

# AMERICAN

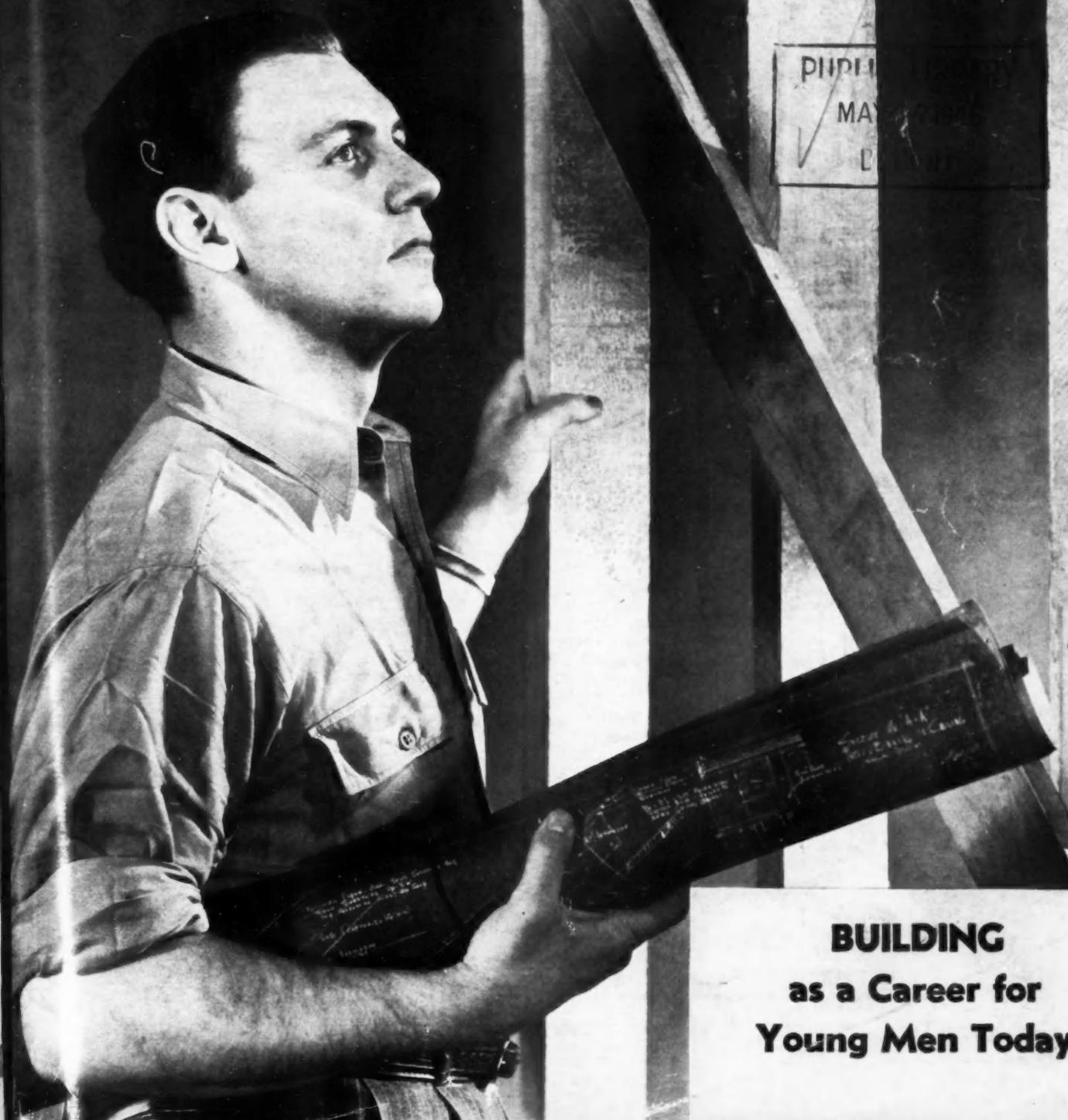
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# BUILDER

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IT'S WHAT'S *Inside* THAT COUNTS !

**YOU JUDGE** a camera on performance. And the precision-engineered parts *inside* the camera decide its quality of performance.

In building materials, too, it's what's *inside* that counts. For example—the long, wiry sugar cane fibres in the core of so many Celotex building and insulating products.

These closely-woven fibres imprison millions of minute air cells which create the ideal insulating qualities of Celotex board.

Examined under a magnifying glass, the serrations on each sugar cane fibre—more like bamboo than any other domestic fibre—look like small interlocking fishhooks. These multiple, matted, interlocking hooks are the reasons for the superior structural strength and durability of Celotex products.

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Remember, too—on hundreds of thousands of jobs, these Celotex products have *proved* beyond any doubt that they have the *inside* quality that counts.

#### Quick Facts on Celotex Siding

##### A typical Celotex cane-fibre building product

Ideal for most low-cost building. Does 4 jobs in *one* application: 1. Sheathing 2. Insulation 3. Exterior Finish 4. Structural Strength.

Tongue and Groove joint on long edges of 2'x8' panels.

Core of genuine Celotex Cane Fibre Board furnishes structural strength and insulation.

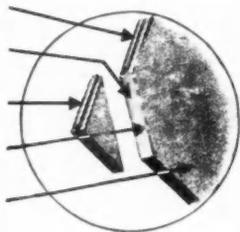
All edges and sides sealed against moisture by coating of asphalt.

Extra coating of asphalt on exterior side.

Exterior surface of firmly imbedded mineral granules, providing durable, colorful finish.

Colors: Green or Bufftone.

Sizes:  $\frac{5}{8}$ " thickness—4' x 8' with square edges.  $\frac{7}{8}$ " thickness—2' x 8' with T & G joints on long edges.  $\frac{7}{8}$ " thickness—4' x 8' and 4' x 10' with square edges.



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**BUILDING PRODUCTS**

THE CELOTEX CORPORATION • CHICAGO 3, ILLINOIS

Published monthly by Simmons-Bordman Publishing Corporation, 105 W. Adams St., Chicago 3, Ill. Subscription price, United States, Possessions and Canada: 1 year, \$2.00; 3 years, \$5.00. Foreign countries: 1 year, \$3.00; 3 years, \$6.00. Single copies 35 cen s. Entered as second-class matter Oct. 11, 1930, at the Post Office at Chicago, Illinois, under the act of March 3, 1879, with additional entry as second-class matter at Mount Morris, Illinois. Address communications to 105 W. Adams St., Chicago 3, Illinois.

# BEAUTY! . . . with an eye to practical needs

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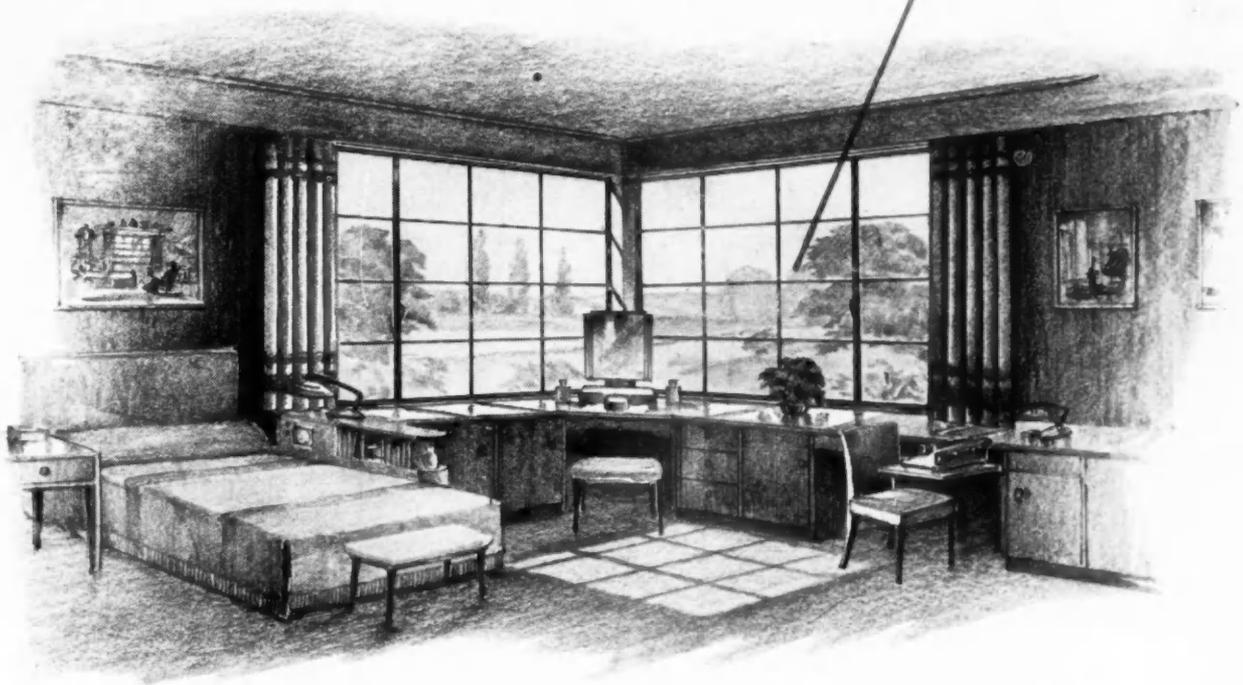
She'll see how it lends cheer to the bedroom . . . captures the charm of the outdoor view . . . *makes the small house feel larger.*

