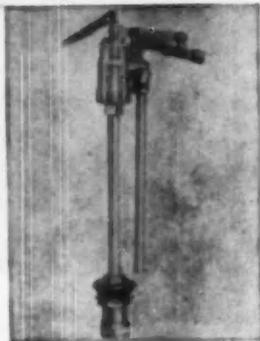
## NEW PRODUCTS

(Continued from page 134)

### FLOAT VALVE

ABB5003

New float valve provides fast refill, putting four gallons of water in tank in about 1 1/2 minutes at pressures ranging from 25 to 150 pounds. Scovill 46-VR-16 valve is fully adjustable by means of beveled regulator flange on top of valve body.



held securely by locking screws. Compound leverage action assures positive shutoff at pressures as high as 150 pounds. Design embodies long, cone-shaped valve seat and regulator with valve plunger equipped with composition seat washer and chrome tan leather spring washer to prevent squirting. Supply tube is of heavy-gauge seamless copper tubing. Easily serviced by removing single thumbscrew from cross lever to withdraw entire regulator-plunger assembly. Waterville Div., Dept. AB, Scovill Manufacturing Co., Waterville 14, Conn.

### SOLID CORE FLUSH DOOR

ABB5015

New Hasko Solid Kor exterior grade flush door has high warp resistance. Solid pine blocks from 1 1/2 to 2 inches wide and up to 20 inches long make up solid core. Wide rails at top and



bottom seal end grain and permit up to 1/2-inch trim from each end. Selected birch or other veneers are used on faces. Stiles are made of some wood as faces. Between faces and core is 1/10-inch layer of hardwood cross-banding. Entire assembly is hot plate press bonded with waterproof glues. Doors, available with cutouts for glazing, are produced in four standard sizes. Haskelite Manufacturing Corporation, Dept. AB, Grand Rapids 2, Mich.

(Continued on page 140)

AMERICAN BUILDER

# Sell NATIONAL LOCK

*the customer-preferred hardware line*



PACKAGED SCREWS

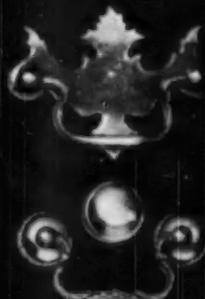
## WOOD SCREW ASSORTMENT

WITH HANDI-SERVE COUNTER MERCHANDISER

A well-balanced assortment with 18 different sizes and diameters of the most called-for wood screws. Includes Flat Head Cadmium Plated, Round Head Nickel Plated, Flat Head Solid Brass. Screws are packaged in tough cellophane envelopes offering selection by color. Sturdy counter merchandiser has rotating axis for easy inspection of merchandise. A profit-proved assortment available immediately from your jobber. Open stock if desired.



SCREW DISPLAY



FURNITURE TRIM

## PERIOD FURNITURE TRIM

AUTHENTIC... WIDELY POPULAR  
... SKILLFULLY REPRODUCED

Consists of ten of our finest, selected furniture trim items. These reproductions are authentically correct... richly finished in French Gilt and Antique English. Knobs and pulls are easily applied to old or new furniture. Provided with beautiful walnut display board that suggests actual application. Envelope packaging provides easy identification.



FURNITURE TRIM



TUTCH LATCH

## POSITIVE-ACTION LATCH

TUTCH LATCH OPENS DOORS  
AUTOMATICALLY... WITH A  
GENTLE TOUCH

One of the newest, most unique cabinet hardware items on the market. TUTCH LATCH opens doors automatically with a gentle touch of finger, wrist or elbow. Assures many years of smooth, positive latching action. Easily applied. Envelope packaged. Available with visual counter demonstrator.



SASH LOCKS



SASH LIFTS

## SASH HARDWARE

LOCKS, LIFTS, ADJUSTERS, HANGERS

At National Lock you'll find everything needed for a complete line of sash hardware. Durable built to last for years. Attractively packaged and clearly labelled for quick identification and easy handling



SASH ADJUSTERS SCREEN HANGERS

ORDER FROM  
YOUR JOBBER

NATIONAL LOCK COMPANY  
ROCKFORD, ILLINOIS • MERCHANT SALES DIVISION  
*Distinctive Hardware . . . All from 1 Source*



## BOOK REVIEW



### THE MASONRY HOUSE

by Lee Frankl, Training-Thru-Sight Associates. First Edition, 125 pages, illustrated, 8 1/2 inches by 11 inches. Duell, Sloan & Pearce, Inc. \$2.95. No. 26 on adjoining column.

Once in a great while a building book is published that by freshness of approach and simplicity of instruction immediately establishes itself as an outstanding work in its field. Lee Frankl and his Training-Thru-Sight staff together with the Structural Clay Products Institute have prepared just that sort of book in **THE MASONRY HOUSE**, a practical step-by-step guide to brick and tile construction in modern homes.

What makes this book unique is not alone that the information it presents is authoritative and thorough, but that the teaching technique employed with its simple, logical text keyed directly with clear, well-labeled illustrations is ideally suited for school or home study use. By this method the reader is shown exactly how a brick masonry house is constructed using designs and materials based on a standard 4-inch unit of measurement thus reducing costs and at the same time vastly improving the quality of workmanship. In brief, every question that a builder might ask about this kind of construction, whether it concerns tools, materials, or procedure from the first marking of the ground to the installation of the roof is fully and clearly answered. Basic sections deal with Selection of Materials, Masonry Tools, Storage of Tools and Materials, Types of Construction, and On-the-Site-Construction which devotes itself to each step taken in building the masonry engineered house. In addition there are special plans for roof framing, cavity wall and basement wall sections.

### THE ART OF BRICKLAYING.

by J. Edgar Ray. First Edition, 240 pages, illustrated, 5 1/4 inches by 8 1/4 inches. Chas. A. Bennett Co. \$4.00. No. 25 on adjoining column.

Another fine book that has recently been published and which serves a definite purpose in supplying solid job instruction is this handbook by J. Edgar Ray. As the title states and as every construction man knows, bricklaying is indeed an art. Therefore it is impossible to overstress the value of a reliable reference volume such as this written for contractors, journeymen bricklayers, and as a text for apprentices in the building trades. The fact that the author was a card-carrying bricklayer for forty-two years and is now a teacher of bricklaying at Stout Institute in Wisconsin makes the book's authority just that much more convincing.

In addition to excellent step-by-step instruction, some outstanding features of this work are its 133 illustrations, a glossary of 400 bricklaying trade terms, and special sections dealing with ornamental brickwork, scaffolding and the laying of cement block. For a variety of good reasons we find this an easy book to recommend.

# 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. \$10.00.
2. **THE BUILDING COST CALCULATOR**. By John R. Smith. A system for arriving at building construction cost by use of schedules giving cost of standard units of construction at varying costs of labor and materials. \$10.50.
3. **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.
4. **THE BUILDING TRADES HANDBOOK**. Ready reference on building subjects—mathematics, architectural drawing, structural design, materials and methods. \$1.75.
5. **CONTRACTOR'S MATERIAL LIST**. A 10-column take-off form for complete listing of materials and labor costs. \$1.00.
6. **SPECIFICATIONS**. Full set of detailed house specifications (and item index), with spaces for inserting the pertinent description data. \$5.00.

## 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. \$3.99.
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.

## THE STEEL SQUARE

10. **STEEL SQUARE POCKET BOOK**. By Dwight L. Stoddard. Illustrated and worked-out problems of laying out common rafters, hiped, octagon, hexagonal and circular roofs, roofs of uneven pitch, and curved roofs. \$1.25.
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. \$1.50.
13. **STAIR BUILDING**. By Gilbert Townsend, S.B. Fully illustrated explanation of every problem in design and construction of stairs. \$2.50.

# BOOK ORDER SERVICE—

## PLAN BOOKS

14. **AMERICA'S BEST SMALL HOUSES.** Exterior and interior views, floor plan sketches, material specifications and descriptions of 40 new low-cost homes. \$2.55.
15. **HOUSES FOR GOOD LIVING.** By Royal Barry Willa, A.I.A. Photographs and floor plans of 34 fine homes by a leading architect. \$4.00.
16. **SUNSET WESTERN RANCH HOUSES.** Authoritative book on the California ranch house, with thorough pictorial descriptions and ground floor and site drawings. \$3.00.
17. **DUPLEX AND APARTMENT HOUSES.** By J. W. Lindstrom. Floor plan sketches and brief descriptions of 35 duplexes, 11 4-apartment buildings, and 5 larger ones ranging from 6 to 12 apartments. Cubic footage given. \$1.00.
18. **CAMPS AND COTTAGES. How to Build Them.** By Charles D. White. Complete, tested plans and instructions for building cottages, camps, and guest houses. More than 100 detail drawings. \$3.50.
19. **SUNSET CABIN PLAN BOOK.** Dozens of how-to-do-it drawings with 30 pages of floor plans and exterior elevations for building and improving vacation homes. \$1.50.
20. **PREMIER BOOK OF GARAGE PLANS.** Full-scale working blueprints and pictures of one and two-car garages. Not new, but only book supplying plans. \$5.00.

## HEATING AND PLUMBING

21. **MODERN METHODS OF HOME HEATING.** Standard heating systems illustrated with 17 floor plans showing heating outlets, 40 photos of equipment and installations, 25 boiler and piping connection diagrams, and 11 heat loss calculating tables. \$5.00.
22. **HOW TO DESIGN AND INSTALL PLUMBING.** By A. J. Matthias, Jr. Every step in the design and installation of the plumbing system, to fulfill requirements indicated in blueprints and specifications, explained and illustrated. \$3.50.

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23. **PRICE GUIDE FOR PAINTERS AND DECORATORS.** Tables covering practically every type of work done by the painter and decorator, with suggested prices based on various wage scales. \$1.25.

24. **PAINTING AND DECORATING CRAFTSMAN'S MANUAL.** Sponsored by the Painting and Decorating Contractors of America. \$2.00.

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25. **THE ART OF BRICKLAYING.** By J. Edgar Ray. Basic brick-laying job instruction, many illustrations, glossary, special scaffolding and cement block chapters. \$4.00.
26. **THE MASONRY HOUSE.** By Leo Frankl. Training-Thru-Sight Associates, Inc. Step-by-step guide to complete house construction in brick and tile. Excellent self-teacher. \$2.95.
27. **MASONRY SIMPLIFIED, Vol. II.** Practical masonry procedures in the various phases of construction, from building forms for concrete to constructing fireplaces and septic tank systems. Includes discussion of handling new products such as glass blocks, waterproofing mixtures and insulating blocks. \$5.00.

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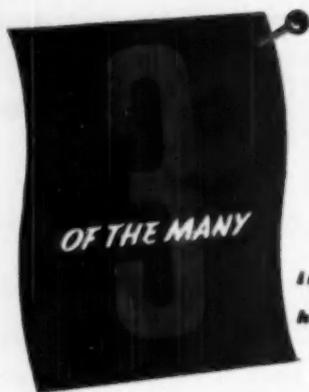
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Whatever the hanging and fastening problem is, Paine has the answer. Whether you need a special size or shape for a special job, or whether it is standard, you get prompt delivery and uniform, top quality from Paine. For Paine anticipates your every need to give you faster, all-around service. Check the three items described below. They are typical of Paine's complete line of dependable devices that help you do a better job.



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(Fig. 400)

Ideal for supporting pipes, conduit and armored cable. Smoothly plated for modern appearance and lasting finish. Bolts are precision threaded and are also plated for easier handling. Each ring is stamped for quick identification. Packed in handy boxes for shelf storage.



**No. 2 — "Snugfit" Pipe Hooks**  
(Fig. 410)

Paine "Snugfit" Pipe Hooks give these extra advantages: 1. Hook ends are needle sharp . . . penetrate the toughest materials. Have a hammer head that makes them easy to "drive home". 2. Hooks are "formfit" so that they cover a greater circumference of pipe for full support. 3. Seven diameters are made in four lengths.



**No. 3 — Pipe and Conduit Clamps**  
(Fig. 443)

Especially designed to permanently hold or secure, with or without porcelain bushings, pipe, thin wall or rigid conduit and armored cable. Correct sized stove bolt furnished free with each clamp. Correct size is plainly marked on each clamp. The  $\frac{1}{4}$ " hole in base of clamp allows use of Paine anchor or Toggle Bolt to fasten objects securely to wall or ceiling. Thickness of stock plus rigidity of device withstands shocks or vibrations.

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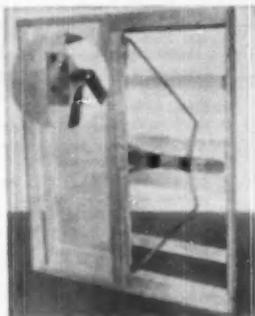
**PAINE'S**

## NEW PRODUCTS

(Continued from page 136)

### TRACKLESS RECESSED DOOR ABB5054

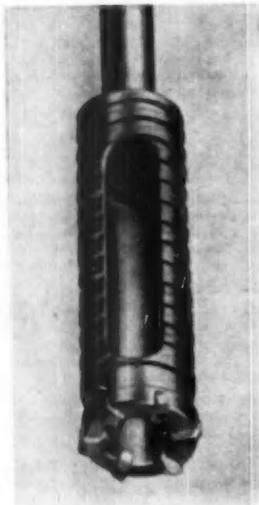
Fla-Dor trackless unit for recessed doors provides free floating action without tracks or aligning problems. Door is supported by two angle brackets on inner edge and "rides" on bracket sup-



port, arms and rotary gear arms. Complete installation fits within standard 2x4-inch studs. Extra-thick walls are not required. Units are produced to fit all standard door sizes. Mechanism slides into grooved base plate and is locked in position with one screw. Ease of installation saves construction time. Fla-Dor, Inc., Dept. AB, 6631 Exposition Blvd., Culver City, Calif.

### CONCRETE DRILL BIT ABB5010

KonKrete Koro drills are of "centerless" design and are furnished in sizes from  $\frac{3}{16}$  to  $\frac{7}{16}$  inches. Because it has no center point to act as



pivot, new drill penetrates concrete at speeds up to six inches per minute with less pressure than required for ordinary drills. Pulverized core particles escape through side exhaust slot. Used with ordinary electric drills at speeds from 500 to 1200 r.p.m. Drills up to 30 feet without re-sharpening. Tilden Tool Manufacturing Co., Dept. AB, 1995 N. Fair Oaks, Pasadena 2, Calif.

(Continued on page 142)

AMERICAN BUILDER

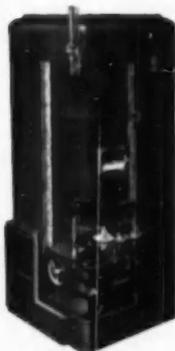
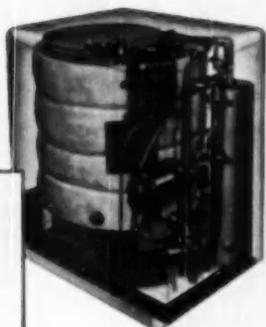
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—the most revolutionary development in modern small-home heating—automatically heat the home, also supply ample domestic hot water.



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

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### IN WINDOW DESIGN



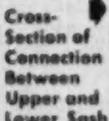
Complete *Fleetlite* ALUMINUM WINDOWS

#### SPECIAL Construction Features



**EXTRUDED ALUMINUM**  
**Cross-Section of Frame**

showing how four channels hold all sash in precise alignment.



**TIGHT CENTER**  
**Cross-Section of Connection Between Upper and Lower Sash**

Interlocking sash provides weather-tight center joint.



**NO PUTTY**  
**Cross-Section of Sash**

indicates how Kerosal replaces putty in a time-saving, cost-saving FLEETLITE window installation.

Many other construction features in this sensational new window!



Individually packed in cardboard container.

*Fleetlite*  
AMERICA'S *Smart* WINDOW

**ARCHITECTS, BUILDERS AND HOME OWNERS** all agree that the new FLEETLITE Aluminum Window represents the greatest single advance ever in window design and construction.

FLEETLITE is a complete packaged aluminum window, providing frame, sash, storm sash and screen as an integral unit, easily installed at one time.

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*"...delighted with my new Fleetlite Windows. We believe they are the outstanding feature of our new home and add so much to year around comfort, convenience and beauty."*

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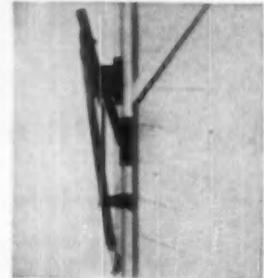
Made by FLEET OF AMERICA, INC., 112 PEARL STREET, BUFFALO, N. Y.

## NEW PRODUCTS

(Continued from page 140)

### GARAGE DOOR HARDWARE **ABB5008**

Halmes series 800 upward-acting garage door hardware fastens to side of door jamba, requires



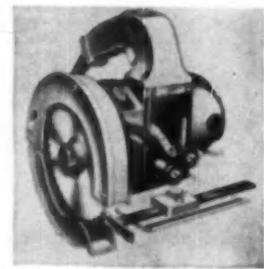
only eight inches of overhead clearance and operates doors up to seven feet high weighing up to 300 pounds. Easy balance adjustment with turn buckle speeds installation. Unit is delivered 95 per cent assembled. Halmes Manufacturing Co., Dept. AB, 211 N. Madison Ave., Los Angeles 4, Calif.

### GYPSUM WALLBOARD **ABB5005**

Firestop Best-wall gypsum wallboard has certain incombustible ingredients added to gypsum core which alter characteristics under heat. Single layer 5/8-inch-thick, applied on both sides of load-bearing wood stud partition, has fire-resistance rating of one hour. Single layer of 1/2-inch thickness on similar construction has 45 minute rating. Board and bundles carry Underwriters Laboratories seal. Board is made with recessed edges. High-quality tape and joint finisher is supplied by manufacturer. Sheets four feet wide, six to 12 feet long, are 1/2-inch and 5/8-inch thick. Certain-feed Products Corp., Dept. AB, 120 E. Lancaster Ave., Ardmore, Pa.

### ELECTRIC HAND SAW **ABB5013**

New Sioux electric hand saw has two-inch depth-cutting capacity with saw blade 6 1/2 inches in diameter. Unit has adjustable rip scale



drive, base adjustment, and cuts bevels 0 to 45 degrees at 1 1/2 inch depth. Powered by 115 volt, 8 ampere motor, turns at 5300 r.p.m. free speed. Ball and roller bearings are used throughout. Blower keeps cut free of sawdust. Saw switch is double pole, momentary safety type. Units come complete in case with blade and wrench. Albertson and Company Inc., Dept. AB, Sioux City 3, Iowa

(Continued on page 144)

THIS  
FEATURE

CLOSED  
THE  
SALE!



## R·O·W *Removable* Wood Windows

The customer watching REMOVABLE demonstration feature of R·O·W Windows has made it the largest selling wood window in the world. Women—the real force in home buying—decide to BUY when they see an R·O·W wood sash REMOVED. "So much easier for washing both sides indoors—and painting, too", they say.



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**COMPARE WITH ALL OTHERS...**



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Features listed below have an important bearing on the amazing success dealers, contractors and architects are experiencing with **HASTINGS alumitile**, the exciting, modern, new wall facing. You, too, can enjoy increased profits from handling and recommending this well known line.

1. *Alumitile* is formed after it is painted—an unusual feature. Won't chip, crack, peel or corrode. Enamel finish permanently bonded to aircraft aluminum.
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3. Fourteen vital colors, available in tile of various patterns, for attractive lettering and unusual designs. Does the tile you are handling have this "self-decorating" feature? Can you do better with it, as you can with *alumitile*?
4. *Fluoropend, rustproof, waterproof.* Resistant to common acids. No unsightly mortar lines to collect dirt and grease. Easy to clean... sanitary... beautiful. Guaranteed long life.
5. Adapted to both interior and exterior use, with a choice of finish. *Service countless uses* for homes, institutions, commercial buildings. Compare *alumitile* with other tile for flexibility.
6. *Light in weight*... 120 sq. ft. weigh only 37 lbs. Easy to handle, lower shipping costs. Strength without bulk... requires less storage space. Easy to apply... saves labor hours.

### VERSATILE TILE CUTTER

A handy tool that applications who have used it would not be without. Trims and makes a perfect factory level. Four dies in one... cuts as small as 1/2" and up to 10". Does a professional job. Supplier for Metal Tile Products as one of the "extras" for which *alumitile* is famous.

The St. Joseph Hospital of Bangor, Maine, writes of **HASTINGS alumitile**, "We are happy to announce what satisfaction and pleasant atmosphere it brought and how daily maintenance problems have been cleared right along." The Atlanta-Biltmore Hotel says, "After extensive and rigid tests, we decided to install *alumitile* throughout the hotel."



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## NEW PRODUCTS

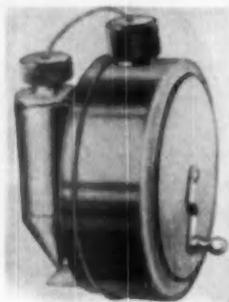
(Continued from page 142)

### MASONRY WATERPROOFING ABB5034

Tufseal waterproofing for over masonry walls is a non-soluble mineral gum. Protects against acid climate disintegration and prevents absorption of grease, dirt, soot. Tufseal is easily applied with brush and may be colored. One gallon covers 100 square feet for recommended two coats. Also protects surface from dampness, alkali and efflorescence by preventing moisture from entering pores of concrete, brick, stone and wood. Tufseal Company, Dept. AB, Des Moines 7, Iowa.

### REEL AND PLUMB BOB ABB5016

Dandee #1 reel and plumb bob has spring bracket attached to reel for building bob which weighs eight ounces—and is made from heat-



treated steel chrome plated. Reels contain 100 feet of #18 yellow mason line. Spring brake prevents backlash when line is pulled too rapidly. Cover can be snapped off readily and chalk added. Cedarberg Manufacturing Company, Inc. Dept. AB, 529 South Fourth St., Minneapolis, Minn.

### DEBRIS DISPOSAL UNIT ABB5019

Model D 1 Republic "Duo-Way" gas disposal unit has two compartments—one for drying, one for burning debris. Since garbage and similar debris is dried first, burning action is complete



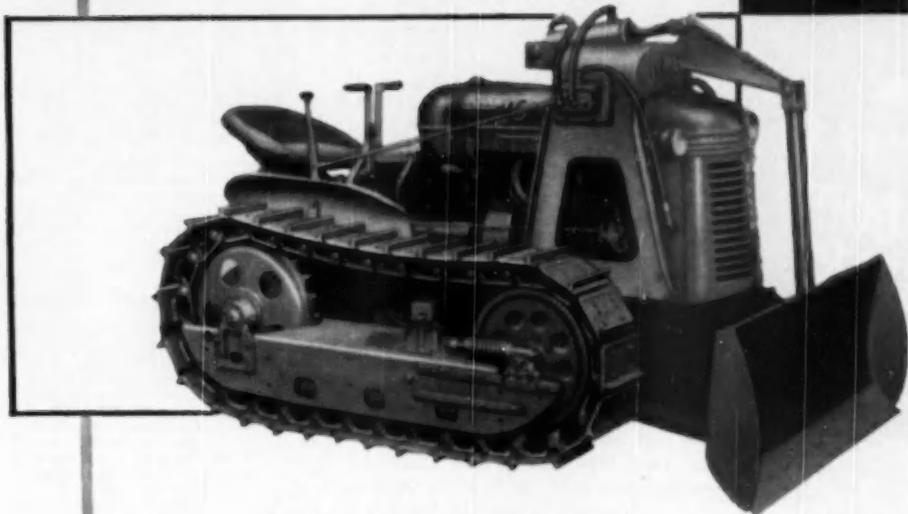
leaving only fine ash automatically swept into large ash drawer. All accessible outside surfaces are insulated with one inch of asbestos. Dimensions are: height-36 inches; diameter-24 inches; A 3/4-inch gas connection and a five-inch flue are required. Autogas Company, Dept. AB, 2153 W. Fullerton Ave., Chicago 47, Ill.

(Continued on page 146)

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**"HG"**



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To handle the extra load and strains of mounted equipment, the main frame, transmission case and drawbar bracket assembly have been materially strengthened. No loads are imposed on final drive spacer casting. Power take-off is heavier . . . stronger.

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Final drive has been redesigned for greater physical strength and durability.

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where the  
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It's the little "extras" that soften up prospects... pave the way for sales. Like the friendly, musical greeting of an EDWARDS DOOR CHIME. Worth far more than its modest installation cost, builders agree, because it starts selling at the front door—where your sale begins!

# EDWARDS

## Door Chimes

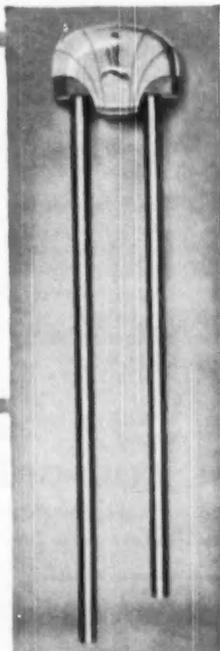
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Dollar for dollar, there isn't a door chime on the market that can touch an Edwards for decorative value, musical perfection and trouble-free service!

**The New WEDGWOOD** →

for example . . . sounds a soft, clear two-note melody for the front door . . . single note for rear entrance. Designed to grace "problem" walls with beauty. Crystallized ivory plastic with bright gilt ribbing. **OVERALL SIZE:** 44" high, 7½" wide, 2½" deep. (Also with silent center third tube.)

**Edwards Company Inc., Norwalk, Conn.**  
In Canada, Edwards of Canada, Ltd.



## NEW PRODUCTS

(Continued from page 144)

### FIRE ALARM

AB85053

Sevante fire alarm system, designed for homes, motels, apartments, cabins and similar buildings consists of 12 thermostats, two enclosed bells, one 110-volt a.c. transformer (or 6-volt battery), and 150 feet of plastic-coated, twisted electric



wire for an average six-room home. Ten thermostats are set at 135 degrees; two are set at 165 degrees for installation over heating units and in attic. Bells may be located in any part of house or an exterior. Bell rings to warn of fire. F. Cecil Brown Co., Dept. AB, 1001 N. Vermont Ave., Los Angeles 27, Calif.

### DRY-WALL PRIMER-SEALER

AB85027

Pigmented wall primer-sealer designed for interior walls of plaster, masonry or composition wallboard seals porous surfaces in one application with easy brushing to provide firm adhesion and controlled penetration. Also permits use of deep-tone flat colors without cloudiness or "shiners" over patched joints in dry wall construction. Primer-sealer can also be used as undercoat in refinishing work or as primer coat for combination masonry and plaster and wood. Made in non-blued white, product can be tinted. Devco and Reynolds, Inc., Dept. AB, 789 First Avenue, New York, N. Y.

### PORTABLE ELECTRIC HEATER

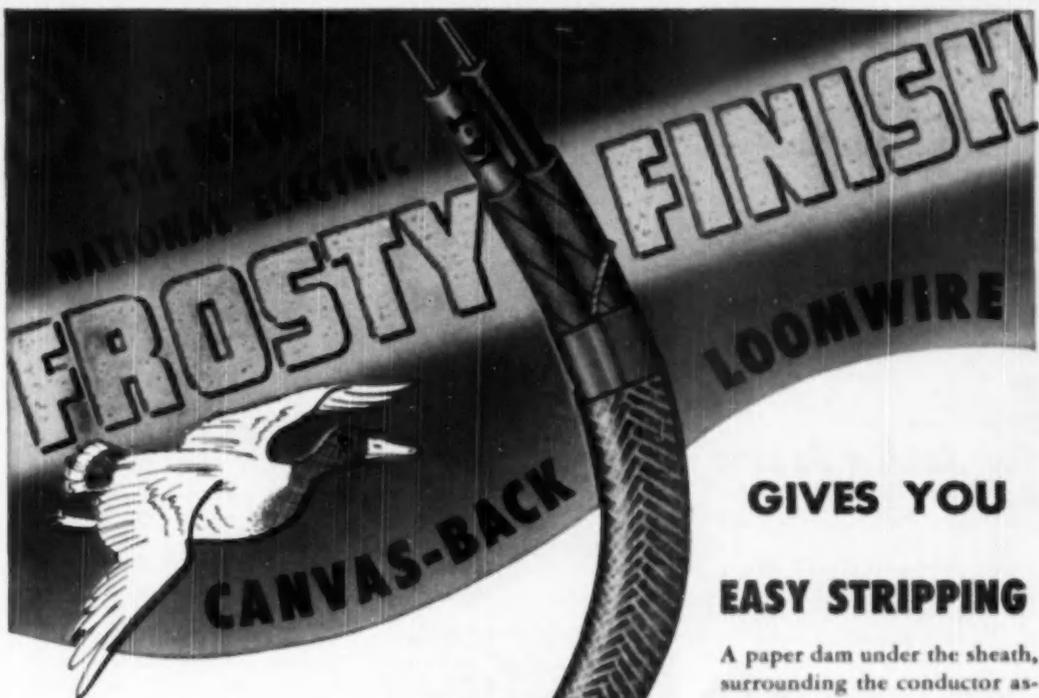
AB85062

Fully automatic, heavy duty, portable electric heater with built-in thermostat, designated model PA, has only to be plugged in with dial set at temperature desired to get fan-circulated heat. A carrying handle is fastened to top. Silver



grey cabinet with chrome trim is constructed of heavy furniture steel, has smooth edges, rounded corners and rubber feet that will not mar floors. Dimensions are 23½ inches high, 17 inches wide and 6½ inches deep. Each heater is supplied with six feet of cord with plug. This Electromode heater has patented Safety-grid lifetime heating element and automatic safety shut-off switch which prevents overheating. It has no exposed hot wires or coils. Unit operates on 240 volts and is available in 3000 and 4000 watt capacities. Electromode Corp., Dept. AB, 45 Crouch Street, Rochester 3, N. Y.

(Continued on page 148)



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Reports:

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ROBBING  
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Merely pull Knob and Cutting Head is free for fingertip setting in desired angle. Releases knob and Head Locks in desired position.

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## NEW PRODUCTS

(Continued from page 146)

### HOLLOW METAL DOORS ABB5057

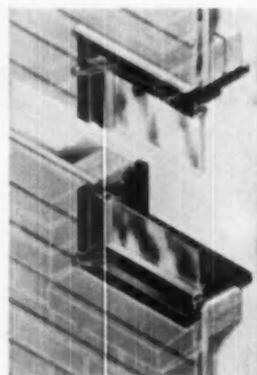
Hollow metal doors, frames and sliding closet doors are made in wide range of standard sizes and styles. Of welded steel construction throughout, hollow metal frames can be quickly set into



place. Shipped in a single piece, no assembly on site is required. Trimming and mortising are eliminated. Doors will not warp, crack, or shrink. Treated with rust-inhibiting Duridone (a coating which assures good paint adhesion) they have a lasting, chip-resistant finish. Fabricated of 20-gauge steel, they furnish an extra margin of fire safety and security. Diebold, Inc., Dept. AB, Canton, Ohio.

### CASEMENT WINDOW UNIT WITH TRIM ABB5055

Combining complete outside and inside metal trim with Fenestra residence steel casement and hardware, new window unit provides simplified low-cost installation of one complete assembly. Casement window, screen and storm sash have Bondersized, prime coated frames and bronze-lacquered hardware and screen cloth. Trim is



galvanized and Bondersized and consists of one-piece sections coped and fitted for secure attachment. Some rough opening preparation is satisfactory for frame, brick veneer or stucco. Trim makes ideal stop for butting frame, brick and stucco on outside and plaster or dry wall on inside. Inside is recessed to provide a pocket for blinds or roller shades. Head members lap jamb members making right weather-tight connections. These sections are 18-gauge; sill is 16-gauge, galvanized steel. Outside sill and inside stool project 1/2-inch beyond jamb members for appearance and weathering. Detroit Steel Products Co., Dept. AB, 3101 Griffin St., Detroit 11, Mich.

(Continued on page 150)

## CUT DOWN COSTLY SERVICE CALLS ON GARAGE DOORS



ENGINEERED BY *Tenestra*  
PIONEER MAKER OF QUALITY  
BUILDING MATERIALS



Built of steel, like a bridge—steel can't shrink, warp, sag or rot.



All-welded construction—no bolts or screws to work loose.



Galvannealing protects safely against rust.



Dependable hardware—nothing to go wrong.

**FEWER SERVICE CALLS . . .** Strand Doors are engineered for satisfactory operation . . . their rugged construction and built-in dependability mean satisfied owners . . . save "grief" for the builder.

**STRONGER, MORE DURABLE . . .** Strand All-Steel Doors are welded throughout. No bolts or screws to work loose. Steel can't shrink, warp, swell or rot. Galvannealed—heavily galvanized for protection, then annealed to hold finish coat of paint. Prime coat not needed.

**SAVE INSTALLATION TIME . . .** the one-piece door leaf eliminates field assembly of single doors. Hardware is packaged; door is quick and easy to install with simple tools.

**LOWER FIRST COST . . .** Large scale production in one plant—and standardization on 3 models—explain why this is America's biggest garage door value!

*Strand Doors are available in Canopy and Recessed (track) types for 8' x 7' opening; there's a Double Garage Door (track type only) for 16' x 7' opening unobstructed by center post. 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. AS-8, 2342 E. Grand Blvd.  
Detroit 11, Michigan

Please mark detailed description of Strand all-steel Garage Doors for 8' x 7' and 16' x 7' garage openings.

I am a  Builder  Dealer  Prospective Owner  Other

Name \_\_\_\_\_

Address \_\_\_\_\_

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

Silent as a



shadow

and smooth as silk!



### For Thin-Wall Installations

Those who know agree on one thing — vanishing doors must be noiseless and effortless to operate. And that is why more and more builders insist on R-W Silver Streak Vanishing Door Hangers and Track . . . it's got exactly what they want.

Specially designed for light-weight vanishing doors in thin-wall pockets built in standard 2" x 4" studded partitions, Silver Streak is also for use on parallel residential wardrobe doors 1/4" or more in thickness. The hanger wheel, made of fine-weave cloth base bakelite, and equipped with high-finish ball bearings, gives longer wear and quiet super-smooth operation.

The track is extra heavy section, hard composition extruded aluminum. Screws are easily inserted. Only rounded surfaces of the floor guide come in contact with the door groove, preventing scraping and assuring smoother quieter performance.

For maximum satisfaction and economy, the logical choice is R-W No. 1019 Silver Streak.



OVER 70 YEARS

## Richards-Wilcox Mfg. Co.

"A HANGER FOR ANY DOOR THAT SLIDES"  
AURORA, ILLINOIS, U.S.A. Branches in all principal cities

SLIDING DOOR HANGERS & TRACKS • FIRE DOORS & PICTURES • GARAGE DOORS & EQUIPMENT  
INDUSTRIAL CONVEYERS & CRANES • SCHOOL WARDROBES & PARTITIONS  
ELEVATOR DOOR OPERATING EQUIPMENT

## NEW PRODUCTS

(Continued from page 148)

### INTERMEDIATE WEIGHT STEEL WINDOW AB85056

New type intermediate weight steel window has these advantages: increased light effectiveness, marked economy in original cost, superior maintenance factors in terms of window washing and



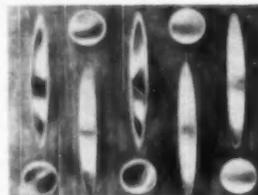
glass replacement. This Truscan window is custom-built in widths up to 10 feet maximum and in heights up to nine feet. Alternate glazing possibilities, depending on geographical location, climatic conditions and degree of exposure to direct sun rays are: double insulating glass, heat absorbing glass, non-glare glass; and either or both lower panels may be vented as desired. Truscan Steel Co., Advertising Department AB, Youngtown 1, Ohio

### "CARRY-ALL" TRUCK BODIES AB85061

Two new Morrison "Carry-All" models B-750 (shown above) and B-910 give greater capacity for heavier payloads and fit all standard 1/2, 3/4, and 1-ton new and used truck chassis. Heavy gauge steel construction and bridge-type underbody make possible lighter over-all weight. Model B-750 has 75-inch body with 32 cubic feet compartment area, 25 square feet of floor area. Model B-910 is 91.5 inches long with 37 1/2 cubic feet compartment area and over 30 1/2 square feet floor area. Bodies measure 48 1/2 inches wide inside and have non-skid 16-gauge floor. Standard optional parts include ladder racks, canvas tops, sliding metal roofs, shelves and side boxes. Morrison Steel Products, Inc., Dept. AB, Buffalo, N. Y.

### CABINET PULLS AND KNOBS AB85026

Larger finger clearances are offered by these pulls and knobs with high lustrous finishes in chrome, brass, bronze, dull brass, and dull



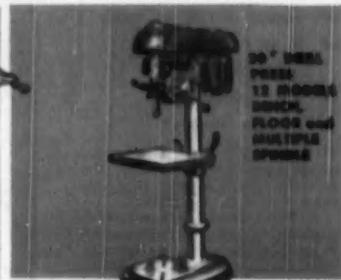
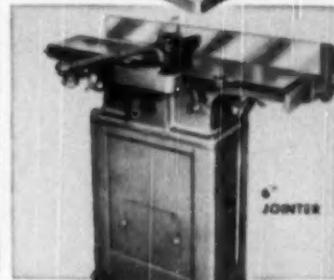
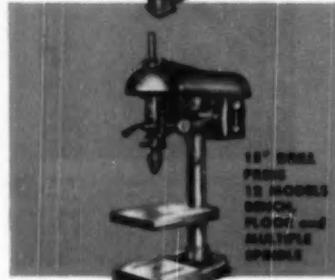
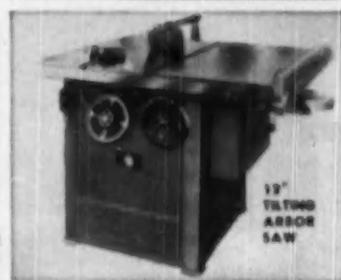
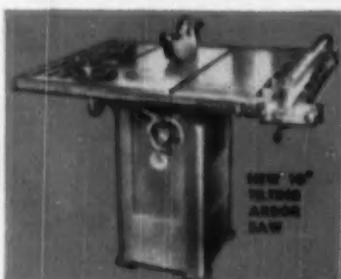
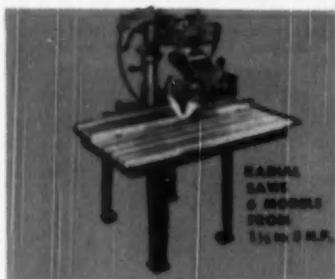
bronze. Pulls are 4 1/4 inches long with three-inch spread between screw holes. Knobs are 1-1/16 inches in over-all diameter, 15/16 inches high. Myer Hardware Manufacturing Co., Division of International Research Corp., 2832 Olympic Blvd., Los Angeles 23, Calif.

### WALL COVERING AB85030

Wall-Tex fabric wall coverings, in addition to their decorative purposes, help prevent plaster cracking. There are 200 new patterns and colors in the 1950 line. Columbus Coated Fabrics Corporation, Columbus, Ohio

(Continued on page 152)

# A model to fit your needs...



DRILL PRESSES • BAND SAWS  
RADIAL SAWS • JOINTERS  
BELT AND DISC SURFACERS  
LATHES • TABLE SAWS  
JIG SAWS • TILTING ACTION SAWS

There's a Walker-Turner Machine—designed with industry's special needs in mind—for practically every metal and woodworking requirement.

In the woodworking shop Walker-Turner radial, tilting arbor and band saws, jointers, spindle shapers and lathes quickly repay their modest investment. Drill presses, metal cutting band saws, radial drills, cut-off machines and flexible shafts cut metal working costs.

If you are not taking advantage of Walker-Turner functional design in your plant call in your local Walker-Turner distributor. He'll be glad to show you what others are doing—and what you can do—to save on machine investment and operating cost. Write for new industrial catalog. Address Department ABB.