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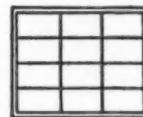
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**PACEMAKERS IN CRACKPROOF PANELS**

# AMERICAN BUILDER

AND BUILDING AGE

F O U N D E D — 1 8 7 9

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VOL. 68

1946

NO. 5

## C O N T E N T S

### AMERICAN BUILDER and BUILDING AGE

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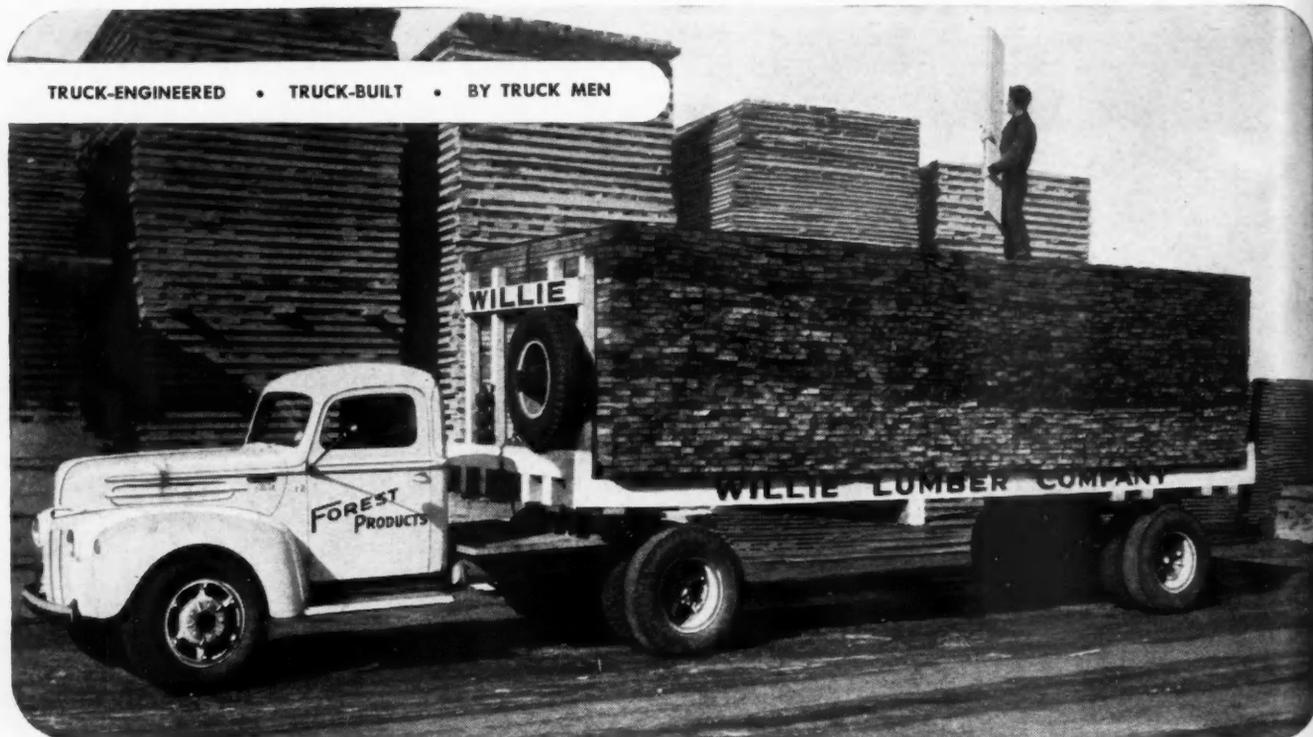
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Editorial Office, 105 West Adams Street, Chicago 3.

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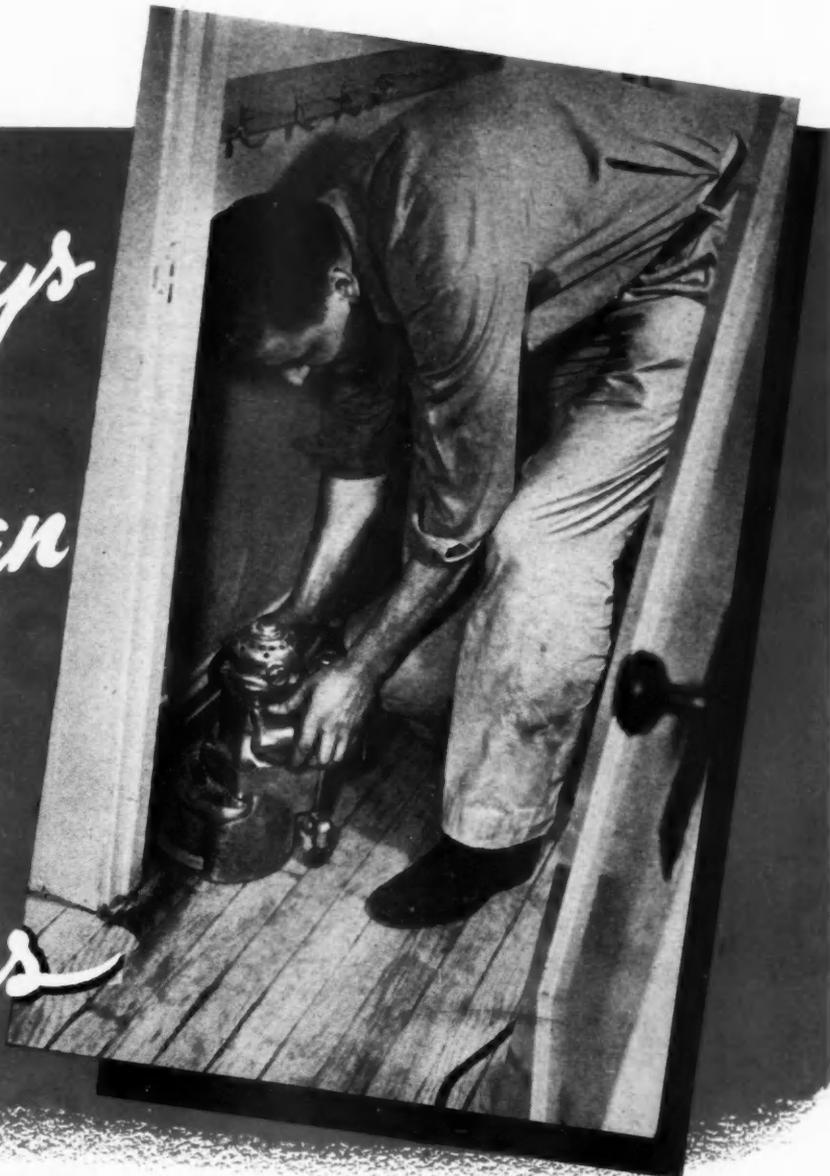
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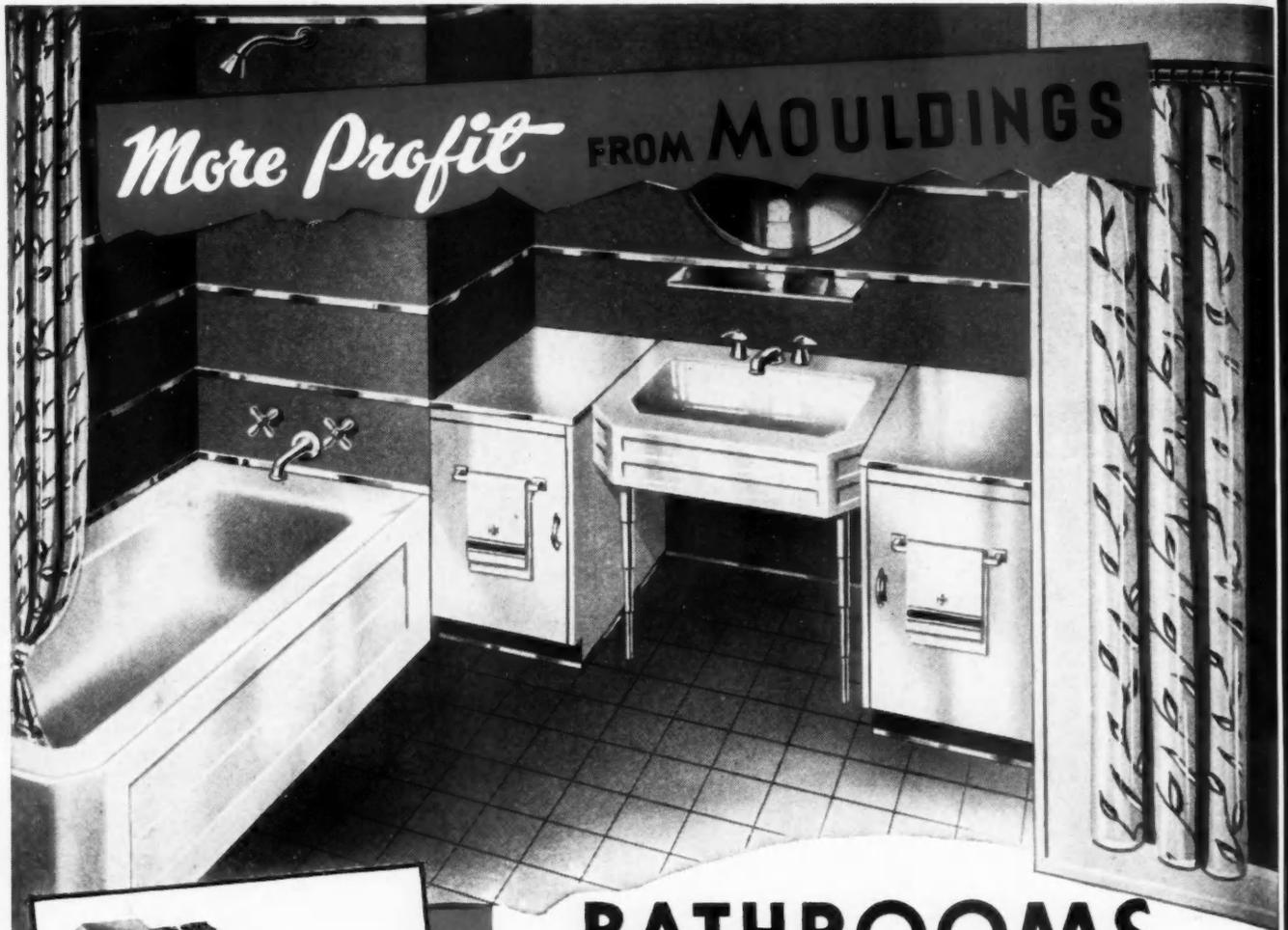
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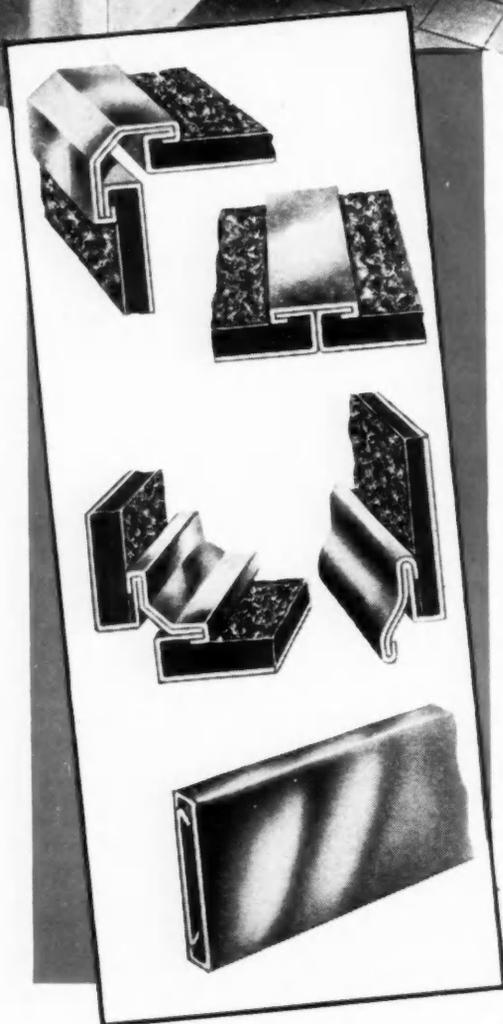
## BATHROOMS

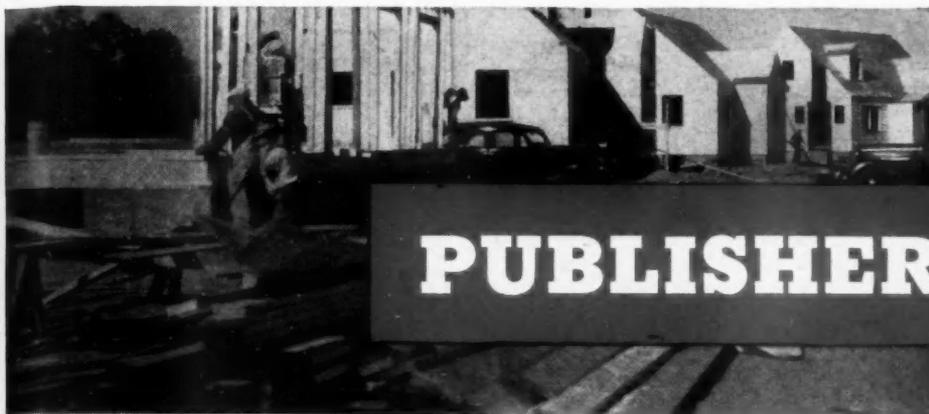
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## PUBLISHER'S PAGE

### **Join the Fight Against Socialization**

**D**ON'T be discouraged if you don't like the legislation affecting housing passed by Congress. There is "a war on" between those attacking and those defending private enterprise and private property. And a war is seldom decided in a single battle. The legislation passed may prove a blessing in disguise. Its results are *certain* to be highly vulnerable, and skillful attacks on them may turn the tide against government housing.

The war over attempted socialization of homes and the home-building industry really has just begun. The National Real Estate Foundation has changed its name to "National Home and Property Owners Foundation." It has already secured the organized support of business men throughout the country who are determined to arrest the trend toward socialization of home building and ownership. It must, to be effective, enlist as members, at small annual dues, a large part of the nation's almost 30,000,000 home and small property owners, to whom it will regularly furnish information that they can use in their own defense. If small property owners will join and support the Foundation, nationally and locally, they can beat all the pressure groups and politicians now trying to socialize America.

Why is *American Builder* so interested in the movement being started by the National Home and Property Owners Foundation? With its *paid* circulation of 80,000, this paper reaches *more small business men than any other trade paper in the world*. They are building developers, contractors, material dealers located in every metropolitan and suburban area, small city and rural town in the country. Indirectly and directly, by their buying, selling and use of materials, and their construction, remodeling and repairing of homes, stores, theatres and all other kinds of buildings, they provide a large part of the total employment and business of every community, and of the nation. They have always exemplified at their best the rugged individualism and private enterprise which have made America.

But some years ago promoters of socialism began discovering that this great decentralized

building industry was virtually unorganized, and, therefore, highly vulnerable to attack. Then, they began (as they claimed) discovering it was inefficient, and required wholesale invasion by government. Before the war government began building "low cost" housing to be rented at less than cost. During the war controls of materials, prices and rentals were adopted. And now, because of a pretended great "emergency" due to a shortage of housing, especially for veterans, socialistic politicians and government bureaucrats are promoting unreasonable peace-time controls of rentals, material prices, and prices of houses, subsidization of building materials and more extensive government construction of housing. They promote policies tending to prevent private enterprise from doing enough building. Then they promote other policies to cause the building that they try to prevent private enterprise from doing!

This program of socialization is a challenge to all home and other small property owners, and to the home-building industry, to fight in self-defense. They cannot fight effectively without organization. They can fight effectively by joining and supporting the National Home and Property Owners Foundation.

Meantime, they should ascertain how their own senators and congressmen have voted. Those who profess to favor private enterprise and vote for socialistic policies are no better than those who both advocate and vote for such policies. If your senators and congressmen have voted for (1) subsidies on building materials, (2) against relaxation or abolition of price and rental controls, (3) for ceilings on the prices of homes, they have voted to socialize home ownership and home-building.

Tell them, regardless of party, what you think of the way they have voted—as an encouragement or warning for the future.