**KEARNEY & TRECKER**  
**MILWAUKEE**  
**WALKER-TURNER DIVISION**  
PLAINFIELD, NEW JERSEY

SOLD ONLY THROUGH AUTHORIZED DEALERS

Consult your plumber for  
the latest up-to-date  
models of...



# Fiat Shower Cabinets

- ✓ Save labor, speed installation time
- ✓ Lower installed cost
- ✓ Beautiful, modern, distinctive
- ✓ Eye appeal to home buyers

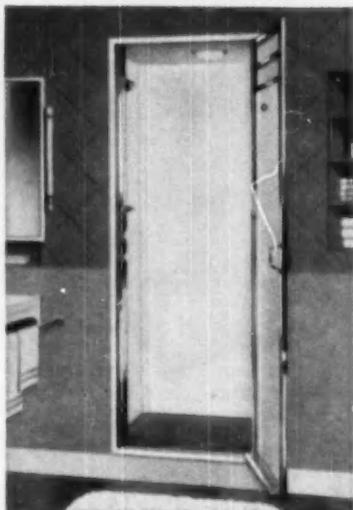
Unsurpassed for beauty and ultra-smart appearance, the new Fiat Built-in Cadet shower will add sales appeal to any home.

It saves considerably on shower installation cost by eliminating expensive tile work on the job. Builders report savings of \$40.00 to \$60.00 and more per unit.

Check with your plumbing contractor for details on Fiat Shower models. The Built-in Cadet shower is designed especially for medium and high grade bathrooms.

Use coupon for catalog of complete line of Fiat showers.

New Built-in Model 198  
Cadet bathroom shower



## FIAT METAL MANUFACTURING CO.

THREE COMPLETE MANUFACTURING PLANTS

(Chicago area plant) Franklin Park, Ill.

Long Island City 1, N. Y. Los Angeles 33, Calif.

In Canada: Fiat showers are made by Paratation and Metal Products, Ltd., Oshawa, Ontario

**FIAT**

Please send catalog of Fiat Showers, Receptors and Doors.  
Also builders bathroom floor sheet.

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_  
Zone \_\_\_\_\_ State \_\_\_\_\_

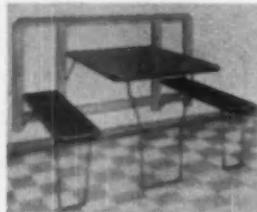
Mail to FIAT METAL MFG. COMPANY • 9301 W. Belmont Ave. • Franklin Park, Ill.

## NEW PRODUCTS

(Continued from page 150)

### FOLDING BREAKFAST SET A885033

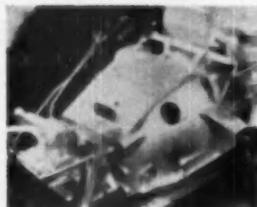
This space-saving set projects only 1½ inches from the wall but opens to form a 30 by 26-inch table with two seats to accommodate four adults. Table top and seats are made of



¾-inch fir plywood. Top is covered with Formica in choice of colors. Chrome trim is used on edges of table and seats. Unit clips to wall and may be removed for redecorating. Wall space required is 60 inches long and 40½ inches high. Nickel plated steel legs are self-locking. Normandy Manufacturing Co., 504 Ninth Street, S. W. Cedar Rapids, Iowa

### FLUID DRIVE FOR TRUCKS A885040

Dodge is now offering grol fluid drive on "Job-Bated" trucks with nominal ratings of ½, ¾ and 1-ton. The housing of the grol fluid drive



unit (shown above) is mounted between the engine and transmission. It contains clutch and fluid drive coupling. Inside, two fan-like members face each other in an air-tight housing partly filled with oil. Oil acts as cushion on power train. By eliminating rigid mechanical connection, fluid drive provides smooth starting, safe ride for truckloads and less gear shifting. Dodge Division, Chrysler Corp., Dept. AB, Detroit 31, Mich.

### FRAMELESS TENSION SCREEN A885058

Designed for double-lung windows, new tension screen can be quickly installed without tedious



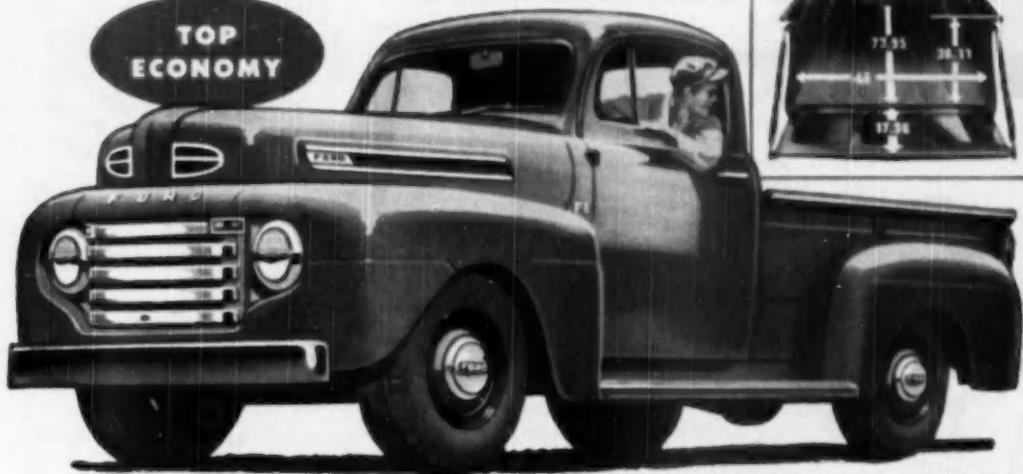
fitting. Screens are easily attached on upper blind stop with sliding fastener and drawn taut at sill with tension screw. Tension is maintained on sides by five-strand selvage edge, and free-floating sill bar at bottom corrects out-of-square sills. Unit is rust- and stain-resistant, easy to store and neat appearing. Keystone Wire Cloth Co., Dept. AB, Hanover, Pa.

(Continued on page 154)

# For Light Construction work

**BIG LOAD  
CAPACITY**

**TOP  
ECONOMY**



616-lb. Ford F-1 Pickup shown here. G.V.W. rating—4,700 lbs. Body capacity—45 cu. ft. Payload 1,600 lbs. Available with 95-h.p. Six or 100-h.p. V-8. One of over 175 models including 145-h.p. Big Jobs.

## America's No. 1 Economy Pickup



**10 WAYS BETTER  
THAN THE 4 OTHER  
LEADING MAKES**

● You get so many *extra values* at no extra cost in the Ford F-1 Pickup. There isn't another full-size Pickup that carries a lower list price than the 6-cylinder Ford. And it's 10 ways better than the 4 other leading makes.

1. Lowest loading height (34 inches).
2. Up to 15% greater frame section modulus.
3. Up to 18% more brake lining area.
4. 10" Gyro-Grip clutch with needle bearing release levers.
5. Lighter curb weight—only 3,220 lbs.
6. Higher net torque.
7. Higher compression ratio.
8. Oil filter (standard).
9. One-quart oil bath air cleaner (standard).
10. "Million-dollar" Cab for extra driver comfort, roominess and safety.

Truck users are switching to Ford Trucks for extra value. That's why Ford Trucks are currently making the industry's biggest sales gains.

Switch to Ford—America's No. 1 Truck Value. Over 175 models to fit your job—95-h.p. Pickups to 145-h.p. Big Jobs. Ford's the only truck in America that gives you a choice of 6-cylinder or V-8 power.

★ ★ ★

For bigger, heavier loads, choose the 8-ft. long, 34-in. wide Express body, available on Ford Series F-2 rated up to 5,700 lbs. G.V.W., and Series F-3 rated up to 6,800 lbs., 122-in. wheelbase.

**MAIL THIS COUPON TODAY!**

FORD Division of FORD MOTOR COMPANY  
2369 Schaefer Rd., Dearborn, Mich.

Send me without charge or obligation, detail specifications on Ford Trucks for 1950.

FULL LINE  HEAVY DUTY MODELS   
LIGHT MODELS  EXTRA HEAVY DUTY MODELS

Name \_\_\_\_\_  
(Please print plainly)

Address \_\_\_\_\_

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

**Ford Trucking Costs Less Because—  
FORD TRUCKS  
LAST LONGER**

Using latest registration data on 6,593,000 trucks,  
life insurance experts prove Ford Trucks last longer!

# it pays to **FAN-PLAN** with EMERSON-ELECTRIC **Kitchen Ventilators**

to meet your specifications . . .

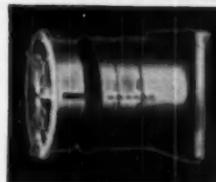


- Wall Model:**
1. Double-robot-sealed outer door prevents inside moisture condensation, gives weather protection.
  2. Telescoping adjustable sleeve fits walls 3 1/4" to 13".
  3. Square outside frame, easy to brick or frame around.
  4. Convenient chain actuates fan switch and outer door.
- Ceiling Model:**
1. Adjustable sleeve joint in ceiling housing fits standard 3 1/4" x 10" rectangular duct, for necessary extensions.
  2. Outside grille has angle baffles for weather protection.
  3. Automatic shutter closes duct when fan is not operating.
  4. Can be operated by drop chain from fan or wall switch.
- Both Models:**
1. Dependable Emerson-Electric induction motors, with thrust bearings.
  2. Quiet-type 10" blade moves 470 CFM, a complete air change every 2 minutes for average kitchen.
  3. Competitively priced.

. . . and her specifications!



- Both Models:**
1. Equipped with attractive grille finished in baked white enamel.
  2. Easily cleaned and serviced—fan and grille are hinged to swing down as a unit without disconnecting.
  3. Exceptionally quiet operation—built for long, trouble-free service.
  4. Designed to quickly whisk out cooking odors, smoke, steam and heat—protects furnishings from greasy vapors.
  5. Backed by Emerson-Electric Standard Factory-No-Use Guarantee.



Wall-type Ventilator



Ceiling-type Ventilator

Refer to Emerson-Electric Catalog or Speed's Architectural or Builder's Files, or write for free Folder No. 410.

The Emerson Electric Mfg. Co.  
St. Louis 21, Mo.

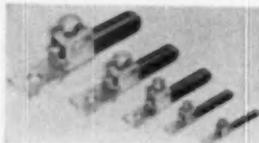
**EMERSON** EMERSON-ELECTRIC **ELECTRIC**  
MOTORS • FANS APPLIANCES

## NEW PRODUCTS

(Continued from page 152)

### PRESSURE CONNECTORS ABB5039

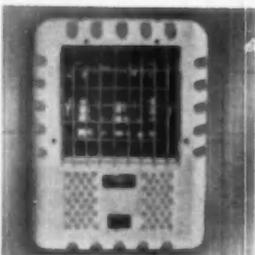
Five lug models, comprising "Wide Range" line of medium-priced pressure connectors for use with copper, aluminum or steel wire in sizes from 14 AWG to 500 MCM are now available. Assemblies are complete eliminating loose washers or parts. To provide strength for per-



manent maximum pressure, tightening bolt, guide nut and contact pad are made of steel. Positive conductivity is assured by lug body of hard-drawn electrolytic copper which also resists corrosion tracking. Entire unit is cadmium plated for corrosion and oxidizing protection. Each connector handles a wide range of wire and cable sizes. The three smaller sizes, NE 35, 60 and 100 are installed with screw driver; larger sizes, NE 200 and 400, with a wrench. All sizes are made with minimum over-all dimensions to expedite installation. National Electric Products Corp., Dept. AB, Chamber of Commerce Building, Pittsburgh 19, Pa.

### ELECTRIC HEATER ABB5063

This Titan electrical wall heater provides both infra-red and fan-forced heat even under low voltage conditions. The 1600 watt, 110-120 volt 60 cycle, A.C. model 600 series shown above



is finished in white baked enamel or chrome. Unit is as easy to install as an outlet box. It is listed under the Re-Examination Service of Underwriters Laboratories, Inc. The front panel measures 16 by 14 inches. The wall box is 3 by 9 by 1 1/2 inches. Heater is ideal for baths and similar rooms. Titan Manufacturing Company, Inc., Bufile 2, N. Y.

### CLOCK-DOOR CHIME ABB5035

A kitchen clock-door chime is available. Can be installed over a clock hanger outlet. Unit contains a self-starting electric clock with a silent, sealed-in oil mechanism and a high-volume resonator type door chime that sounds two notes for front door, one for rear. Clock face measures five inches square. Overall size is 9 by 8 1/2 by 3 1/2 inches. Liberty Bell Manufacturing Company, Minerva, Ohio.

### GAS WATER HEATER ABB5064

The White automatic gas water heater is equipped with Robertson-Grayson thermostatic controls for accurate temperature settings. Two burning units are available for use with either LP, natural and manufactured gas or with natural and manufactured gases only. Heat is

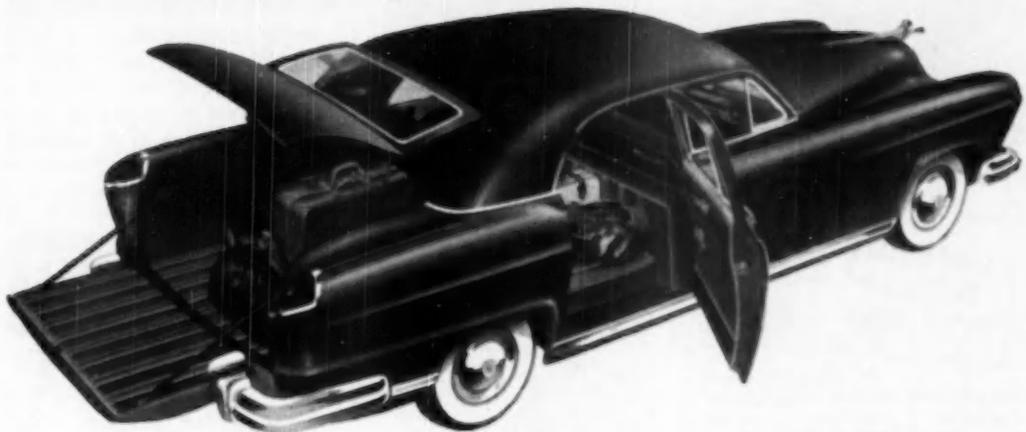
(Continued on page 156)

AMERICAN BUILDER

*It's a carpenter's pick-up  
and a family sedan!*

# The 1951 FRAZER

*2-cars-in-1 Vagabond*



*"Better than a panel truck."*

*One look convinced Carpenter Earl Smith, of Chicago, how useful a car like this could be.*

*Not only does he haul all his carpenter's equipment in the spacious cargo hold, but in his own words his car "is more efficient and economical than a panel truck."*

*In a jiffy, Mr. Smith converts his car into a sedan for family use. "I actually got two cars for the price of one," he says, adding that "this is by far the most useful car a carpenter can own!"*

For work, it's a roomy pick-up vehicle... ideal for hauling tools, lumber and other equipment... *everything* a carpenter needs on the job. After hours, it's a six-passenger sedan... with all the luxurious riding comfort every family wants.

That's why carpenters say the 2-cars-in-1 Frazer Vagabond is the *handiest* car they could own!

With the back of the rear seat forming part of the level deck, the Vagabond provides a huge cargo hold of 130 cubic feet. Easy to load and unload, easy to handle, it gives you the *convenience* of a pick-up van... the comfort and *prestige* of a stylish sedan.

And in just ten seconds it converts into a handsome family car... powered by the rugged new 115 h.p. Supersonic High-Torque Engine... brimming over with the *handcrafted* quality that marks all Frazer models.

See your Kaiser-Frazer dealer now. See why the ingenious Frazer Vagabond is the most useful car you can own!

### *The Pride of Willow Run!*

Kaiser-Frazer Sales Corp., Rm. 206 Q, Administration Bldg., Willow Run, Mich.

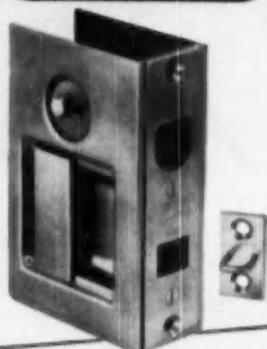
Gentlemen: Please send me complete information about the new '51 Frazer Vagabond and tell me when I can see one.

name.....

address.....

city..... state.....

**NEW SERIES 500  
RITE-LOCK  
FOR SLIDING DOORS**



**NOW-FULLY  
REVERSIBLE**



**3 ADJUSTABLE  
WIDTHS FIT  
1 1/2" - 2" DOORS**



Here is the most versatile lock for every sliding door application. It is adaptable to any requirement as to hand, security and finish... while the three standard sizes adjust to fit any door thickness, 1 1/2" to 2"

The thumb button, emergency or blank discs or cylinder can be interchanged from side to side on the job. This means that dealers can supply any combination required by merely stocking a few representative discs and cylinders in popular finishes.

Rite-Lock is easily installed by a simple cut-out without any mortising. The escutcheon measures 4 1/2" x 2 1/2". All exterior parts solid brass. Write us on your letterhead for the new Adams-Rite Catalog 49.

**CYLINDER DEADLOCK FOR SLIDING DOORS**

This cylinder deadlock operates by cylinder from one or both sides. Fits all standard cylinders with adapter cone furnished (specify when using Yale or Sargent cylinder). Solid bronze face, strike and bolt. Heat treated aluminum alloy case. Use your own cylinders and trim. Also used as jimmy-proof lock.

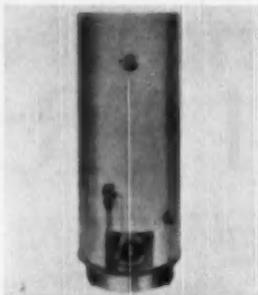


**ADAMS-RITE MANUFACTURING CO.**

**NEW PRODUCTS**

*(Continued from page 154)*

kept in the heart of the tank with a spiral flow baffle to assure maximum heat utilization.

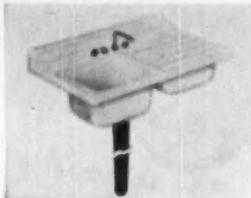


Unit welding permits uniform expansion and contraction of tank walls. White enamel finishes are baked on. White Fiberglas insulation keeps the water hot. Model 30 shown has 30 gallon capacity. White Products Corporation, Middleville, Mich.

**SINK AND TRAY COMBINATION**

**AB85039**

Especially designed for homes and apartments where a separate laundry cannot be provided, this new unit consists of a sink bowl eight inches deep and a tray bowl 12 inches deep.



The porcelain-on-sink combination, formed from 14 gauge enameling steel, has a removable drainboard that slides smoothly from sink to tray and a faucet ledge that accommodates a hot and cold mixing faucet and a disappearing spray hose. Can be installed on any stand and sink cabinet or with leg. Over all size is 48 by 25 inches. Alliance Ware, Inc., Alliance, Ohio.

**HARDWARE DISPLAY**

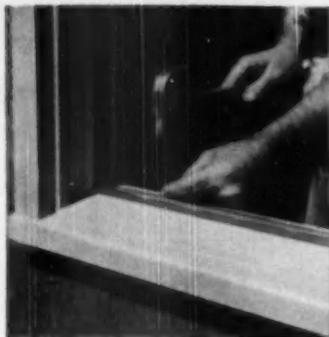
**AB85031**

Amerock's new convention display, being shown at leading hardware and lumber dealer conventions during 1950, features "matched" cabinet hardware in chromium and color as



well as brass items, bronze items, and the new "Colonial Heart" pattern in weathered oak black wren finish. Displayed Whiteite sash lock has both complete lock and seating action. A motor driven door demonstrates smooth, positive action of rubber roller spring catch with shock absorber action. American Cabinet Hardware Corp., 416 S. Main Street, Rockford, Ill. (Continued on page 158)

**metal weather strip NAILS**



Preferred everywhere by the trade for many years. Made with barbed shanks and suitably plated for maximum resistance to elements. Available in one, two or five pound packages and in bulk. Immediate delivery.

**JOHN HASSALL, INC.**

182 Clay Street  
Brooklyn 22, N. Y.  
Established 1850



**BRAND NEW**

**FACTORY  
Surplus  
SALE!**

**PORTABLE  
MULTI-USE  
POWER  
SAW**



**SAVE  
\$300  
WAS \$485.00  
NOW \$188.00**

FOR MINNEAPOLIS, MINNESOTA

- CUTS WOOD
- CUTS BRICK
- CUTS CONCRETE
- CUTS METAL

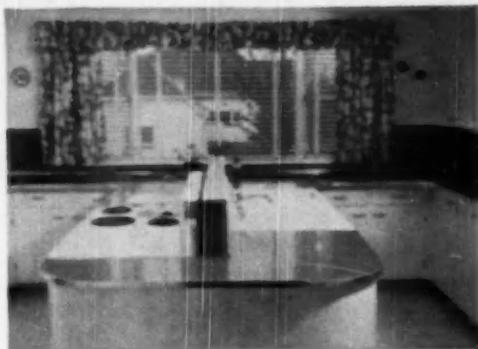
America's greatest saw bargain! Cuts lumber to 4" thick, Briggs & Stratton 3 1/2 H.P. gas engine. Saw cuts fluo lining, transite pipes, steel sheets, copper & aluminum, etc. Does work of \$1,000 worth of saw equipment. Sharpest teeth. Famous make, brand new, original crates. Limited supply. Send for literature.

**ENNIS SUPPLY CO.**

134 1st St. N., Minneapolis 1, Minn., U.S.A.

**AMERICAN BUILDER**

## Divided Work Centers Save Steps in Kitchen

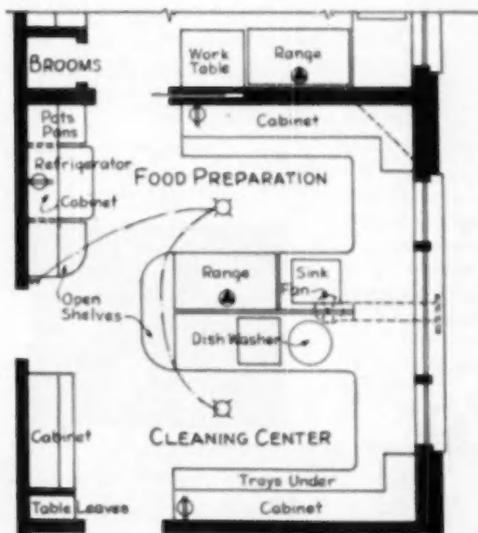


CENTER "island" is formed by separation of centers

**A** KITCHEN divided into two clearly-defined centers—food preparation and cleaning—and so arranged that the extremities of the center being used are only two steps apart is proving a valuable step-saver in the home of Mr. and Mrs. H. E. Olson of Seattle.

Over-all size of the room is 13-6x14 feet. Running water is available on both sides of the center peninsula which divides the two centers. The distance between the range and counter on the food preparation side or the dishwasher and counter on the opposite side is only about 42 inches, almost entirely eliminating steps, yet providing ample work room.

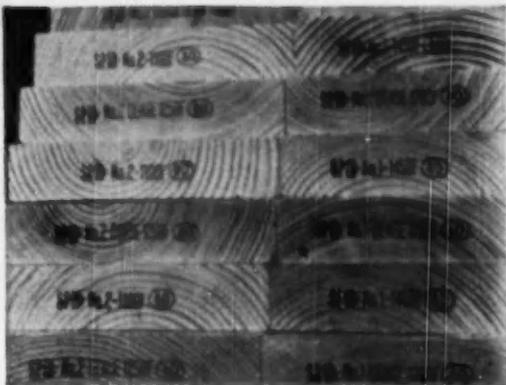
The home was designed by Stuart and Durham, architects, and built by Nels Helein and Son. The kitchen cabinets were constructed by Elmer and Moody under the direction of Mrs. Olson, who also worked with the architect in planning the kitchen. Olson is associated with the Elliot Bay Lumber Co.



MANY conveniences are contained in 100 square foot area

AUGUST, 1950

*Yes, you can get  
lumber like this!*



*Just ask your lumber dealer for*

## CROSSETT LUMBER PRODUCTS

- ✓ They're well manufactured
- ✓ They're seasoned right
- ✓ They're big mill quality
- ✓ They're dependable

NOW AVAILABLE TO YOU IN:



### ARKANSAS SOFT PINE

*Satin-like Interior Trim  
Soft Textured Sheathing  
Nail-holding Dimension*



### ROYAL OAK FLOORING

*See them at your dealer's*

**CROSSETT LUMBER CO. CROSSETT ARKANSAS**

and tree work schedule properly adjusted. The work estimated. The work will be cleaned up and shrubbery will be protected. We plan to install Sewer Pipe for house-to-sewer connections.

Southland & Co.

OK  
John L.



8-FT. LENGTHS

WEIGHS 2/3 LESS

ROOT-PROOF JOINTS

## NOT "PIPE DREAMS" ... BUT FACTS!

### Facts that Prove Bermico Can Slash Your Building Costs

Use Bermico and save money, time, trouble all along the line. For several reasons . . . all good: Bermico's convenient 8-foot length is so much lighter . . . weighs only a third as much as other types . . . it handles easier on truck or job. Simple as ABC to lay, too. No joining compound necessary. A few hammer blows — joints are tight! And stay tight even when the ground settles!

What's more, Bermico is rootproof and watertight . . . unaffected by atmospheric extremes. And the smooth uniform bore delivers a high capacity water flow.

Each length of Bermico must measure up to a strict and unvarying engineering standard. That explains why millions of feet of Bermico are now serving in house-to-sewer connections, septic tank disposal and drainage systems.

For the full story of how Bermico Sewer Pipe can cut costs, boost profits, streamline your effort, write to: Dept. A-18, Brown Company, 500 Fifth Ave., N. Y.

# BERMICO®

## SEWER PIPE

A PRODUCT OF BROWN COMPANY



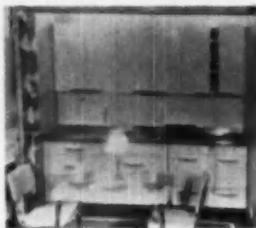
## NEW PRODUCTS

(Continued from page 156)

### UNIT KITCHEN

AB85038

Self-contained kitchen unit furnishes all equipment for kitchen work in one package. Two



sizes are available: a seven foot, six inch unit and a six foot unit. Smaller unit contains refrigerator, sink, range, and cabinets. Large unit holds refrigerator, sink, range, washing machine, and air conditioner. Earle Kitchen Unit Company, 116 E. 63rd Street, New York, N. Y.

### ELECTRIC RANGE

AB85033

This deluxe model Star electric range, model ED-494, is being introduced with two other electric ranges this month. The model shown has



four, seven-heat, double element surface units; full length top lamp; electric clock with automatic timer which controls the oven or electric appliance outlet. Range has a full size oven with temperature control, warmer drawer, and two service drawers. Automatic door stop facilitates trailing. Detroit Vapor Stove Company, Detroit, Mich.

### CABINET HARDWARE

AB85034

"Stream-a-life" racket-shaped drawer and cabinet door pulls are fabricated of solid die-cast metal, finished in chrome plate, plated finishes

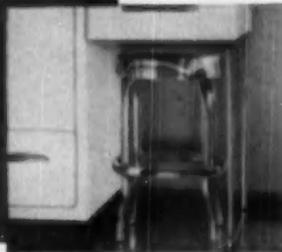


or in synthetic metal coatings to harmonize with wood colors. Units are made in two companion models, identical in contour but differing in size. Model P-1050 measures two inches overall length; model P-1051 is three inches long. Burkhard Manufacturing Company, 7356 Ten Mile Road, Centerline, Mich.

(Continued on page 160)



... of course,  
it's electric!



Use Tuck-Away space to cradle radiator or register. Or use it for storing the kitchen stool, or wastebasket.

## *Makes Space Work Overtime!* ONLY Westinghouse *Rancho* HAS IT

The new Westinghouse Rancho Range accommodates a roll-out table. In effect, you are adding 7½ square feet of table-top and shelf-area storage in addition to big range cooking capacity . . . without construction cost.

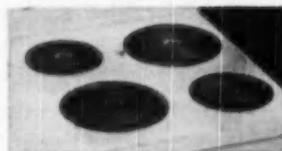
This combination offers house prospects flexibility of use. The table can be moved anywhere, can be used as a teacart. They'll like the extra-large True-Temp Oven, the four, fast Surface Units, too.

You'll like the price! It's less than any other range of the same size. You'll also like its zero Underwriters' rating. That means it can be butted against surfaces of any kind to gain space.

Phone your Westinghouse Distributor for full particulars on the Rancho . . . and roll-out table.



Extra-large True-Temp Oven gives Balanced Heat for baking. No-Draft Heat for roasting, radiant Glow-Heat for perfect broiling.



Four fast "COBOX" Surface Units, all with five controlled heats.

**WESTINGHOUSE ELECTRIC CORPORATION**  
Appliance Division • Mansfield, Ohio

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



ENTIRE SUBDIVISION

SOLD OUT IN **6 WEEKS!**



*Like the way this "Modernfold" folding wall either creates an extra bedroom or expands the living room? Schleicher's customers did, 90% insisted on this optional feature!*

### "Modernfold" Doors Big Factor in Success!

If you want to know how to sell houses fast... listen to what Schleicher's Forsythe Corp., Gary, Ind., builders, say.

*6 weeks after our Model Home Opening, we had sold out our entire subdivision of 125 homes under the \$10,000 class. "Modernfold" doors throughout the house were a vital factor in this success. Buyers were enthusiastic about the beauty and space-saving ability of these accordion-type doors... the flexibility offered by the "Modernfold" partition.*

#### Actually Saves Builders Money!

And "Modernfold" doors can actually cost no more than conventional doors because they eliminate trim, painting, hardware. Schleicher's Forsythe Corp. adds the extra thought that "Modernfold" doors saved them additional sales expense because houses sold faster. No wonder builders specify more and more "Modernfold" doors. For full details, look up our installing distributor in your classified telephone book under "doors"... or mail coupon.

Sold and Serviced Nationally



NEW CASTLE PRODUCTS, P. O. BOX 833  
NEW CASTLE, INDIANA

Gentlemen:

Please send me full details on "Modernfold" doors.

Name.....

Address.....

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

In Canada: Modernfold Door Company of Canada, Limited, Montreal.



Notice in plan how "Modernfold" doors are used in practically every room to save space—space which would be wasted with swinging doors.

Plans for builders are available by contacting Schleicher's Forsythe Corp., Gary, Indiana.



## NEW PRODUCTS

(Continued from page 158)

### AUTOMATIC CLOTHES DRYER ABB3040

In this unit, clothes are ultra-violet treated and dried at 190 degrees Fahrenheit to protect them against contamination. Heating units may be either electrical or gas. Dryer has capacity



to dry six pounds of clothes in 15 to 25 minutes ready for ironing. For bone dry clothes, 30 to 35 minutes are required. Finish is white, high-luster baked enamel with red plastic trim and chrome. Over-all dimensions are height—39 inches; width—31 inches; depth—27 1/2 inches. Hamilton Manufacturing Company, Two Rivers, Wis.

### HORIZONTAL GAS FURNACE ABB3052

Especially designed for installations where space is at premium, new horizontal gas furnace has an 80,000 B.T.U. input. Larger units are in pro-



duction. Series "H" has over-all dimensions of 50 by 14 1/2 by 16 1/2 inches, making it adapted for attic, under-floor or overhead suspension installation. Feature is conveniently located side-mounted control box containing entire group of regulating and control units. Sequoia Manufacturing Co., Dept. AB, 1000F Britton Ave., San Carlos, Calif.

### RANGE VENTILATOR ABB3037

This kitchen range ventilator consists of a canopy-type hood to go over a kitchen range.



It has a built-in fan and light unit. Model shown is 42 inches wide with a six-inch exhaust pipe. Other sizes are available. Bar-Brook Manufacturing Co., Inc., 6133 Linwood Ave., Shevport, La.

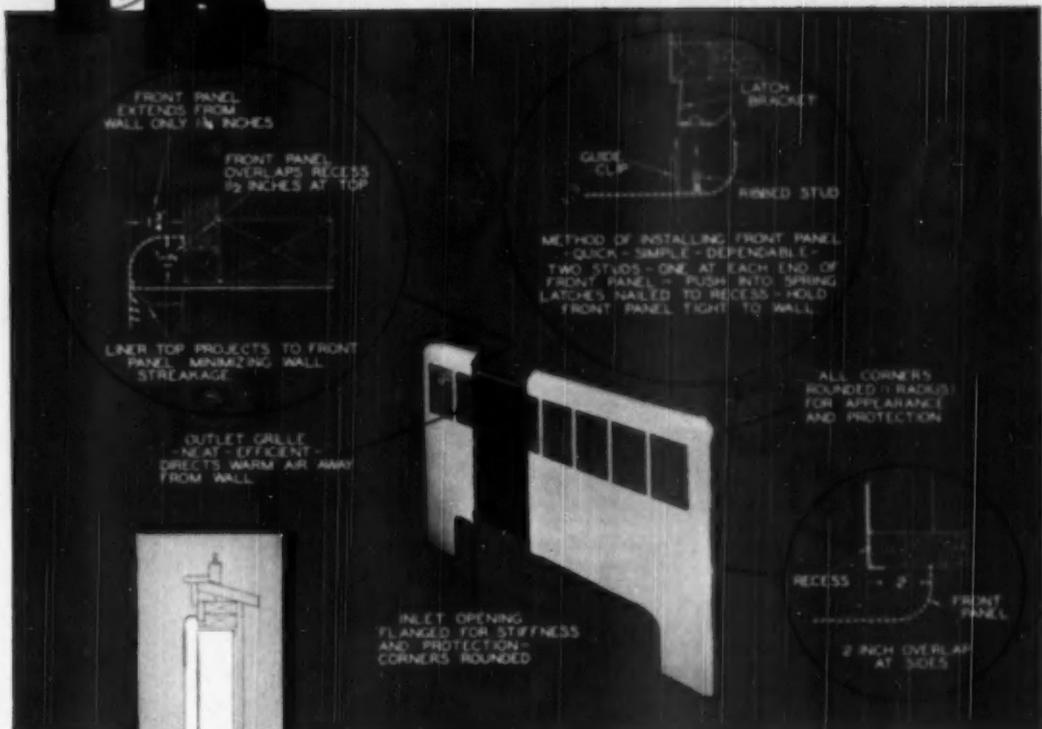
(Continued on page 162)

AMERICAN BUILDER

# T & B

## TYPE R CONVECTORS

DESIGNED *Exclusively* FOR RECESSED INSTALLATION



### TYPE S

### wall hung

#### CONVECTORS



Designed for commercial, institutional, and industrial installations. Send for Bulletin 500.

*Appearance plus the space-saving feature of recessed convectors are important homeowner appeals. However, if ordinary cabinet type convectors are recessed, there is a good possibility that sooner or later, the wall plaster around the unit will crack and mar an otherwise satisfactory job.*

*Exclusively designed for recessed installation, Tuttle & Bailey Type R Convectors solve this problem. Constructed with a front panel that extends beyond edges of the recess, sufficient overlap is provided to cover the wall plaster line . . . and your customer is sure of a permanently neat, trim installation.*

ASK YOUR JOBBER

# TUTTLE & BAILEY inc

NEW BRITAIN, CONNECTICUT

Take  
this  
step to  
profitable



# BUILDING CONTRACTS!

Want more profitable building contracts? Take the straight line to the construction market — use **DODGE REPORTS**. Don't waste time on dead-end leads where jobs are let before you have a chance to bid! Use **DODGE REPORTS** . . . you can be first, in the right place — at the right time; you know who to see and when to see them.

Right in your own business area every day, a definite number of real prospects get plans under way for

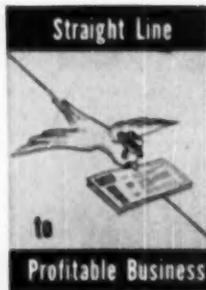
#### New Construction!

You can follow up these profitable job opportunities with **DODGE REPORTS**.

You are told exactly *where* each job is located — *what* type of materials will be needed — *who* is involved in each project (name of owner, architect, engineer, contractor) — *when* the plans will be ready for figuring and when bids must be submitted.

This is information TO HELP YOU GET PROFITABLE BUSINESS. It saves you time and "leg work." It enables you to base your estimates upon known facts . . . to time your bidding . . . to close deals at the proper moment for effective results.

Let us show you, without obligation, how **DODGE REPORTS** can mean *your* first step to profitable building contracts.



### MAIL THIS COUPON

AB-850

YES—I want to know about the profitable opportunities in **New Construction**. Without obligation, show me how I can use **DODGE REPORTS** in my business.

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**F. W. DODGE CORPORATION**

Construction News Division  
119 West 40th Street, New York 18, N. Y.



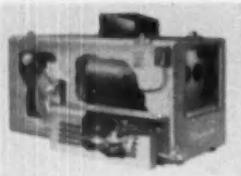
## NEW PRODUCTS

(Continued from page 160)

### HORIZONTAL AIR CONDITIONER

AB85044

Climatrol type 155 gas-fired horizontal winter air conditioner is designed for attic or crawl space installations with perimeter, zone control, radiant or conventional forced warm air sys-

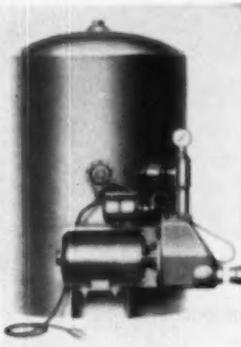


tems in basementless or ranch style homes. It is available in 60,000 or 90,000 B.T.U. input capacities. A similar new Climatrol unit, the type 151, is a blower unit heater available in four sizes: 60,000, 90,000, 120,000 and 150,000 B.T.U. input capacities. L. J. Mueller Furnace Co., Dept. AB, 2005 W. Oklahoma Ave., Milwaukee 15, Wis.

### EJECTOR PUMP

AB85041

New type horizontal ejector pump is automatically self-priming with water at 25 feet. Pump was designed to give maximum capacity at a depth of 20 feet for which this unit is especially recommended. Has no unnecessary



openings or narrow passages and requires no special adjustments to put into service. It has but one moving part and no leathers, belts or valves to replace. Impeller and built-in jet nozzle and venturi are made of bronze. A self-aligning rotary seal on the motor shaft prevents water escape and eliminates packing glands. Comes equipped with eight-foot cord and plug wired to switch and motor ready to plug in. Fairbanks, Morse & Co., Dept. AB, 600 South Michigan Ave., Chicago 5, Ill.

### SELF-SEALING REFRIGERATOR DOOR

AB85047

Two-door combination refrigerator and home freezer has self-sealing magnetic doors. One-inch Alnico magnets lining plastic door gaskets pull doors shut eliminating latch mechanism, a common source of service problems. This new model also features an unusual ice-cube tray which permits the user to remove one cube at a time—or the whole tray full; a four-pedal door opener; and improved fruit and vegetable drawers. If the householder's arms are loaded, she can open the fresh-food compartment of

(Continued on page 164)

AMERICAN BUILDER



## KENTILE FLOORS suit every type of store

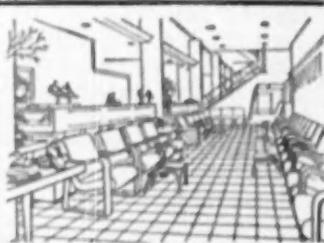
Unlimited variety of design effects with this  
low-cost, long-wearing flooring.

Kentile's 23 colors . . . plus feature strips and special inserts . . . give wide latitude for design effects. This floor blends with any type of interior . . . and lends itself particularly well to open front store design.

Yet for all its decorative appeal, Kentile is outstandingly low priced and famous for resistance to wear. Despite constant foot traffic Kentile keeps the fresh attractive appearance that builds business for the retailer. Cleaning is a simple matter with this smooth-surfaced, dirt-resistant asphalt tile. Colors go through the material—can't wear off.

Kentile can be installed on any smooth firm underfloor—no expensive sub-base necessary. You can specify it for use on concrete below grade or on sound double wood floors with top tongue boards not over 3" wide.