*Samuel O. Drun,*



**IT NEVER RAINS BUT IT POURS  
... ROOFING CUSTOMERS FOR YOU!**

Best thing about selling roofing is that you always have a market. And the worse the weather the better the prospects. With Spring showers falling, look for a steady rise in the growing demand for Certain-teed Asphalt Shingles and Roofing Products. Expect, too, a market that knows

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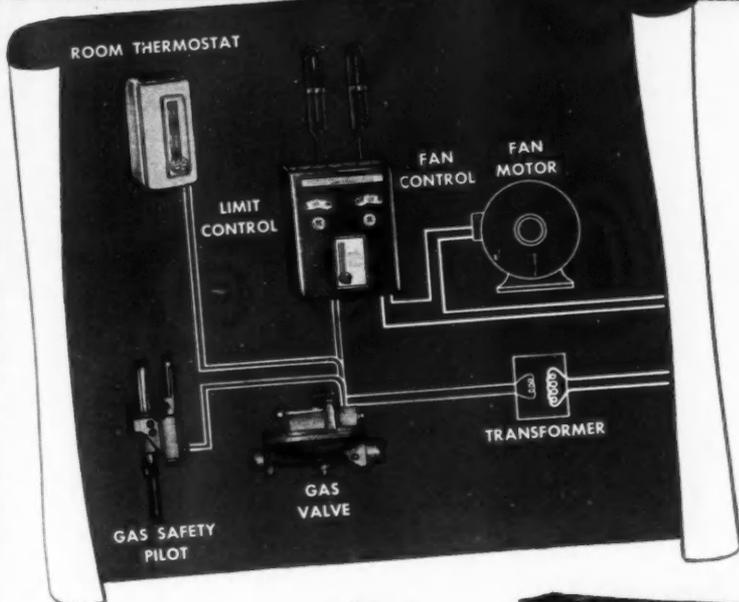


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**ENOUGH FOR  
FINEST HOMES**

*Economical*

**ENOUGH FOR  
ANY HOME**



WHITE-RODGERS automatic controls for heating offer an exceptional combination of appearance and economy.

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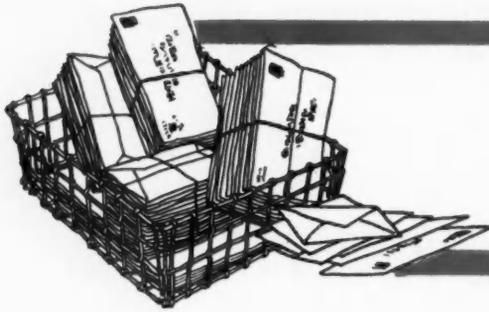
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## Our Readers Say:

### Likes editorial

*To the Editor:* A copy of the March issue of the *American Builder* came to my attention by chance. I was favorably impressed with your fine editorial, "Active Public Sentiment." I wish to compliment you on your logical reasoning and foresight as shown in this editorial. You express the sentiments of many of us who are less able to express ourselves. While I am not in the building business, I should like to be placed on your mailing list, if possible. Your editorial would find great interest outside the building trade, I am sure.—PATRIC T. ADAMSON, Springfield, Mo.

### Praises American Builder

*To the Editor:* The *American Builder* is considered the finest in advanced knowledge for all present and future American builders. I know of no other magazine so interesting and outstanding. It definitely wins the praise of all who read it.—EDWARD LINDSTROM, Lynn Center, Ill.

### Approves broadcast

*To the Editor:* Thank you for sending me a copy of your recent broadcast on the housing situation. Your statement is clear-cut, factual and absolutely sound. I commend you on it.

I shall take pleasure in reading your remarks to the members of our Association at our monthly meeting this evening.—MAURICE G. READ, President, Associated Home Builders of Alameda County, Inc., Berkeley, Calif.

### Rent control

*To the Editor:* It is certainly superfluous to write you concerning the unfair administration of rent control. However, since this is once more a subject of consideration in the Congress, I feel it is my obligation to reiterate my position in the matter.

Probably never before in the history of America has there been such an outrageous disregard for the interest of any group of American citizens. It has been banditry by autocratic, bureaucratic authority. A group of our citizens, who are the backbone of our country, have been persecuted in a manner so unbelievably unjust that the only possible conclusion is that the intent has been to wreck our presently constituted national life by destroying economically our most substantial group of citizens.

I do not see how we can arrive at any

other logical conclusion. Surely such acts could not come from ignorance. Figures of value changes in our economy are so well known that it is certainly unnecessary to bring to your attention the wide discrepancy that has mitigated against the interest of this group. OPA controls have been and are being used for the benefit of certain groups to the very great detriment and disadvantage of other groups. Furthermore, it has been and is destroying our national business morality.

In making these statements I am setting forth facts that are easy to prove—the evidence is all about us. I have favored and do favor proper controls—first, which actually do control, which are fair to everyone in our nation and which are enforceable and have a basis in fact and reason justifying their existence. In other words, price control is proper in theory but, as administered in the United States, it has constituted the greatest blight upon the escutcheon of government America has thus far experienced.

Therefore, I must personally believe that a completely free economy would adjust itself far more quickly to public need—even though it might result in a short, painful period of adjustment—than any further attempt at controls but if for political reasons some type of control must remain, for the sake of America's future spell out the regulation in such clear, unmistakable language that the administrators have no choice but to obey the letter of the law, for you can be very sure there is nobody now, as far as we can see, who will be permitted by those in administrative control of our government to occupy a position of authority in the OPA unless they obey orders and follow the dictates of the CIO and the other left-wing elements in our government—elements which have among them those who would change or destroy these institutions you and I hold dear and who would foist upon America a system of life which would be completely contrary to the concepts set forth in our constitution, concepts upon which America, except for the recent decade, has stood.—GEORGE W. MILLER, President, Miller Homes, Inc., Detroit, Mich.

### OPA is not funny

*To the Editor:* I've been a reader of your magazine for several years and get lots of good items and ideas from it. On page 104 of the March issue I read all

about a great man—our new National Housing Administrator. It gives his pedigree from birth to NHA and in no place does it connect him with the lumber or building industry and I am wondering whether Mr. Wyatt knows a 2 x 4 from a toothpick. Regardless of lumber codes or ceiling prices everything goes here. I have had no lumber at any of my yards for two years. Shiplogs, for instance, with a \$50 ceiling are \$100 to \$110. Where is any increase in price or subsidy needed there? All this country needs is the opinion of real builders to take the restrictions off of all materials necessary to build with and the industry will set itself straight before too long.

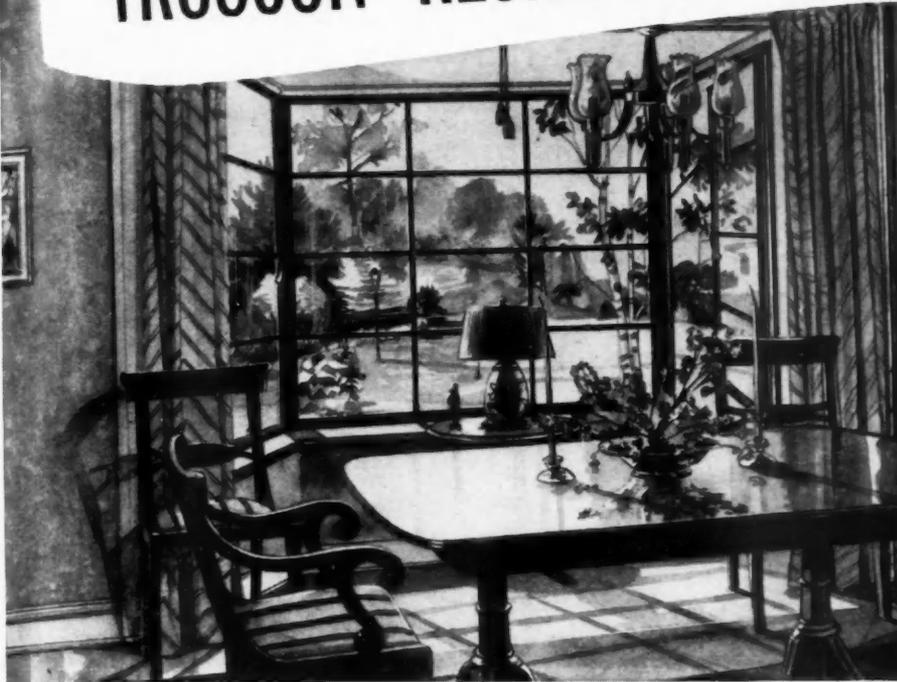
Just a sample of the ignorance of the setup appears in our paper today. Dealers will be allowed to sell autos now, and if OPA decides on an increase later, bill your customer for the difference. Did you ever hear of anything in your life that showed as little common sense or lack of business ability? Here is some more. Ceilings lifted on snow shoes, cow bells and bull rings and they refuse to put ceilings on fish worms. Why, if something isn't done the poor little worms will be selling for 10 cents each. Have you a child 6 years old? If you have, wouldn't you punish it if it couldn't do better? I know the above is funny or would be if it weren't so serious.—A. U. FISHER, A. U. Fisher Lumber Co., Miami, Okla.

### Agrees Wyatt was duped

*To the Editor:* I have read your editorial of February 27, entitled "Building Editor Says Wyatt Has Been Duped." I want to compliment you on this editorial and to say that it is just the thing the writer has been saying was true since this proposal was made; in fact, I have believed all the time that a big hurrah is being created all over the country by governmental agencies to create hysteria about G.I. houses. The fact is there is no such demand for G.I. houses as they claim, and I believe they are deliberately doing this to cover up and to get the public's mind off their bureaucratic mistakes of preventing production of building materials when they are sorely needed for all purposes.

I hope each Congressman and Senator gets a copy of this editorial, because it is just the information they need and that the general public needs.—JOHN L. AVERY, General Sales Manager, Frost Lumber Industries, Inc., Shreveport, La.

# TRUSCON RESIDENCE STEEL CASEMENTS



Slender Lines Admit More Daylight



Wide Swinging Vents Permit Controlled Ventilation

... soon on their way to you!

Our production plans are finally being molded into shape. We've had difficulties no end—reconversion, material shortages, and a dozen other problems that all elements in the steel industry have had to face—but the wheels are beginning to turn faster and faster.

We will soon be shipping Truscon Residence Steel Casements to the trade. The quantities will be limited at first. We'll have to spread them around so that everyone gets a fair share of our total production. But when we get into high gear there'll be enough for all—and we are bending every effort to reach that day with the least possible delay.

Truscon Residence Steel Casements are on their way to you—it's full speed ahead at Truscon now!



Better Vision—More Usable Wall Space



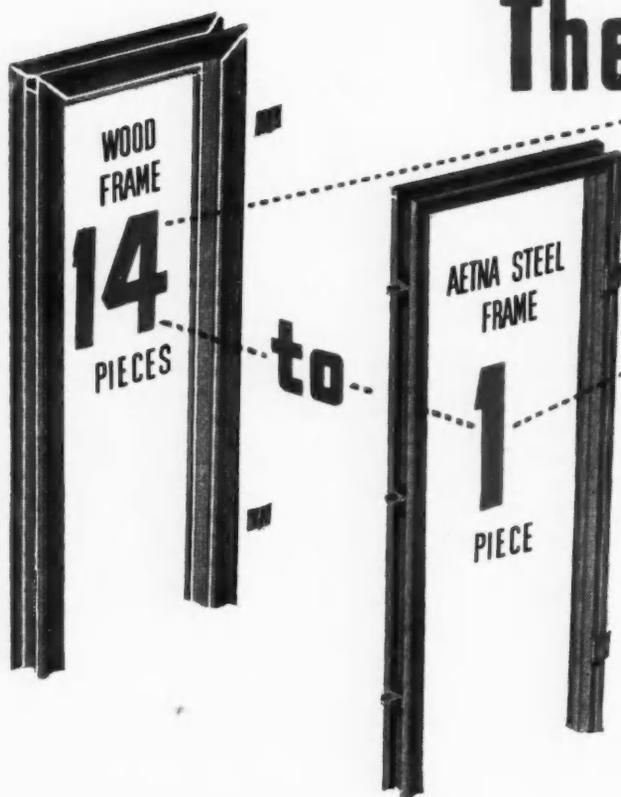
Truscon Casement Screens and Storm Sash Help You Meet a Bigger Market Demand

## TRUSCON STEEL COMPANY

YOUNGSTOWN 1, OHIO • Subsidiary of Republic Steel Corporation

Manufacturers of a Complete Line of Residential Double Hung Windows . . . Residential Casements . . . Security and Basement Windows . . . Screens and Storm Sash . . . Metal Lath Products . . . Industrial Steel Doors . . . Coal Chute Doors . . . Steel Lintels . . . Concrete Bars . . . Welded Steel Fabric.

# The *ODDS* are ...



you'll be using this  
**MODERN DOOR FRAME**  
... AT LOWER COST THAN  
**WOOD JAMBS and TRIM INSTALLED!**

A 14-to-1 bet, *in fact* ... For compared to the costly, laborious piecemeal job entailing use of 14 separate parts—the approximate amount needed by the builder to construct the wood frame—the Aetna Steel Door Frame is "one piece" construction making installation ridiculously easy. It comes ready to install in standard sizes

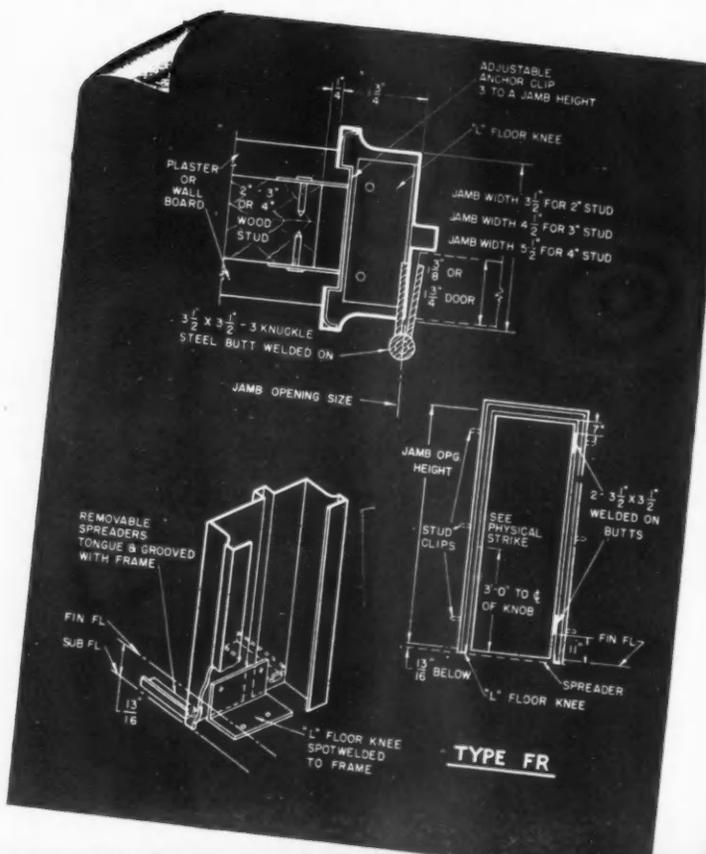
## **STRENGTH • RIGIDITY • PERMANENCY**

★ Aetna Steel Door Frames are welded to form a complete integral unit of jamb and two sides of trim. Cannot warp or crack and mitres will not open. ★ Will not absorb moisture and swell ... size of frame will not change. Eliminates repairs because these steel frames cannot chip or damage. ★ Hinges are welded to frame at factory and spaced to fit most prefabricated wood doors. Strike plate cutouts will take any strike plate. ★ Designed to fit any type and thickness of wall. ★ Prime coated at factory. ★ Easy to erect ... Save labor costs ... Simplify supply problems.

For close to half a century, Aetna has specialized in the manufacture of *Hollow Steel Doors and Steel Door Frames* for industrial and public housing needs. Now, a revolutionary new development makes Aetna Steel Door Frames **AVAILABLE TO HOME OWNERS...**

## **IN ANY QUANTITY OR STANDARD SIZE**

Ask your building supply or lumber dealer or write for name of the nearest Aetna Representative