**KENTILE SIZES FOR EVERY INTERIOR.** Kentile is made in 9" x 9" squares. Also in special sizes—3" x 3", 3" x 6", 4" x 4", 4 1/4" x 4 1/2", 4 1/2" x 9" and diagonal tile of all sizes. Standard Kentile is 1/8 inch thick with 1/2 inch also available.



DAVID E. KENNEDY, INC., 38 Second Avenue, Brooklyn 15, N. Y.  
350 Fifth Ave., New York 1, N. Y. • 705 Architects Bldg., 17th and Sanson St.,  
Philadelphia, Pa. • 1211 N.B.C. Bldg., Cleveland 14, Ohio • 225 Moore St., S.E.,  
Atlanta 2, Ga. • Kansas City Merchandise Mart Inc., 2201-S Grand Ave., Kansas  
City 8, Mo. • 1440 11th St., Denver 4, Colo. • 4532 South Kolin Ave., Chicago 32,  
Ill. • 1113 Vine St., Houston 1, Texas • 4501 Santa Fe Ave., Los Angeles 58,  
Calif. • 95 Market St., Oakland, Calif. • 452 Statter Bldg., Boston 16, Mass.

## KENTILE®

The Permanently Beautiful  
Asphalt Tile



*Low Cost  
Self-Lighting  
FORCED AIR  
OIL FURNACE  
BY H.C. Little*



DU-44 CIBL  
Automatic,  
Forced Air  
Oil Burning  
Furnace

**Ideal for first floor  
installation in small homes**

**IT'S QUIET—**

The ONLY quiet self lighting oil furnaces are made by H. C. Little. There are no moving parts in the H. C. Little oil burner — no motors, no blowers, no hum, no roar. A big feature in selling small homes!

**COMPACT DESIGN—**

Only 22" x 22" x 60" high. Small enough to fit easily in a small utility room.

**SENDS HEAT TO EVERY ROOM**

through ducts. 78,300 BTU heat OUTPUT. Another selling feature!

**BURNS LOW COST CATALYTIC OIL**

Today's best bargain in oil for domestic heating.

Get all the facts and low prices.  
For your dealer's name, WRITE DEPT. A-8



SAN RAFAEL, CALIF.

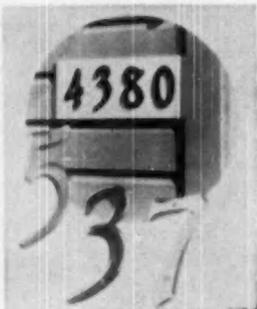
**NEW PRODUCTS**

(Continued from page 162)

this refrigerator by stepping lightly on a pedal extending three inches from the backplate at the base of the unit. Fruit and vegetable drawers are mounted on a tricycle frame equipped with rubber-tired wheels which roll along grooves to keep drawer from slipping and assuring quiet operation. New refrigerator is available in both eight and ten cubic foot models. General Electric Company, Dept. AB, Bridgeport 2, Conn.

**HOUSE NUMBERS A885042**

Luminous plastic numerals are made in red fluorescent, gold and silver finishes, and block Lucite. Numbers, 4 1/2 inches high, will glow



in the dark for several hours after being saturated with light (either artificial or natural sunlight). Each numeral is packaged separately in cellophane wrapper, complete with screws for mounting. City Molding Corp., Dept. AB, 4600 West Madison Street, Chicago 44, Ill.

**TESTING MACHINE A885043**

With capacity for handling blocks up to 12 by 16 inches, the Block Buster has flexibility to meet requirements of most cement products plants. It is constructed of heavy, welded steel

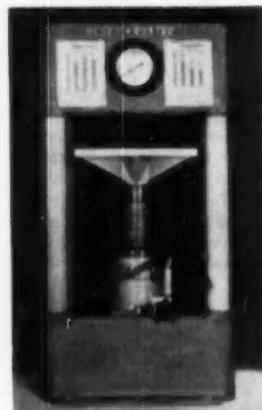


plate and tubing, carefully machined. Over-all dimensions are 54 inches high, 15 inches deep, 29 inches wide. Shipping weight: 1250 pounds. A large easy-to-read dial registers the compressive strength in tons. Attached charts convert dial reading into pounds per square inch. W. E. Dunn Manufacturing Co., Dept. AB, 551 W. 24th Street, Holland, Mich.

(Continued on page 166)

**a shopping  
center for  
builders...**



A central market place for the builder — where he can fill all his structural steel needs — that's International Steel. International will furnish you with steel, from single building items — steel trusses, columns, girders, joists, windows, stairs, doors — to complete all-steel buildings... whatever your jobs require.

International's staff of expert designers, estimators, and engineers is always ready to help you with any building problem. Write today.



International All-Steel Building, built for the Denny Cheese Factory Equipment Co.

**INTERNATIONAL STEEL CO.**

1904 EDGAR ST. • EVANSVILLE 7, IND.

**Another Reason**

**ARCHITECTS AND  
BUILDERS CHOOSE**

**MOR-SUN  
FURNACES**



Here is a picture of a MOR-SUN stamping one-half of a Utility model heat exchanger. A 7" draw in a heavy gauge sheet, typical of 100% die stamped MOR-SUN furnace parts!



What does this mean? Just this—it means the highest quality, because only PREMIUM STEEL — DEEP DRAWING STEEL — can be used for die stamping! Low quality steel can be sheared, braked and welded — but it can't be stamped! MOR-SUN die stamped furnaces are better — because they're made of better steel. Specify MOR-SUN — and make a friend for life!

**MOR-SUN  
DIE-STAMPED  
FURNACES FOR  
GAS and OIL**



**MORRISON STEEL PRODUCTS, INC.**

Furnace Division

BUFFALO 7, N. Y.

AMERICAN BUILDER

## Private Firms Launch 1,000-Unit Military Housing Development

A 1,000-unit military housing project is currently being built by private firms at one of the nation's largest Army installations, Fort Bragg, N.C., under the provisions of the 1949 Military Housing Act.

The \$10,000,000 Fort Bragg development will consist of 100 six-family garden type apartments, 400 single-family two-bedroom houses and a shopping center, all on a 160-acre tract. Prefabricated house parts are being supplied by American Houses, Inc., New York City, from its Lumberton, N.C., plant.



SIX-FAMILY garden-type apartment being built at Fort Bragg, N. C. Prefabricated units are supplied by American Houses, Inc.

The project will be built and managed by W. H. Weaver of the Weaver Construction Co., Greensboro, N.C., and C. B. McNairy and Raymond Bryan of the T. A. Loving Construction Co., Goldsboro, N.C. J. C. Taylor, president of American Houses, Inc., said that the first units will be ready for occupancy in August, 1950, with completion of the whole project scheduled in from 12 to 18 months.

### Structural Corrugated Glass . . .

(Continued from page 42)

wood fillers, gypsum casting plaster, putty or glazing compound. Wood mouldings should be primed before setting, and material used to fill the contours should be colored to match the finish trim.

(d) *Setting Without Moulding*: This glass is sometimes set with pegs or blocks shaped to fit one or more corrugations. Installations of this type require ground edges. Care must be used to fit the pegs to insure a firm setting; it is often necessary to adjust the opening to fit the glass by the use of fillets or furring.

**EXTERIOR SETTING PRACTICE:** (a) *Butt Joints*: All butt joints, including miter joints, in exterior installations should be made waterproof by using a filler such as show case cement.

(b) *Division Bars*: Weatherproof tape should be used between the division bars and the glass, both inside and outside.

(c) *Mouldings*: The glass should be bedded in glazing or caulking compound, colored to match the moulding, at head, sill and side jambs. Plaster filling should not be used for exterior installations.

Data and drawings by courtesy Mississippi Glass Company

NATIONAL HOME WEEK  
September 10 to 17



ROBERTSON

## CLAY WALL TILE FOR SALES APPEAL

Robertson Clay Wall Tile forms a perfect setting for goods that must be sold in the best surroundings. It makes possible glistening bright interiors, permanently color-fast, permanently beautiful. Robertson Tile is easy to clean, inexpensive to maintain, absolutely fireproof. You can solve any color problem with its 40 lustrous bright or soft matt glazes. Write on your business letterhead for free color charts.

**ROBERTSON**  
MANUFACTURING COMPANY  
TILE DIVISION  
TRENTON 3 NEW JERSEY

# COMPARE!

- SEE FOR YOURSELF WHY
- **GLIDE-AWAY**
- IS THE OUTSTANDING
- OVERHEAD-TYPE DOOR



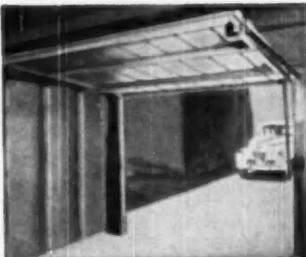
● **LIFETIME PROTECTED AGAINST RUST AND CORROSION** because Glide-Away Doors are made of paint-lock steel which is Bonderized and zinc coated . . . and for **EXTRA** protection they are covered with a prime coat of infra-red-baked paint at the factory.

● **EASIER TO INSTALL** because the one-piece jamb strip and weather seal is pre-assembled.

● **CABLE-CONTROLLED DOUBLE DOOR LOCK** permits fingertip operation from the garage interior without disturbing outside lock.

● **ONLY 1/2" OF HEADROOM** is required.

● **GREATER RIGIDITY** because of the heavier gauge inside structure and double hat channel section construction.



*Glide-Away space-saver, jamb-type hardware does not sacrifice interior space. Arms are welded steel construction. Again we say: "COMPARE BEFORE YOU BUY".*

## STEEL DOOR DIVISION STAMPING PRODUCTS AND MFG. CO.

14001 INTERVALE • DETROIT 27, MICH.

Stamping Products and Mfg. Co.  
Steel Door Division  
14001 Intervale, Detroit 27, Mich.

Please send detailed information on "Glide-Away" Garage Doors.

I am a  Wholesale,  Dealer,  Builder

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

## NEW PRODUCTS

(Continued from page 164)

### HORIZONTAL SLIDING WINDOW

ABB5048

Particularly adaptable to ranch-type and modern type houses, this window can be used as a single opening unit set high in wall, in multiple openings or in combination with fixed lights.



Aluminum sliding windows are manufactured in one standard size: 45 1/4 by 25 1/4 inches to fit standard, multiple openings. Both sash are easily removed for cleaning. Window has stainless steel lock and continuous p.l. on both sash. Specially designed screens and storm sash are available. Units are shipped with frame assembled and sash knocked down. General Bronze Corp., Dept. AB, Stewart Ave., Garden City, N.Y.

### PUSH-PULL PLATE

ABB5050

This device is a gently curved plate 5 1/2 inches wide and 7 inches long that mounts in place of the flat push plate to enable one to "push" or



"pull" a swinging door. Made originally in decorative laminated plastic, it is now also available in clear plastic with bonded texture and in brass and aluminum brushed. Freda Koblack, Dept. AB, 347 Clay Street, San Francisco 11, Calif.

### SHORE CLAMPS

ABB5051

New shore clamps cut shoring costs in half. Clamps may be used with 4 by 4's or paired 2



by 4's. These shoring clamps will support 6000 pounds safely and can be used for any temporary structure such as ramps, scaffolding. Farmers Tool and Supply Co., Dept. 051-AB, 4615 Washington St., Denver 16, Colo.

(Continued on page 168)

AMERICAN BUILDER

next step.

**Monotony In  
Project Housing  
Poses Problem  
For Architects  
And Builders**

How to build "production line" homes  
with minimum structural changes  
with maximum variety of

# STAINED SHINGLES & SHAKES GIVE PROJECT HOMES VARIETY IN COLOR, STYLE, DESIGN...



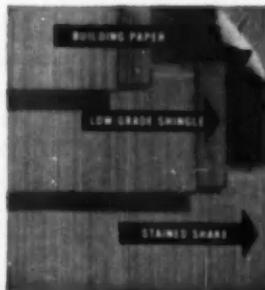
The application of Stained Shingles alternated with Stained Shake walls can be specified so that no two adjacent homes of a project are alike in color, weather exposure or surface texture. Variety of Stained Shingle roof colors adds further distinction to each home. The table below recommends a typical set of roof and wall modifications out of hundreds of practical combinations.

**VARIATIONS** are virtually limitless, as walls may be applied at any desired exposure between 6 1/2" and 16". Application details are available in Sweet's File 90 7a.

**ECONOMICAL** because both Shingles and Shakes are available in a wide variety of colors and pre-staining greatly reduces cost of color application after construction.

**EASY APPLICATION** is important in project construction. For exposures greater than 8", double-coursing application is simple and economical. Combines use of Stained Shakes over inexpensive grade of cedar shingles as shown below. Details in Sweet's File 90 7a.

|  |   |  |
|--|---|--|
| <p><b>1</b></p> <p>ROOF: Shingles [Green]<br/>WALLS: Shakes [16"]<br/>Exposure [12"]<br/>Color [Green]</p> | <p><b>2</b></p> <p>ROOF: Shingles [Red]<br/>WALLS: Shingles [16"]<br/>Exposure [8"]<br/>Color [White]</p> | <p><b>3</b></p> <p>ROOF: Shingles [Oiled]<br/>WALLS: Shakes [16"]<br/>Exposure [12"]<br/>Color [Brown]</p> |
| <p><b>4</b></p> <p>ROOF: Shingles [Brown]<br/>WALLS: Shingles [18"]<br/>Exposure [14"]<br/>Color [Tan]</p> | <p><b>5</b></p> <p>ROOF: Shingles [Red]<br/>WALLS: Shakes [24"]<br/>Exposure [18"]<br/>Color [White]</p>  | <p><b>6</b></p> <p>ROOF: Shingles [Blue]<br/>WALLS: Shingles [24"]<br/>Exposure 18"<br/>Color [Grey]</p>   |



**STAINED SHINGLE & SHAKE ASSOCIATION**

835 CENTRAL BUILDING, SEATTLE 4, WASHINGTON

# SAFWAY *Presents* TO THE BUILDING INDUSTRY...

## THE NEW **LOW-COST** SAFWAY "4 BY 4" Steel SCAFFOLDING

FOR LIGHT DUTY JOBS WITH  
HEIGHTS TO 40 FT. AND  
LOADS TO 50 LBS. PER SQ. FT.

Here's a new **STEEL** scaffolding costing so little that you don't even have to consider outmoded, dangerous wood horses and pole-and-crossbar scaffolding!

Priced surprisingly low, Safway "4 by 4" Scaffold is strong, rigid, versatile and safe—can be used profitably for all light duty jobs. Learn how you can benefit with the new Safway "4 by 4"! Check these features:

### ADVANTAGES OF SAFWAY "4 BY 4" SCAFFOLDING

- Lowest cost scaffold for loads to 50 lbs. per sq. ft.; heights to 40 ft.!
- Made by the originators and leading manufacturers of metal frame scaffolds!
- Approved by Underwriters' Laboratories, Inc.!
- Safe welded tubular steel construction. No splintering—no nails—no fire hazard!
- Can be re-used indefinitely in other combinations!
- Speeds work . . . saves time in assembly and dismantling!
- Permits work platforms at 16-in. intervals with materials always ready at waist level!



**PRICED SO LOW...**

...IT MAKES  
**WOOD HORSES AND  
POLES OBSOLETE!**

DISTRIBUTORS IN PRINCIPAL CITIES



**SAFWAY** STEEL PRODUCTS  
INCORPORATED  
6721 West State St.  
MILWAUKEE 13, WIS.  
Manufacturers of Tubular Steel Scaffolding and Equipment

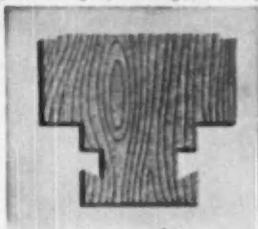


## NEW PRODUCTS

(Continued from page 166)

### INTERLOCKING SHINGLES ABB5066

Tex-Lux interlocking double-coverage, heavy-duty interlocking asphalt shingles are designed



to provide extra protection in exposed, high-wind areas. Every shingle locks fast to each adjacent shingle, interlocked and firmly anchored with concealed nailing at four points. The Texas Company, Dept. AB, 135 East 42nd Street, New York, N.Y.

### IMPROVED ASPHALT TILE ABB5049

Improved Azarac asphalt tile and Azphlex asphalt tile are results of new formulas utilizing Tremalite talc with asbestos as the mineral aggregate. The use of pulverized inert fibrous



Tremalite talc, asbestos and the customary binders of natural asphalt and coal tar resins blended with petroleum-derived plasticizers, make these tile stable, dense, resistant to acid and alkali and less prone to moisture absorption. Dimensional stability gives better resistance to indentation. Ulvalde Rock Asphalt Co., Dept. AB, Frost Bank Building, San Antonio, Texas.

### PRECAST OUTDOOR FIREPLACE ABB5045

New process for making a precast masonry type outdoor fireplace includes a set of precision molds as well as a developed technique for fabricating. Fireplace is made in eight sections of concrete in rough, natural, and colorful field-stone finish. Standard firebox assembly is used for grille. Four sides are built up on floating slab. Materials are available in all localities. Process is licensed by sponsor, General Engines Co., Dept. AB, Gloucester City, N.J.

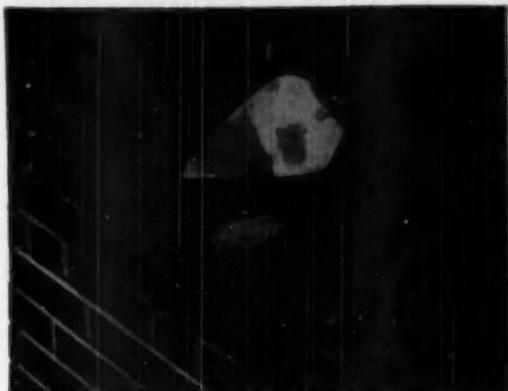
### See Stable Home Demand For Remainder of '50

The real estate market outlook for the remainder of 1950 is a healthy stabilized demand for both business property and homes, including continued public appetite for new low-priced houses, according to the 50th market survey of the National Association of Real Estate Boards.

Over-all volume of real estate sales of all types is expected to equal or top that of last year in 72 per cent of the cities of the country, reports from real estate boards in 470 cities indicated.

AMERICAN BUILDER

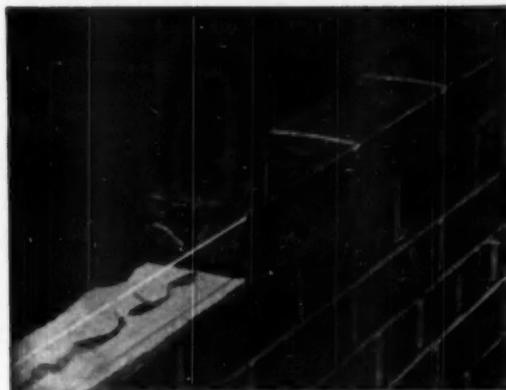
**GOOD BRICKWORK = GOOD DESIGN + GOOD WORKMANSHIP + GOOD MATERIALS**



*Slushing does not properly fill the voids in the head joints.*



*When mortar is spotted on only one corner of the brick, slushing seldom fills the voids.*



*Even when mortar is spotted on both corners of the brick, slushing will not always fill the voids.*

# **"SLUSHING"**

## **INVITES**

# **LEAKAGE**

## **IN BRICKWORK**

### **WE SUGGEST THAT—**

Brick should always be so laid that when the brick is shoved into place, the head or cross joint will be filled solid with mortar, without slushing. If the joints are not completely filled, water may leak through the voids to the inside of the building.

**T**he photos at the left show the voids that often result when slushing is used to "fill" a joint. Even when mortar has first been spotted on both corners of the brick, slushing cannot be relied upon to fill the voids completely.

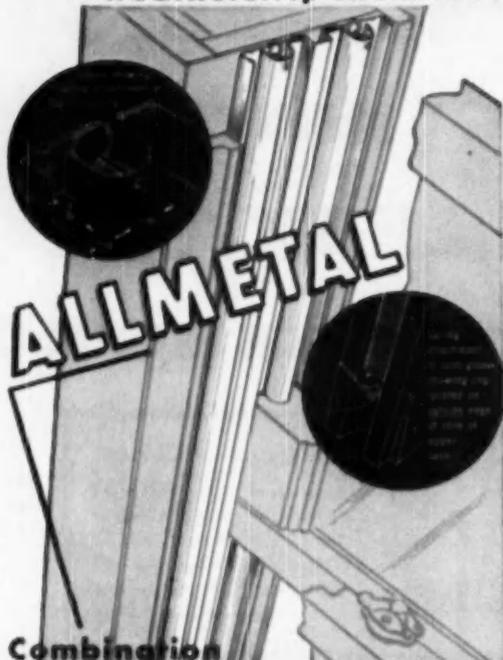
The great plasticity of Brixment enables the bricklayer to throw plenty of mortar onto the brick to be placed — to use plenty of mortar in the bed joint — and still shove the brick easily into position, with excess mortar oozing out all around, and with all voids filled.

# **BRIXMENT**

Brixment mortar has greater plasticity, higher water-retaining capacity and bonding quality, greater resistance to freezing and thawing, and freedom from efflorescence. Because of this combination of advantages, Brixment is the leading masonry cement on the market.

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

**This is the way to  
balance windows . . . and  
weatherstrip them too!**



**ALLMETAL**

**Combination**

**SASH BALANCE AND WEATHERSTRIP UNIT**

Do two jobs at once on any double-hung window. Here is an installation on an economy frame giving an all metal sash run. Or simply "cap" old or new wood parting beads. Allmetal Sash Balance give stable sash - provides finger-tip control - cuts labor and material costs and provides better windows by weatherstripping as well as balancing. Send for complete information now.

See Our Catalog in Street's File Architectural 18A

**ALLMETAL WEATHERSTRIP CO.**

2243 North Knox Avenue, Chicago 39, Illinois

Gentlemen: Please send me complete information and prices.

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

**We Acknowledge**

**with Thanks . . .**

**W**HEN the Chicago Business Papers Association recently presented the *American Builder* with a Certificate of Award "for the excellence in the design and purpose of its magazine's covers" the staff was happy that the ingenuity and effort expended by Lyn E. Arent, our managing editor, and George Clark, our art director, in creating our covers had received public recognition.

Our readers, we felt, would be interested to know how their magazine earned the award. So we called on Lyn Arent to give us the facts.



"One of the first considerations in planning a front cover for a magazine like the *American Builder*," said Arent, "is to consider the subject matter that will be treated on the editorial pages in that issue. A direct tie-up between the cover and the editorial content is always desirable because it gives the reader an insight into what the issue contains.

"A cover is a poster—the wrapper or attention-getter of our product, the magazine. So we attempt to create one that will attract the attention of our subscribers. To do this a cover should be strong in design, easy to understand, convey a message, and stimulate reader interest. This latter is what we consider the second function of a cover—that is, having induced the reader to look at it, the cover should carry something that leads him into the inside of the magazine. Thus you will find descriptive catch phrases on our covers that refer to the theme or lead features.

"For example, our July cover, a Kodachrome picture of a kitchen, carried the advice '127 ideas on how kitchen and bathroom features aid home sales. . . .' On our November cover last year we called attention to both its commercial and residential stories. To illustrate, we used a line drawing of a store front and put in women and children to suggest the residential aspect of building. The front cover, as you know, is very valuable space, and we try to make it as attractive to our readers as possible."

That the combined efforts of Lyn Arent and George Clark fulfill this ambition is attested in the award from the Chicago Business Papers Association.

—M.C.



★ **Exteriors** get complete protection from paints based on VINYLITE Resins. There's no chipping or peeling and little chalking. Attractive appearance is maintained longer.



## WALLS WINK AT WORK AND WEAR ...finished with coatings based on VINYLITE Resins

BRAND



★ **Interiors** stay beautiful because paints based on VINYLITE Resins can be washed repeatedly without color fading. They can be applied directly to fresh plaster.

**YOU CAN'T BEAT** coatings based on VINYLITE Brand Resins for easy upkeep and lasting good looks!

That's because VINYLITE Resin coatings do not deteriorate when brought in contact with water, alkalis, most acids, and petroleum products. They cling tenaciously to masonry, concrete, or metal without chipping, cracking or peeling. They seal out moisture, resist mildew, are unaffected by corrosive fumes. They are easily applied with conventional equipment—succeeding coats can be applied immediately because they dry dust-free in 5 to 10 minutes. They can be made available in a wide range of colors. These longer-lasting paints will cut maintenance costs for your clients . . . provide lasting satisfaction. Investigate them now! Write Dept. IT-64 for names of suppliers.

**Vinylite**  
BRAND  
**RESINS**



*Data courtesy Plastic Coating Corporation, P.O. Box 13127, Houston 19, Texas.*

BAKELITE DIVISION, *Union Carbide and Carbon Corporation* UCC 30 East 42nd Street, New York 17, N. Y.

AUGUST, 1950

371

\* a good tile retailer \*

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**CAN NOW  
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INCREASE TILE SALES AND MAKE PROFIT FROM RENTAL WITH THIS TILE CUTTER RENTAL PROGRAM. MERCHANDISING UNIT INCLUDES RENTAL FORMS, AD MATS, AND POINT OF SALE DISPLAYS. GET YOUR SHARE OF THE HOME INSTALLATION MARKET! SEND FOR RENTAL BULLETIN AND THE NAME OF YOUR NEAREST DISTRIBUTOR TODAY!

Write Department AB-2

**J.M.J. PRODUCTS CO.**

MAKERS OF THE FAMOUS PT-91 PLASTIC WALL CUTTER



ENGINEERS MANUFACTURERS  
BELLEVILLE, ILLINOIS

## Are Homes Too Small?

By *Martin C. Huggett*

Chicago Metropolitan Home Builders Association

Public housing and federal public health groups are circulating propaganda to the effect that the modern snug and well planned home is inadequate in space provisions and are utilizing as examples the old fashioned rambling structures of our forebears. In issuing such propaganda they appear to be at complete cross purposes with the much touted accomplishment of one of their strongest adherents, namely the Tigue Wood house containing around 600 square feet of livable area.

### *At Cross Purposes with Chicago Dwellings Association*

Their expressions also cross swords with the sort of home that the Chicago Dwellings Association was attempting to foister upon the veterans of Chicago—a concrete block house containing less than 700 square feet of livable area placed on lots of a size that have been taboo in Chicago for the past ten years. The Chicago City Council promptly threw the whole project in the ash can.

### *Today's Budget Home a Model of Design*

The small home of today, call it the "Budget Home" if you so desire, is the result of more research and study than any other factor of modern living. It is neither too large nor too small for comfort. In some of its elements it promotes comfort and convenience by its very compactness. Taking a leaf from the book of dining car design the 10' x 10' or 9' x 12' kitchen provides more downright convenience, utility and scientific operation than one four times as large in the olden days.

### *Accomplishment without Effort*

One housewife with an apron over her best dress can accomplish more in today's compact kitchen than a hot sweaty housewife assisted by two scullery servants in the olden days. A slight education in the handling of mechanical conveniences plus the turning of switches and pressing of buttons does the job today with astounding facility and few steps.

### *Waste Room—and How!*

The home of our ancestors contained a musty front parlor dressed up for company and opened only when guests appeared. It was a stuffy, formal and unlivable room that now has been completely eliminated. Then there is the dining room—still on the table for discussion—used for an hour or less, three times a day or less. The dining room has been growing smaller and smaller until its destiny appears to be an alcove off the living room generally usable at all times and becoming a dining space when the drop-leaf table is pulled out and set for a meal. A similar alcove is often in the kitchen because the modern kitchen is no longer a scullery. Cooking fumes and heat as well are exhausted by electric fans and the atmosphere is cool and wholesome.

### *Every Square Foot in Constant Use*

The modern living room is ample and really a living room, the center of family activities. The bedrooms are compact but every space is used. The tendency is to have them on the main floor, so that they can be utilized during the day as part of the living area. At the same time adequate storage is a matter of the most careful planning.

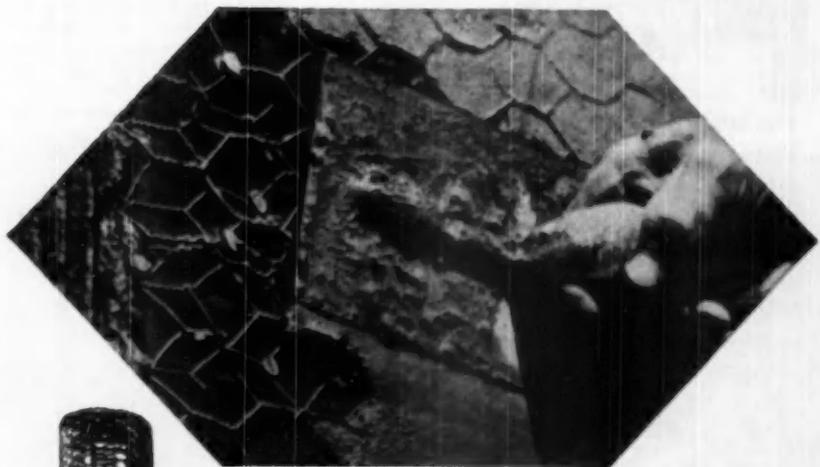
AMERICAN BUILDER



## *Eye appeal for prospects with sharp pencils*

Houses that "look like more than they cost" are a feather in the cap of any builder. And when good looks and economy are backed up by real durability, you're offering a value that can't be beat.

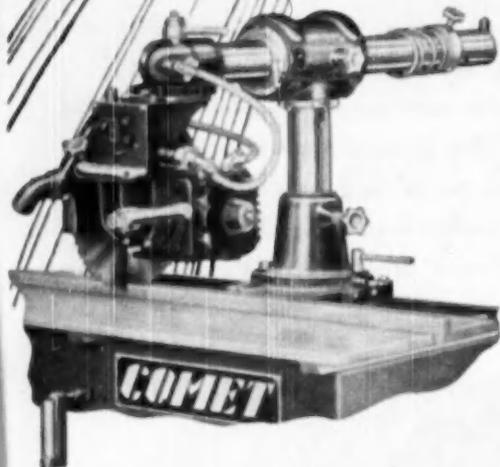
To do just that, more and more builders are using the Keystone System of Stucco Application. Architects are specifying it. Buyers recognize it as a real sales feature. Let us send you the facts, in the new 44-page "Keystone System" booklet today. Write Keystone Steel & Wire Company, Peoria 7, Illinois.



**KEYSTONE SYSTEM OF  
STUCCO APPLICATION  
WITH KEYMESH**



# Hitch Your Profits to a **COMET**



You handle more jobs per year with a Comet. This excellent radial power saw does all the cutting needed from start to finish on a building. Table or trailer mounted, a Comet is easily moved from job to job and lumber to lumber. Incomparable versatility, superb field performance, rugged construction and modern design make Comets real profit builders in your business.

Available in five sizes. Write for literature and prices.



CONSOLIDATED MACHINERY & SUPPLY CO., LTD.  
2029-32 Santa Fe Avenue, Los Angeles 21, California



**COMETS** cut quicker



ELEVATED sleeping section over garage is interesting feature of Southern California student-designed house

## Architectural Students Choose Split-Level House

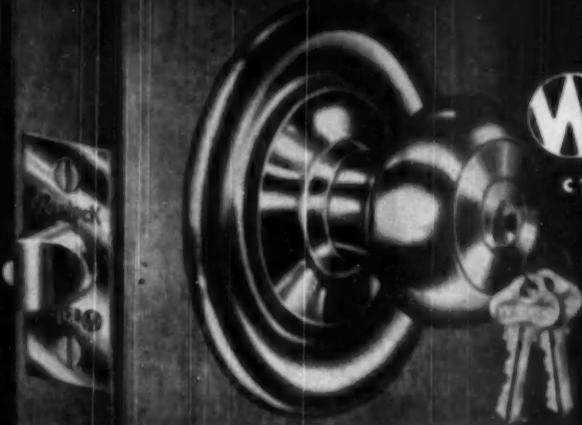
AN EXPERIMENTAL project in Los Angeles—the construction of a model home sponsored by the University of Southern California and firms connected with the building industry in the area—has proved very successful for all concerned. Valuable practical experience was gained by the four senior students of architecture who designed the home after consulting with experts in building, financing and selling homes; profits of the sale of the house went to the University for architectural research; and much favorable publicity was given the participating business organizations.

The attractive ranch-type house contains 1484 square feet of floor space. A design feature is an arrangement of levels which places sleeping quarters a few feet above the living space, completely separating the two yet permitting a compact plan. The design also stresses outdoor living: an entire glass living room wall including glass door faces the patio; and the kitchen is situated to provide a view of the garden

*(Continued on page 176)*



VIEW from dinette of entry and steps to sleeping quarters



# WESLOCK

CYLINDRICAL LOCKS

No. 240 Exterior Lock Set with

No. 256 Moderne design  
escutcheon

## High Style on a Budget

In WESLOCKS you get the ultimate in hardware design, yet priced to meet the most modest budgets. Their many quality features such as five-pin tumbler and key-in-knob construction, split-spindle operation and factory assembled units are usually found only in the most expensive locks. You also get a wide choice of types and finishes. Standardize on WESLOCKS, the budget-priced quality line for every door in the house. Send today for a complete catalog.

### WESTWOOD

MANUFACTURING CO.  
1420 So. Evergreen Avenue  
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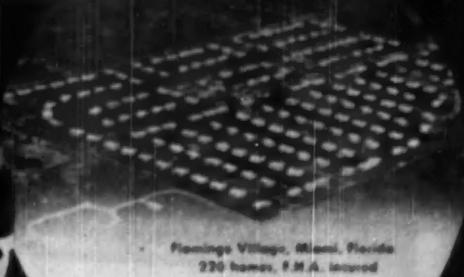


Wisleah and Sunlit Grove, Miami, Florida  
934 homes, F.M.A. insured  
Architect: Ed Walz  
Builder: Gaines Construction Co.  
Hardware Contractor: Atlantic  
Consolidated Builders Supply Co.

More WESLOCK installations . . .



Princess Park Manor, Miami, Florida  
176 homes, F.M.A. insured  
Architect: Tynus T. Tripp  
Builder: Mees & Son, Inc.  
Hardware Contractor: State Hardware  
& Paint Co.



Flemings Village, Miami, Florida  
230 homes, F.M.A. insured  
Architect: V. W. Hollenbegen  
Builder: Superior Home Builders, Inc.  
Hardware Contractor: Atlantic Consolidated  
Builders Supply Co.



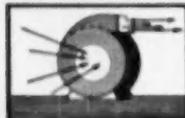
ONLY Blo-Fan HAS THIS PATENTED BLADE ...

...which combines both fan and blower principles. Its exclusive design gives Blo-Fan the volume of a fan plus the power of a blower in order to move more air—quickly, quietly with greater efficiency.



#### HERE'S WHY!

Seventy-five per cent of the air moved by a breeze fan is thrown from the blade tips. The center is weak when it meets resistance. A fan delivers volume, but lacks power.



A blower draws a smaller amount of air into the vortex, discharging it with great power, thus overcoming resistance. A blower delivers power, but lacks volume.



The Blo-Fan blade is designed so that the fan element feeds the blower element keeping the vanes fully loaded at all times. That's why Blo-Fan delivers more air with more power.

\*Trade Mark, Reg.

**SPOT VENTILATION AT THE POINT OF AIR POLLUTION**  
In kitchen, bath, game room and laundry

FACTORIES: Pomona, California; Newark, New Jersey  
WAREHOUSES: Los Angeles, San Francisco, Chicago  
Stocked by 100 wholesalers in more than 150 cities.

**PRYNE & CO., INC.**  
Box B-S, Pomona, California

A postcard will bring you complete Blo-Fan information and the name of your nearest distributor.  
See Street's File 276-3.



Manufacturers of  
**Pryne-Litco**—the  
modern egg-shaped  
lighting fixtures  
with an egg-pat  
ents.

#### Architectural Students ...

(Continued from page 174)

and play area. The yard is completely enclosed with a redwood fence in basket weave pattern, a type which originated in Australia and is sometimes called a Mendocino fence.

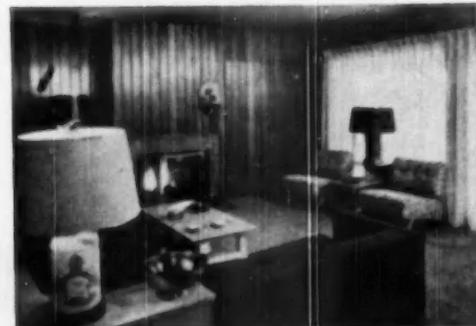
To the left of the vestibule are the living and dining rooms and the kitchen entrance. A flight of stairs on the right leads up about five feet to the sleeping quarters, and at the right of the head of the stairs is the combination den-guest room.



PATIO, 15 x 24-feet, is adjacent to indoor living-dining area

This room is open on the hall side, and is in effect a balcony from which the living room and patio can be seen. When used as a guest room its hall side is enclosed with curtains.

Exposed 2 x 6 beams are used on the ceiling over the entry and den. A large glass area over the front door and a glass panel adjacent to the door admit light to the entry



FIREPLACE is flanked by 6-inch natural-finish redwood boards

and den. The bedroom interior wall and ceiling surfaces are of plaster. Windows are placed high in these rooms for privacy and to provide more space for furniture. There are two baths, one on the upper level and one off the service porch.

A translucent glass partition, with a redwood frame, separates the dining space from the foyer. The fireplace wall of the living room is paneled vertically with 6-inch redwood boards in natural finish. The house has an all-gas kitchen, including a range, refrigerator and water heater.

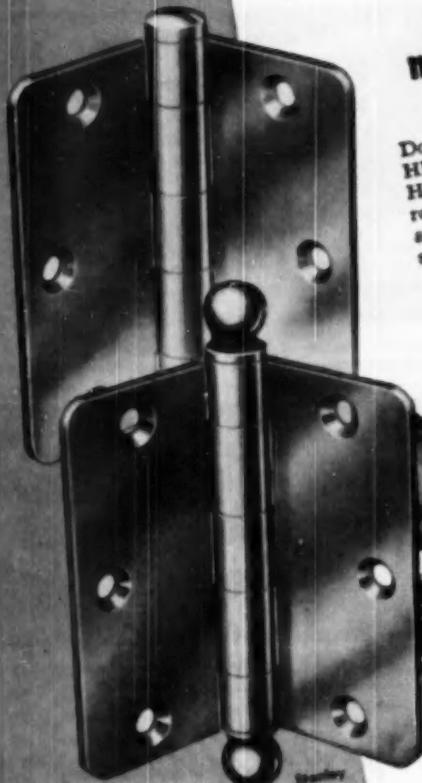
The exterior is of natural-finish redwood boards and batts. The garage is located under the raised portion of the house. Vermiculite is used in the built-up roof.

Firms cooperating with the University were: the Walter H. Leimert Co., which made the land available; the California Federal Savings & Loan Co., supplier of the construction money; the Southern California Gas Co. which installed the New Freedom Gas; Kitzert Barker Brothers; furnishings; and Art Smith, contractor, who built the house at cost.

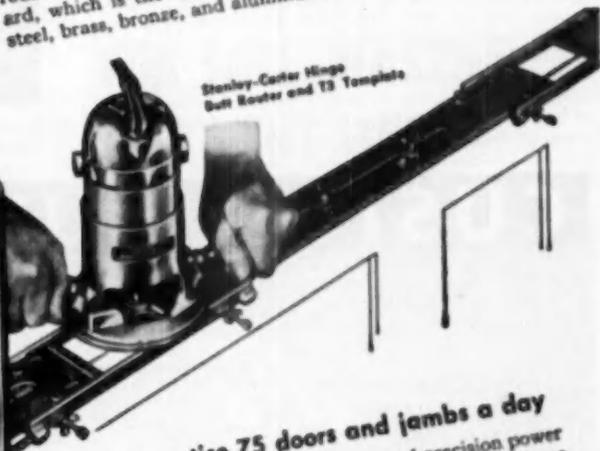
# The right combination...

for hanging doors perfectly  
every time — with  
millwork accuracy and speed

Doors hang perfectly when you use a Stanley-Carter HBS Hinge Butt Router and Stanley RD Butt Hinges. Stanley No. 241 and No. 242 Butts with round corners are built to the Stanley quality standard, which is the standard of the world. In plated steel, brass, bronze, and aluminum.