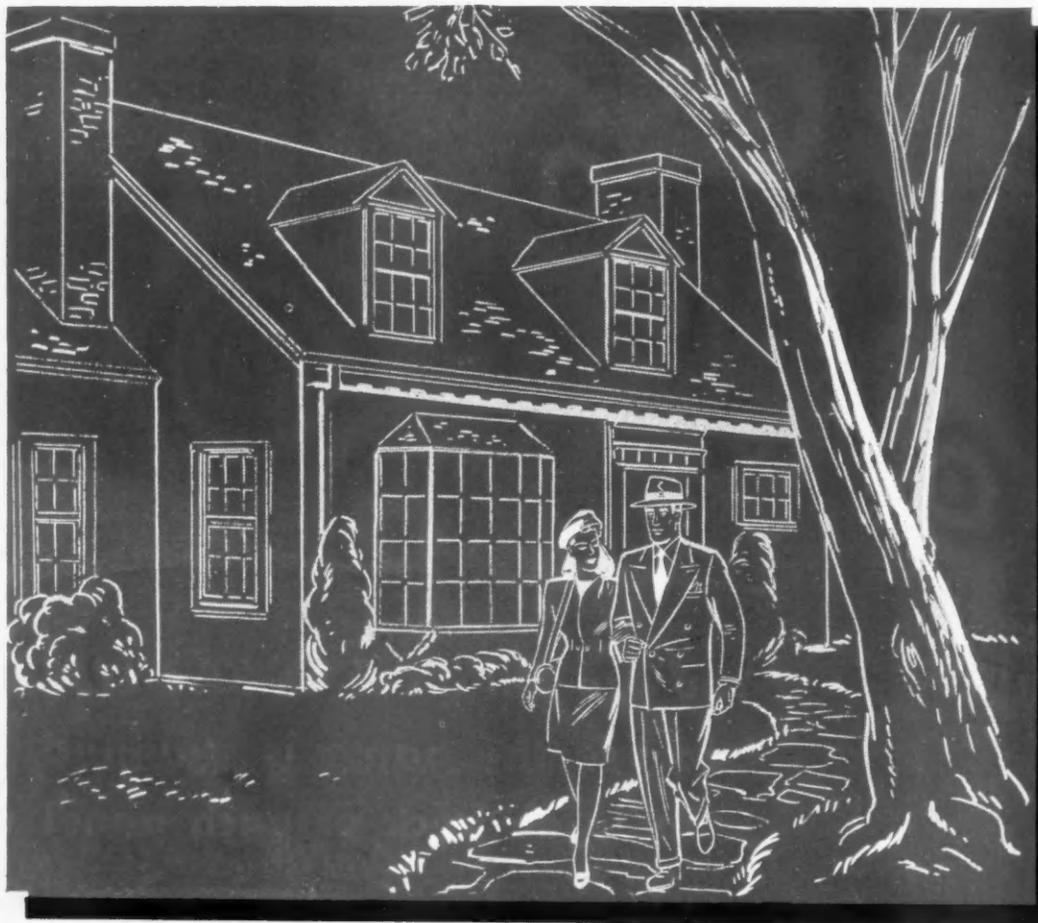


# **AETNA STEEL PRODUCTS CORPORATION**

EXECUTIVE OFFICES: 61 Broadway, New York 6, N. Y. • PLANT: Pottsville, Pa.



# Your best customers know and refer



WATCH FOR OUR ADS IN THE SATURDAY EVENING **POST**

WATCH FOR OUR ADS IN THE SATURDAY EVENING **POST**

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WATCH FOR OUR ADS IN THE SATURDAY EVENING **POST**

 People *pay attention* here

# we prefer Post-advertised products



When a manufacturer asks you to "watch for our ads in the Post," he's calling your attention to the *best* kind of local support.



For advertisements in the Post reach your *best* customers—the *leaders*, who are first to buy the new and better things.



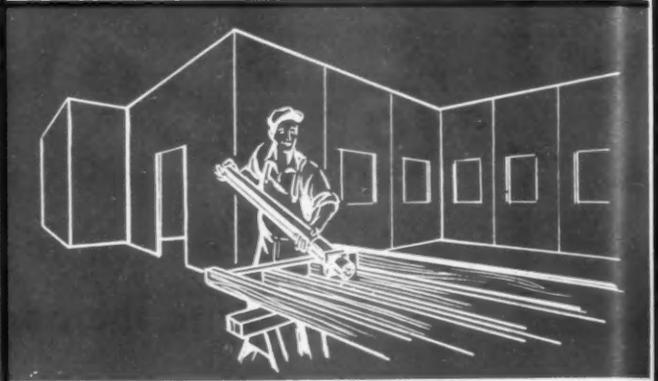
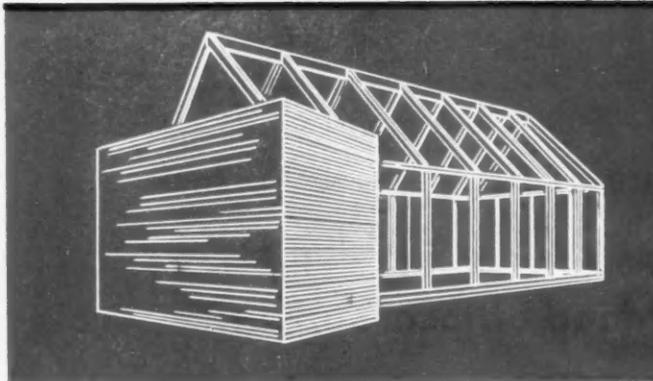
And advertisements in the Post get attention. For people *like* to read ads in the Post—far more than in *any other magazine*.



when they see it in the **POST**

# TREND

... wherever speed and sound construction are required ... is toward wood-and-Laucks Construction Glues.

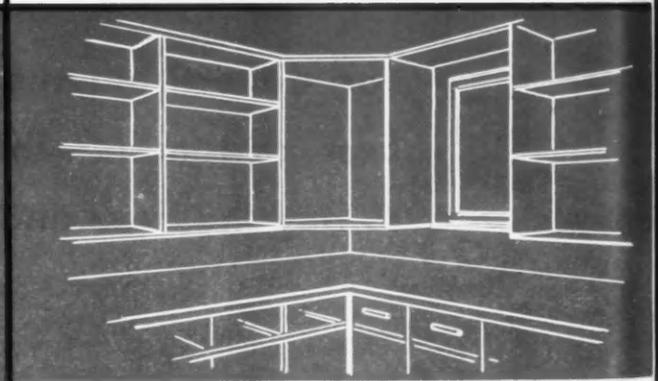
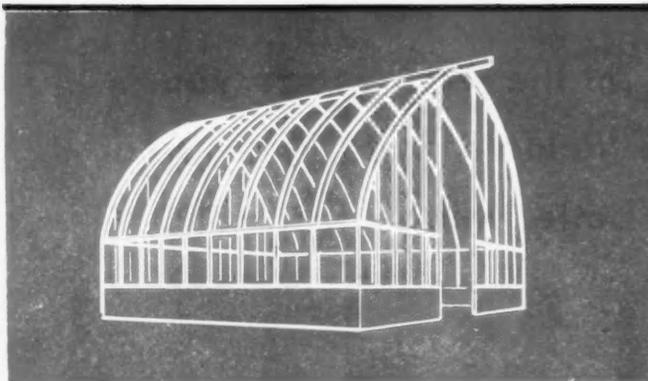


**TREND**

**In Plywood** ... millions of square feet of plywood laminated with Laucks waterproof, boilproof, fungusproof synthetic resin glues ... are going into America's new better-built homes for exterior and interior use.

**TREND**

**In Prefabrication** ... wall panels, sheathing, floor and roof sections, glued to framing are stronger, lighter-weight, more rackproof, and more easily decorated than conventional units.



**TREND**

**In Laminated Arches and Beams** ... strong, artistic arches and beams for hangars, schools, barns, churches, stores, factories, etc., are made possible with Laucks Construction Glues.

**TREND**

**In Construction** ... of wide boards from narrow ones, of assembly work, etc., for built-ins, cabinet work, better sash and doors, improved prefabricated units, Laucks Construction Glues are job-proved today by thousands of contractors.

To keep pace with the demand for housing, once it hits its stride, every contractor will be doing his utmost to improve his methods, speed his operations.

That's where Laucks Construction Glues will come to the fore again ... continuing the war-

proved techniques of wood-and-glue engineering into a new era of better peacetime housing.

Learn now how you can profit by these techniques ... how to select the proper glues, the proper plywoods for each building application. Address, "America's Glue Headquarters," today ...



In the West: Seattle 4, Washington; Los Angeles 1, California  
 In the East: Lockport, New York; Portsmouth, Virginia  
 In Canada: Laucks Ltd., Vancouver, B. C.; Stanbridge, Que.

Garage can't be painted in decorative

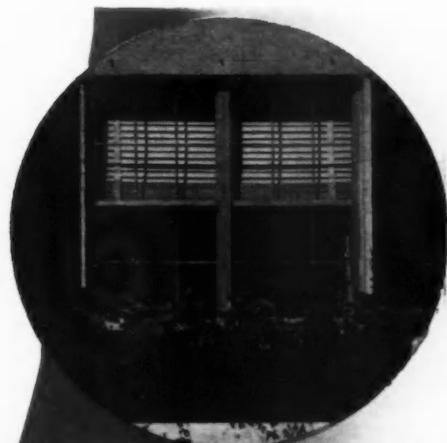
Lighting fixture

# THE MOST VERSATILE OF ALL BUILDING MATERIALS...

## Alcoa Aluminum

Surprising but true—Alcoa Aluminum is the most versatile of all building materials. What you can do with other metals you can often do better with aluminum—plus the fact—it can often be used to replace nonmetallic materials.

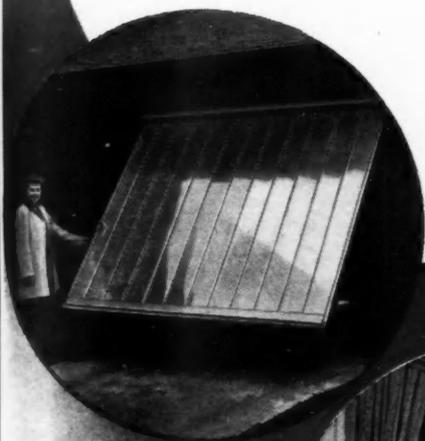
For residential construction alone there are scores of places inside and outside the home where Alcoa Aluminum can be used to advantage—saving construction costs, providing better appearance, reducing maintenance or assuring permanence. Aluminum adds selling features and wins the appreciation of satisfied home owners. ALUMINUM COMPANY OF AMERICA, 1914 Gulf Building, Pittsburgh, Pennsylvania.



Aluminum windows can't rust, rot or warp. They don't jam or stick. Never need painting. Operate smoothly.



For entrance doors . . . use aluminum. Aluminum doors are light, sturdy and attractive.



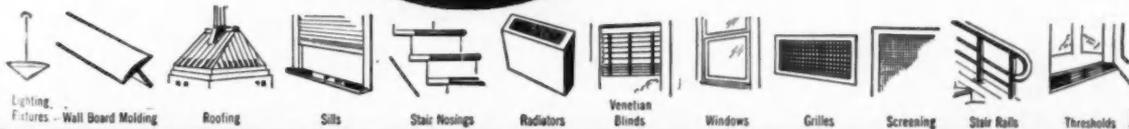
Garage doors of aluminum can't rust, rot or warp. No paint is needed unless for decorative purposes.



You'll see more and more aluminum hardware used. It will never rust or stain. It has a distinctive appearance.



Aluminum venetian blinds keep their attractive appearance for years to come.



# ALCOA FIRST IN ALUMINUM



In the East: New York, New York; Portsmouth, Virginia; Danbridge, Que.



News, Views  
and Comments

## On and Off the Record

### **BUREAUCRATS COST MONEY—**

It is going to take millions and millions more of the taxpayers' dollars to support the new horde of bureaucrats being added to the government payroll by the Civilian Production Administration in Washington and, up to early April, 71 other cities.

**ESSENTIAL BUILDING—**CPA, in this important election year when federal job holders can be expected to pay off as voters for present incumbents in federal offices, says that the new swarm of payrollers has the sole duty of passing on the essentiality of future building in an effort to channel scarce building materials into the Bowles-inspired Wyatt housing program.

### **POLITICAL SMOKESCREEN —**

A heavy smokescreen is a good cover-up until the wind changes direction. The political smokescreen now thrown out in the form of hocus-pocus about veterans' housing will be dissipated when veterans who need homes and apartments find out that all the Washington crowd wanted was to obscure their political jockeying until the fall elections.

**TAXES FOR VETERANS—**The attempt of CPA to channel nothing through a new and expensive bureau eventually will reveal itself to veterans as a device that produced no houses that would not have been produced faster and at less cost, but did saddle veterans with a new tax burden to wrestle with for the remainder of their lives.

### **750,000 DWELLING UNITS —**

That many units a year is the rate at which home builders swung into operation between September and December, 1945. That rate would, except for OPA policies, have increased to a million or more by this time, which is greater production of homes than Wyatt asked. Most of the houses started, however, are still incomplete because materials are not available, and the rate of building has levelled off for the same reason.

**INFLATION—**The only inflation in building costs today is that induced by OPA. Unworkable price policies have stalled production of materials, which in turn has caused costly stoppages that add heavy expenses to

building operations. These stoppages have been aggravated greatly by the diversion of great quantities of lumber to black market channels. Added to these factors many builders, unable to find moderately priced standard items, are forced to buy high price specialty items with which to complete houses.

**OPA POLICE—**A recent announcement stated that OPA was recruiting and training a force of 1500 enforcement officers to work in the Southern pine lumber producing areas. That means more payrollers, more taxes and negligible results. Black marketing in Southern pine is so extensive that more than 1500 enforcement officers would be required in any one of several dozen counties in the South.

**HIDDEN INFLATION—**Every expensive and futile device like the foregoing that OPA adopts is inflationary because eventually it has to show up in taxes.

**PROFIT CONTROL—**A shift in OPA policy from profit control to price control would solve the whole production problem and all of the local housing shortages, and at much less expense to veterans and all other home owners and taxpayers.

**STRIKES—**There may have been a time in the development of American industrial economy when an industry strike could be treated as an isolated dispute concerning only the employers and employees immediately involved. With the present interdependence of industry, however, a major strike in a key industry is a matter of national economic and social concern. Union leaders would be well advised to consider that fact from the standpoint of the welfare of their own members, and not to overlook the probability that their present policies are open invitations to social planners to regulate unions and perhaps take them over.

### **APARTMENT RENT CEILINGS—**

These work out nicely as another OPA inflationary measure. Thousands of apartment seekers know that apartments are available at ceiling rentals provided someone somewhere along the line is taken care of

with a cash donation. Perhaps the latest wrinkle is for an apartment seeker to openly post a bet of several hundred dollars that no one can find an apartment for him. It is not to be supposed that all janitors and renting agents will refuse to bet, particularly on a sure bet.

### **CPA UNEMPLOYMENT DRIVE—**

300 GI's in and near an Illinois town of 3000 people are jobless. A manufacturer bought 10 acres of ground, ordered \$56,000 worth of machinery, had plans drawn and let a contract for the construction of a steel and concrete factory—no home building materials required. No housing shortage in the town. Three ex-OPA clerks in CPA area office denied the manufacturer a permit to build. Result: machinery order cancelled, steel order cancelled, contract cancelled, town denied an industry, GI's denied jobs, and forced to move away to some place where there is a housing shortage, no new houses result, new vacancies created in one town, and shortage made more acute in others.

### **GOVERNMENT PROPAGANDA**

—Wilson Wyatt recently said, "No statistics are required to prove that a housing emergency exists. We read it in the headlines of every paper, we see it daily in cartoons, we hear it over the radio." With characteristic disregard for fact Wyatt again overlooks the difference between demand and need, and between emergency and shortage. And he does not explain that the headlines, cartoons and radio comments are all inspired by government propaganda agencies.

### **INDUSTRY PROPAGANDA—**

If the highly competitive building industry could afford to raise an amount of money for counter propaganda based on fact, to match the government program based on fiction, then pass the cost on to the consumers, as the government does by hiding propaganda costs in taxes, the headlines, cartoons and radio comments would tell a different and realistic story.

### **URBAN RESIDENCE PRICES—**

They are inflationary. They were made that way by government restrictions on urban building during the war, and not as implied by Chester Bowles, through the ruthlessness of selfish real estate interests. The Bowles economy of scarcity not only feeds the inflationary development but cheats thousands of veterans out of reasonably priced used houses.

### **HOUSING SHORTAGES—**

These differ neither in seriousness nor cause from shortages of all kinds from nylon hose to beef steaks. Preferred customers and black market channels are the inevitable results of choked supply, and choked supply is the result of New Deal meddling.

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This famous, all-purpose, low-cost

# DE WALT

will help  
build America's  
new homes  
*faster  
at lower cost!*

Make this DeWalt Builder's Saw the No. 1 tool on your power equipment list . . . and it will help you build your customers homes faster—better—and for lower costs than ever before!

The new model GE DeWalt, illustrated above, is available in 3 and 5 HP single-phase, capacitor motors—motors that have no brushes, no armature, no commutator to look after. Motor is totally enclosed, wound with Formex-Fiberglas insulation, and provided with grease-sealed-for-life ball bearings.

This DeWalt is a precision-built tool for builders. And you can buy it today at 1938 prices! Write for catalog now. Address: DeWalt Products Corporation, 15 Fountain Ave., Lancaster, Pa.

# DE WALT

|                     |                   |
|---------------------|-------------------|
| <br>IT CROSS CUTS   | <br>IT MITERS     |
| <br>IT RIPS         | <br>IT BEVEL CUTS |
| <br>IT CUTS RAFTERS | <br>IT BEVEL RIPS |
| <br>IT DADOES       | <br>IT PLOOGHS    |
| <br>IT SHAPES       | <br>IT ROOTS      |

*... it's a pre-cutting plant on the job!*

# The Douglas Fir Door Industry is 100% Behind the Housing Program

When Douglas fir stock doors are again readily available for general needs, you can be assured that they will be the finest doors which can be produced by modern precision methods. These sturdy, attractive, durable doors — made of all-heartwood Douglas fir — will feature:

## PRE-FITTING

Douglas fir doors will be available pre-fit to exact book size . . . ready to hang without on-the-job sawing and fitting.