Stanley  
RD Butt Hinges  
(Round Cornered)



Stanley-Carter Hinge  
Butt Router and T3 Template

**Butt mortise 75 doors and jams a day**

With a Stanley-Carter Template and precision power Router you can cut out for butts at least 6 times faster than by hand. And do a better job! Every mortise is perfect. Use of round cornered hinges eliminates need to square up corners of mortises.

Save time and cut costs with Stanley RD Butt Hinges and Carter Hinge Butt Equipment—the right combination for millwork accuracy and speed right on the job. See your dealer or write for complete information.

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HARDWARE • TOOLS • ELECTRIC TOOLS • STEEL STRAPPING • STEEL

REMEMBER  THREE HINGES TO A DOOR

## New Laboratories Dedicated by Portland Cement Association



**AERIAL** view of Portland Cement Association's three million dollar Research and Development Center at Skokie, Ill.

Practicing what it preaches, the Portland Cement Association insisted that its two new laboratory buildings represent the best in economic concrete construction. Embodying no striking innovations or costly departures from conventional construction, the new Research and Development Center dedicated at Skokie, Ill. does, nevertheless, hold many lessons for the large contractor—and for the small builder who can profit from observing the unique uses of masonry units, lightweight aggregates, portland cement paint, architectural concrete and flat concrete structural beams.

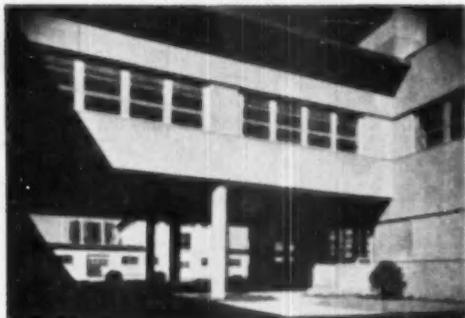
Here in the world's largest and finest laboratories devoted exclusively to research and development in the fields of portland cement and concrete, PCA will continue its campaign first launched in 1916 to improve and extend the

uses of portland cement and concrete—supported by voluntary contributions from 67 member companies which produce 9/10ths of the cement manufactured in the United States and Canada.

### Kettering Speaks of Dedication

A General Motors Director and Research Consultant, Charles F. Kettering, key speaker during the dedication ceremonies of the buildings, stressed in his interesting address the notable function research and development have played in the industrial progress of the nation, pointing out that the most valuable asset with which the researcher can be endowed is an imagination that never says "no," is not intimidated by "proof" of impossibilities. As presiding officer of the occasion, Dr. A. Allan Bates, vice president

*(Continued on page 180)*



**AUXILIARY** building of PCA Center is seen beyond overhead passageway across court of main building. Testing room right

# CUSTOM BUILT SINKS



Help You Plan  
Tomorrow's Kitchen  
**TODAY**

Whether you are planning a new building project or the modernization of an old one, we will build a "JUST LINE" Stainless Steel

**Radiuluxe Sink**

to meet your most exacting specifications. Now you can exercise your creative ability to the fullest extent in the planning of the modern kitchen.

**JUST LINE Radiuluxe Sinks** are precision built of No. 16 U. S. standard gauge Stainless Steel. Reinforcing U-shaped steel channels extend the full length of the drainboards and prevent warping, bulging and sagging. Die drawn raised edges and electric welding throughout eliminate all joints, seams and overlapping flanges and assure the greatest degree of sanitation.



Write today for illustrated Literature #2 and send us your specifications. Our engineers will gladly cooperate with you in submitting blue prints and estimates.

### TWO EXCLUSIVE FEATURES

Built-in Anti-Splash Rims in bowls prevent the splashing of water on the floors.

Smooth, Double-Pitch Drainboards without grooves reduce to a minimum the danger of breakage of glassware and dishes and assure positive drainage and the utmost in sanitation.

**JUST** Manufacturing Co.

4610-90 W. 91st Street, Chicago 90, Illinois

AMERICAN BUILDER



**SPEEDIER ASSEMBLY**



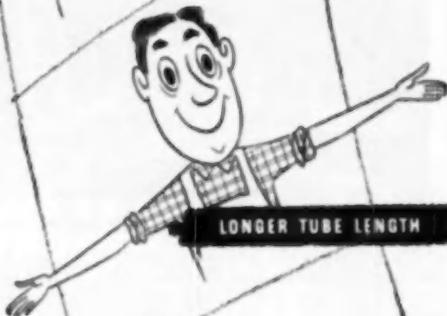
**LIGHTER WEIGHT**



**CONVENIENT HANDLING**



**LONGER TUBE LENGTH**



**SMOOTH INNER SURFACES**



## Better 5 Ways With Chase Copper Tube

# FOR SOIL, WASTE AND VENT LINES

You'll find that Chase Copper Tube can be installed quicker, lasts longer and does a better job for soil, waste and vent lines.

It comes in 20-foot lengths so you need fewer joints—and the joints you *do* need are quickly made with solder-joint fittings. You can speed installation even further by pre-assembling—and still have rugged units that withstand plenty of rough handling. And tube and fittings will fit within standard wall partitions.

Chase Copper Tube is resistant to corrosive action, has a smooth inner surface that does not hamper flow of wastes, solder-joint fittings that prevent formation of pockets.

Write for complete information on Chase Copper Tube for drainage lines to Dept. AB-850.

# Chase



*the Nation's Headquarters for*  
**BRASS & COPPER**

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SUBSIDIARY OF KENNECOTT COPPER CORPORATION

THIS IS THE CHASE NETWORK *handiest way to buy brass*

ALBANY ATLANTA BALTIMORE BOSTON CHICAGO CINCINNATI CLEVELAND DALLAS DENVER DETROIT HOUSTON INDIANAPOLIS KANSAS CITY MO LOS ANGELES MILWAUKEE MINNEAPOLIS NEWARK NEW ORLEANS NEW YORK PHILADELPHIA PITTSBURGH PROVIDENCE ROCHESTER ST LOUIS SAN FRANCISCO SEATTLE WATERBURY

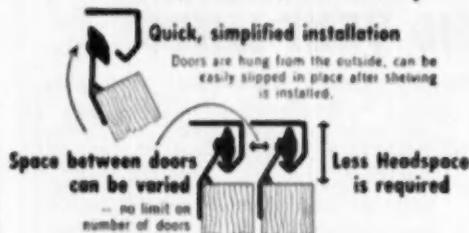
# HAR-VEY ROLLING DOOR HARDWARE

Introduces an Economical

*New Hanger  
for Wardrobes*



**Exclusive new features that save  
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**Track can be used for Trim**  
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## Portland Cement Association . . .

(Continued from page 178)

for Research and Development, PCA, introduced PCA's president, Frank T. Sheets, who spoke on the mission of the association, and Walter C. Russell, chairman of the board of directors, who, with his associates, cut the ribbon, marking the official opening of the center. Dr. Bates also spoke during the program on the fields of research of PCA and relations to the practical world, making public PCA's progress with soil-cement and prestressed concrete (discussed below).

### Inverted Reinforced Floor

One difficulty faced by Carr and Wright, Inc., architect and engineer, and Turner Construction Company, contractor, in building the Center was the high water table of the land. Spread footings support the auxiliary building, but concrete piles 35 feet long with a 30-ton bearing capacity were used under the main building. To resist the pressure of the high water table, the eight-inch concrete floor is constructed as an inverted reinforced slab.



SWITCHBOARD enclosure is faced with precast terrazzo

The concrete walls, reinforced concrete frame and floors and masonry partitions of the laboratories enclose 98,000 square feet of floor area—four times that formerly occupied by the laboratories in the PCA headquarters building near Chicago's loop.

Designed for concrete with 3000 *psi* compressive strength, the buildings were constructed using all brands of cement available in the Chicago area with aggregate from South Beloit and Elmhurst, Ill. Water ratios were 5.7 gallons per sack of air entraining cement and 6.0 gallons per sack of regular cement. Tests were made on each 75 cubic yards of concrete although specifications stipulated only one test per 400 cubic yards of concrete. During cold weather construction, the temperature in the working areas was kept at 55 degrees F. with the use of portable heating-blowing units. Vertical joints at 22 feet intervals (to control cracking), formed with two-inch strips of wood tapering to ¼-inch and extending 1½-inch into the wall with ½-inch protrusion for removal, were filled with mastic—and carried through adjoining masonry furring.

### Variety of Forming Used

At least five kinds of forms were used in building the Center: wood and plaster molds cast the recessed reeded piers; 1 x 8-inch chamfered-edge, center matched Douglas fir boards left a distinctive architectural pattern on the exterior walls formed on the interior by 1 x 6-inch yellow pine; ¾-inch plywood formed undersides of floors and beams.

(Continued on page 182)

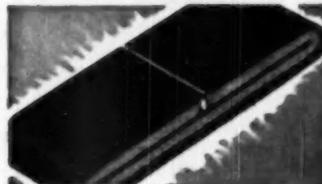
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Barrett offers you a complete line of Rock Wool Insulation Products—granulated, loose, blankets, and batts. Available promptly in mixed deliveries from your nearest Barrett distribution point. Resilient, clean, lightweight, and quickly applied, Barrett Rock Wool combines excellent thermal and acoustic properties with modest cost. And the Barrett name is kept prominently before the public by constant and extensive advertising.



**8-FOOT LENGTHS.** Go on faster. Fewer seams—an unbroken vapor barrier from floor to ceiling—mean better insulation, less condensation. Also available 15" x 24" and 15" x 48", full and semi-thick.



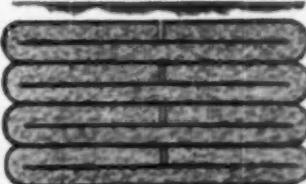
**FIRE-SAFE.** Barrett® Rock Wool is a fire-proof material—functioning as a barrier to the spread of fire. A blow-torch won't burn it.



**SOFTENS SOUND.** Cuts down outside noises and, strategically applied to partitions between rooms (as in the case of a bathroom or playroom), it virtually eliminates sound transference.



**WON'T LUMP UP.** Firm, springy Barrett Rock Wool doesn't "drift" or get lumpy. High resilience assures uniform density of insulation over all areas.



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

AUGUST, 1950

181

## Portland Cement Association . . .

(Continued from page 180)

### Exposed Masonry Interiors

Most walls in the Center are exposed masonry units finished with portland cement base paint, for in addition to their economy and appearance, concrete masonry units have a 40 to 50 per cent sound-absorbing capacity. (Exceptions:



**SOUND-ABSORBENT** concrete masonry walls painted in pastel shades, and fluorescent lighting help make working conditions in these offices of Research and Development Center pleasant

walls in kitchen, some storage rooms are plastered; toilets have cast stone wainscoting.)

To provide lateral stability for walls, 14 gauge steel

angles four feet long spaced four feet apart were fastened to ceiling and integrated with walls. This and other metal fastening was done with fastening guns using .22 calibre cartridges. Mesh used in joints and reinforcing bars in units above openings furnish additional strength to walls constructed of three sizes of masonry units: three-inch for furring; four-inch for partitions between rooms; six-inch for corridor walls.

When approaching the lobby, one is confronted with many uses of cement, for here exterior walls reflect achievements in cast-in-place architectural concrete matched in appeal by the cast stone with granite and quartz aggregate used on lobby walls. Ornamental panels on the underside of the entrance canopy were precast as were the art marble facings of the reception desk and stairway. Marble clips were employed in the patterned terrazzo floors of the lobby while adjacent corridors have asphalt tile floor coverings as do the offices and auditorium. Although suspended ceilings in halls conceal conduit, all other ceilings are exposed concrete.

During construction, John H. Banker, construction superintendent of Structural and Railways Bureau and R. E. Philco, assistant research engineer of Field Research Section represented the owner on the job. The special committee on building facilities of PCA included M. Moss Alexander, chairman; Emory M. Ford; Joseph S. Young; and *ex officio*, Walter C. Russell and Frank T. Sheets. The technical advisory group included Henry P. Reid, chairman; E. A. Ledyard; Myron A. Swayze; L. A. Wagner; G. L. Lindsay; G. E. Warren; Roy N. Young.

### Thirty Laboratory Sections

In one of the 30 laboratory sections of the Center, the triaxial testing machine aids research in soil-cement while

(Continued on page 184)

1818  
1950

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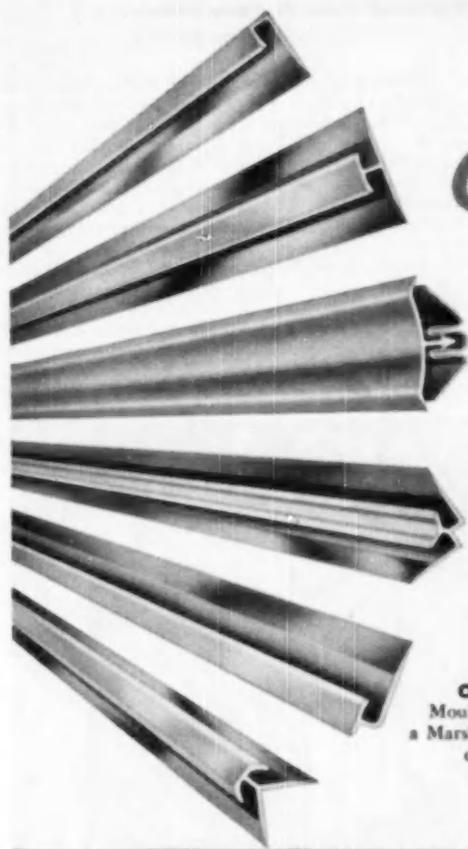


*Picture window at the residence of Mr. & Mrs. Ernest Fox, Freeburg, N. Y.*

For the greatest satisfaction with a picture window, select Hope's standard (Holford) steel frames and casements. Hope's picture windows are made to receive standard sizes of nominal 1" thick double glass such as "Twindow" or "Thermopane", or they can be glazed with single panes of sheet or plate glass. The low cost and ease of installation will surprise you. Write for leaflet No. 102G.

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...for MARLITE

**New color harmony** for Marlite walls and ceilings in every type of residential and commercial interior is now possible with this brand-new line of Marsh Color-Matched Aluminum Mouldings! Featuring the same durable plastic finish as genuine Marlite panels, they need only an occasional wiping with a damp cloth to keep them spotless. The baked finish *seals out* dirt, grease, moisture . . . *seals in* all the striking beauty!

**Pleasing over-all effects**—A complete color range is available to match all of the standard Deluxe and Velvetex Marlite colors®. Exact matching makes Marlite walls present smooth, beautiful, uninterrupted color. And where contrast is desired, the new Color-Matched Mouldings give free reign to the designer's imagination.

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Where fine wood panels of Mahogany, Oak, Birch or Walnut are desired—ask for Mengelux\*.  
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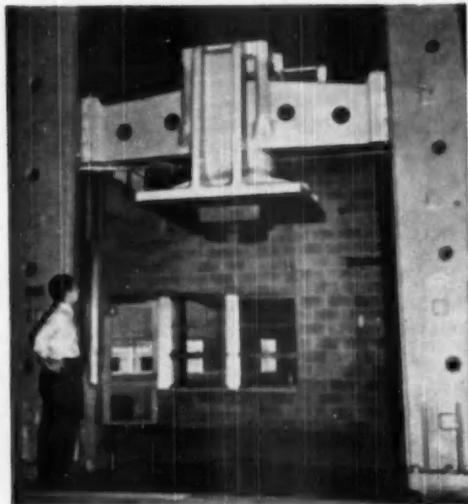
**THE MENGEL COMPANY**  
 Plywood Division • Louisville 1, Ky.  
 \*Reg. U. S. Pat. Off.

**Portland Cement Association . . .**

(Continued from page 182)

in another the extensometer measures lineal variations up to 10,000th of an inch. PCA's sonoscope developed by engineers John Guthrie and James Kennedy "penetrates" 50 feet of concrete with sound waves, the elapsed time of transmittal and receipt of which furnishes data for analyzing the concrete's interior. Also surprisingly delicate is the 1,000,000-pound testing machine, one of six ranging in size, whose power and instruments will measure the compressive strength of a concrete beam—or an egg shell.

Heavy, noisy, dusty operations are performed in the auxiliary building where cement and aggregate are stored—where pilot plants, kilns and vibrators are installed from which dust is drawn by a 9,600 cfm dust collector installed on the roof. In the main building, special laboratories are assigned to soil processing, concrete batching, and cement and mortar testing with rooms of controlled temperature



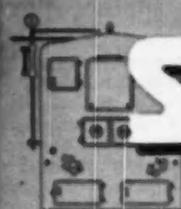
TESTING machine of one million pounds capacity at PCA's Research Center crushes concrete specimens to determine strengths

(20 below to 130 degrees above) and relative humidity (up to 100 per cent). In special rooms with brine tanks and other testing equipment, concrete specimens are subjected to heating-drying, cooling-soaking, freezing-thawing cycles for analytical data.

Offices with their sound-absorbent walls are conveniently located near laboratories in the Center, but the library in a less trafficked portion of the main building, offers thousands of documents to research workers, covering the vast array of groundwork already done by scientists the world over also interested in this vital stuff—concrete—the chemical formula of which is still one of the world's unknowns.

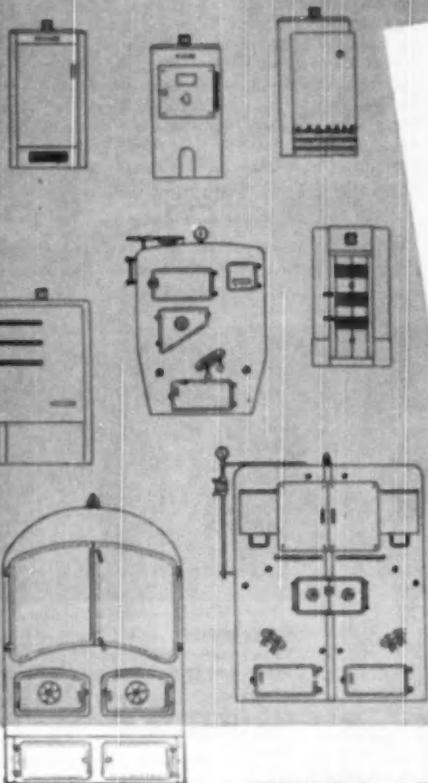
As new advances are made, as new announcements are pronounced, interested audiences will gather in the Center's auditorium decorated in pastel shades with continuous horizontal and vertical joints casting faint checkerboard shadows. Here, too, in one corner that can be enclosed with a folding wall, a dining room serves workers and guests with good food and pleasant coffee for those minutes of relaxation from the un-ending task of making this building product, already one of the most versatile in the

(Continued on page 186)



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**HEATING BOILERS**  
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Boilers for all types of fuel and all methods of firing. Capacities from 290 to 45,000 square feet, steam.

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# SPENCER

## Portland Cement Association . . .

(Continued from page 184)

industry, an even better servant of the nation's builders and the nation's home owners.

### Association Objectives

With 26 district offices in 45 states, Washington, D.C., and Canada, the Portland Cement Association pursues with thoroughness its five objectives: scientific research, development of cement-using products, promotion, education and technical service and accident prevention in member companies. To these ends, the sections of administrative offices, ten technical and promotional bureaus and research and development division employ a headquarters staff of 180 employees and a field organization of 300, handling 300,000 inquiries annually, distributing (during the past 10-year period) 25,011,000 pieces of literature on 400 subjects.

### Safety Promotion

One of PCA's assets is a sand library in which 3000 samples of sand are filed to speed queries about use of soil from any part of the United States. A further service has been PCA's promotion of safety and accident prevention among the industry's plants, for each year the PCA Safety Trophy is awarded to the member company mills that qualify with an outstanding safety record.

Over one million dollars have been spent by the organization during the past generation on fundamental research to insure that the 300,000,000 tons of concrete used annually in the U.S. are the best available to the consumer. In outline, current and past projects of PCA include: water-cement ratio principle, air-entraining portland cement, pressure-grouting for railroad track stabilization, acoustical and

insulation values of concrete, design for pavements, analysis of stresses in reinforced concrete, house building, colored concrete, precast concrete products and long-time studies of cement performance. Officers of PCA (others not mentioned above are: Carl D. Franks, vice president in charge of promotion; W. D. M. Allan, director of promotion; Hubert Woods, director of research; H. F. Gouernman, assistant to vice president for research and development) insist that all PCA patentable inventions are dedicated to the public—all discoveries are available for common use.

### Soil-Cement

What are the newest—or at least two current—interests of PCA's research and development staff?—soil-cement and prestressed concrete. Today, although few city dwellers are aware of it, 3,300 miles of secondary roads are paved with soil cement—23 million square yards of soil-cement furnish landing areas for modern airplanes. In all these uses, 90 per cent of the paving was completed with soil found on the site. Seven to 16 per cent mixtures of portland cement can convert practically all common American soils into hard, durable pavement for roads subject to light traffic and runways. With a total of 66 million square yards of soil-cement in use today, PCA is plugging, with full use of its soil testing equipment, to expand this figure as it works out the problems of soil mechanics in its special laboratory. What happens to soil mixtures when subjected to traffic, weight, weather? These are only a few of the practical questions that find solution in this Center where "how" and "why" are constant queries.

### Prestressed Concrete

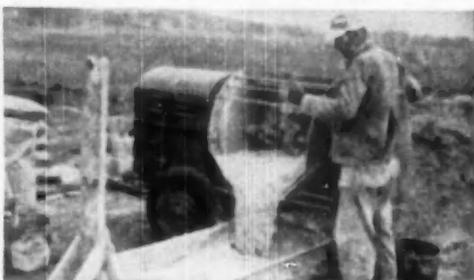
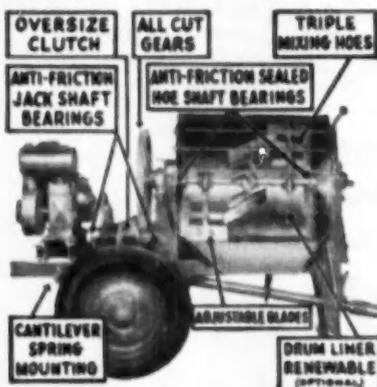
What about prestressed concrete? It's an old subject; the first patent was, in fact, issued to an American, P. H.

(Continued on page 185)

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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 BM 5491.



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5-50 x 16 pneumatics  
Wisconsin 4-5 HP air cooled

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4-00 x 18 pneumatics  
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TELESCOPING AXLE EXTENDS 18" FOR EASIER TRAILING AND EASE OF HANDLING

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People want beauty in their bathrooms and kitchens — lively colors and exciting patterns. That's why so many dealers are profiting with Tylac and GE Textolite surfacing materials. Here's a double-barreled answer for the great public demand to dress up those two most important rooms.

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new Hi-Baked Plastic Enamel Surface For Walls. It is finished when installed. No painting or varnishing required. Will not crack, craze or chip. Four modern distinctive patterns in eighteen colors. Dealers find Tylac a fast-moving profit item.

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## Roddiscraft

RODDIS PLYWOOD CORPORATION, Marshfield, Wis.

## Portland Cement Association . . .

(Continued from page 186)

Jackson of San Francisco, in 1888, but the American builder's concern for mass, his impatience to learn new techniques of subtle thinking and the ready availability of materials let the invention atrophy—to be capitalized on by European engineers who, especially in recent decades, face crippling material shortages and who must build to calculated stresses, who must make every pound of material count. It is in France, England and Belgium that prestressed concrete is fast finding acceptance.

In prestressing concrete, super-imposed compressive stresses are set up in the concrete unit with steel wires or rods (cast integrally with the unit in PCA's experiments) to neutralize tensile stresses. The unit is compressed like bricks held together with compressive strength in a stacking clamp.

### Advantages of Prestress

Prestressing means more economical concrete construction—longer, unsupported spans and greater tensile strength—and will likely lead to . . . new principles and forms of architecture . . . according to Dr. Bates. New forms have already evolved in Europe where prestressed units have been used in longer unsupported spans for roofs, bridges, ceilings with lighter structural members.

In England prestressed "sleepers"—railroad ties in our language—are gaining favor and prestressed precast reinforced beams were used in 1946 for the railroad bridge at Wigan and across the 60-foot span of a bridge in Lincolnshire in 1948. In the United States, engineers are watching with interest this exciting undertaking: the Walnut Lane Bridge, Philadelphia, which will span a 160-foot ravine without intermediate supports, using prestressed concrete structural members.

How these new fields will affect the portland cement market is not known. The present market breakdown is as follows: structural—28 per cent; paving—22 per cent; housing and small uses—22 per cent; conservation—16 per cent; farm—12 per cent. Of course, it's the market that PCA is, ultimately, working for, but PCA is working to build a bigger cement market, as President Sheets said, ". . . in the public interest and to build a greater America."

## FNMA Transfer Would Check GI Housing, NAREB Witness Asserts

President Truman's proposal to transfer the Federal National Mortgage Association (FNMA) to the Housing and Home Finance Agency would, in effect, smother the veterans' housing program, according to a recent statement before Congress by Calvin K. Snyder, secretary of the Realtors' Washington committee of the National Association of Real Estate Boards.

Snyder testified before the Senate Committee on Expenditures in the Executive Departments, in support of Senate Resolution 299. The measure, introduced by Sen. Walter F. George (Dem., Ga.), calls for Senate disapproval of the President's Reorganization Plan 22. This plan would transfer FNMA from the Reconstruction Finance Corporation to the HHFA.

Asserting that HHFA "has steadily been increasing in power and political influence since its formation in 1947," Snyder predicted that the proposed transfer of "Fannie May" would give HHFA control of the secondary mortgage market, resulting in a serious impairment of the GI home building program by allowing HHFA to dominate the Veterans Administration on housing matters.

## A Big Advantages of ALCASCO Aluminum Casements

### 1 • FULL 1 1/2" SECTIONS

Available only in Alcasco . . . structurally stronger. Putty retaining groove—built into each section and designed for easy outside glazing.

### 2 • EXTENSION HINGES

Solid aluminum . . . Sturdy and trouble free. Full support Stainless steel pin assures correct ventilator operation at all times.

### 3 • INSULATED GLASS

Alcasco Aluminum Casements can be furnished for regular plate or insulated glass in 1/2", 3/4", or 1" thickness.

### 4 • INTERLOCKING MULLIONS

Easy to assemble—simple to install . . . Provides a perfect weather seal due to precision fabrication.

### PLUS these other Alcasco aluminum casement features

- extruded members are smooth—fit snug at all points
- corners electrically flash welded—greater strength . . . more rigid . . . neat, smooth appearance
- flush projection—customer satisfaction assured by the absolute evidence of careful workmanship
- selection—over forty styles to choose from
- approved—over 73,000 Alcasco Aluminum Casements have been sold through Building Material Dealers since 1947.

Send for details and descriptive literature.

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**OR 1,000 A YEAR...**



*National* **HOMES** offers the **MOST** to Dealer-Builders!

Since August, 1949, National Homes has doubled its number of dealer-builders. Why? Because our houses yield greater profits to dealers. AND because our strategically located plants at Lafayette, Indiana, and Horseheads, New York, offer the utmost in uniform quality and dependable



Send for Booklet  
"Amazing Opportunities  
for Dealer-Builders"

Illustrated with 60 photos of National Homes: factory scenes, features, projects, interiors and exteriors, floor plans. The dramatic facts about the Nation's Largest Producer of Prefabricated Homes. Send for it today.

deliveries. AND because trained field men help solve dealer problems of financing, selling, erecting. AND because we back up our dealers with color ads in leading magazines — the most powerful national advertising program in the housing field.

Investigate NOW. Your area may still be open for dealership! Sound financial resources required.

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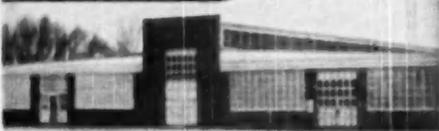
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The Finger Tip Control, outstanding beauty and moderate cost built into every Raynor door, regardless of size, means lasting satisfaction to the buyer and profit to the builder.

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Three-Way Stress Construction, the finest material and the most modern production methods used in building Raynor doors, guarantees lasting quality to the user and profit to the builder.

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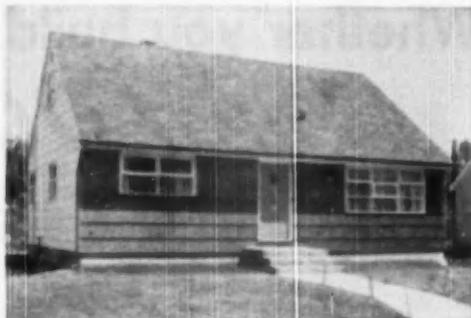
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CATALOG IN  
SWEETS

## RAYNOR MFG. CO.

River St., DIXON, ILL.



MOST popular Hillside Terrace house is "The Regent" at \$11,090

## New 300-Home Eastern Project Is in \$10,500-\$14,000 Range

THREE model houses, including a four-bedroom home with two baths priced below \$14,000, were recently opened for public inspection in a 300-home Long Island, N.Y., development.

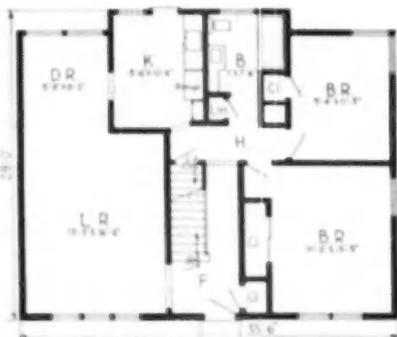
Located in the village of Albertson, Nassau County, the homes were built by Joseph Carillo, Joseph Waner and Samuel Levin, who completed a 217-house subdivision in New Hyde Park a few months ago. Two of their model homes in the new Hillside Terrace project at Albertson were decorated by the New York designers, Nardin and Radoczky. Some built-in furniture, designed by the decorators is also used.

Currently, 97 of the 300 houses priced from \$10,590 to \$13,990 are under construction in the new \$3,500,000 project at Albertson on a 55-acre site. All the homes have full basements and expansion attics and are on landscaped plots of 6,000 square feet and larger. They were designed by William P. La Vallee, Jamaica architect.

Most popular of the three models is "The Regent" which contains a center hall and five rooms, including two first floor bedrooms, in its 944 square feet of living space. It is priced at \$11,090. Nearly 100 of these houses have been sold from a pilot model in the builders' New Hyde Park development.

No down payment is required from war veterans. With

(Continued on page 192)



FIRST FLOOR PLAN

"THE REGENT" has 944 square feet of living space

AMERICAN BUILDER

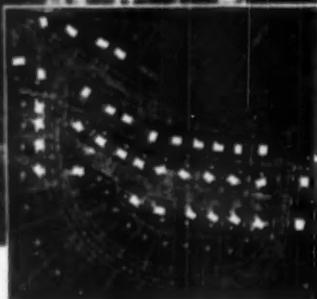


# "I make sure my houses sell by putting in proved HEATILATOR FIREPLACES!"

*says Herold Bradley, prominent Pittsburgh Architect and Builder*



**NEW 60-HOUSE HARPER VILLAGE IN PITTSBURGH SUBURBS.** Good design, careful detailing . . . quality living features. Herold Bradley's 2-story houses with their genuine Heatilator Fireplace Units sell for only \$13,850, including garage.



**M**R. BRADLEY insisted on Heatilator® Fireplaces because he knows they help sell houses faster . . . and are trouble-free. As Mr. Bradley puts it, "Heatilator Fireplaces won't smoke . . . they circulate heat . . . and they add little to the cost of the fireplace." Heatilator Fireplaces are important sales features of Mr. Bradley's new 60-house development, where careful designing has cut construction costs \$2 a sq. ft. below current prices.

**You can attract customers** with the assurance of smokeless, troublefree fireplaces when you specify genuine Heatilator units. Even inexperienced masons can't go wrong because the Heatilator unit provides all vital fireplace parts in one compact form. No extra parts to buy or build. It saves on expensive firebrick. It saves mason time and labor because all designing is done.

**The Heatilator unit** takes heat that is ordinarily wasted and circulates it to every corner of the room . . . and to adjoining rooms as well. On cool Spring and Fall days, furnace operation is unnecessary. In mild climates, it's the only heating source needed.

**People recognize** the Heatilator name . . . it's been advertised in national magazines for over 23 years!

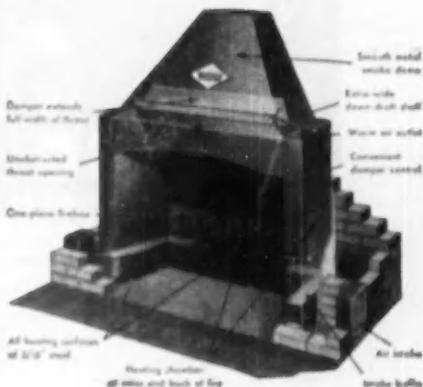
## HEATILATOR FIREPLACE

**Sells Houses FASTER!**

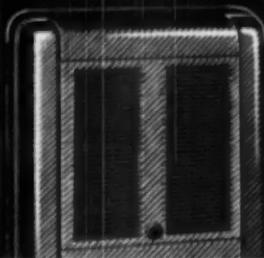
AUGUST, 1950

**Write today for complete specifications.** Heatilator Fireplaces are sold by all leading building material dealers. Accept no substitute. Look for the Heatilator name on the dome and on the damper handle. Heatilator, Inc., 638 E. Brighton Ave., Syracuse 5, N. Y.

*\*Heatilator is the reg. trade mark of Heatilator, Inc.*



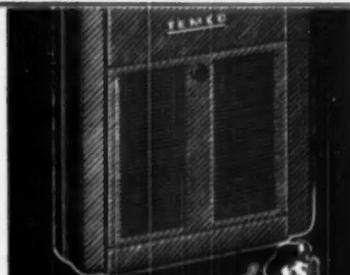
**TEMCO'S**  
Gas  
**WALL FURNACE**  
Completes Home Planning  
Flexibility



First - The TEMCO Gas Floor Furnace brought automatic heat within the reach of every home builder. Now - TEMCO offers a Gas Wall Furnace for installation with any type of construction. The TEMCO Gas Wall Furnace requires no basement, can be installed on first or second floors or where slab type foundation is used.

Check the possibilities of a TEMCO Gas Furnace before you specify the heating system for any home. And - weigh carefully these TEMCO Gas Wall Furnace Features:

- Easy to install - fits between standard 14" o. c. stud construction.
- Lasting Porcelain Enamel Heat Chamber.
- Readily accessible control assembly.
- Cabinet finished in Hammer Tone and styled to harmonize with Modern Home Furnishings.



**TEMCO**  
GAS FLOOR FURNACES

TEMCO, Inc., Division B-215, Nashville 9, Tenn.  
Please forward complete specifications on TEMCO  
Gas Wall Furnaces.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_  
County \_\_\_\_\_ State \_\_\_\_\_

**New 360-Home Project . . .**

(Continued from page 190)

a full mortgage, monthly payments of approximately \$69.50 cover principal amortization, interest, taxes, fire insurance and water. Veterans' mortgages are for 30 years at 4 per cent interest and are financed by The Dime Savings Bank of Brooklyn. Non-veterans pay \$1,640 down and payments total approximately \$71.50 on a 4¼ per cent 25-year FHA-insured mortgage.

The four-bedroom house, priced at \$13,990, is simply "The Regent" with its expansion attic finished into two bedrooms and a second tiled bath, with a linen closet in the large upstairs hallway. The additional rooms were



**FOUR-BEDROOM** two-bath house for \$13,990. Additional rooms were obtained by finishing expansion attic of \$11,000 "Regent"

finished to show prospective buyers the possibilities of additional space contained in an expansion attic, and at the same time provide a four-bedroom house with two baths at a moderate price. This house contains a total of 1,336 square feet. One of the second floor bedrooms is 11 x 13 feet and the other is 11 x 14 feet 6 inches.

The lowest priced house in the development is "The Albertson" model selling at \$10,590. It contains 804 square feet and is of modern ranch-type design with a 9 x 6-foot picture window in an 11-foot bay of the living-dining room overlooking the rear yard. The stairway to the expansion attic rises at one side of the 22 x 12-foot 6-inch living-dining room.

All three models have colored ceramic tile bathrooms with plastic-topped vanity-style lavatories, large plate glass wall mirrors, medicine chest and built-in clothes hamper. Purchasers have a choice of bathroom colors. The second floor bath in the four-bedroom model has a conventional lavatory.

(Continued on page 194)



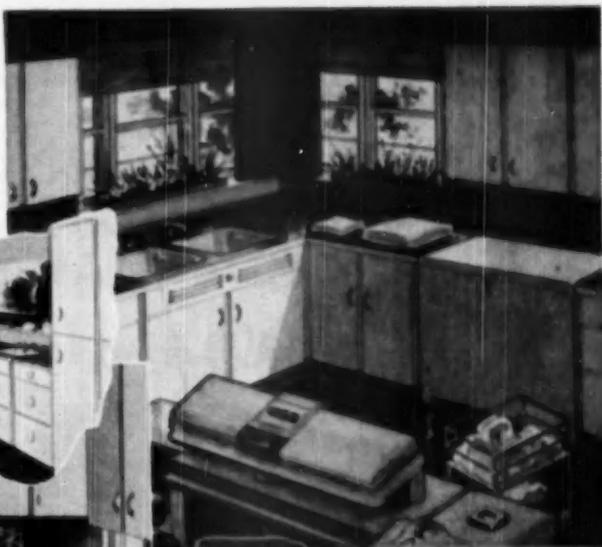
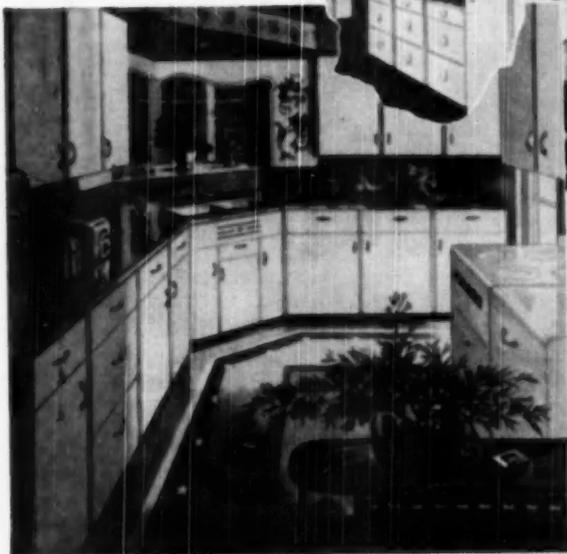
**WIDE** vanity-type lavatories with colored plastic tops and large plate glass mirrors are standard equipment for baths in project

**AMERICAN BUILDER**

# \* Nu-Style

## MULTIPLE-USE CABINETS

...for Kitchen  
...for Laundry  
...for Bathroom



### NU-STYLE FOR BEDROOMS

Ways to utilize wasted space is a "must" with every thrifty homemaker.

The sky's the limit when it comes to the number of possible uses and arrangements of these sectional cabinets, in bathrooms, bedrooms, storage walls or dens as well as in the kitchen.



### NU-STYLE FOR DENS

**BILT-WELL  
WOOD WORK**  
THE L. H. CO.

"NU-STYLE CABINETS are 'BILT-WELL' PRODUCTS, nationally known for fine quality."



### NU-STYLE FOR STORAGE WALLS

For Cabinets that are flexible in use, in color finish, in installation simplicity and that fit any size or shape of room, select Nu-Style Multiple-Use Cabinets.

Comparison proves why Nu-Style Cabinets excel!

1. An exclusive Nu-Style feature is the door with "the Famous Profile" . . . in perfect harmony with latest ranges and refrigerators.
2. Nu-Style is the strongest cabinet made . . . drawers are dovetailed. Solid standards are 3/4" thick and the frame is mortised.
3. Nu-Style Cabinets can be scribed or sawed to join plastered surfaces.
4. Nu-Style can be enameled any color or finished in natural wood.
5. Nu-Style Cabinets are produced by experts trained in latest scientific manufacturing methods.
6. They are made from thoroughly seasoned, kiln-dried Ponderosa Pine . . . the best base for a wide variety of finishes.

Nu-Style Cabinets are distributed throughout the 37 Eastern States. Write for name of the nearest distributor.

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

Also manufacturers of Superior Unit Wood Windows • Exterior & Interior Doors • Entrances • Showers • Closets • Casements • Car-door Garage Doors • Basement Unit Windows • Louvers & Cabin Stairs • Breakfast Nooks • Combination Doors • Screens & Storm Sash • Corner (China) Cabinets • Glider Cabinets • Ironing Board Cabinets • Mantels & Telephone Cabinets • Multiple-Use & Linen Cabinets • Stair Parts.



When you buy Douglas Fir from the Western Pine region you can go the limit in recommending it to your customers. For the member mills of the Western Pine Association go the limit in manufacturing, seasoning, and grading this many-purpose wood to the exacting Association standards.

So remember this—Douglas Fir from the Western Pine Region is your best buy when you buy Douglas Fir.



For more information about Douglas Fir from the Western Pine region send for free illustrated 52-page book. WESTERN PINE ASSOCIATION Yoon Building • Portland 4, Oregon

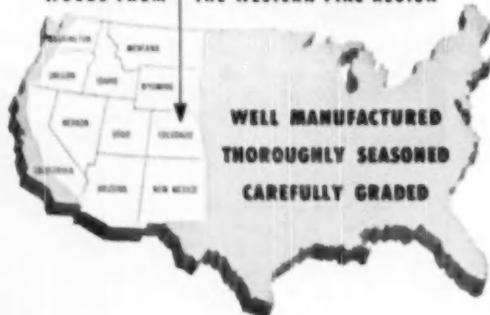
THESE ARE THE WESTERN PINES

Idaho White Pine, Ponderosa Pine, Sugar Pine

THESE ARE THE ASSOCIATED WOODS

Larch, Douglas Fir, White Fir, Engelmann Spruce, Incense Cedar, Red Cedar, Lodgepole Pine.

WOODS FROM THE WESTERN PINE REGION

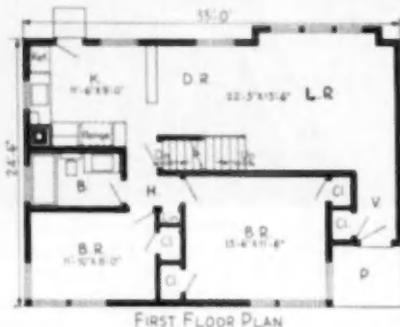
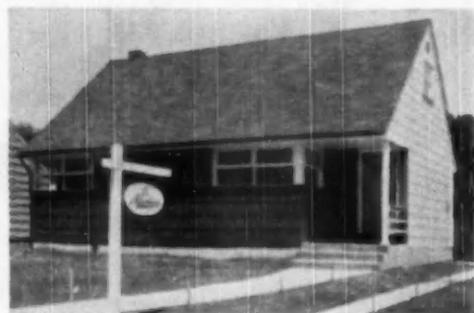


## New 300-Home Project . . .

(Continued from page 192)

The houses are built on 10-inch poured concrete foundations with more than seven feet of headroom throughout the basements. They are fully insulated with non-combustible rock wool in all walls as well as above the ceilings. Oak flooring is used throughout except in the kitchen where the buyer is offered a choice of colors of inlaid linoleum. Flush-type doors in natural wood finish are used throughout.

The heating system is an oil-fired Bryant warm air furnace in the basement. Air is humidified and filtered before passing through the ducts. In summer the ducts can be used to circulate cool air through the house. Heating ducts have been extended into the attics and capped, ready for use whenever it is desired to finish the second floor.



\$10,590 home features an open plan of living room, dining area and kitchen with picture window overlooking the rear yard. All houses have full basements.

Included in the selling price of all homes in Hillside Terrace-at-Albertson are a 30-gallon automatic gas water heater and stationary laundry tubs in the basement, a table-top gas range, automatic electric ventilating fan and wood cabinets in the kitchen, and door chimes in a telephone niche near the front entrance.

The master bedrooms in all three models have sliding-door closets. In "The Regent" this closet is seven feet long and has built-in shelves in the center. In "The Albertson" model the sliding door closet is four feet long, but a second closet is provided in the opposite side of the room.

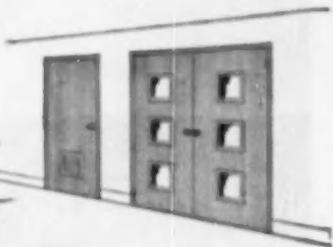
Although all houses are built on two standard plans, purchasers are able to select numerous variations in window treatment, exterior finishes and roof styles. Variations afforded by stone, brick or vari-colored shingle or clap-

(Continued on page 195)

# Announcing

## THE MOST HANDSOME

## DOORS IN AMERICA!



### ALL-ALUMINUM FLUSH DOORS BY KAWNEER

#### Ideal for:

Stores, Restaurants,  
Theatres, Hospitals,  
Schools, Offices,  
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Rich modern beauty dramatizes any exterior or interior with Kawneer All-Aluminum Flush Doors. Their lustrous finish and simplicity of styling makes them unequaled in striking eye-appeal.

An exclusive Kawneer method (Patent Pending) locks the doors together as a rugged integral unit with no bolts or welds visible. Precision-made and carefully balanced, they'll operate smoothly and easily through the years.

Write Department AB-52 at 1105 North Front Street, Niles, Michigan, or 930 Dwight Way, Berkeley, California.

THE  
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ARCHITECTURAL METAL PRODUCTS

Store Front Metals  
Aluminum Roll-Type Awnings  
Modern Entrances • Aluminum Facing Materials  
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**FROM ANY ANGLE  
IT'S CONVENIENCE —  
ECONOMY — REFINEMENT  
Key-in-Knob Tubular Locksets**

With — Corbin time-tested pin tumbler security — at low cost — designed for use in residences — and apartments. Reflecting prestige of CORBIN, a name identified with quality hardware for more than one hundred years.

STANDARDIZE ON CORBIN  
MADE TUBULARS — THERE  
IS ONE FOR EVERY DOOR  
FUNCTION.

**P. & F. CORBIN**  
DIVISION  
The American Hardware Corp.  
New Britain, Connecticut

**New 300-Home Project . . .**

(Continued from page 194)

board fronts, together with roof dormers, gables and different styles of windows.

Because the houses are located on landscaped plots with minimum frontages of 60 feet, there is adequate space for attached garages. These are supplied by the builders for an additional \$1,000.

The standard house exterior has a front of colored



**EXTENDED** cupboard with shelves forms separation between kitchen and dining area of one of model homes in Hillside Terrace development. Finish of kitchen cabinets blends with cupboard

wood shingles and vertical siding stained and shellacked in natural color. Six color choices of wood shingles are offered purchasers. Brick or stone fronts are provided at a slight additional cost. The ends and rear of the houses are of white asbestos shingles, but several early purchasers have paid a small additional amount to have colored wood shingles substituted.

The Hillside Terrace-at-Albertson development is laid out with winding paved streets. One part of the development extends to within 300 feet of the Albertson station of the Long Island Railroad, while the other side of the development is passed by a bus line which provides a connection with the subway at Jamaica. Plans are now being made to locate a new grade school at one corner of the project. Stores and shops are located within a block of the subdivision and plans are under way for the erection of additional stores in the nearby area.

**Report Gain in Prefab House Sales**

James R. Price, president of the country's largest prefab house company, National Homes Corp. of Lafayette, Ind., reports a sales gain of 181 per cent this year. National has turned out 2,634 units in five months compared to 939 in 1949. "We have orders on our books for 10,000 units for all of 1950; last year we sold 4,435 units," the 38-year-old official declares.

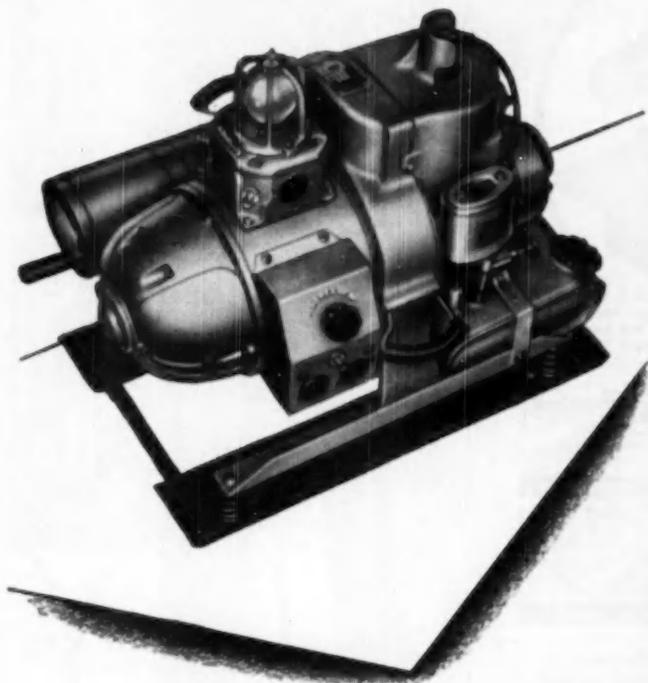
—Wall Street Journal

**AMERICAN BUILDER**

# From Every Angle

A Homelite Carryable Generator

Is the Power Unit for You...



STICK TO THE RULE OF THREE 1. Performance 2. Dependability  
3. Service, and you'll always stick to a Homelite.

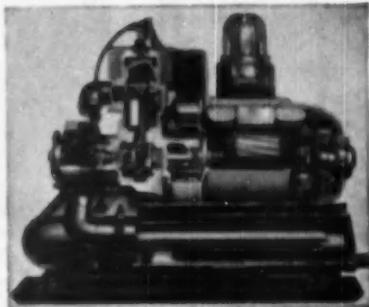
PERFORMANCE  
DEPENDABILITY  
SERVICE

## Homelite Corporation

108 RIVERDALE AVENUE, FORT CHESTER, NEW YORK



**1. PERFORMANCE.** Once you begin to use a Homelite... yet, even when you see it demonstrated... you immediately appreciate its outstanding performance. Light enough for one man to carry, a Homelite packs the power needed to keep hand tools running at full productive capacity... and floodlights burning at full brightness... at any time at any place in all kinds of weather.



**2. DEPENDABILITY.** Every Homelite Generator though light in weight is a heavy duty unit. No baby stuff about it. For more than a quarter century Homelite engineers have specialized in building carryable gasoline engine units... close to three hundred thousand of them... and they know that to keep a generator going on the job they have to use the finest materials and apply the highest engineering skill.

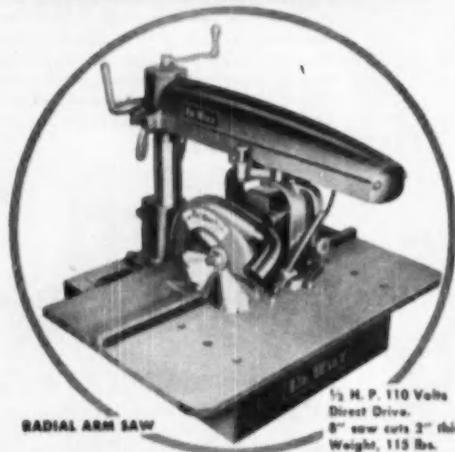


**3. SERVICE.** Like all pieces of machinery, a Homelite Generator needs, in the long run, a certain amount of servicing... a minimum to be sure. But the availability of Homelite service by nationwide exclusive service shops... completely stocked and manned by experts who can service your Homelite right at your door... makes a whole of a difference when it comes to having a generator that will give you instant power not only where you want it, but also when you want it.

# 10 POWER MACHINES IN ONE!

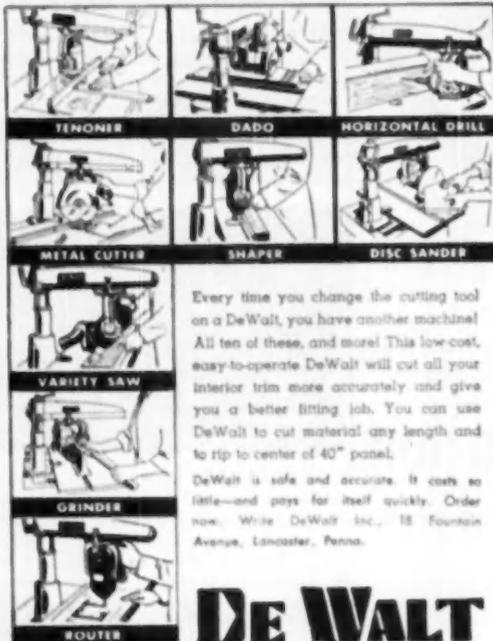
FOR "FINISHING"  
YOUR HOUSES

## DE WALT



RADIAL ARM SAW

1/2 H. P. 110 Volts  
Direct Drive.  
8" saw cuts 2" thick.  
Weight, 115 lbs.



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DISC SANDER

VARIETY SAW

GRINDER

ROUTER

Every time you change the cutting tool on a DeWalt, you have another machine! All ten of these, and more! This low-cost, easy-to-operate DeWalt will cut all your interior trim more accurately and give you a better fitting job. You can use DeWalt to cut material any length and to rip to center of 40" panel.

DeWalt is safe and accurate. It costs so little—and pays for itself quickly. Order now. Write DeWalt Inc., 18 Fountain Avenue, Lancaster, Penna.

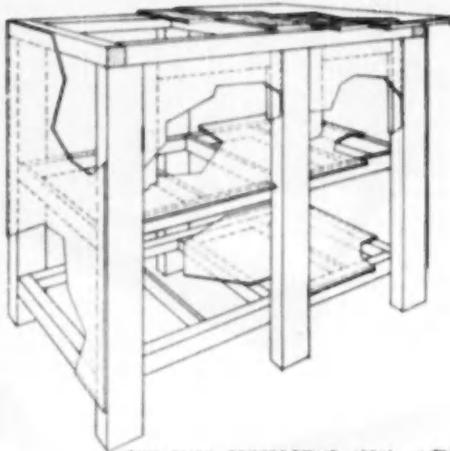
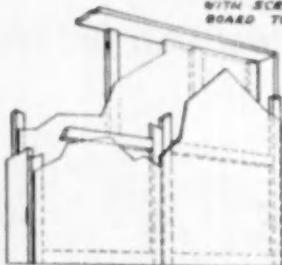
## DE WALT

## How to Build a Garage Work Bench and Cabinet

Too often the excess space in a garage is no-man's-land, when it might just as well be put to purposeful use. Since there always is tinkering to be done in the garage, whether it concerns the automobile, house, yard or garden, this location is excellent for a narrow workbench and a tool board.

There usually is room at the end of the garage, or at one side, for a small workbench like the one illustrated.

NOTE! FASTEN ALL TOOL HOLDERS TO TOOL BOARD FROM THE BACK WITH SCREWS BEFORE SECURING BOARD TO WALL.



CUT AWAY PERSPECTIVE VIEW OF TOOL BOARD & BENCH CONSTRUCTION.

Constructed of 2-inch by 2-inch and 2-inch by 4-inch lumber, the workbench is 34 inches high, 4 feet long and 2 feet wide. The latter dimensions include a 3-inch overhang of the working surface.

Inside the workbench are two shelves, each constructed of Masonite 1/4-inch Tempered Presdwood. The same material is used, because of its hardness and resistance to wear, as the working surface and the sides. Under the Presdwood top are 1-inch by 6-inch tongue and grooved boards. The storage space underneath is closed with two Presdwood doors built on a frame of 1-inch by 2-inch lumber. The doors may be locked with a hasp and padlock.

Six pieces of 2-inch by 4-inch lumber provide sturdy

(Continued on page 200)



## He's on your staff but not your payroll

It was a tough heating problem. But the builder who faced it knew of a proved source of engineering aid on heating. And the Bryant distributor brought in the answer.

Yes, Bryant distributors welcome such opportunities. Complete and thorough factory engineering assistance is at their call. Thus, thinking of the industry's largest staff of gas heating engineers becomes an extra Bryant service for builders from coast to coast.

Other plus factors of the Bryant program are the opportunity of getting most everything in gas heating equipment from a single source . . . a near-by distributor with adequate warehouse stock . . . a nationally famous brand name that clients recognize for its quality.

If you are one of those builders who likes to get *more* than just the product when you put it into your homes . . . *check with Bryant!*



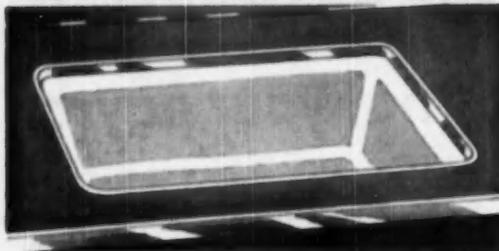
The most complete line of gas heating equipment in the nation

Bryant Heater, Dept. 255,  
17625 St. Clair, Cleveland, Ohio  
 Send me the new booklet that tells  
the Bryant story.  Have your dis-  
tributor call on me.



Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

## How to install the NEW CHROMTRIM fold-down type sink frame...



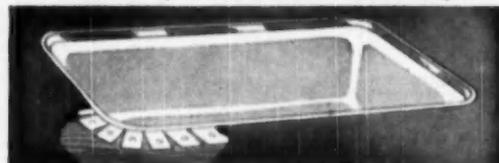
Align CHROMTRIM sink frame over opening. Embed it in Wernco waterproof adhesive and screw down permanently. Frames are pre-drilled with countersunk holes. Use screws supplied.

Cut covering material to fit over frame. Spread Wernco waterproof adhesive evenly over sink top and press or roll down covering material to smooth out all air bubbles.

Fold down lip over material, starting with wood block and hammer. Continue with block and hand pressure until adhesive squeezes out of edges. Clean off excess adhesive immediately.

CHROMTRIM preformed, fold-down frames are available in 13 popular sizes. Fold-down lip grips all covering materials... makes tight waterproof joint on plastics, linoleum, etc. from 1/16 in. to 1/8 in. thick. Available with square back or tapered flanges. For extra beauty, finish outer edges of sink top with CHROMTRIM fold-down underface nosing.

### How to form your own sink frames on the job



Use CHROMTRIM straight face nosing, edging or fold-down type nosing. Slit the flange or underface shapes as shown, to form rounded corners. Saw one slit only for square corners. Write in for complete information.

A complete line of over 200 metal mouldings, aluminum, some stainless steel. There's a CHROMTRIM shape for every need. See your distributor.



Dept. AB

Easy to Buy - Easy to Apply

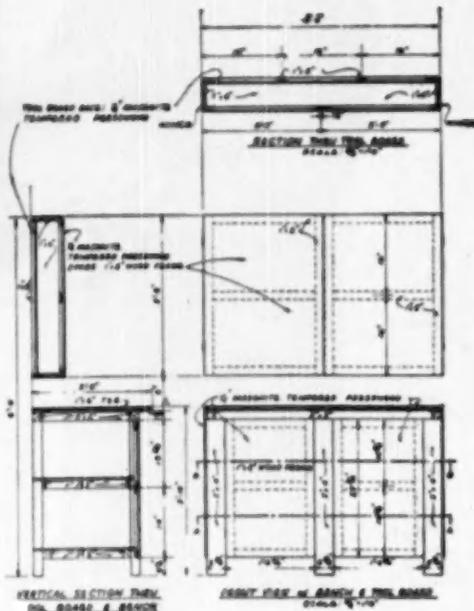
R. D. WERNER CO., Inc., 205 Fifth Avenue, New York 16, N. Y.  
In Canada: R. D. Werner Co., Ltd., Oshawa, Ont.

## How to Build a Garage Work Bench...

(Continued from page 198)

legs for the bench. To give rigidity to the frame, 2-inch by 2-inch lumber is nailed to the top of the legs and at a distance of 3 1/4-inches from the floor. The tongue and groove backing for the working surface and the bottom shelf are also supported by these framing members.

Separate from the workbench, suspended on the garage wall, is an enclosed tool board which is 2 feet 8 inches



high and the width of the bench.

Sides of the tool board are 1-inch by 6-inch lumber. The back and the doors are framed of 1-inch by 2-inch lumber and covered with Masonite 1/2-inch Tempered Presdwood.

Holders for the tools, which may be purchased or made on the job, should be screwed to the board from behind before it is fastened permanently to the garage wall. The inside of the doors may be used also for suspending tools and small garden equipment.

A copy of the plan may be obtained free by writing Masonite Corporation, 111 West Washington St., Chicago 2, Ill., and asking for drawing No. AE-250.

## Fuel Saving Method

The installation of a tempering tank between the water meter and the water heater will save fuel in the heating of the domestic water supply for the kitchen, laundry and bathroom, according to the Plumbing and Heating Industries Bureau. The tank, which should be left uninsulated and placed under the ceiling at the warmest point in the basement, kitchen or utility room, will have the effect of bringing the water to room temperature before it enters the water heater.



**MORE FARM HOMES**  
*Have been added to the*  
**4-Square Building Services**

DESIGN No. PH-6178

### HELPING BUILDERS SERVE A RICH MARKET

Special interest is being focused on modern farm homes. The desires of farm families for convenient, comfortable housing . . . and the creation of favorable financing for farm homes, are developing a rapidly growing rural market.

More and more builders are seeing in this market a rich field for the sale of new homes. These homes must, however, be special homes . . . homes specially designed for farm living.

As a timely and effective addition to its 4-Square Building Services, Weyerhaeuser offers 3 new designs of farm homes, including blueprints and condensed material lists.

Agricultural extension specialists, architects and engineers collaborated in designing these homes. They have provided modern kitchens, bedrooms, baths, a high degree of privacy . . . plus that modern essential of farm homes . . . *the service room* . . . the buffer between the kitchen and the farm yard.

Advertised in state farm papers from coast to coast, 4-Square farm homes have stimulated tremendous interest. Thousands of requests for details have been received from farm families.

With specially designed farm homes, Weyerhaeuser is helping builders serve the profitable farm market. See your 4-Square Lumber Dealer for complete details.

# Weyerhaeuser

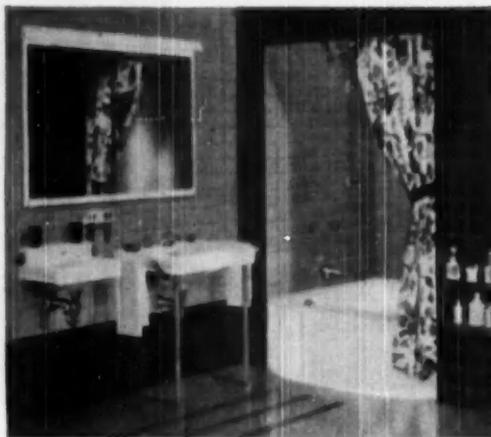
## 4-SQUARE LUMBER AND SERVICES

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*Build for Greater Value with the*  
**4-SQUARE BUILDING SERVICES**

Save with  
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**VIKON METAL TILES**

buy only the number you need!



Here is the metal tile that is easily installed on existing walls or ceilings without expensive alterations or disconnection of fixtures. On new construction VIKON TILE permits economically erected walls or wall boards to be used as a satisfactory base. Can be applied over any smooth surface. Recommend *Individual* Vikon Metal Tiles, your guarantee of client satisfaction.

- 27 fade-resistant decorator colors and stainless steel
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STEEL · ALUMINUM · STAINLESS STEEL

**VIKON TILE**

BEAUTY · ECONOMY

COLOR  
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METAL

DURABILITY

MAIL THIS COUPON TODAY

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Washington, New Jersey

Dept. 40

Please send me, without obligation or cost, a full-color descriptive brochure and sample of Vikon Metal Tile. I am interested in tile for:

My home  As a dealer  As a contractor

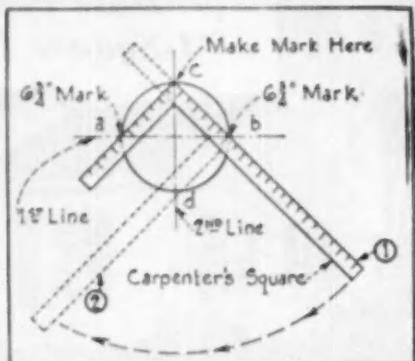
NAME  (Please Print)

ADDRESS

CITY  ZONE  STATE

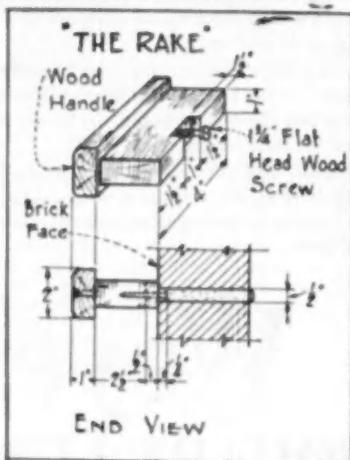
**TECHNICAL GUIDE**  
for Builders and Craftsmen

**How to Locate Center of Disk**



The center of a large disk or circle can be quickly found by using a common carpenter's square. The square is laid on the disk so that the reading on each side of square is the same, with the outside corner of square flush with the outside edge of disk. Draw a straight line from the two points (A and B). Then turn the square and place it in the position shown in Figure 2 and repeat the process. Draw a line between points (C and D). The center of these two lines will be the center of the disk.—Submitted by Herbert E. Fey, New Braunfels, Texas.

**How to do a Raked Brick Joint**



"The Rake" used in conjunction with brick laying when raking out mortar joints in a brick wall, will produce an even and uniform appearance. The slot in the center of rake allows the excess mortar to drop away. If the rake is used extensively it will wear out a screw a day. The size of screw used will depend entirely upon the size of the mortar joint. Rake can be made of 3/4 inch material. Any tough wood will do. To operate, the rake is pushed back and forth until mortar is removed. Helper can operate.—Submitted by C. D. Robb, Frankfort, Ohio.

Gunnison.

# CHAMPION HOMES

## Add up to SOUND INVESTMENT!

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NEW CHAMPION HOMES FOR 1950!

**QUALITY THAT WINS DEMAND . . .** means more profit for you! CHAMPION Homes withstand all climatic conditions because of rugged construction and quality-inspected structural materials. They are available in 3 sizes and 30 designs . . . varied colors . . . enough architectural variation for many combinations in large group developments, with no two homes alike!

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UNITED STATES STEEL  CORPORATION SUBSIDIARY

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★TM  
AUGUST, 1950

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## PRIME WINDOW

(VERTICAL SLIDERS)

The durable, rust-resisting Armco Metal window unit that will **REDUCE** your installation costs



### ONLY RUSCO OFFERS THESE DESIGN AND CONSTRUCTION FEATURES...

All working parts are of strong, tubular, hot-dipped galvanized Armco Ingot Iron Zinc-grip, Bonderized and finished with baked-on enamel. No field painting required, (except wood trim when used). Glazing and on-the-job refitting are all completely eliminated. Design permits installation in less than half the time required by ordinary window units. A quality product, competitive with the lowest price window unit on the market.

### OFFERS YEAR 'ROUND BENEFITS:

1—A year 'round unit—no screens or storm sash to buy . . . 2—Built-in ventilation control . . . 3—Glass and screen panels removable from inside for easy washing . . . 4—No weights, cords or balances . . . 5—Waterproof felt weather stripping . . . 6—No binding or sticking . . . 7—Lumite plastic screen cloth—permanent—no deterioration or streaking . . . 8—Automatic locking in closed and ventilating positions.

**RUSCO GIVES YOU** a complete, factory-assembled, factory-painted metal unit . . . contains glass, screen, weather stripping, installation members (wood or metal), self-storing insulating sash\*.

*Optional*  
Get the facts about Rusco Prime Windows. You'll see why they save on-the-job costs . . . help sell houses. See the Rusco distributor in your locality, or write direct.

## THE F. C. RUSSELL CO.

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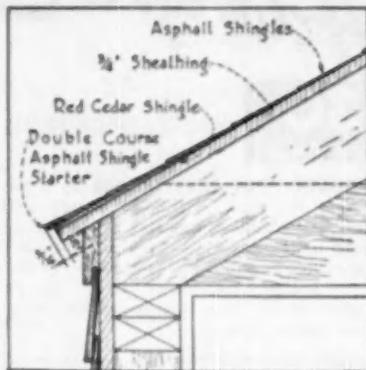
Manufacturer of the famous Rusco all-metal, self-storing combination screen and storm sash.



## TECHNICAL GUIDE

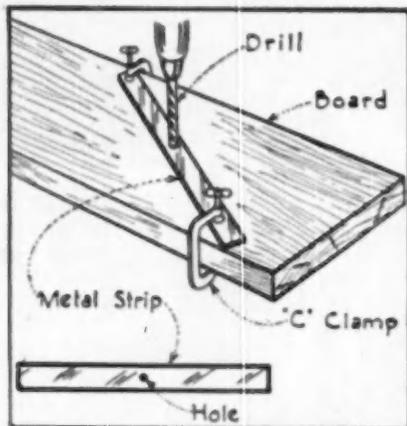
for Builders and Craftsmen

### How to do a Better Roofing Job With Asphalt Strip Shingles



When sheathing has been applied and roof is ready to shingle, start at gutter line with one course of 16 inch Red cedar shingles as indicated in illustration. Project the wood shingle approximately one to one-and-one-half-inches beyond edge of roof sheathing. Start double course of asphalt shingles about 5/16 inch beyond edge of red cedar shingle. This produces a stiff edge which will not break or sag.—Submitted by C. D. Robb, Frankfort, Ohio.

### How to Prevent Drill From Wandering in Wood



Drill is prevented from wandering in soft grainy wood by applying a strip of metal on the wood as shown in illustration. Metal strip should be about 12 inches long with a hole of the desired diameter drilled through the exact center. Metal strip is secured to the board by a C clamp on either end so that the bored hole in metal will occur directly over the area where hole is to be bored in wood. Drill through the hole already in the metal. The bit will not wander.—Submitted by Herbert E. Fey, New Braunfels, Texas

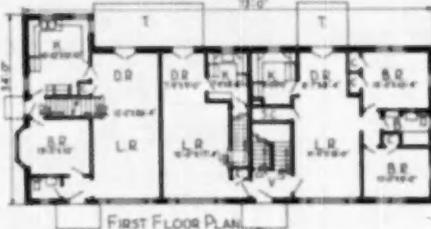
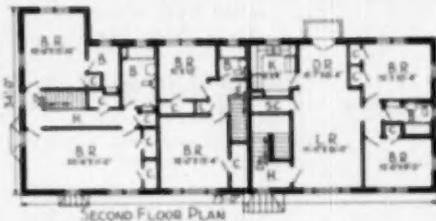
## Rental Units . . .

(Continued from page 95)

this year in a neighborhood development competition sponsored by the National Association of Home Builders, was Solheim's first FHA Title 608 project, and Nebraska's first such project. After completion, Solheim bought out complete interest in the Sweeney-Solheim Corp. which built the apartments, and began devoting full time to architectural work. So popular were Nebraska's first 608's



OWNER of this fourplex lives in one unit, rents others



EACH floor of building has about 2,400 square feet

that adjoining states began to demand his plans, and Solheim, now called the "flying architect," has clients in four states, and goes from job to job in his privately owned airplane.

Among a long list of clients are retired policemen, lawyers, and common laborers, who in many cases, acted as their own builders. One owner four years ago with no previous construction experience built one of the apartments with the architect's supervision, then built another, and is today a successful builder in Lincoln. Small builder clients are particularly interested in rental units designed by the architect, mainly because large investments in materials, labor and time are not required.

### Big Kansas City Project

One of Kansas City's biggest apartment projects, consisting of 666 units, costing \$5,000,000, was started around July 1. The garden type residential development is located on a 60-acre tract of flat wheat land. There will be 600 two-bedroom apartments to rent for less than \$75 a month.

AUGUST, 1950



**Thor**

*Silver Line*

## SAWS

SIX SIZES—BLADE CAPACITIES TO 12"\*

SAFER—EASIER TO HANDLE  
FAR MORE POWERFUL!



1 SAFETY-LOCK SWITCH—positive protection against accidental starting.

2 EXTRA WIDE REINFORCED STEEL SAFETY BASE for better balance—easier to handle, safer to use.

3 LONG-SHAFT TRANSVERSE MOTOR MOUNTING transmits as much as 25% extra power, supports blade on crescent ball bearings from one side of the tool clear to the other.

4 UNIQUE SHOCK-ABSORBING GEARING harnesses the added power of these great new saws, gives extra life to motor, gears, spindle and blade.

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**Shovelair**

### "BUILDERS SPECIAL" EXHAUST FANS

Here is a fan you will be proud to install. Features found in the highest priced fans—rugged strength in steel tubular frame. Vertical models mounted in SKF Bearings, horizontal models with diamond-bored sleeve bearings—made in 3 sizes and powered with 1/2 H.P. Westinghouse or GE Motor. Positively the lowest priced fan of this quality found anywhere. Write for details today.

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30" 36" 42"**  
SKF BEARINGS



AS LOW AS  
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QUANTITY PRICE  
I. O. B. ATLANTA

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**HORIZONTAL DISCHARGE, 30", 36", 42"**  
With Diamond-Bored Sleeve Bearings

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- Easy to Install



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Write for new C & H catalogue showing complete Shovelair line for 1910, and name of nearest distributor.

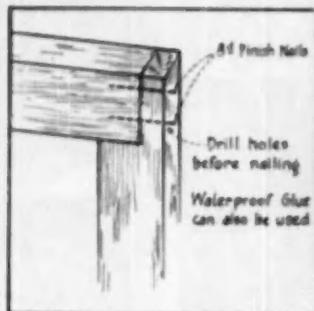
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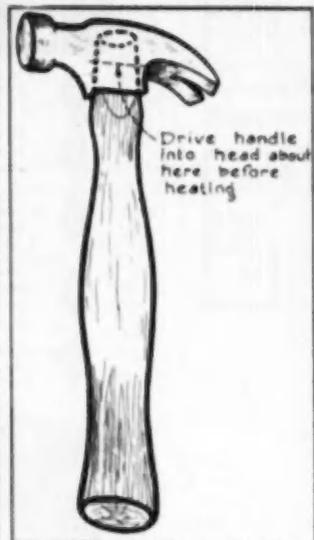
## Ideas for Apprentice Craftsmen

### How to Make a Joint for Screens



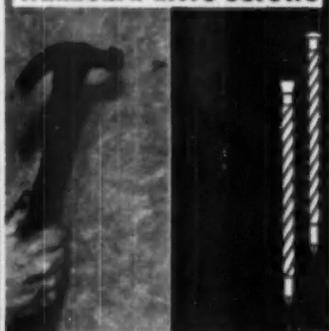
The illustration above indicates a corner joint for screens and screen doors that has proven satisfactory.—Submitted by H. J. Priehs, Ideal, Ga.

### How to Replace a Broken Hammer Handle



Buy a small bottle of glycerin. Soak new handle in solution for one week. After removing from solution file handle carefully with rasp so it fits head tightly. Drive to point marked on illustration. Heat hammer in oven until head is hot; then drive handle all the way in and wedge as usual. Hammer will be better than new.—Submitted by J. G. Caldwell, San Mateo, Calif.

## wallboard drive screws



For installing asbestos cement-type wallboard use Hassall wallboard drive screws. Specifically designed with spiral threading for better holding power. Supplied with nickel-plated finish with either casing or button heads. Advise quantities. Prompt delivery.



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Brooklyn 22, N. Y.  
Established 1850

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A complete range of sizes for AXES, HAMMERS, SLEDGES, MALLETs, HATCHETS and other handle-type tools.

**Red Devil GRADY WEDGES**  
"hold like a fish hook".

New counter-salesman holds 36 No. 5 and 24 No. 10 Wedges for quick sales. Complete line illustrated in actual size.

Can't chip—rust resistant—barbs withstand vibration and force—they won't work loose.

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IRVINGTON, N. J., U. S. A.

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**FINISHING FLOORS!**



**NEW**  
 SPECIFICATION  
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**NEW**  
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 OF FLOOR  
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Now you can have the complete facts about finishing floors—right at your fingertips—in this handy new 3-foot chart prepared by American! Helpful in estimating coverage, drying time, selection of materials and other data for all floors. Gives data and recommendations on 15 quality materials for treating floors, including penetrating floor seal finishes, surface floor finishes, floor cleaning and maintenance materials, and rapid drying special finishes. This chart will be sent free to contractors and architects upon request. Also, a complete new A.I.A. file on preparation, finishing and maintaining all types of floors is available to you without obligation.

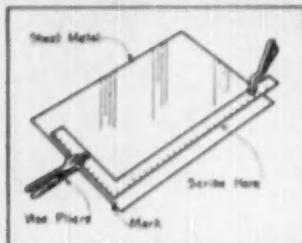
New—a complete line of American finishes now offered for *all kinds of floors!* This gives you the correct material—in the finest quality—for each type of floor, and for each desired result. There are American seals, finishes, waxes and cleaners for every requirement—glossy or satin—fast-drying or normal drying—on wood, cork, linoleum, terrazzo, asphalt tile, rubber tile, concrete, plastic, and other types. The right materials for *long life and easy maintenance!*

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## Ideas for Apprentice Craftsmen

### How to Hold Straightedge Securely While Working



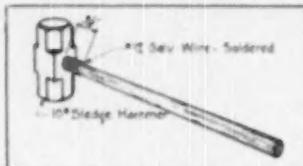
To scribe a line on sheet metal, slip the jaws of two vise pliers over the metal piece and straightedge and lock them into position. The line can be scribed easily without the possibility of straightedge sliding away when hands are used and sheet metal is slippery or greasy.—Herbert E. Fey, New Braunfels, Texas

### How to Locate Buried Curb Cock or Soil Pipe

When attempting to locate a buried curb cock or soil pipe obtain a hand compass and hold it close to the

ground. Get needle of compass in a steady position and pointing north. Move compass around until needle is deflected. This will indicate where the hidden parts are located and then start digging.—Submitted by C. D. Robb, Frankfort, Ohio

### How to Repair a Sledge Hammer Handle



The next time it becomes necessary to fix a sledge hammer handle try the following method:

Fit the handle and wedge in the usual manner. Twist some 12 gauge wire around the handle directly next to the head of hammer. Let one piece of wire lay against handle and wrap the other end tightly around the handle for a distance of about three inches. Twist together and solder.—J. G. Caldwell, San Mateo, Calif.

## BOSTROM LEVELS

### FOR HALF A CENTURY



No. 3 BOSTROM  
Convertible Level  
Detachable Com-  
pass when desired

Have been the most economical  
precision leveling in-  
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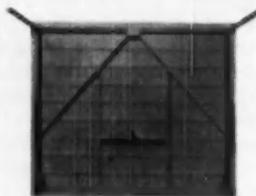
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Available single or double,  
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to caulk easier... faster... better  
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Wherever an airtight, weatherproof perfection is required... call on non-hardening, non-staining CALBAR CAULKING COMPOUND. It's "elasticized" and adheres to ANY surface.  
available everywhere in a complete line of colors and containers. Write for the name of your nearest distributor.

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**H**ERE'S real news, Mr. Builder. The low cost of the new Gold Bond Mat-Thick Sealed Blanket enables you to give even your lowest-price homes the benefits of fireproof, top quality insulation. These rugged, lightweight blankets are completely enclosed with breather cover on three sides, and a vapor barrier on the fourth side. Designed for today's competitive market! Available now in most territories at Gold Bond Lumber and Building Supply Dealers.



Sealed blankets fill usual 8 ft. wall height from floor to ceiling in one operation. Heavy duty nailing flange. Greater lengths on special order. Meets F.H.A. and Building Code requirements in nearly all areas.

**NATIONAL GYPSUM CO.**  
BUFFALO 2, NEW YORK

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



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IT'S FIREPROOF  
CAN'T BURN

BUILT-IN  
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BARRIER!

8 FT. LENGTHS  
EASY TO HANDLE!  
GOES UP FAST!

You'll build or  
remodel better with

**Gold Bond**



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Cost-conscious, quality-conscious Levitt & Sons are making important savings on every house by using gypsum siding for sheathing, instead of boarding. ES-nails make these big savings possible.

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ES-nails are easy to apply. No special tools are required; use a regular shingling hatchet or carpenter's hammer. They are self-locking, attaching wood or asbestos shingles directly to gypsum or insulation sheathing. They can be driven at any convenient point—no need to locate studs.

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Approved by the Red Cedar Shingle Bureau, Seattle, Washington, representing manufacturers of Certified Shingles.  
®Trade Mark Reg. U. S. Pat. Off.

## Stud Welding Speeds Roof and Siding Installation

STUD welding, a high-speed, war born technique that saved ship-builders an estimated 100 million man-hours in six years, has enabled the contractor installing 18,000 squares of corrugated aluminum roofing and siding at Aluminum Company of America's new Point Comfort Works in Port Lavaca, Texas, to break all records on his job.



SPECIAL templates are used by members of Jamar-Olman Company's erection crews to mark locations for aluminum-steel studs

H. W. (Bank) Wilson of Jamar-Olman Co., Chicago, turned his stud welding crews loose on one of the big aluminum reduction units at a time, as fast as paint on the steel was dry. Working from swinging scaffolds with one Lincoln generator for every four Nelson stud welding guns, they



STUD is loaded into Nelson welding gun

installed all of the 35,000 composite aluminum and mild steel Rivweld studs for a single building before the first sheet of corrugated material was applied. Stud welding quartets completed installation of all studs required for 500 squares of roofing in six days, while a double quartet handled studding for 900 squares of siding in five days.

Sheeting crews then moved in, with four men in each roofing gang working directly on purlins and three at work on siding, which was erected from tubular steel scaffolding around the outside.

A 7-man team, four stud welders and three sheeters, hit a steady stride of between 2,500 and 4,000 square feet of siding per day, while 8-man roofing teams, four stud welders and four

(Continued on page 212)

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A-100 Thermostat Sales Manual Reel



TE-6 Remote Bulk Package Set



BX-49 Timer Thermostat Package Set

**GENERAL CONTROLS are in charge!**

MB-3-5 Thermostatic Valve

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101 Allen Avenue, Greenburg, N.C.

Manufacturers of Automatic Pressure Compensating  
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# Brown's SUPERCEDAR

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**Guaranteed 90% Red Heart or Better**

Only SUPER CEDAR is of the same uniform high quality standard that guarantees every package to contain 90% Red Heart or better, and 100% oil content that produces the pleasing aroma

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Suggest Cedar Lined Closets to Every Home Builder. There is Nothing Better than

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More home builders are specifying cedar lined closets today than ever and Brown's SUPERCEDAR is nationally advertised to thousands of new home prospects, architects and builders. SUPER CEDAR closet lining is surfaced, tongue and grooved, ready to put on with no waste. Packaged and sealed with the Geo. C. Brown label and guarantee, famous since 1896.



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**POPULARITY LEADERS** Chevrolet trucks are the favorites by far! In every postwar year truck users have bought more Chevrolets than any other make. And that's proof of the owner satisfaction they have earned!

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**PAYLOAD LEADERS** Careful design and rugged construction permit you to haul more goods more miles—at lower cost per ton mile! You enjoy real savings on operating and repair costs.

**PRICE LEADERS** You're money ahead with Chevrolet trucks! Chevrolet's rock-bottom initial cost—outstandingly low cost of operation and upkeep—high trade-in value, all add up to the lowest price for you.

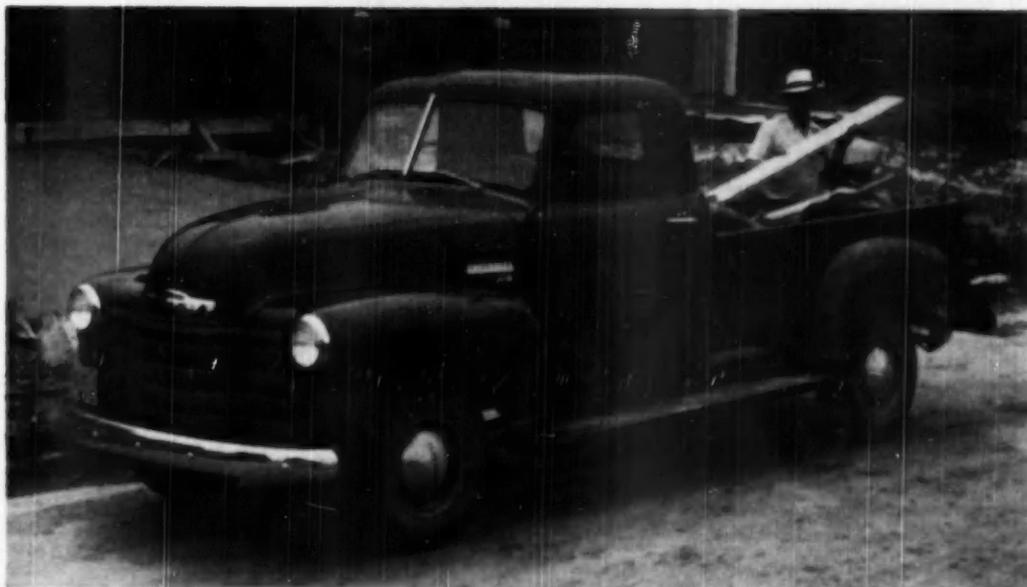
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Chevrolet Advance-Design trucks have everything it takes—and plenty to spare. Rugged construction to withstand the wear and tear. Handling ease and comfort to lighten the load of a day's work. And more power than ever! Two great Valve-in-Head engines—the Loadmaster 105 h.p. and the Thriftmaster 92 h.p.—make these the most powerful trucks Chevrolet has built! Yes, these new jobs bring you peak value—and at a low price. They cost surprisingly little to buy, to run and maintain. That's why Chevrolet trucks outsell them all!

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ADD FLEXIBILITY  
+ ADD BEAUTY**



"Swing" is old fashioned!  
The "pleat's" the thing in doors!

America's new pleat-type door closure with the cornice that gives it a "finished look."

**foldDoor** is the answer to space saving, to an unheard of FLEXIBILITY of room-arrangements, to new, up-to-the-minute BEAUTY.

**foldDoor** is the best looking door closure you ever saw. Folds into beautiful pleats into an unbelievably small space, can be operated by a child . . . and open or closed, retains its beautiful pleated lines to add charm to any room.

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Available in STOCK and MADE TO ORDER sizes. Write for descriptive literature and specifications.

Excellent Installing Distributor Territory Still Open. Write for Information.



**HOLCOMB & HOKE MFG. CO., INC.**

1545 Van Buren Street, Indianapolis, Indiana

### Stud Welding . . .

(Continued from page 210)

sheeters, completed between 4,000 and 6,000 square feet every day.

"On many occasions, working under ideal conditions, one roofing crew installed better than 5,000 square feet, and the peak day on siding was considerably better than 4,000 square feet," Mr. Wilson said.

"We use special templates, 20 to 24 feet in length, which were clamped to the steel struts to speed the layout



STUDS for siding material are installed before erection of corrugated aluminum



AFTER installation of studs, aluminum-colored asphaltic-base paint is applied around studs for long-term protection

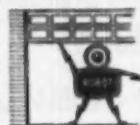


CORRUGATED aluminum sheet is positioned over studs. stud extensions are drawn through sheet, burrs or washers are applied, and rivet set and hammer used

(Continued on page 214)

## ROBOT OPERATORS

Electronically  
**OPEN  
CLOSE  
LOCK  
GARAGE DOORS**



AND GATES

Approved by Underwriters Laboratories  
Residential, Commercial, Industrial

THOUSANDS  
IN NATION-WIDE USE  
. . . MANY OVER 20 YEARS!  
**ROBOT OPERATORS**  
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**ROBOT APPLIANCES, INC.**  
13165 Prospect Ave. Dearborn, Mich.

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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 individuals laid up

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.

AMERICAN BUILDER

# HOW to give them more house for the money

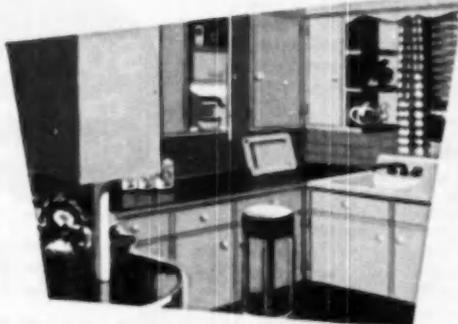
with the **MASONITE HARDBOARD FAMILY**



**HOW to Provide Crackproof Walls.** These super-smooth living room walls will never crack, dent or scuff! They'll hold paint or other finishes indefinitely because they are made of Masonite  $\frac{1}{4}$ " Panelwood®. The cabinets have doors of Leatherwood—a Masonite Hardboard with a surface that simulates Spanish-grain leather.



**HOW to Specify a Luxury Bathroom—at Low Cost.** In this bathroom, Masonite Temprite® was used for the lower walls and Masonite  $\frac{1}{4}$ " Tempered Presdwood® above. Masonite Temprite is tempered for extra durability and moisture resistance—score lines are pressed in the surface to form a 4" tile pattern. The built-in cabinets are made with  $\frac{1}{2}$ " Tempered Presdwood.



**HOW to Multiply Kitchen Efficiency.** No need to stint on kitchen cabinets, even in the lowest cost home. These cabinets are built with economical Masonite Hardboards, ends and backs of  $\frac{1}{2}$ " Standard Presdwood—cabinet doors and counter tops are of Tempered Presdwood for extra wear resistance. Walls are Temprite.

There are 19 Types and Thicknesses of Masonite Hardboards for 1000 uses

## MASONITE®



## CORPORATION

Get all the facts about Masonite Hardboards—Mail the coupon!

MASONITE CORPORATION  
111 West Washington Street, Dept. AB-5  
Chicago 3, Illinois

Gentlemen:

For my files, please send me information and literature about Masonite Hardboards.

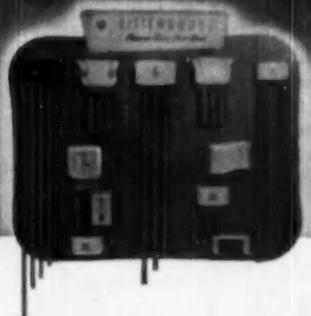
Name.....

Address.....

City.....

State.....

**6 REASONS WHY**  
*Rittenhouse*  
**DOOR CHIMES**  
**ARE YOUR BEST BUY**



**1. UNEQUALLED, DISTINCTIVE TONE**

The melodious, cathedral tones of Rittenhouse Door Chimes make them the finest money can buy.

**2. STYLED FOR CUSTOMER ACCEPTANCE**

Styled with grace-of-line beauty to suit any home interior.

**3. TROUBLE-FREE PERFORMANCE**

Engineering design, materials, and expert craftsmanship in Rittenhouse Door Chimes enable you to spend your time selling—not servicing.

**4. A MODEL FOR EVERY TYPE HOME**

There's a model Rittenhouse Door Chime for every type home from cottage to mansion.

**5. OVER A MILLION SATISFIED USERS**

Wide popular acceptance of Rittenhouse Door Chimes assures added sales and profits.

**6. POPULARLY PRICED FROM \$3.95 to \$94.50**

A complete line. Every model is crammed with big value.

**WRITE TODAY.** Get the merchandising facts about the full line of Rittenhouse Door Chimes. Also our complete line of doorbell and chime transformers.

**THE RITTENHOUSE CO., INC.**  
12 Owen St., Honeoye Falls, N. Y.

**Hotpoint Completes Installations For Commercial Cooking Equip-**

Hotpoint, Inc. has completed the tooling and machine installations of its 500,000 square foot electric commercial cooking equipment plant at Chicago Heights, Ill., and is producing a new line of heavy duty ranges and bake ovens, James J. Nance, president, recently announced. The plant was acquired shortly after the



**HOTPOINT'S** new commercial cooking equipment

war as a part of the company's \$35 million Chicago area postwar expansion of facilities for the manufacture of complete kitchens and laundries for home installation and the production of institutional equipment. The

The first production from the Chicago Heights plant was planned to coincide with expansions of electric utilities which are now reaching completion in many parts of the country and bringing these companies into the selling and promotion of commercial equipment for the first time since the war.

**Stud Welding . . .**

*(Continued from page 212)*

work," Wilson said. "We found that since the variation in the corrugated sheets (10 feet high by 33 inches wide) never exceeded  $\frac{1}{8}$ -inch, we could install all the studs before applying any sheeting with perfect safety."

Operation of four stud welding guns with one welding generator was accomplished with leads of 00 cable, which was held to less than 250 feet. While simultaneous operation of any two or more guns at the same instant would obviously result in an incomplete weld, experience showed that this never happened more than once or twice a day, so that the loss of time and materials was negligible compared to the savings on equipment.

"By having 50 per cent more stud welding equipment available than was required for actual operation," Wilson explained, "the job was carried through without any delays or time loss for equipment maintenance."

**WEATHER-BLOC**  
Trade Mark Patent Applied for  
**SINGLE UNIT VENTILATOR**  
for **GLASS BLOCK**  
in **HOMES, STORES, OFFICES**



**INSIDE FACE**  
"Finger-Tip" ventilation control by 2 adjustable glass levers.



**OUTSIDE FACE**  
Permanent glass diffuser set at an angle.

Weather-Bloc takes no longer to install than single glass blocks—simply set in place of glass blocks. No caulking or special preparation is required. For installation in completed construction, break out the glass block where ventilation is required and replace with Weather-Bloc. All parts can be cleaned or replaced from inside the room.

AVAILABLE THROUGH YOUR  
GLASS BLOCK DEALER OR JOBBER

Also Nationally Distributed by  
**WINCO VENTILATOR CO., INC.**  
533 Bittern St., St. Louis, Missouri

**WEATHER-BLOC**

Product of AIR RECTIFIERS, Inc.  
3724 Southport Avenue, Chicago 13, Illinois

**SOLVAY**  
Calcium  
Chloride

**PREVENTS  
DUST**

Dust control is easy and inexpensive with SOLVAY Calcium Chloride. Anyone can apply SOLVAY Calcium Chloride . . . no special tools or equipment are needed! This clean, colorless, odorless material eliminates dust efficiently—and economically. Be sure to order SOLVAY Calcium Chloride.

**SOLVAY SALES DIVISION**

Allied Chemical & Dye Corporation  
40 Rector Street New York 6, N.Y.



**AMERICAN BUILDER**

Easy to  
Lay

Speeds  
Your Jobs

Brings  
Your Money  
in Faster

# HARDWOOD FLOORING

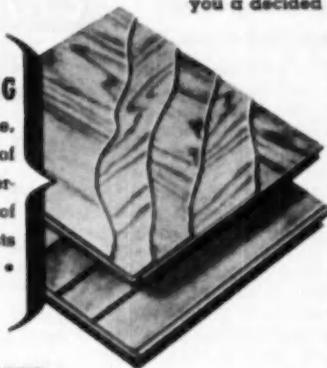
from *Higgins*  
WORLD-FAMOUS BOAT BUILDERS

There's a lot behind the rich beauty of Higgins Bonded Hardwood Block Flooring that doesn't meet the eye—features that give you a decided advantage on any quality hardwood flooring job.

1. You buy Higgins Hardwood Blocks by NET measurement—each one precision cut to 9" x 9" face. No dimensional loss allowance to make for tongues and grooves.
2. You install Higgins Blocks quickly and easily over steel, concrete, or any type subflooring. Can be laid in adhesive—or blind nailed.
3. No "lefts" or "rights" to slow you down; pick any Higgins block at random, and it fits. No waste by splitting when blind nailed; tongues are integral part of block, cross-grain-reinforced.
4. Blocks come with final luxury finish—no on-the-job finishing. Housewives like the easy, low-cost maintenance of a Higgins floor. These are just a few of the many profit features.

## HIGGINS FLOORING

Will Not Warp, Buckle, Cup, or Crack • Rot-Proof  
• Termite-Proof • Water-Repellent • Climate-Proof  
• Stain-Proof • Resists Abrasion • Easy to Lay • Money-Saving.



MAIL THIS COUPON FOR  
SAMPLE BLOCK AND LITERATURE

Higgins, Incorporated  
Dept. #12  
New Orleans, Louisiana  
Gentlemen: Please send sample of Higgins Bonded Hardwood flooring block, together with detailed literature.

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

Zone \_\_\_\_\_

State \_\_\_\_\_

Your Name \_\_\_\_\_

*Higgins*  
INCORPORATED NEW ORLEANS



## BONDED HARDWOOD BLOCK FLOORING

## Fred C. Walters knows what they want, and it takes **ADEQUATE WIRING**



"The occupants of the Walters Apartments are high in their praise of the trouble-free operation of their electrical equipment—thanks to certified Adequate Wiring. Adequate Wiring means a lot to me in terms of tenant satisfaction and investment protection," says Fred C. Walters, prominent Cincinnati builder.

Millions spent in national advertising have convinced the American public that Electrical Living is for them.

Make their conviction your selling point! You must wire anyway. Adequate Wiring is one of the least costly "plus values" you can add to attract tenants or buyers.

With Adequate Wiring you get all these advantages:

**Faster, better loans**  
**Promotional help**  
**Better occupancy**  
**Easier sales**  
**Reputation for quality**

For information, or help in applying this selling tool to your operation, Just use the handy coupon.



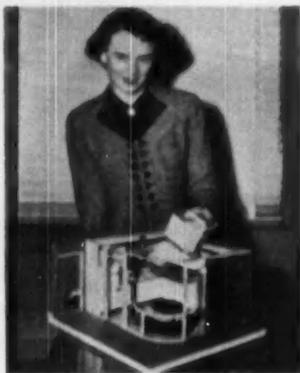
**Selling's Less Tiring With Adequate Wiring**

**National Adequate Wiring Bureau**  
DEPARTMENT AD

155 East 44th Street, New York 17, N. Y.  
Please put me in touch with the nearest local Adequate Wiring Bureau. I'm interested in giving my houses more sales appeal.

NAME.....  
COMPANY.....  
ADDRESS.....  
CITY.....STATE.....

## Home Design Contest Winner Inspects Model Of Kitchen



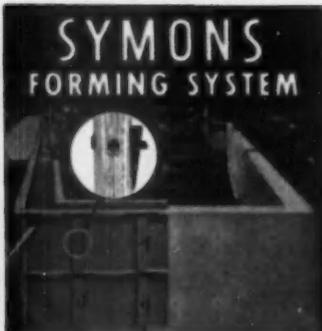
JUST before sailing for Europe, Elizabeth Graham Bell stops in New York to pass final inspection on a miniature model of a General Electric kitchen in the first-prize-winning home she designed for the recent contest for women architectural students sponsored by the American Builder and the National Association of Home Builders. Miss Bell, of Carnegie, Pa., a student of Carnegie Institute of Technology, is using her prize money to study European architecture this summer. General Electric Co. distributes across the country and working with local builders to construct and display her modern fire-room house this fall.

## Study Marketing Costs Of Building Materials

A study of the marketing of building materials will be made by the University of Pennsylvania under a research contract with the Housing and Home Finance Agency, Raymond M. Foley, HHFA administrator has announced. The project is part of the economic and technical research program authorized under the Housing Act of 1949.

The study will be carried out in the Philadelphia metropolitan area and in one or more other cities. Dr. Richard U. Ratcliff, director of HHFA's Division of Housing Research, said co-operation of builders, lumber dealers and manufacturers will be sought by the University. In connection with the study, information on prices, margins, dealers' expenses and other pertinent matters will be collected and analyzed as a part of the long-range program designed to reduce housing costs.

**NATIONAL HOME WEEK**  
September 10 to 17



### SAVES TIME

Best shows how Symons System saves time in erecting and stripping forms. Both pass through 3 x 4 studs and tie loops. Wedge secures the assembly. This simple device cuts forming time 50%.

### SAVES LABOR

Harry G. Dohring, Foreman, Taylor Brothers, South Bend, Ind., states: "Seven men set up the forms for a 20' x 27' foundation in one hour and fifteen minutes."

### SAVES COST

With Time and Labor cut in two... Plus savings in nails, spreaders, walers and bracing... Plus for greater reuse of forms... Cash drop to a new low.

SENT WITH PURCHASE OPTION

WRITE TODAY FOR FREE CATALOG

**SYMONS CLAMP & MFG. CO.**

4261 DIVERSEY AVENUE  
CHICAGO 39, ILLINOIS



## Need a Chimney?

### VAN-PACKER PACKAGED CHIMNEY

## BUILDERS

- **SAVE MONEY**  
Costs up to 50% less than brick.
- **SAVE SPACE**  
Hangs from ceiling or below joists. Use space underneath.
- **SAVE TIME**  
Install in 3 man hours or less.
- **AVOID JOB DELAY**  
Immediate delivery to job of complete chimney.

Meets FHA requirements



Underwriter's Lab. tested and approved for use with all fuels.

**VAN-PACKER CORPORATION**

136 S. Clark St.  
Chicago 3, Ill.



AMERICAN BUILDER



## CLAY PIPE...fused by fire for EVERLASTING service

VITRIFICATION — the heat-bonding process that makes Clay Pipe tough, corrosion-proof, and everlasting — takes place at temperatures exceeding 2000° F. Under carefully controlled firing, the minute particles of rock that have been formed into Clay through centuries of nature's purification are fused *permanently* together. Vitrified Clay Pipe needs no coating to protect it from the corrosive action of sewage, ground waters, soils, or industrial waste. It's chemically inert, completely safe from the acid attack that destroys so many materials. No other pipe offers all the *necessary* advantages of Vitrified Clay Pipe. That's why

cost-conscious builders rely on it — to keep profits up and protect their reputations. Clay Pipe is low in original cost; there's no price-premium on its outstanding quality. It can be installed quickly — and it lasts forever.

### NATIONAL CLAY PIPE MANUFACTURERS, INC.

1105 Huntington Bank Bldg., Columbus 15, Ohio  
705 Ninth and Hill Bldg., Los Angeles 15, Calif.  
100 N. LaSalle St., Rm. 2100, Chicago 2, Ill.  
206 Connally Bldg., Atlanta 3, Ga.



STANDARD-  
STRENGTH  
CLAY PIPE



CHANNEL  
CLAY PIPE



CLAY PIPE  
FITTINGS

*Vitrified*



C-200-52



## Good Plasterers Know ...

... that to do their work best they must have a finishing lime that's easy to work, smooth, and far spreading.



That's why the plasterer's hawk, above, carries Hawk Spread (or its twin brand: Ohio White Finish), wherever quality plaster is demanded.

You too may rely on Ohio Hydrate's brands of finishing lime, scientifically processed from hand picked, kiln burned rock, always of uniform good quality, 99 1/4% pure.

The OHIO HYDRATE & SUPPLY Co.  
WOODVILLE, OHIO



## "Recovering" or Saving Conditioned Air

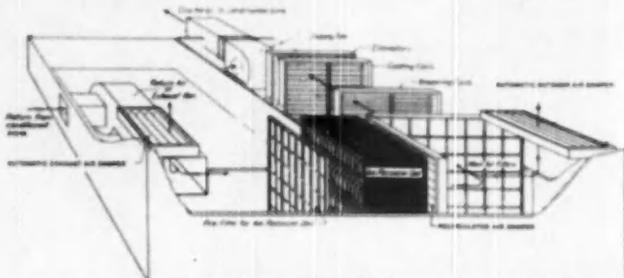
By J. E. Orr

W. E. Connor Engineering Corporation

**H**OW OFTEN have you entered an air conditioned place and been met by a blast of cool, yet dank, musty, smell-laden air, an odor characterized by air conditioning men as system "halitosis"? The reason is simply poor ventilation. Regardless of how carefully air has been heated or cooled,

humidified or dehumidified, its "quality" or freshness will suffer unless adequate ventilation is provided. The purchaser of an air conditioning system all too often either fails to realize the importance of this element or is unwilling to pay for it.

Good ventilation may be described



**FLOW** diagram showing relation of air recovery unit to typical air circulating system. In this application an air recovery unit has been installed to purify conditioned yet address air in order that it may be re-used thus saving the conditioning energy that has been expended upon it

*Now!* **INSULITE**  
INSULATING  
WOOL

MADE OF  
**FIBERGLAS**

in the New  
improved  
**ROLL BLANKET PACKAGE**

### AND THREE OTHER HANDY FORMS



POURING WOOL



BAT BLANKET



UTILITY BAT

- 25% longer roll, uniformly compressed.
- Fewer packages to handle on the job.
- Less fitting and cutting.
- Easier . . . faster to install.
- No bags or cartons to discard.
- Better vapor barrier of stronger tougher paper.



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AMERICAN BUILDER

## Save on Building TIME and COST



Easily installed in frame or masonry homes, VENTO Steel Casement Windows save time and money on the job.

VENTO Windows have the lifetime sturdy construction of heavy hot-rolled "Z" bars and provide double weathering contact to block wind and rain. They stand firm and swing true. Beautifully designed, smoothly operating roto hardware opens and extends window to permit cleaning from inside. Every VENTO Steel Casement Window comes prepared for the application of storm sash and screen.

Many Sizes and Shapes Available!

- Add beauty and distinction to any home by using VENTO Steel Casement Windows in attractive design variations

Send Coupon TODAY!

VENTO STEEL PRODUCTS CO., INC.  
247 Colorado Ave., Buffalo 15, N. Y.

Send me the data on Vento Steel Products.

Name \_\_\_\_\_

Address \_\_\_\_\_

My building supply dealer is \_\_\_\_\_

**VENTO** STEEL PRODUCTS  
CO., INC.

247 COLORADO AVE. BUFFALO 15, N. Y.

as the amount of fresh air required to keep an interior atmosphere reasonably fresh and pleasant. Although many people think that ventilation air is needed for oxygen its real purpose is odor dilution. Research has shown that air that inevitably infiltrates any above-ground structure, that is, seeps in through doors, windows and walls, contains more than enough oxygen even under the most crowded conditions.

If ventilation air is obtained from outdoors it must, naturally, displace the same volume of indoor air. When outdoor temperatures are moderate it makes no difference how often the air is changed. But during the cooling and heating season the displaced air carries with it the money that has been spent on it in the form of conditioning energy.

In many air conditioning installations the ventilation "load" may be as high as 40 to 60 per cent of the system's capacity. For example, in a system with a fan volume or capacity of 10,000 cubic feet of air per minute serving a space of 20,000 cubic feet size, the odor generation has been measured or estimated to be about three parts per million parts of air, or a small fraction of a cubic foot per minute. Yet 4,000 CFM of fresh air is required for dilution effect.

How expensive ventilation can become is apparent when it is realized that in the Temperate Zone 10 tons of installed refrigeration capacity (equivalent to the cooling effect of melting 10 tons of ice per day) and 320,000 B.T.U. of boiler and radiation capacity are required to cool and heat 4,000 cubic feet per minute of outdoor air. In terms of cost an all year conditioning plant to handle this air would require an investment of approximately \$3,000 and about \$500 per year to operate. Ventilation in such circumstances can be expensive!

But ventilation air does not have to be new outdoor air. As its purpose is to dilute odors its only requisite is that it be fresh or odor-free. This, plus the fact that odors comprise such an infinitesimal part of the atmosphere, has been the basis for the development of virtually a new branch of air conditioning, air "recovery" or reclaiming indoor air for recirculation and re-use by extracting the odors it contains. Air recovery units are essentially peacetime conversions of the gas mask. Air is drawn through activated carbon, which, by a process of selection, purges it of extraneous gases and vapors. The technical name for the process is adsorption. When airborne impurities strike the surfaces of activated carbon they condense and

(Continued on page 220)

# ROE

## STEEL TAPES

are best for

## BUILDERS...

the facts prove it!

FIRST AND FOREMOST, Roe Steel Tapes are extremely easy to read... and they go right on being clearly legible year after year. The black markings are permanently etched into the steel which is then nickelplated to provide a lustrous contrasting background. A transparent plastic overcoating is added for top-most wear resistance—and durability.



- A - Steel tape
- B - White nickel
- C - Black etched markings
- D - Plastic overcoat

Pictured here is the Roe Steel Tape #302 with polished chrome-plated, sturdy welded steel case. Other Roe models feature cases in handworn leather, and in metal-banded leather and leatherette. They have a reinforced rust resistant liner, precision winding drum, flush-folding handle, press button center and roller mouthpiece. All are available with 25, 50, 75 or 100-foot tapes; feet in inches and eighths, or in tenths and hundredths.

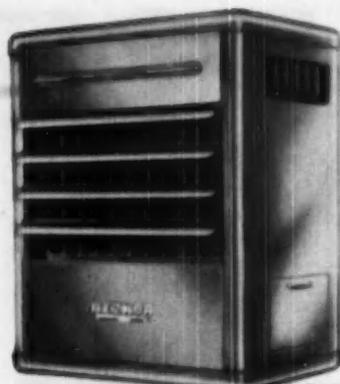
Get Roe Steel Tapes from your hardware dealer—or write us giving his name and address.



## JUSTUS ROE & SONS

Makers of five steel tapes since 1876

PATROUGE, NEW YORK



**ASK FOR PROOF THAT  
REZNOR GETS BUSINESS  
FOR YOU!**

• Shout "... more business" just once, and Reznor is on the job with its highly salable, profitable 1950 heaters and plenty of selling helps. Sold every day by thousands of dealers for stores, offices and industrial plants. Write now for full information on Reznor heaters—the world's best seller.

*Gas Unit Heaters Since 1888*

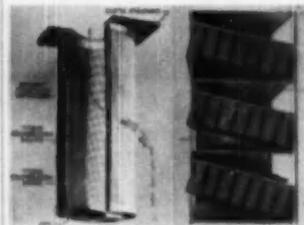
REZNOR MANUFACTURING CO.  
17 UNION ST. • MERCER, PENNA.

## Conditioned Air . . .

(Continued from page 219)

cling stubbornly. What gives activated carbon its adsorptive efficiency is its enormous surface area. The sub-microscopic pores or crevices in a cubic inch of activated carbon are so numerous that their total surface area has been estimated to be approximately equivalent to five acres.

Hence by simply relieving indoor air of its tiny burden of impurities, without otherwise changing it in the slightest, such air and its heating and cooling effect is conserved. As less new unconditioned air is needed the less will be the conditioning capacity required. In other words, instead of



TYPICAL convenser installation. Side of duct or casing has been removed to show a common method of installing air recovery convensers and direction of air flow

reaching outdoors for a constantly renewed supply of air, the same effect is obtained by converting indoor air back to its original state of freshness.

The savings that can be made by using "recovered" air in lieu of outside air are in direct ratio to the need for ventilation. Where occupancy and odor generation are low in comparison to the size of the space, as in a large store, there is nothing to be gained by air conservation. The new air necessary to offset infiltration will more than likely be sufficient to perform the extra duty of dilution. It is in the small, crowded places like small restaurants, bars, grills, nightclubs, etc., that this development is of the most value.

Savings in capacity of equipment can be made only, of course, when the recovery unit is made part of the original installation. Obviously once the system is in its size can't very well be reduced. However, it is often possible to expand the capacity of an existing system. For instance, where it is desired to heat or cool an additional room or area and capacity is lacking, the necessary heated or cooled air can often be obtained by purifying indoor air that would otherwise be exhausted to the outdoors. Again, where systems are in use, upkeep, that is, fuel, cur-

(Continued on page 222)

## 3 DOORS MADE IN U.S.A. to Greater Profits

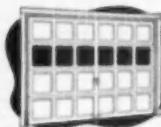
CAPITOL PRODUCTS now offers you 3 fine garage doors that enable you to reach every market—to help you sell profitably, confidently and competitively. These doors give:

- Complete Protection
- Harmonious Beauty
- Greater Economy
- Easier Installation
- Fingertip Operation
- Longer Life

**CAPITOL  
FLUSH  
PANEL**



Beauty and utility plus Taper Seal. Panels electronically bonded (not nailed) to frame—insures rigidity—prevents warping—stronger, lasts longer. Sizes: 8' x 7'; 8' x 7'6"; 8' x 8'; 9' x 7'; 9' x 8'; 10' x 7'; 10' x 8'; 10' x 9'; 9' x 7'. Thickness: 1 3/4".



**CAPITOL  
TAPER  
SEAL**

The door for your average customer. Beauty with long, trouble-free life at reasonable cost—means faster sales for you—greater profits. Sizes: 8' x 6'6"; 8' x 7'; 8' x 7'6"; 8' x 8'; 9' x 7'; 9' x 8'; 10' x 7'; 10' x 8'; 10' x 9'; and 10' x 10'.

**CAPITOL  
EASY  
LIFT**



An attractive, competitively priced door with great appeal. "Timber Tox" treated—termite and rot proofed. Balanced, feather touch operation—long life. Sizes 8' x 6'6" and 8' x 7'.

See your lumber dealer or  
Write us for prices!

**CAPITOL PRODUCTS**  
P.O. Box 1240 Springfield, Illinois

# What CUPRINOL DOES FOR LUMBER

## Means Better Results for You!

# CUPRINOL<sup>®</sup>

is the original naphthenate wood preservative of over 40 years successful use in many parts of the world for stopping wood rot and insect borers.

**NOW.** . . . after several years of tests with added ingredients Cuprinol provides water-repellency to directly benefit every user of wood for building construction.

### FOR PROTECTION AGAINST

1.  
WARPING, SWELLING  
AND  
SHRINKING OF  
SEASONED WOOD

2.  
GRAIN RAISING

3.  
ROT AND TERMITES

4.  
MILDEW

5.  
DISCOLORATION

CUPRINOL . . . is most practical for on-the-job application. It is harmless to the skin, and can be used like paint without rubber gloves, goggles or protective clothing. Applied by brush, spray or dip, it penetrates quickly and dries within a few hours.

1. Windows that stick, doors that warp—too often the builder is blamed for poor workmanship or inferior material when one coat of Cuprinol would have prevented complaints. With untreated mill work every window, door, frame and sash after fitting should be given a coat of Cuprinol on every side before painting. And, even with pre-treated mill work, when a surface is planed for fitting it can lose its original protection. Treat it with Cuprinol.

For example, an exterior door is exposed on one side to warm, dry room temperature, on the other side to out-of-doors dampness and rain. Cuprinol helps stabilize the moisture content of the wood to prevent warping, swelling and shrinking.

2. Cupboards and panels of plywood, even with two or three coats of paint, frequently show the grain, for the fibre and grain of the wood absorb liquids to different degrees. A coat of Cuprinol before painting will reduce this difference in absorption and prevent the unsightly raising of the grain.
3. Rot and termites are frequent causes for repairs and replacements of lumber today. In all such repairs the owner, who now appreciates the cost of rot or termites, will welcome your use of Cuprinol in treating the new lumber.
4. In many places mildew forms as a result of dampness and dead air. This is not so commonplace in home construction as in storage rooms, laundries, and edifices such as churches and meeting halls that are closed much of the time. Cuprinol treatment, either beneath or over paint, has been found most effective for preventing the formation and accumulation of mildew.
5. The combination of water-repellency and rot-proofing with Cuprinol reduces materially the weathering and discoloration of wood, as for example in ranch type houses where it is desired to have the wood show the grain and original color.

Cuprinol is sold by lumber dealers. See Sweet's File for Builders 2B/4, or write us for information on types of Cuprinol for specific uses.

**CUPRINOL Division, Darworth Incorporated**  
56 Maple Street  
Simsbury, Conn.

here's how

**PRESTILE**

builds profits

**CONSISTENT QUALITY**

baked in, long lasting beauty  
tougher, more durable  
finishes, non-chipping  
permanent high gloss.

**COMPLETE LINE**

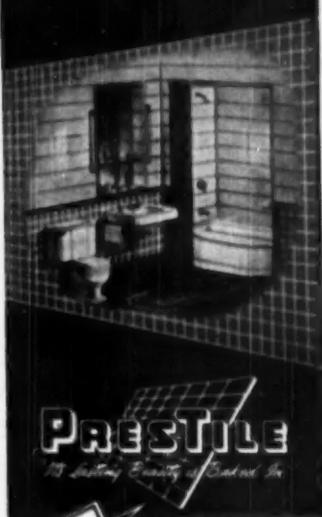
choice of 3 different patterns  
and 9 color combinations.

**MERCHANDISE HELPS**

free trade samples, complete  
ad mat service, dealer display  
boards, smart packaging.

**NATIONAL ADVERTISING**

seen by millions in such mag-  
azines as Better Homes &  
Gardens, House & Garden,  
American Home.



**PRESTILE**

*The Lasting Beauty of Baked-In*

Free

Clip this handy memo to your  
letterhead and mail today!

Prestile Mfg. Co., 5850 Ogden Ave., Chicago 50

Please send me free samples and Dealer's  
Merchandising Kit—"How to Make More  
Profits from Tileboard."

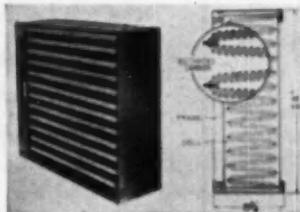
Your Name.....

**Conditioned Air . . .**

(Continued from page 220)

rent, water, etc., consumption, can often be reduced by substituting purified air for outdoor air.

Although relatively recent, this development is already well established. Several thousand installations are now in use. Recovery units are standard equipment in almost all of the new railroad passenger cars. Due to weight and space restrictions the condition-



**CUTAWAY** air recovery canister. This view shows how air passes through a uniformly thick bed of activated carbon. Each canister is rated at 25 cubic feet of air per minute.

ing equipment of each car can only handle a certain percentage of new outdoor air without losing control of temperature. By purifying the air that must be recirculated within the car air quality is improved almost

threefold, a welcome advance in passenger comfort.

The Fifth Avenue Brass Rail Restaurant in New York is as much concerned with its atmosphere as with food quality and service. With accommodations for 853 persons, each patron receives fresh, odor-free air at the rate of 20 cubic feet per minute. However, only 7,000 cubic feet per minute is brought in from the outdoors, the remaining 10,000 CFM is reclaimed indoor air. Excellent atmospheric conditions are maintained yet a considerable saving in cost and operation was made. The outdoor air supply could be cut still further were it not for the fact that a certain volume of new air is needed to dilute tobacco smoke haze. Activated carbon soaks up the irritant gases in tobacco smoke but the visible haze, being a solid, is not removed. As an alternative to outside air for this purpose dust filters with the efficiency of the electrostatic type could be used.

The Hotel Sherman in Chicago lacked the space in which to locate a conditioning plant for its new "Well of the Sea" seafood restaurant and the central system lacked the capacity to handle the additional load. However, by taking "used" air from other areas and putting it through air recovery cells the problem was readily solved.

**BUILDERS!**



**CONTRACTORS!**

**COMPLETE NEW HOME PLANS**

Have the advantage of perspective drawings and floor plans to show future homebuilders. Give your clients the opportunity to choose from these latest design plan books. Plans utilize builders newest cost cutting and latest construction methods. Complete working blueprints of 200 FHA approved homes are available.

Wide variety of contemporary and traditional designs styled for comfort, beauty and convenience. Includes starter homes, four- to ten-room home sizes—in ranch styles, modern design, Cape Cod and duplex plans.

Order 2 books for only \$2.00 (one book for frame and one for block masonry construction). Then when you order your first set of working blueprints—4 blueprints included in set—\$25.00 for frame construction, \$35.00 for block construction—your original \$2.00 investment will be credited to your order. Order books today—let these amazing plan books sell home contracts for you.

**HOME BUILDING PLAN SERVICE**

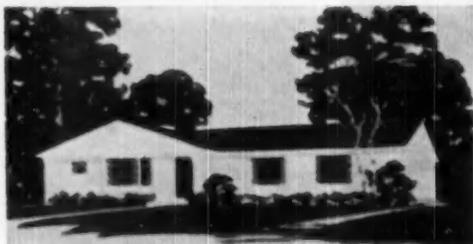
2454-Z NE Sandy Boulevard  
PORTLAND 12, OREGON

## 'Avenue of Homes' Is Chicago Fair Feature

ONE OF the main attractions at the Chicago Fair of 1950, which opened June 25 is the "Avenue of Homes" exhibit, featuring eight homes sponsored by builders, trade groups and shelter magazines.

The official theme of Chicago's latest major exposition is the dramatization of the nation's achievements in science, industry, commerce and agriculture. According to Crosby Kelly, executive manager of the Fair, the American home can be singled out, much as any other feature, of what the people of the United States have accomplished.

The eight exhibit homes are classified in four architectural categories—Cape Cod, Colonial, Ranch-type and Modern. Three are of frame construction and other ma-



ONE of eight homes in Chicago Fair exhibit is the "Hometown Ranch House" frame duplex sponsored by the J. E. Merrion Co.

terials include brick, concrete, stone and gypsum products. Floor area is from 800 to 2,000 square feet. All are completely furnished and decorated. All sites are completely landscaped.

The two homes classified as "futuristic" are partially constructed of materials and furnished with appliances not now in mass production but proved practicable in research laboratories.

The sponsors are: the J. E. Merrion Co., Chicago builders; Portland Cement Association, Mason Contractors Association of Cook County and the Structural Clay Products Institute, Better Homes and Gardens magazine, Living magazine, Parents' magazine, Popular Home magazine and the Chicago Plastering Institute.

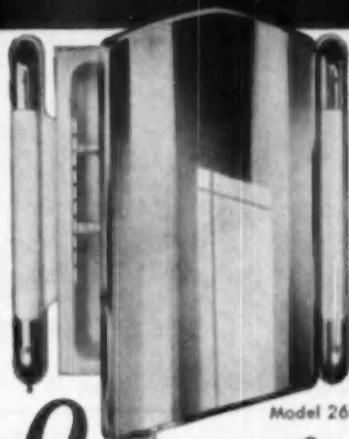
In charge of the exhibit is Grover McDonald, Dixon, Ill. A veteran home show developer, he has directed 150 similar projects in various parts of the country. Assisting him is Joseph Sheehan of Philadelphia.

### New NRLDA Public Relations Pamphlets

A series of three new public relations pamphlets have been prepared by the National Retail Lumber Dealers Association for distribution by members to the public. The titles are: "Taxes Can Come Down," which states that taxes constitute one-third of the cost of a new home; "No Charge for the Extras," an account of the services rendered the public by retail lumber dealers; and "The Truth about Housing," which tells of the accomplishments of the private builder and answers charges made against the industry. There is a small charge for the pamphlets which are distributed by the National Building Material Dealers Service Corp., 302 Ring Building, Washington 6, D. C.

AUGUST, 1950

## A Beautiful, LOW-COST FLUORESCENT LIGHTED CABINET...



Model 2654-80

by **Lawson**  
with OUTSTANDING  
QUALITY FEATURES!

- ★ One-Piece Drawn Steel Body
- ★ Bonderized after Forming

- Baked White Enamel Finish
- First Quality Plate Glass Mirror
- Full Length Piano Type Hinge
- Snap-in (no screws) Electrical Inspection Plate
- Stainless Steel Mirror Frame
- Convenience Outlet for Electric Razor, etc.
- Bar-Type Door Stop
- Razor Blade Disposal Slot
- Underwriters' Laboratories Inspection Label

Write for Catalog on Lawson Bathroom Cabinets, Lavatory Mirrors and Chrome Accessories . . .

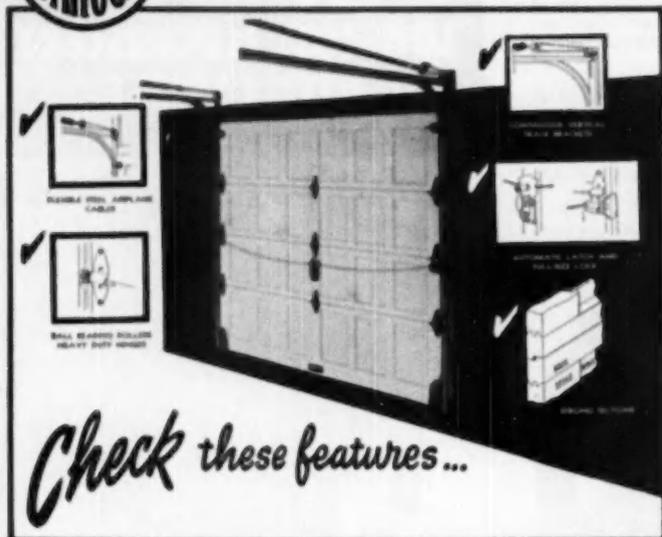
**THE F. H. LAWSON CO.**  
801 EVANS ST., CINCINNATI 4, OHIO

**WORLD'S LARGEST BUILDERS  
OF BATHROOM CABINETS**





◆ LOOK FOR THIS MARK OF QUALITY



Check these features...

### of the **BARCOL OVERdoor**

We have spoken of the Barcol OVERdoor as "the choice of buyers who investigate," because it is "an improved overhead door" that thrives on comparison. The use of the Barcol OVERdoor is not limited to residence garages — its extra quality, strength, durability, and minimum maintenance make it ideal for commercial and service garages, institutional and municipal buildings, industrial plants, and for a number of interior as well as exterior applications. Your Barcol representative is well-equipped, by experience and factory training, to give you full information and sound recommendations on any use you may contemplate.

### Two Useful Versions... Model 31 and Model 50

Without going into mechanical detail, we can classify these two general types as Model 31 for light duty and Model 50 for heavy duty. In addition, you have a wide range of sizes both stock and special, numerous accessories and special arrangements for added convenience or protection, and regular or special design to suit your taste in appearance. Consult your Barcol representative and let him give you the full story. (Look in the Yellow Pages of your telephone directory for his name.)

SALES AND SERVICE REPRESENTATIVES IN PRINCIPAL CITIES

**BARBER-COLMAN COMPANY**  
104 MILL STREET • ROCKFORD, ILLINOIS

*The Only Manufacturer of All Three...*

GARAGE DOORS

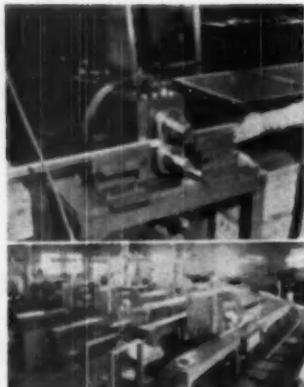
ELECTRIC OPERATORS

RADIO CONTROL

### Produce Combination Windows By Belt Line Methods

Increasing use of combination storm and screen windows has resulted in the adoption of modern production line methods by a number of manufacturers.

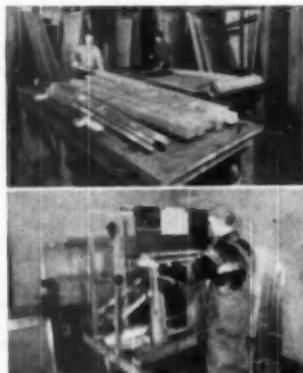
The Alumatic Corporation of America, manufacturer of aluminum combination windows, typifies the in-



BEFORE extrusions are fabricated into doors and windows (top) they are run through rolling machines which shape them to exact tolerances. Below: Batteries of 5 HP saws with 16-inch blades cut and miter the long extrusions into sections needed size

dusty's progress in the methods used in their Milwaukee plant. Alumatic also operates a branch factory at Windsor, Ont.

Alumatic windows are custom-fitted and installed to the size needs of the



SPRING weatherstripping units are inserted in window frame sections (above). Storm and screen doors (below) are squared before assembly by use of jig arrangement

(Continued on page 225)

AMERICAN BUILDER

particular home. Another aluminum combination window manufactured by the firm is the "Alaram." Other products fabricated by the firm are



IN CONTRAST to the windows which are shipped "knocked down," combination doors are shipped set up in the large boxes shown above. Below: At dealer's shop combination windows are assembled from proper sizes. Only simple tools are needed for these operations, including the making of screen panels

aluminum combination doors, aluminum screen door and house screens.

The accompanying photographs illustrate some of the advanced techniques of the Alumatic Milwaukee facilities now being employed by the industry.

### New Aluminum Siding Marketed by Alseco

The marketing of a new aluminum siding on a national scale by Alseco, Inc., makers of Alseco aluminum convertible storm windows and doors, has been announced by the firm's president, Harry Sugar. Ben Sugar, vice president of Alseco, heads the siding division, and is now appointing dealers and distributors throughout the country.

Most important improvement in the new product, the manufacturers said, is its exclusive Weather-Lock. Alseco is an 8-inch weather-lock lapped siding. Other features are a self-sealing all-aluminum corner and "hidden clip" aluminum nailing. In installation, metal clips are used to hold each panel in place, the clips then being nailed to wall sheathing. The nails and clip are then covered by the next panel.

Painting and enameling of the sid-  
(Continued on page 226)



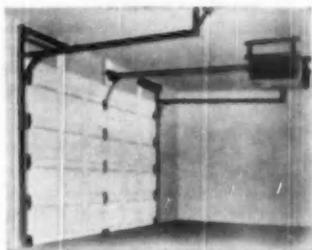
LOOK FOR THIS MARK OF QUALITY



## Touch a Button...to Open the Door

The magic of radio brings you this modern convenience! With **BARBER-COLMAN RADIO CONTROL**, you can open or close your garage doors by simply touching a button in your car. The car can be moving, or standing still, anywhere (and in any position) within approximately 75 feet of the garage. The equipment operates on

FCC-assigned frequencies, hence can use maximum power in the transmitter and a minimum of tubes in the receiver. Barber-Colman, a pioneer in the radio control field, is a reliable source for practical equipment, with over 20 years of experience in this specialized field. Ask your Barcol representative for a working demonstration of the amazing Radio Control.



### ELECTRIC DOOR OPERATORS

Soundly engineered and ruggedly built for dependable and durable performance—Barcol Electric Door Operators are made in a variety of models for swinging, sliding, overhead, and steel rolling doors, and for sliding gates. They can be actuated by any of various switches, by electric eye, or by Radio Control. Get a demonstration!

SALES AND SERVICE REPRESENTATIVES IN PRINCIPAL CITIES

**BARBER-COLMAN COMPANY**

104 MILL STREET • ROCKFORD, ILLINOIS

*The Only Manufacturer of All Three...*

GARAGE DOORS

ELECTRIC OPERATORS

RADIO CONTROL

**Choose**  
the exact instrument  
you need from these three  
**LOW PRICE MODELS**



**1**  
Finest 12" Dumpy Level available anywhere—  
gives you more features you want, more accu-  
racy, more durability at less money than any  
other instrument. It has dust and dirt-free in-  
ternal focusing and has coated optics for clearer  
distortion-free, sharper images.



**2**  
Here's the standard convertible level for the  
country for the past 30 years! No other in-  
strument has the recognition and acceptance as  
given to the David White Carnegie Improved  
Convertible level. Now it's available to you  
with complete dust and dirt-free internal focus-  
ing and coated optics for clearer, sharper,  
distortion-free images.



**3**  
The David White "Universal" level-transit is  
the most practical and complete builder's in-  
strument on the market. Now available in a  
new improved model — complete with internal  
focusing, coated optics — guarded vertical arc  
— in fact every possible feature to assure you  
lifetime durability and extreme accuracy.

Choose the exact instrument you need from  
these three. Compare their outstanding fea-  
tures, their precise, yet rugged construction,  
their accuracy and their price with all others.  
Then you'll see why we say you'll buy "right"  
when you buy a David White. For complete  
information on any one or all three of these  
instruments, consult our nearest dealer — or  
write direct to David White Co., 511 West  
Court Street, Milwaukee 3, Wisconsin.



We offer com-  
plete, prompt re-  
pair service on  
all makes of in-  
struments —  
levels, transit,  
theodolites, etc.

**Aluminum Siding . . .**

(Continued from page 225)

ing are done by the "Ankorweld" process. The panels are painted before being formed, with each panel receiving a rigid test for performance of finish.

The Ankorweld process includes an exclusive method of pre-treating aluminum to provide millions of tiny anchors for holding the special enamel paint. Also panels are treated on both sides with this process after which the specially developed enamel is applied, and baked thoroughly in temperature-controlled ovens. The paint will not chip, crack, peel or fade, according to the manufacturers, and the Ankorweld "bath" also prevents pitting and oxidation. Cleaning can be done with an ordinary garden hose.

The panels are formed to provide maximum rigidity and require backer strips only at the joints, windows, and doors. They can be installed quickly over clapboard, stucco, brick, shingles or other sidings.

The marketing of the new Alsc siding is being accompanied by a heavy newspaper advertising campaign. A complete merchandising and advertising package is available which includes dealer mats, door hangers, four-color brochures and a four-color presentation book for Alsc dealer salesmen. Theme of the book, ads and printed material is "The Freedom House—lifetime freedom from Repairs, Paint, Drafts, Cold, Heat, Fire, Termites!"

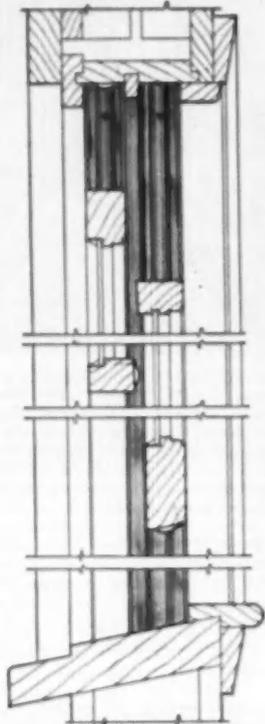
**Porcelain Enamel Cabinets  
Gain in Bath, Laundry Use**

Although primarily designed for kitchens, the use of porcelain enamel-topped utility cabinets to provide storage and table-top working space in bathrooms and laundries is on the increase.

Qualities of this type of cabinet which make it adaptable for these additional uses are cleanability, resistance to heat, shock, abrasion, and corrosion, and ability to take continuous hard service.

Porcelain enamel was found to be unaffected by a number of rigid tests, recently conducted by an impartial commercial laboratory. These included use as cutting boards for slicing bread; exposure to regular household iron, at normal pressing temperature, which was placed on porcelain enamel for periods of 2½ minutes, and dragged back and forth across the material's surface; and the dropping of a standard can opener point-first against the material nine times.

**NETTINGER'S  
TropiSeal**  
PATENT 2,500,124  
**COMBINATION  
CASH BALANCES AND  
BRONZE METAL WEATHERSTRIPPING  
IN ONE UNIT**



**COMPLETE CARTON PACKAGED**

- 1st. Low cost of \$3.50 per window, any size
- 2nd. Easy to apply
- 3rd. Velvet smooth in operation
- 4th. Absolutely weatherproof
- 5th. Sales helps and displays
- 6th. Nationally advertised
- 7th. Wide consumer acceptance
- 8th. Shipments at once
- 9th. See your lumber dealer today

**THE WEATHERPROOF PRODUCTS CORP.**  
329 Westport Road Jefferson 3133  
Kansas-City 2, Missouri

SEE OUR CATALOG IN SWEET'S BUILDER FILE 3e/3b

**Prefabricated Showers  
Add Selling Appeal, Cut  
Installation Costs**

It is a recognized fact that shower baths have a tremendous attraction for home buyers.

Long preferred by men over other methods of bathing, they are now becoming preferred by women as well. To operative builders, important features of prefabricated shower cabinets are those that provide great utility and value while saving construction dollars.

Prefabricated cabinets have floors that are precast as separate, independent units. Walls are joined to these cement floors by means of a leakproof bond, and the walls themselves have leakproof corner joints. The result is a cabinet that can withstand the strain of shifting or settling without any ill effects. Builders confronted with small or odd-shaped rooms will find that metal cabinets offer a complete range of types and sizes from which to choose. There are three basic classifications: 1—The built-in cabinets 2—the corner model, and 3—the free-standing, square cabinet.

The built-in type cabinet, as now produced, is designed so that it can be recessed into the wall and plastered clear up to the door frame. This is an advantage where bathrooms must necessarily be small, since it provides luxury and utility without detracting from available floor space. The cabinet itself can extend into a neighbor-



CORNER shower stalls occupy minimum floor area in the bathroom. This model is made by Fiat Metal Manufacturing Co.

ing utility room, closet, or any large room that shares a wall with the bathroom.

Corner type cabinets, constructed either of metal alone, or a combination of metal and glass, have an entirely different application. They are especially useful where showers cannot be recessed into the wall and

(Continued on page 228)



**"I SAVE on every job  
with a portable  
KOHLER  
ELECTRIC PLANT"**

This compact, low-cost, portable Kohler Electric Plant saves trouble and expense of arranging power hook-ups. Helps finish jobs faster at lower cost. Operates electric drills, saws, pipe threaders, cutters—tools having universal (AC-DC) motors. Weighs only 75 lbs. Has a rating of 1500 watts maximum for intermittent duty. Convenient carrying handle. Powered by quick-starting, 4-cycle, air-cooled Kohler engine. Complete with 1/2 gallon fuel tank. Quickly pays for itself. Many other sizes available. Write now for folder K-13. Kohler Co., Kohler, Wisconsin. Established 1873.

Model 1 200, 1,100 watts, 115 volt DC. Manual control. Length 14", width 14", height 27".

**KOHLER OF KOHLER**  
PLUMBING FIXTURES - HEATING EQUIPMENT - ELECTRIC PLANTS - AIR-COOLED ENGINES



Wherever BETTER HOMES are built you'll find MONARCH IN-A-SLIDE BASEMENT WINDOWS...

**1 First Choice** the country over are Monarch All-Steel In-A-Slides for apartment buildings, row houses, individual housing projects and small commercial buildings.

**2** Alert dealers everywhere are realizing extra profits from these utility-type windows, designed for better and more economical basement daylighting. Can be built up, on the job, from Monarch Mullions and standard size In-A-Slides, in units of from 2 to 6 windows. Inventories are thus kept down, since there is no need for carrying large stocks of various types of windows.



Write Dept. 8 Today: **SOLD THROUGH DEALERS ONLY** Utility Type Window Units

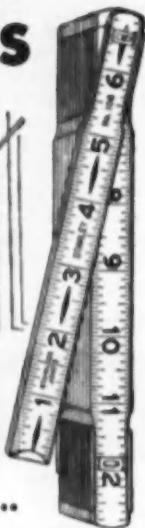


When you think of Basement Windows think of **NEW MONARCH MACHINE & STAMPING COMPANY**

# NOW

Easier reading,  
longer wearing

## STANLEY "Green End" RULES



with  
Five Star  
Features...

- ★ **Easier Reading**—Large jet-black Gothic numerals and graduations—plastic coated for permanency.
- ★ **Longer Wearing**—Solid nickel silver joints and strike plates—rustproof, stainless—assure smooth action.
- ★ **More Accurate**—Concealed joints with "ball socket" action—prevent stretching—hold rule rigid.
- ★ **NEW Protective Finish**—Extra-tough, water-resistant plastic coating on all slides—4 times longer wearing.
- ★ **Selected Sticks**—Straight grain solid Rock Maple—tough and flexible.

By any rule the best buy is Stanley. Your local dealer carries Stanley Zig-Zag Rules in a wide range of sizes, markings and finishes.

STANLEY TOOLS • NEW BRITAIN, CONN.  
THE TOOL BOX OF THE WORLD

# STANLEY

Reg. U.S. Pat. Off.

HARDWARE • TOOLS • ELECTRIC TOOLS  
STEEL STRAPPING • STEEL

### Confer on Specifications For Aluminum Nails

Data required in fixing specifications for non-corrosive aluminum nails that may be flown in government planes for use in installations in Alaska and other points were submitted at a recent conference of government officials and representatives of the aluminum industry at the Nichols Wire and Aluminum Co. plant in Davenport, Iowa.

Attending the conference were O. M. Mader, Pittsburgh, research engineer for the Aluminum Company of America; Charles Walte, manager of the Farm Development Division, Reynolds Metal Co., Louisville, Ky.; and John A. Scholten, research engineer for Forest Products Laboratory, Madison, Wis. Forest Products Laboratory is operated by the U.S. Department of Agriculture.

Also taking part in the conference were Frank R. Nichols, president, and Frank Leahey, executive vice president, of Nichols Wire and Aluminum Co.

Data presented will be assembled and classified, after which it will be submitted to aluminum producers and other manufacturers of aluminum nails for their approval. Final certifi-

cation of the specifications will be made by the Specifications Board in Washington.

### Prefabricated Showers

(Continued from page 227)

where there is not sufficient depth in the bathroom to accommodate a square type shower. Back walls of corner type models fit snugly into a corner while the door frame and the side walls occupy a minimum of room floor space.

Square type shower cabinets can be used almost anywhere, as long as there is adequate provision for concealing the necessary water pipes and connections.

To supplement the air of luxury supplied by shower cabinets even more, builders are offered a choice of attractive shower doors. Framed in aluminum or chromium-plated steel, glass doors provide safety and convenience.

But the real value of shower cabinets as part of the complete home package is an intangible one. It is the force that impels prospects to buy—an extra value that makes one home worth more than another.

Photographs and data courtesy of Flat Metal Manufacturing Co.

## Ask for a "BESSLER" when buying a DISAPPEARING STAIRWAY



With a Bessler Disappearing Stairway it is possible to finish off the space above for use as either storage or added sleeping quarters.

Constructed of the finest materials, it is easily and quickly installed in old or new homes. Saves floor space in the room below and is easily operated.

Made in  
Seven  
Models

Write for literature

THE BESSLER DISAPPEARING STAIRWAY CO.  
1900 E. Market St. Akron 5, Ohio

## Association News,

(Continued from page 69)

stitutes and divisions of NAREB will also have displays depicting the activities of the member real estate boards.

A village of model homes, both prefabricated and built at the site, will be erected adjacent to the Splyorama and the auditorium. The entire exhibition area will be fenced in, and the grounds typically landscaped.

Gunnison Homes, a subsidiary of the United States Steel Corp., has already contracted with NAREB for sites for two of its prefabricated homes on the grounds. Other members of the Prefabricated Homes Manufacturers' Institute are negotiating for sites.

Another feature in the village will be the Futurama Home, incorporating the newest products and features, including built-in television. The model homes are expected to be of particular interest to Realtors, as it is estimated that 20 per cent of the membership of NAREB are builders, constructing about 200,000 homes annually in the present market, Waltemade said.

The exposition will be a closed show for NAREB delegates and invited guests for the first four days of the convention, Nov. 12 through 15, and will be open to the public for the last four days, Nov. 16 through 19, under the auspices of the Miami Beach Real Estate Board.

National Realtors Exhibits, Inc., has been organized to manage the convention exposition, following action of the board of directors of NAREB at their semi-annual meeting May 12 in Chicago.

Other members of the convention and exposition committee, in addition to Waltemade, are F. Poche Waguespack, New Orleans, vice president; George F. Nixon, Chicago, vice chairman; David D. Bohannon, San Mateo, Calif., vice chairman; Earl S. Anderson, Los Angeles; Fritz B. Burns, Los Angeles; William J. Campbell, Kansas City, Mo.; Damian P. Ducey, Pueblo, Colo.; Matthew G. Ely, New York; Jack Justice, Miami Beach; Frank MacBride, Jr., Sacramento, Calif.; Donald T. Pomeroy, Syracuse, N. Y.; John J. Roache, Milwaukee; Herbert U. Nelson, Chicago; and Lowell Baker, Chicago.

### 800 Attend Detroit Picnic

Approximately 800 persons attended the annual picnic of the Builders Association of Metropolitan Detroit at the Forest Lake Country Club June 28. Bill Clark was entertainment committee chairman.

AUGUST, 1950

# "THE MASTER" JUST WHAT THE NAME IMPLIES

Not a Toy—Saw Rig or a Cut Off-Saw, but a complete mill that you can take right on the job and do all of your rough and finish cuts with one machine.

OVERHEAD RADIAL SAW  
UNDERSLUNG RIP SAW  
3-Knife Jointer

Operated with only 1  
Power unit, either electric  
motor or gasoline  
engine drive.

|              |           |
|--------------|-----------|
| JOINTING     | RIPPING   |
| CROSSCUTTING | MITERING  |
| DADOING      | TENONING  |
| BORING       | MOULDING  |
| SANDING      | MORTISING |

and many other cuts. There is no cut  
TOO difficult for the Master.

SEE THE MASTER in operation in  
your locality or get Full Information  
from your dealer TO-DAY.

ACCURATE—DEPENDABLE and the most powerful machine on the market.  
SELF-ALIGNING—requires no adjustment for wear or accuracy. Compare  
MASTERS construction—Simplicity and easy operation. Built in 5 sizes up to  
6" cutting capacity.

**MASTER WOODWORKER MANUFACTURING COMPANY**

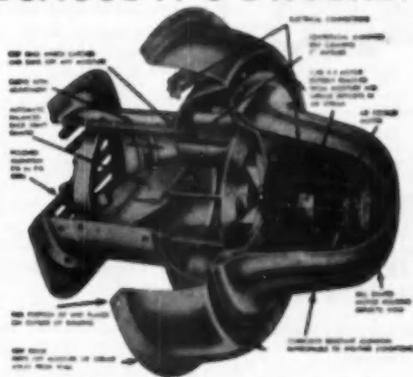
Brush and Fort St.

Detroit 26A, Michigan

Originators and Manufacturers of Universal Woodworkers Since 1917



## HOME BUYERS LIKE THE KITCHEN-AIRE EXHAUST FAN BECAUSE IT'S DIFFERENT



Different, because it is **FIRE-SAFE**, grease laden air is **NOT** drawn over motor.  
Different, because intake grill may be mounted above cooking range even on inside wall.  
Different, because ordinary 6" stove pipe will serve for making connection between intake grill and exhaust fan.  
Different, because it is **QUIET**, operating mechanism is mounted **OUTSIDE** the wall.  
Different, because it is **WEATHERPROOF**, built draft damper protects against heat loss, operating mechanism is housed in corrosion-free aluminum.

Yes, the Kitchen-Aire is different. Electrically operated, easily installed, the Kitchen-Aire adds that plus-value which makes new homes salable. It is the last word in kitchen ventilation, a feature your buyers will like. Underwriters Approved. Advertised in Better Homes and Gardens.

**STEWART MANUFACTURING CO.**

3204 E. Washington Street,

Indianapolis, Indiana

239

## HOW TO MAKE ACCURATE ESTIMATES



# NEW

REVISED

### TAMBLYN BUILDING LABOR CALCULATOR

You, too, can make accurate estimates. Forty years of on the job cost analysis has produced the factors given in the Tamblin Building Labor Calculator. Use these factors and make your estimate right!

#### HOW TO USE THE TAMBLYN BUILDING LABOR CALCULATOR ... simple multiplication of figures

To figure the cost of laying 8" x 8" x 16" cinder block analyze the cost of 100 square feet as follows: (Wage rates and material prices assumed.)

| Item                                | Quantity | Unit Price | Total Cost     |
|-------------------------------------|----------|------------|----------------|
| 111 Pcs. 8" x 8" x 16" cinder block | 24c      |            | \$26.64        |
| 4.4 C. F. Mortar                    | 45c      |            | 1.98           |
| <b>Total Material Cost</b>          |          |            | <b>\$28.62</b> |
| 4.0 Hrs. Mason                      | \$3.00   |            | \$12.00        |
| 4.0 Hrs. Tender                     | \$1.75   |            | 7.00           |
| 4 Hrs. Foreman                      | 3.50     |            | 1.40           |
| <b>Total Labor Cost</b>             |          |            | <b>\$20.40</b> |

Or \$8.6c per square foot for material—and \$0.4c per square foot for labor. Figuring for all the trades is as easy as this example—and accurate!

#### WHAT CONTRACTORS SAY ABOUT THE TAMBLYN SYSTEM

"I think it is the best system I have seen."  
 "...just the thing I wanted..."  
 "...I want to congratulate you upon an excellent piece of work."

**THE TAMBLYN SYSTEM**  
 1115 So. Pearl St., A-44, Denver, Colo.

Rush the Tamblin Building Labor Calculator on free 10-day trial. At the end of 10 days I will return it to you if you are not satisfied.

**FREE EXAMINATION**

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

#### 'Abridged Building Code' Accepted in Printed Form At BOCA Convention

Acceptance of the first printed copy of the "Abridged Building Code" highlighted the 35th annual convention of the Building Officials Conference of America, Inc. in Indianapolis June 5-8. The new standardized "performance" code for municipalities was approved by the conference in December, 1949, after more than five years of study by building commissioners from all parts of the United States. It has already been approved by the National Association of Home Builders and the Producers' Council.



CHARLES E. BACON, left, Indianapolis building commissioner, chats with Mayor Al Feeney at recent BOCA convention in Indiana capital. Bacon was convention chairman and is on BOCA executive committee.

Data for the code was compiled, correlated and prepared for publication by George E. Strehan, New York consulting engineer. It was presented at the convention by Joseph P. Wolff, of the Detroit building commission, first vice president of BOCA and board chairman of the Building Officials Foundation, financial sponsors of the code.

This code together with a Basic Building Code due for publication next month emphasizes "performance" of materials instead of specifying certain materials for certain uses. This type of code has been advocated by the Federal Government since the first World War.

In pointing out that the new code paves the way for introduction of many new materials by virtue of their performance alone, Albert H. Baum, BOCA president, commented: "Heretofore, manufacturers, producers and

(Continued on page 231)

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UNION ALUMINUM COMPANY, Inc.  
 SHEFFIELD, ALABAMA

## Been Convention . . .

(Continued from page 230)

contractors have had varied experience in securing acceptance of their products from city officials under one code or another.

"Products and new application methods have failed often to receive



CODE committee leaders discuss presentation plans for "Abridged Building Code." They are (from left): BOCA president Baum; George E. Strehan, New York consulting engineer, coordinator of the Basic Building Code; and BOCA Past President Walker S. Lee, member of the New York State Building Code Commission

acceptance, not because of inherent shortcomings, but because of vary-

ing interpretations where the local code was not clear."

The code is designed for cities below 30,000 population. Because of standardization and adaptability to all sections of the country, these cities can adopt it without incurring the added expense of making their own regulations, Baum added.

Strehan pointed out there are more than 2500 conflicting specification codes now enforced throughout the country, 80 per cent of which are 10 years or more old.

"They are replete with antiquated provisions, often kept alive by local prejudice or fostered by selfish pressure groups," he said.

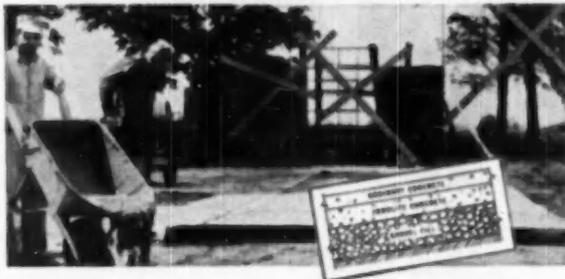
"They service communities from 5000 inhabitants to municipalities of more than 8 million. To aggravate the confusion for manufacturer, builder, designer and the public there are more than 15,000 political subdivisions, large and small communities, clamoring for new building codes or appointing commissions to attempt the task.

"At least 14,000 of these political subdivisions of from 100 to 5000 population have no code at all.

"The cost of technical expert services, elaborate legal procedures involved, plus the expense of public (Continued on page 232)

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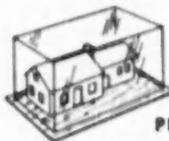
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## Been Convention . . .

(Continued from page 231)

hearings, repetitive printing of original and amended drafts involved in the formulation of a building code entails a prohibitive investment for most communities.

"Thus the control of building construction is either haphazard, discriminatory or harmful to the public welfare and the efficient development of a community. But the need for a code is evident and imperative."

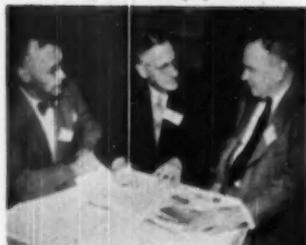
The basic concepts stressed in the code as explained by Strehan include:

1. A comprehensive classification of use groups of buildings based on the inherent fire hazard peculiar to each.
2. A classification of types of construction covering both traditional and new developments.
3. A plan for controlled and ordinary materials procedures which intimately concerns the professional engineer.
4. A code based on functional performance standards providing an open door for all methods of construction.
5. New measuring sticks for fire resistance of materials and methods of construction.
6. Height and area limitations to secure a uniform degree of fire safety

for all "use groups" and all "types of construction."

7. Minimum safe live load requirements consistent with functional requirements.

8. A comprehensive treatment of all building service equipment neces-



JOSEPH P. WOLFF, right, Detroit building commissioner and chairman of board of governors of Building Officials Foundation, presents first printed copy of "Abridged Building Code" to Albert H. Baum, BOCA head and St. Louis building commissioner

sary for safe and livable housing conditions.

9. A plan for co-ordination of inspection and control which will eliminate overlapping jurisdictions both locally and nationally.

Provision for a "building code fund" for the exclusive purpose of building code enforcement can be

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accrued by BOCA through sale of the two codes. The ABC is being sold through Strehan's office, 51 E. 42nd St., New York City 17, N.Y. The cost is \$3 for the paper-back edition and \$4 for the cloth-bound. Prices for the Basic Building Code, when it becomes available, will be \$5 and \$6.50. Prices will be reduced for purchases in lots over 100.

At the conference, plans were also developed for a central clearing house to analyze and interpret test data and to make recommendations for use of this data in approved techniques; for compilation and standardization of all technical research information, test procedures and developments in the industry; and for uniform approvals and unified administration of building laws in the nation.

The framework of the BOCA-BOF plan was explained as a comprehensive system of checks and balances with all components of the industry represented. Although committee members for the various divisions in the plan have not yet been named, it is planned to select members from outstanding technicians, engineers and building officials throughout the country before BOCA convenes for its 36th annual meeting in Toronto, Canada, next spring.

First committee to be named will probably be the important code changes committee. Recommendations for seven sub-committees, including duties and functions; and a committee general of eight members to serve staggered three year terms were made to BOCA by procedure committee chairman Eugene N. Smith, director of service in Wichita, Kans., and his seven-man advisory board at the last day of the conference.

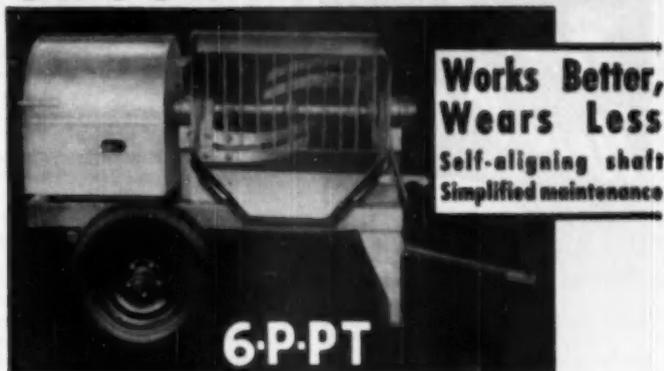
This board urged a code changes body composed of building officials, two having structural engineering background and at least two others having had previous experience as architects.

All requests for changes or amendments to the provisions of the building codes will be analyzed and studied by the code changes committee of BOCA in consultation with the special sub-committees. It was recommended that these committees seek information from professional society representatives of trade associations and material manufacturers through the BOF advisory committee.

All suggested changes, including those initiated in the sub-committees, will be briefed and reported in the monthly magazine, "Building Stand-

(Continued on page 234)

## GILSON Mortar and Plaster Mixer



**Works Better,  
Wears Less**  
Self-aligning shaft  
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the shaft or bearings . . . no need to have your Gilson torn down in a repair shop. Grates have narrow openings to safeguard hands—a safety feature that you want to protect your men and yourself. Model 6-P-PT is one of 39 mixers now serving contractors coast to coast. Write for the 6-P-PT bulletin and the name of your Gilson distributor.

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SHEFFIELD, ALABAMA

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### BOCA Convention . . .

(Continued from page 233)

ards Monthly." It was also recommended that, after publication in the magazine, action of the committee on such changes finally be presented for determination in open convention at the annual BOCA meeting.

Revisions will be classified as "desirable"—minor corrections which do not affect the provision of the code; and "factual"—all other types of changes.

The procedures committee urged that "factual" changes be reported on by the code changes committee sixty days prior to the annual convention and that the reports be published at least 30 days prior to the annual convention. It was also suggested a schedule of fees be made for "partially defraying the expense of making the necessary tests, investigations involved in the changes."

Also recommended by the procedures group was a full-time secretary to function as clearing chief of the code changes committee.

Following adjournment of the conference, the Joint Committee for Unification of Building Codes, representing 11 building code writing and enforcing agencies, held their sixth meeting since February, 1947, in an

effort to consider suggestions made about the various codes in relation to occupancy of buildings, fire resistance values, floor loads, classification of buildings and fire resistance in buildings.

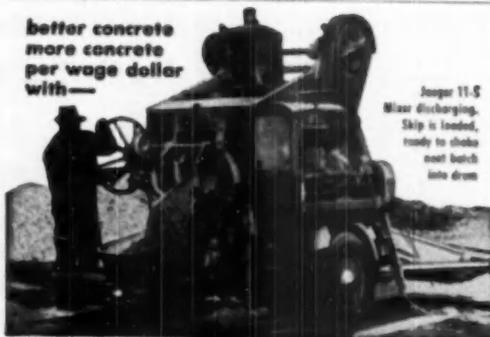
The codes studied were the uniform code of the Pacific Coast Building Officials Conference, the code of the National Board of Fire Underwriters, the code of the Southern Building Codes Congress, the basic code of BOCA and the various standards of the American Standards Association and the National Fire Protection Association.

Attending were representatives from these groups as well as from BOF, the Housing and Home Finance Agency, National Bureau of Standards, Underwriters Laboratories and the construction division of the U.S. Department of Commerce.

### Plan Color Scheme Change

The intention of changing the color scheme of their kitchen cabinets was expressed by more than half of the housewives questioned in a recent Ponderosa Pine Woodwork survey. Of this number, 39.7 per cent said they would change in less than five years and 53.3 per cent set the time at between five and 10 years.

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more concrete  
per wage dollar  
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3 1/2 with Power-Shaker  
Hopper  
You load it while a batch  
mixes—delivers 12 to 15  
more yards daily.

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PUMPS • COMPRESSORS • HOISTS • TOWERS

### Glass Slab Edge Insulation Used in Levitt Development

One of the construction features of Levitt and Sons homes in Long Island, N.Y., is the use of sections of glass insulation around concrete perimeters to block heat loss through floor slab edges. The material used is Fiberglas Slab Edge Insulation, manufactured by the Owens-Corning Fiberglas Corp., Toledo, Ohio.

William J. Levitt, president of the organization, which is currently



**FIBERGLAS** Slab Edge Insulation being placed around perimeter of Levitt house. 12x48-inch boards are installed vertically

building approximately 4,000 houses a year, said the glass insulation was also chosen for its resiliency, which permits it to expand as an expansion joint between slabs and foundation walls. Other advantages he cited were non-absorption of water and resistance to damage from rot, vermin and termites.



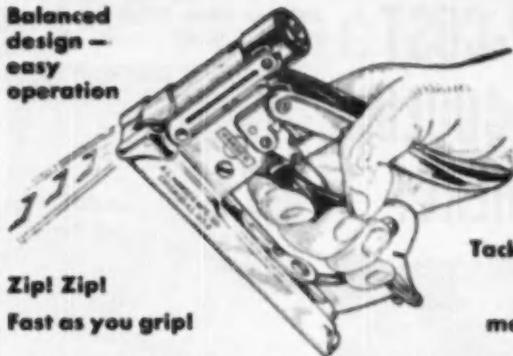
**CONCRETE** is poured over top and on top of two rows of the insulation to enclose it

In the Levitt homes the insulation used consists of individual 12x48-inch boards, 3/4-inch thick, coated on one side and edged with asphalt to which stout kraft paper is adhered. These glass insulation units are set vertically to 12-inch ground depth around

(Continued on page 236)

AUGUST, 1950

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design —  
easy  
operation



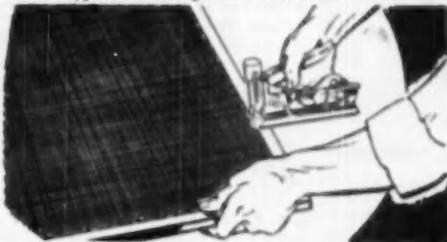
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## Hunter Package Attic Fans

### Glass Slab Edge . . .

(Continued from page 215)



**NEXT** step is to smooth the concrete over insulation and radiant heating coils

each house. When the complete perimeter has been formed, concrete is poured on either side and over the top of the insulation barrier to enclose it.

### Luminous Ceiling Used To Modernize Drug Store

A completely illuminated ceiling suspended to conceal unsightly beams and old-fashioned scrollwork was the major alteration in modernizing the Brundage Drug Store, Muskegon,



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Mich. The new ceiling system which raised illumination from eight foot-candles to approximately 70, is the "Flexi-Module," developed by the Sylvania Electric Products, Inc., New York City.

Aluminum louver panels, each composed of 32 individual cells, are suspended from the original ceiling by means of adjustable hanger straps which support them. The luminous ceiling conceals 47 single-lamp Slim-line fluorescent lighting fixtures spaced 24 inches O.C. throughout the store's 2,100 square feet of floor space.

Additional fluorescent lighting concealed above the wall cases along the sides of the store call attention to packaged goods on the shelves.



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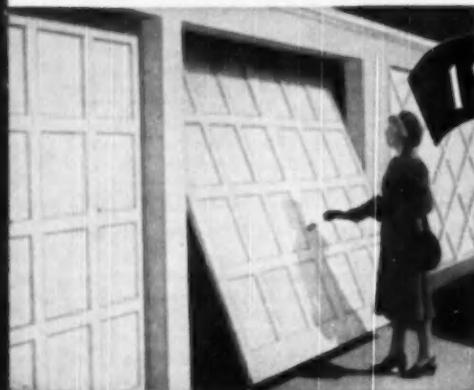
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| Unit   | Opening Dimensions |           |
|--------|--------------------|-----------|
| No. 10 | 8' wide            | 7' high   |
| No. 20 | 8' wide            | 7' high   |
| No. 7  | 8' wide            | 6'6" high |
| No. 77 | 8' wide            | 6'8" high |
| No. 19 | 9' wide            | 7' high   |
| No. 21 | 16' wide           | 7' high   |

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DESIGNED**

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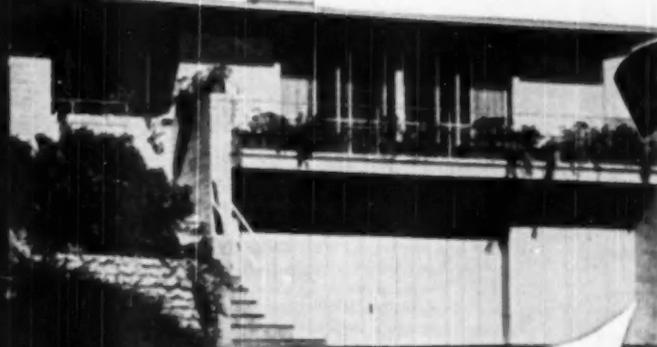
Design your door, build it on the job, and apply "Over-the-Top" Equipment. You'll have a job you'll be proud of and one you can install and forget. Table below lists sets available for any size and weight residential, commercial, or industrial door.

| Model  | Stock No. | Width     | Height         | Door Wt. (lbs.) |
|--------|-----------|-----------|----------------|-----------------|
| Light  | 82        | 7' to 8'  | 6'6" to 7'0"   | 50 to 95        |
| Weight | 80        | 7' to 8'  | 6'6" to 7'0"   | 100 to 150      |
| Series | 809       | 8' to 9'  | 6'6" to 7'0"   | 100 to 150      |
| Medium | 74        | 7' to 8'  | 6'6" to 7'3"   | 100 to 150      |
| Weight | 749       | 8' to 9'  | 6'6" to 7'3"   | 100 to 150      |
| Series | 75        | 7' to 8'  | 7'4" to 8'0"   | 100 to 150      |
|        | 176       | 7' to 8'  | 6'8" to 7'3"   | 150 to 250      |
|        | 179       | 8' to 9'  | 6'8" to 7'3"   | 150 to 250      |
|        | 78        | 7' to 8'  | 7'4" to 8'0"   | 150 to 250      |
|        | 789       | 8' to 9'  | 7'4" to 8'0"   | 150 to 250      |
|        | 791       | 7' to 8'  | 7'4" to 8'0"   | 200 to 300      |
|        | 93        | 8' to 14' | 6'8" to 7'3"   | 150 to 250      |
|        | 94        | 8' to 14' | 7'4" to 8'0"   | 150 to 250      |
|        | 782       | 8' to 14' | 6'8" to 7'3"   | 200 to 300      |
|        | 793       | 8' to 14' | 7'4" to 8'0"   | 200 to 300      |
|        | 810       | 8' to 14' | 9'6" to 10'0"  | 100 to 200      |
|        | 810       | 8' to 14' | 9'0" to 9'6"   | 125 to 225      |
|        | 810       | 8' to 14' | 8'6" to 9'0"   | 100 to 250      |
|        | 810       | 8' to 14' | 8'0" to 8'6"   | 175 to 275      |
| Heavy  | 716       | 8' to 14' | 9'1" to 10'0"  | 150 to 250      |
| Series | 716       | 8' to 14' | 8'1" to 9'0"   | 175 to 275      |
|        | 716       | 8' to 14' | 6'6" to 8'0"   | 200 to 300      |
|        | 718       | 8' to 16' | 9'1" to 10'0"  | 180 to 375      |
|        | 718       | 8' to 16' | 8'1" to 9'0"   | 210 to 425      |
|        | 718       | 8' to 16' | 7'0" to 8'0"   | 240 to 475      |
| Extra  | 912       | 9' to 18' | 11'1" to 12'0" | 300 to 600      |
| Series | 912       | 9' to 18' | 10'1" to 11'0" | 325 to 650      |
|        | 912       | 9' to 18' | 9'0" to 10'0"  | 375 to 720      |

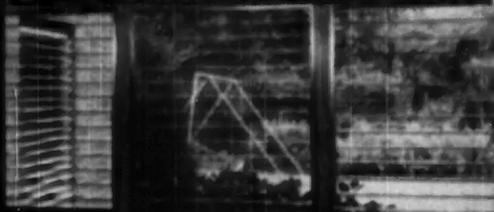
## A COMPLETE LINE OF BUILDERS' HARDWARE

"Over-The-Top" Units or Door Equipment can be purchased from your nearby Frantz Dealer, who can also supply you with Frantz "Red Label" Guaranteed Builders' Hardware, for your other hardware needs.

FRANTZ MANUFACTURING CO., STERLING, ILL.



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Homes with stainless-steel-weatherstripped CLEARVIEW Louver Windows are so distinctive, so desirable that higher prices and quicker sales are inevitable! Unique beauty and utility command a higher price, willingly paid. Adaptable to frigid winters, sweltering summers. Made by the world's oldest and largest manufacturers of louver-window-treatment products — over 500,000 installations in over 14 years.

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## Correction in Recommended Vermiculite Mixtures

Numbers games are not what the reader expects to find within this publication's pages, but reading page 222 of the July issue might have planted suspicions in someone's mind. The *American Builder* wishes to inform its readers that the chart (concerned with vermiculite) on that page was inadvertently scrambled. Strengths and insulation values of vermiculite concrete vary with the amount of cement used in the mix; the chart, a tabulation of various mixtures, should have read as follows:

| Mix by Volume*               | Cu. ft. of vermiculite concrete aggregate | Compressive strength in pounds per sq. in., 1-inch disc on 6x12-inch cylinders | Thermal conductivity (k) in B.T.U. per inch thickness per sq. ft. per hour per degree F. |
|------------------------------|---|--|--|
| 1<br>Bags of portland cement | 4   | 240  | 0.79   |
| 1                            | 6   | 115  | 0.65   |
| 1                            | 16  | 11   | 0.46   |

\*11, 16½, and 44 gallons of water used in these mixes, respectively. Density in pounds per cubic foot of the mixes above are 26, 24 and 16 respectively.

Indentation strength, one inch disc on 3x12x12-inch slab of the mixes above is 257, 166 and 28 respectively.

In addition, an error was committed in a photograph caption and in the body of the article by referring to a 1:6 mixture of vermiculite and cement for concrete masonry wall insulation. Although the 1:6 mixture is recommended for use in floors on the ground, for radiant heated floors and for other usages where higher compressive strengths are needed, the 1:16 mixture is advised for filling masonry unit cores and cavity walls for insulation purposes.

The *American Builder* expresses its apologies for these errors.

## New Building Blocks Require No Mortar

New building blocks developed by Hydro-Forged Stone Associates, Inc., of Cleveland, Ohio, are made entirely from waste materials and eliminate mortar in constructing homes, commercial buildings or frame structures.

The block resembles cut stone, granite or marble, and is made in a patented tongue and grooved design within tolerances of five one-thousandths of an inch. When laid, these molded stones lock into each other to form a wall of high strength. In order to insure against seepage of moisture, a mastic material applied with a hand-operated gun is spread on the grooves as the blocks are assembled. The tongues and grooves are molded into the building blocks as they are formed on a hydraulic press under 150 tons pressure. Accuracy and uniformity with which the blocks are made make it possible for an unskilled worker to build a perfect wall merely by laying one block into another, G. P. Dooley, president of the Hydro-Forged firm said.

The standard block, which measures eight inches wide, four inches high and 16 inches long, is hollow in the center. That provides about 75 per cent of the volume of the block as dead air space for insulation.

Dooley pointed out that although any unskilled person is capable of laying his company's blocks, a union worker and a helper will lay 600 Hydro-Forged stones per day, equivalent to 311 square feet of eight-inch-thick wall.

The newly formed Hydro-Forged company is now prepared to grant franchises throughout the country and abroad for the purpose of manufacturing the patented stone blocks. The machines will become the property of the owner and his territory will be on an exclusive basis only.

## Association News,

### Cortright, cont'd.

ton by the National Association of Home Builders and other industry groups with the various agencies of government responsible for the planning. Upon the adequacy of the solutions will depend in time of war the production of material and the morale of the civilian population.

It is indeed a depressing but nonetheless essential task and one which must be undertaken if we are to avoid repeating the mistakes and confusion of 1942. Who can forget the constant stream of regulation and counter regulations—the rapid inflation of priorities for war housing until they became valueless—the nine months' construction period resulting from inability to secure materials and all of the other faults stemming from the lack of intelligent and adequate preliminary plans for an unexpected emergency?

None of this must happen again. The segments of the industry, cooperating with the government, can do no less than anticipate the worst and pray for the best!

### Nearly 100,000 Visit Washington Show

Between 80,000 and 90,000 persons attended the recent 10-day Home Show sponsored by the Home Builders Association of Metropolitan Washington, at the national capital's Armory.

Principal speaker at the opening ceremonies was Thomas P. Coogan, Miami, Fla., NAHB president, with brief talks being made by President Clarke Daniel of the Washington association and Show Chairman Clyde Veverke. Mrs. Clarke Daniel cut the ribbon at the ceremonies.

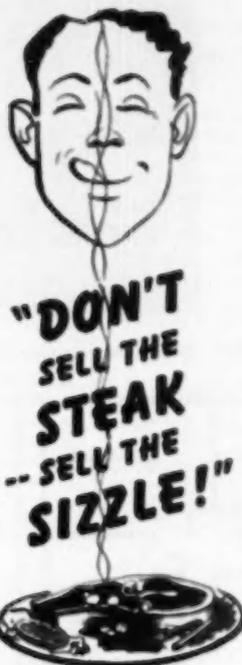
Among the show's special features were a radio program, "Salute to the Home Show"; a contest for "Home Show Queen"; a demonstration of color television; and a design competition for students of Washington high schools covering two categories, plans and models.

### Advertising Drive Launched By Wood Window Group

A vigorous advertising campaign for its product was mapped by the American Wood Window Institute at the annual convention June 15 in Memphis, Tenn. A large number of members signed up to set the program in motion.

New officers elected at the convention were F. R. Weddington, Waco, Tex., president; Fred Bissell, Dubuque, Iowa, vice president; M. C. Davidson, Houston, Tex., treasurer; and Clark E. McDonald, Memphis, secretary.

The institute's meeting came at the conclusion of the annual meeting of the Southern Sash and Door Jobbers Association.

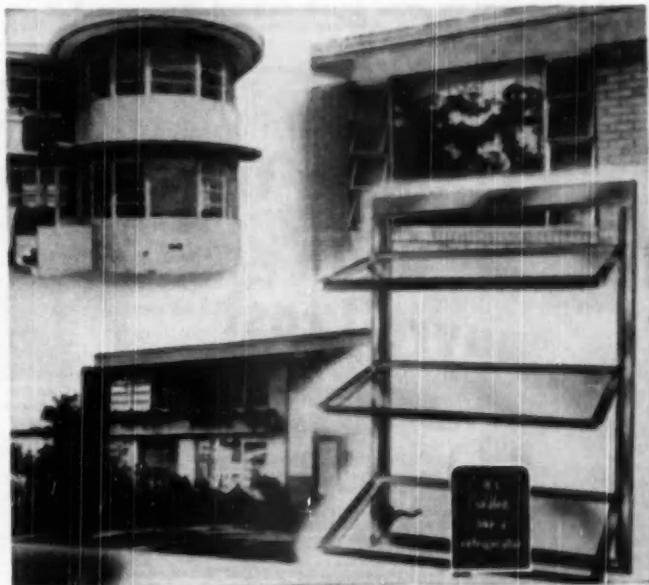


Elmer Wheeler, noted lecturer on salesmanship, neatly emphasizes the importance of dramatizing outstanding points of a product, when he declares: "Don't Sell the Steak -- Sell the Sizzle!"

Builders throughout the country tell us that the Auto-Lok weatherstripped Aluminum Awning Window is providing the very "sizzle" that they need to move their product (houses) faster. The tightest closing window ever made is quick to register a favorable impression on prospects.

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The first and only effectively weather-stripped awning window is equally suitable for small or large homes, for schools, hospitals and institutions. It's tops for ventilation, for visibility and for protection! Close more sales with the aid of the tightest closing window ever made!



Consult your copy of SWEETS,

or write for name of nearby

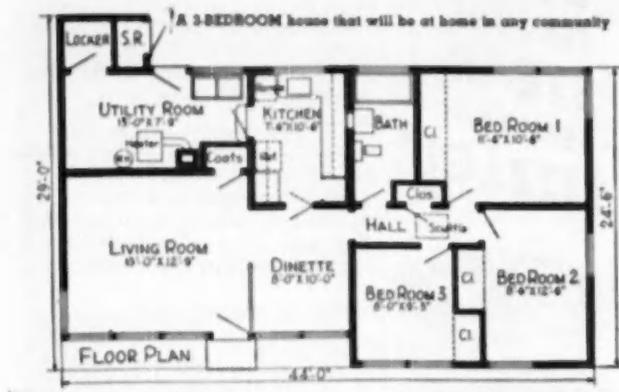
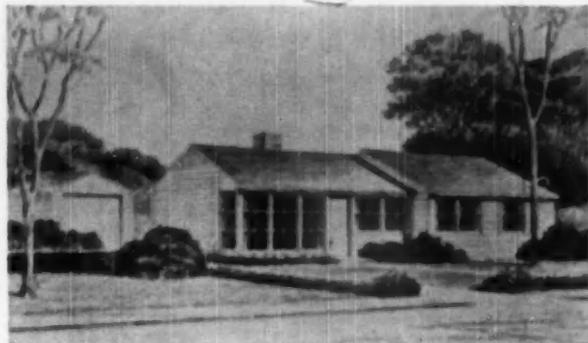
AUTO-LOK distributor. Address:

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P. O. Box 4541, MIAMI, FLORIDA



## Window Wall Adds to Room Size



**D**ESIGNED for the *American Builder Service*, this one-story house has much to offer the family of limited means whose needs require three bedrooms.

The compact and convenient floor plan utilizes every foot of the interior for living space. It eliminates unnecessary hallways and achieves a feeling of spaciousness through the generous use of windows which permit an abundance of light and air within.

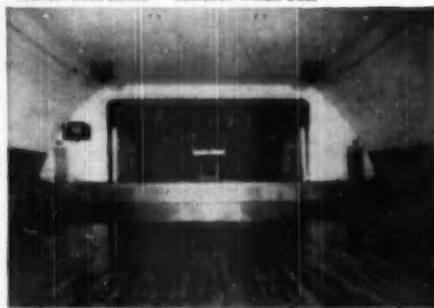
By locating the dinette and kitchen between the living room and the bedroom-bathroom wing, the designer achieved a degree of privacy for the latter. Further the plan makes the bathroom and bedrooms readily accessible.

(Continued next page)

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**cut building time  
and  
payroll cost**



Odin Zion Lutheran Church, Mankato, Minnesota  
Architect: Ernest Schmidt    Contractor: William Olson



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FALLS STAMPING & WELDING CO.**



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CUYAHOGA FALLS, OHIO**

AUGUST, 1950

### Window Wall . . .

*(Continued from page 240)*

sible from the kitchen; an important feature in a house that does not use halls for circulation.

A wall of floor-to-ceiling windows increases the depth of the 15 by 12 foot 9 inch living room, as well as enhances the exterior appearance of this frame dwelling. The use of a partition, wainscot high, to separate the living room from the dinette serves the duo-purpose of creating a feeling of roominess in these areas while providing privacy for the dining room. The Broken-L layout of the kitchen permits installing the sink under the window where it is handy to the range and the work counter. Long closets with space-saving sliding doors provide adequate storage in the bedrooms.

Designed for basementless construction, the house has locker and storage rooms adjoining the utility room for the storage of items normally kept in basements. Besides the heating unit, the utility room provides ample space for laundry equipment including stationary tubs under the window.

Over-all the house contains approximately 1275 square feet. As pictured, the horizontal lines of the siding, repeated in the pattern of the

window, topped with a low-pitched roof give it a "close-to-earth" appearance which is appealing.

To obtain a complete set of blueprints, drawn to 3/4-inch scale, write *American Builder Plan Service, 30 Church St., New York 7, N.Y.*

### Materials Made to Scale For Model Buildings

A service which provides materials for the construction of a large variety of correctly-scaled model buildings is being offered by Architectural Models, Inc., of Chicago. The materials include nine types of brick, clapboard siding and shingles, made of plywood by a patented process; and 40 different types and sizes of doors, door frames, windows, shutters and flower boxes, fabricated of white plastic.

Steps in using the made-to-order model building materials were listed by the manufacturers as follows:

1. Make working drawings and determine scale; for example, 1/2-inch or 3/4-inch to the foot.
2. Select roofing and siding materials in the proper scale.
3. Make a list of the requisite roofing and siding and the sizes and quantities of windows, doors and other millwork.



### VITROLINER TYPE "E" FLUE Attention Builders and Architects

Completely fabricated and attractively designed to fit and take care of all home heating equipment—available individually or in any quantity.

This modern and complete Chimney is used extensively in F.H.A. construction. Underwriters listed for all Fuels—ideal for oil or gas.

The Vitroliner Flue is time tested—proven practical and successfully used by large national builders (names on request) as well as thousands of small contractors.

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2 HOURS**

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**CONDENSATION ENGINEERING CORPORATION**  
111 10 WICHAM AVE. CHICAGO, ILL.

### Mechanical Spreader Cuts Mortar Waste 50 Per Cent

A mechanical mortar spreader of an unusual type, designed for use on standard building blocks, has been in-



**PARALLEL** augers, spaced to match face shell of concrete block, spread even bed of mortar as operating crank of mechanical unit is turned

vented at the Washington State Institute of Technology, Washington State College, by Jack J. Wegner, staff chemical engineer.

Wegner estimates a 50 per cent mortar saving with the use of this

unit. Essentially, the invention consists of a hopper body 16 inches long, 7½ inches deep and 9½ inches wide. Two horizontal augers extending full length in the bottom of the hopper pass through openings in the rear of the hopper body and force mortar

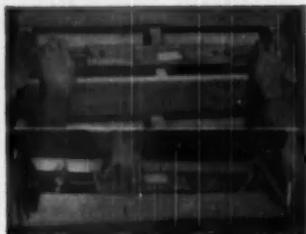


**INVENTOR** Jack J. Wegner demonstrates use of mortar spreader designed to reduce waste in laying concrete block up to 50% through these openings when rotated. A rotating crank turned by hand actuates the mechanism.

The hopper body is supported on the masonry by wheels in front and wheels or skids in the rear. The rub-

(Continued on page 244)

## Save HALF Your Time BUILDING STAIRCASES



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in 10 seconds gives you BOTH correct length and angle of stair treads, risers, closet shelves, etc., ready to mark board. Each end pivots and locks at any LENGTH OR ANGLE automatically. Adjustable from 20° up. Saves a day or more, increases your profits \$20 or MORE on each staircase. Fully guaranteed. Circular on request.

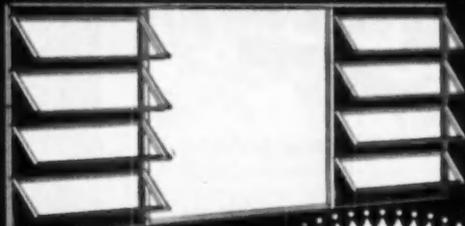
Only \$12.95 cash with order, or C. O. D. plus postage.

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19 tips on making cornices and porches; 54 ideas for interior wall covering and trim; 27 helps on stair construction; 37 window suggestions; 54 ideas for installing doors; 29 tips on closets, shelves and built-in equipment; 24 flooring pointers; 35 aids in installing sanitary equipment; 44 short-cuts in laying out work; etc., etc., etc. More than 700 illustrations show you exactly "how-to-do-it." All items indexed so that any particular idea or short-cut you want can be located instantly.



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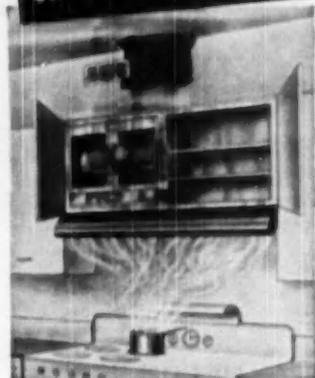
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SUPER CLIPPER  
CABINET VENTILATOR**



**Installs in cabinet  
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inlets provide  
COMPLETE ventilation**

Only the Super Clipper Kitchen Ventilating System—made by Trade-Wind—exhausts cooking fumes and heat from both the stove and at the ceiling level.

This newest development is installed in metal or wood cabinets directly over the stove.\* The twin squirrel cage blowers produce 600 CFM—more than sufficient power to trap all cooking heat, grease and odors from the range top as well as through the second inlet at the ceiling. The motor is equipped with a 2-speed control. Two metal air filters are provided. Both a fold-under hood and stationary hood are available and both are optional.

No other kitchen ventilator can do the complete job that the Super Clipper accomplishes. And no other ventilator offers the architect, the builder and the home owner the versatility and efficiency which the Super Clipper provides for the modern kitchen.

\*Several manufacturers now build metal cabinets especially for the Super Clipper. Wood cabinets can also be built on the job. Trade-Wind does not provide the cabinet.

Write today for complete information.

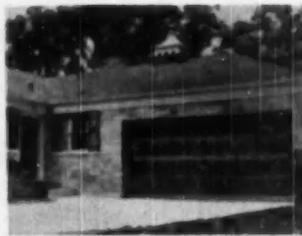
**TRADE-WIND  
MOTORFANS, INC.**

3708 S. Main St., Los Angeles 37, Calif.

## New Garage Doors Are Attractively Designed

Two designs of wood sectional overhead-type garage doors which are proving popular are the raised panel and flush doors produced by the Raynor Manufacturing Co. of Dixon, Ill.

The firm's raised panel doors are made in a variety of designs, including a selection of figured panels and com-



**RAYNOR raised panel door is made in a variety of panel designs and combinations**

binations of figured and plain panels. They are produced in 1 $\frac{3}{8}$ -inch and 1 $\frac{1}{2}$ -inch thicknesses with the raised panels 11/16 inches in thickness.

The flush door is produced without nails by a new electronic bonding



**SPECIAL electric bonding process is used for flush door, fabricated with plywood** process, the manufacturers said, with a waterproof glue dielectrically heated under heavy pressure creating a fusion or bond of both frame and fir plywood panel. Windows in third or top section are optional. The over-all thickness of this door is 1 $\frac{3}{4}$  inches, and it is made in standard one- and two-car garage sizes.

## Mechanical Spreader . . .

(Continued from page 242)

ber-tired front wheels move the spreader forward as the operating crank is turned.

Operation of the unit is continuous and rapid. The spreader, filled with mortar, is set on a previously laid course of masonry units. As the crank is rotated the unit advances along the wall, distributing a proper quantity of mortar on each face-shell. Head joints are buttered by running the spreader along a row of up-ended blocks.

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Low investment — around \$300 — gives a variety of professional type "Pro-Form" Shaper Cutters. Keep your men busy on all days.

Free yourself from high mill charges. Save big money. Save hours spent in trip to the mill. Avoid long waits for special made sash and millwork. Investigate now!

You can't make commercial sash and doors without a properly powered shaper. The Boice-Crane No. 200 Shaper is designed for 1750 r.p.m. high torque, high power motors up to 1 $\frac{1}{2}$  H.P.

Shapers with 5000 r.p.m. low torque motors simply will not do a satisfactory job, as those who have tried it will testify.

The Boice-Crane Shaper has a more accurate, complete spindle, strong enough for cutters to 6 $\frac{1}{2}$ " diameter. (Contrast with the 5" maximum of others made with spindles under 1" diameter.) Makes longer tenons.

### YOU CAN COPE AND RASSETT AT THE SAME TIME

and without a stub shaft. The tenon can be passed under the long swing eye cutter.

### YOU GET DOUBLE THE WORK RANGE WITH A BOICE-CRANE SHAPER

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Boice-Crane tools are sold through industrial supply distributors in most cities.

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( ) Pro-Form Safety Cutters for Shapers

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**A.I.A. Names Secretary  
To Promote Advancement  
of Modular Co-ordination**

William Demarest, Jr. of New York City has been appointed secretary for modular co-ordination in the department of education and research of the American Institute of Architects in Washington. Creation of the new position is a major step in a plan, drawn up by the joint committees of the A.I.A. and the Producers' Council to promote the further advancement of modular co-ordination.

In announcing the appointment, Edmund R. Purves, A.I.A. executive director, said that Demarest, through work with architects, schools of architecture, builders, building materials manufacturers and the Housing and Home Finance Agency, will provide a much-needed unifying factor for the further development of modular standards and the more general acceptance of the principles of modular co-ordination.

Serving as co-ordinator of promotion, education and service in the modular movement, Demarest will work closely with Committee A-62 of the American Standards Association and the HHFA, which is promoting standardized dimensions on all

building materials. Other construction industry groups and the architectural profession will be encouraged to adopt the modular plan which is based on a 4-inch module.

**Van Packer Chimney Gets  
Underwriters Approval**

Use of vermiculite in the new Van Packer "packaged" chimney has helped win Underwriters Laboratories' approval for the chimney, revising the earlier Laboratories' decision, according to spokesmen for the Van Packer Corp., Chicago. Recent tests of the product with an improved insulating wall and fire safety features, sponsored by the National Board of Fire Underwriters, found the chimney acceptable for use with all fuels in residential construction in which the chimney comes in direct contact with floor, ceiling and roof joists.

The product is made with a refractory fire clay liner and a three-inch wall of vermiculite concrete encased in an aluminum jacket.

With a steady flue temperature of 1,000 degrees Fahrenheit in the test, thermocouples against the outside of the chimney registered only 90 degrees above room temperature, according to the laboratories' report.

**TELEVISION  
SELLS  
HOMES**



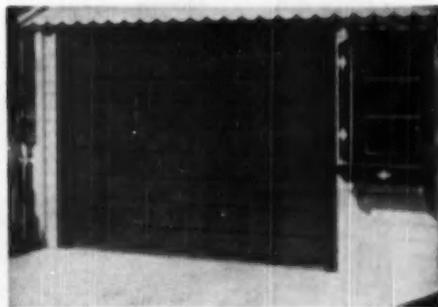
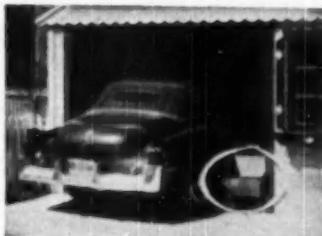
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## INDUSTRY BRIEFS

**S. J. McCarthy**, formerly general sales manager of New Castle Products, New Castle, Ind., is now with **Holcomb and Hoke Manufacturing Co. Inc.**, Indianapolis, as general sales manager of the company's foldDoor

division, which is producing a new "accordion-fold" folding door. McCarthy has been in sales and sales management work for the past 22 years, and has been affiliated with the Westinghouse Electric Corp. and the Norge Division of Borg-Warner Corp.

**Harry T. Kendall**, general manager of Weyerhaeuser Sales Co., St. Paul, has been elected chairman of the board. His place as general manager has been taken by **R. S. Douglas**, a vice president, who has been with the company since 1923 and in recent years has been manager of sales for West Coast mills of Weyerhaeuser Timber Co., Tacoma, Wash., the parent organization.

The appointment of **J. E. L. McCall** as advertising manager of the American Lumber and Treating Co. has been announced by **J. F. Linticum**, president of the firm. McCall began working for this company as assistant advertising manager in 1948, following two years in the advertising and sales promotion divisions of the General Electric Co. McCall will be responsible for the advertising campaigns on "Wolmanized" pressure-treated lumber and for the sales promotion programs of the regional offices of the company.



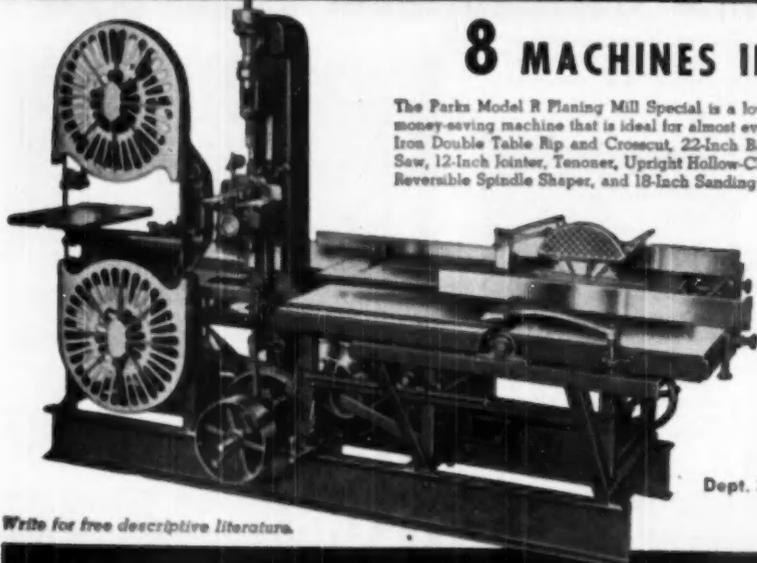
McCall

The election of **J. B. Faegre** as president and of **C. T. McMurray** as executive vice president of the Minnesota and Ontario Paper Co., Minneapolis, has been announced by **R. H. M. Robinson**, chairman of the board. Faegre has been associated with the firm since 1930 and has been a director and member of the executive committee since 1941. In his new capacity, McMurray, who joined the company in 1918, will be in charge of all sales and operations.

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## INDUSTRY BRIEFS

Curtis Companies, Inc., Clinton, Iowa, has taken over the cutting plant at Baker, Oregon, formerly operated by Baker Wood Products. The plant will be operated by a subsidiary under the name of Curtis Wood Products Co.

The election of **Thomas I. Byrd** as vice president in charge of sales has been announced by the Lau Blower Co., Dayton, Ohio. Byrd has been sales manager for Lau Blower since September, 1943, before which he was department manager in the Market Development Division of Armco Steel Corp.

The appointment of **C. S. Davis, Jr.**, as president of the Borg-Warner Corp. Norge Heat Division, Chicago, Ill., was announced recently by Roy C. Ingersoll, corporation president. Davis, formerly vice president and general manager of the division, succeeds G. P. F. Smith, who now will devote full time to his duties as president of the Norge Division.

The appointment of **George R. Seidlitz** as vice president and general manager has been announced by the Seidlitz Paint and Varnish Co., Kansas City, Mo. Seidlitz was formerly vice president in charge of sales. **Joe C. Huntoon, Jr.**, has been named vice president and sales manager.

The 1950 convention of the structural clay products industry will be held at the Broadmoor Hotel, Colorado Springs, Colo., Oct. 23-26, it has been announced by **W. J. Goodwin, Jr.**, president of the Structural Clay Products Institute. Special convention trains will be arranged to pick up convention-goers from New England, the Eastern seaboard, and through the Midwest.

The promotion of **James G. Badger**, formerly secretary and assistant to the president, to vice president and treasurer of **Hines Lumber Co.**, Chicago, was recently announced by **Charles M. Hines**, president.

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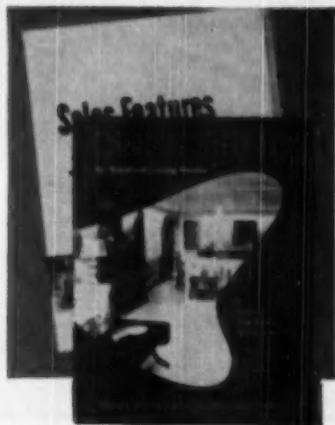
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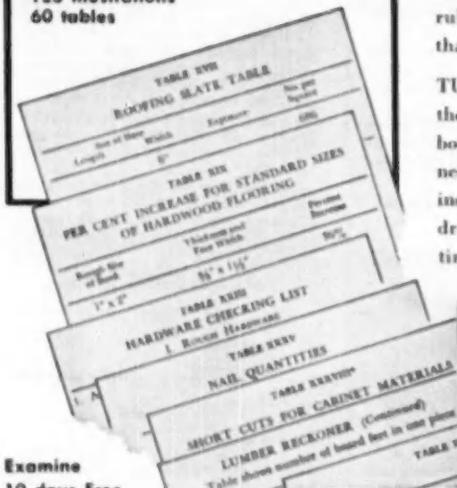
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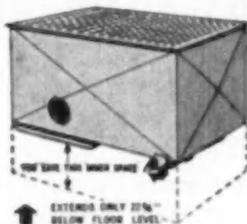
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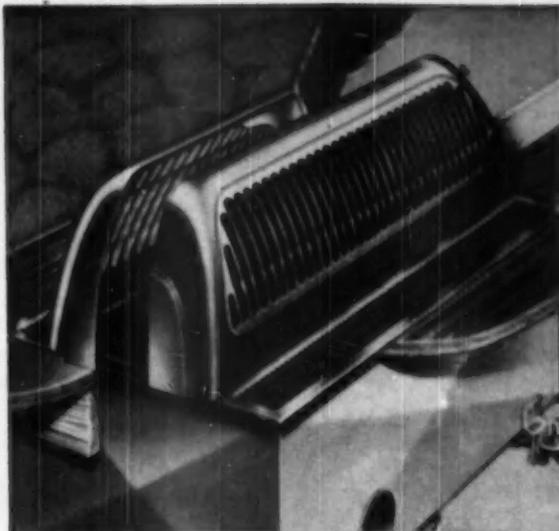
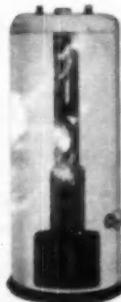


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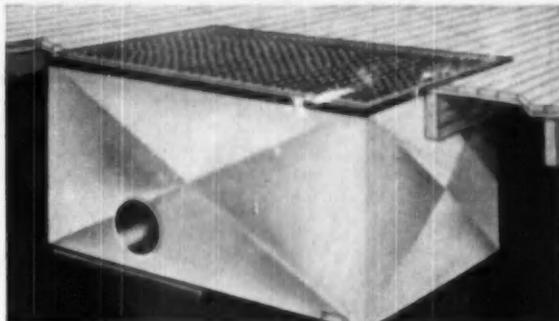
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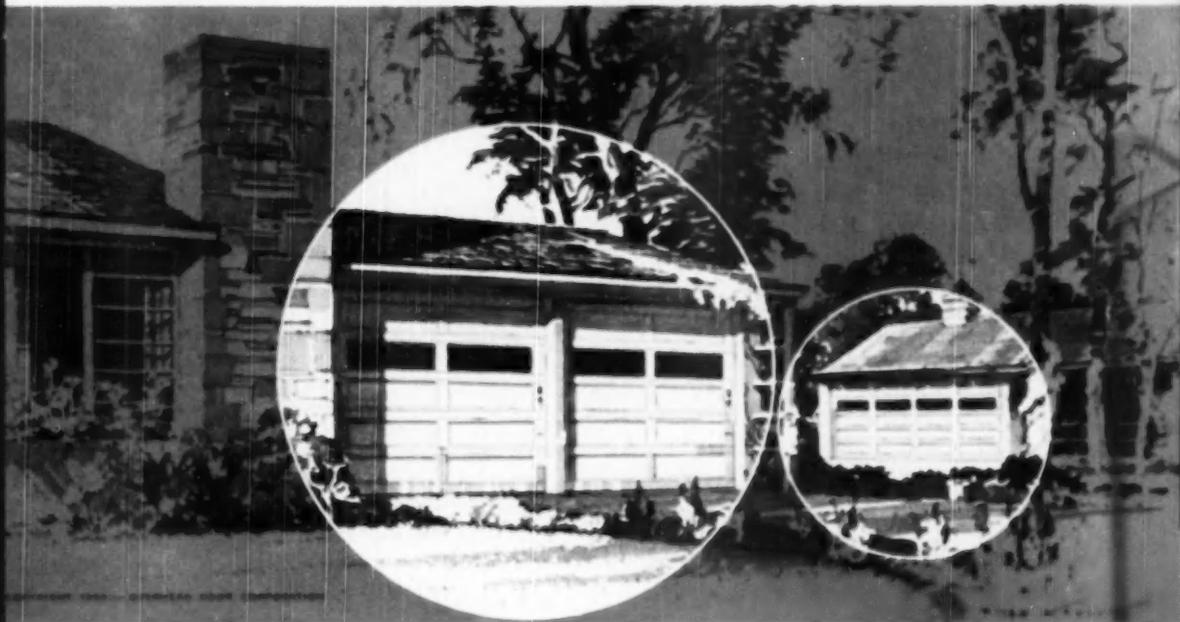
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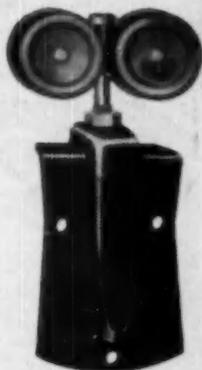
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