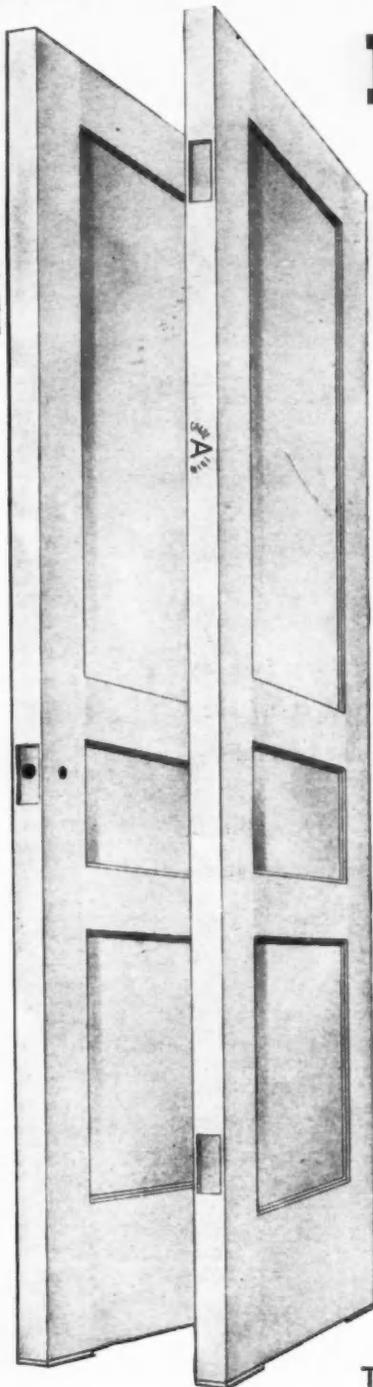
## PRE-SEALING

Douglas fir doors will be available pre-sealed . . . a feature which improves dimensional stability, reduces moisture absorption, and eliminates the need for one prime coat.

## FACTRI-FITTING

Douglas fir doors will be available completely machined on order — pre-fit, gained for hinges and mortised or bored for locks.

Doors will be grade-marked, of course—for ease in specification and ordering. Scuff-strips will protect the precision-cut corners during handling and shipping. They will be better doors in every way!



Pre-fit and Factri-Fit Douglas fir doors are being produced in increasing quantities for the Reconversion Housing Program now that raw material shortages and other bottlenecks are being solved. Doors for GI Housing will be available.

So that doors for the housing program can be shipped when needed, there may be further delays in filling orders for non-housing uses or for housing that does not come under the Reconversion Housing Program. Under these circumstances wholesalers, distributors and dealers will be delayed in building up inventories to pre-war levels. This may mean that for some months difficulty may be encountered in buying the exact design or type of door that you may want.

However, as production of Douglas fir Doors moves to pre-war levels, and higher, it should be ample to meet the huge demand for these fine, precision-made doors.

**Douglas Fir DOORS**

FIR DOOR INSTITUTE  
Tacoma 2, Wash.

Remember!  
NATURE MAKES  
DOUGLAS FIR  
Durable!

Double-Panel Fir Doors  
are made from all-heart  
wood, surface-sealed, and  
dressed with Douglas Fir.

The National Association of Fir Door Manufacturers

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**UNIFORM IN STRENGTH AND QUALITY**

**BUILD WITH  
STRAN  
STEEL**

In Stran-Steel, architects have a precision framing material that is not dependent on variables of growth or seasoning. Its uniformity and strength eliminate sag, warp, rot . . . safeguard the building investment and the builder's reputation.

Stran-Steel construction is not only permanent . . . it's fast and simple as well. Basic framing members are joists, channel plates and studs, cut-to-length for rapid assembly with ordinary carpenter's tools. Sheet-metal screws accomplish framing connections, while collateral materials are nailed directly to the Stran-Steel patented nailing groove.

Match good design with good materials. Build with Stran-Steel, the modern framework for better homes, apartment buildings and light commercial or industrial structures. For further details, see Sweet's File, Architectural, Sweet's File for Builders, or the January issue of Building Supply News.

**GREAT LAKES STEEL CORPORATION**

Stran-Steel Division • Penobscot Building, Detroit 26, Michigan  
UNIT OF NATIONAL STEEL CORPORATION



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*a little extra glass*  
 means easier,  
 more profitable sales!



Meals have an added enjoyment in pleasant surroundings. A Plate Glass picture window helps make the dining room bright and cheerful, and draws attention to an attractive view. Details at right show how easy it is to install.

EVERY nickel you spend for glass shows up in added sales appeal and added profit to you. Just a few glass installations—costing little extra money—dress up a house, make it look more modern, more luxurious. A *little extra glass* means a *lot* of extra charm.

There are many places, even in the lowest-cost homes, which can be improved with glass. A few glass blocks around the front door, a ready-built bathtub recess of Carrara Structural Glass, or a full-length door mirror in several rooms — each of these simple applications is an attractive, practical feature which will not fail to make a

favorable impression on prospective buyers or tenants.

Send the coupon below for our free booklet containing scores of suggestions for the use of glass in homes. It includes details like the one on this page showing exactly how each installation is made.

Pittsburgh Plate Glass Company  
 2093-6 Grant Building, Pittsburgh 19, Pa.

Please send me, without obligation, your new book on the use of glass in the home.

Name.....

Address.....

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

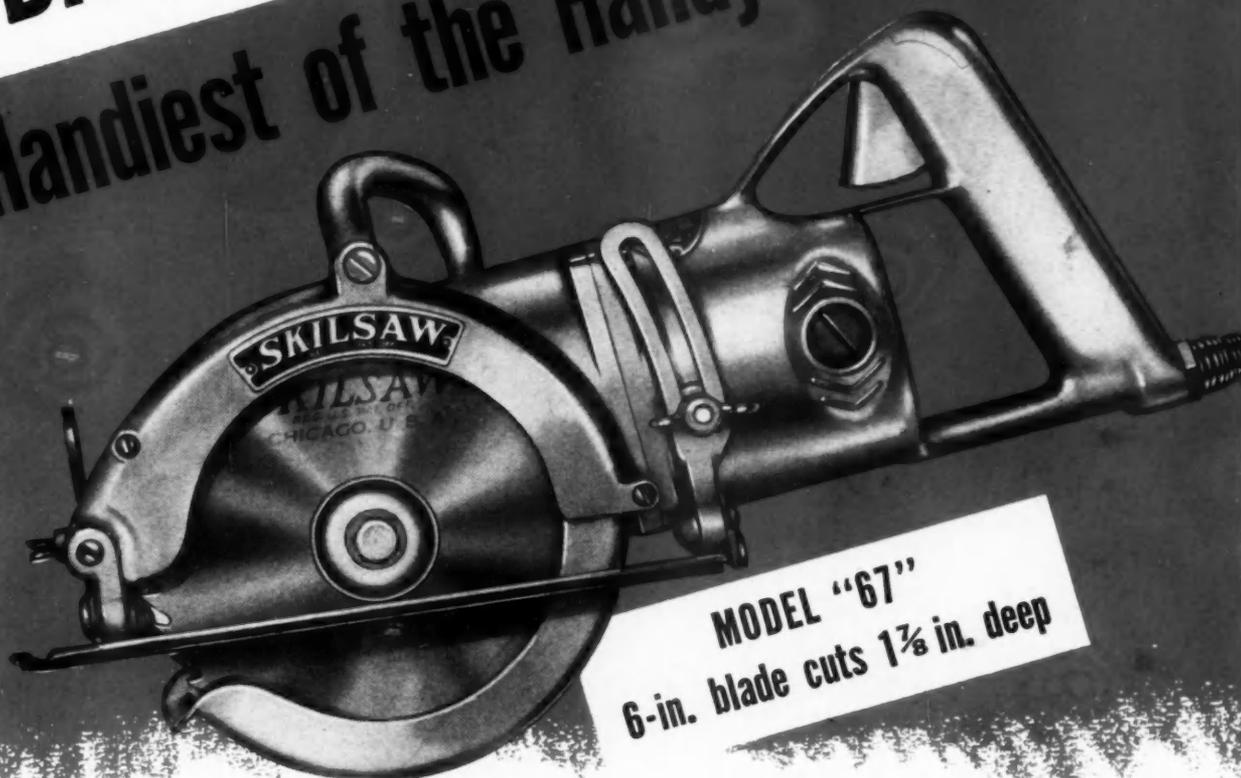


"PITTSBURGH" stands for Quality Glass and Paint

PITTSBURGH PLATE GLASS COMPANY

# BACK AGAIN!

## Handiest of the Handy SKILSAWS



MODEL "67"  
6-in. blade cuts 1 1/8 in. deep

• A real companion for your larger SKILSAWS... you'll want Model "67" for cutting sheathing, roofing, sub-flooring... to use on ladders, scaffolding, platforms. Only 15 1/2 inches long... only 11 1/2 pounds in weight... packed with the heavy duty power and stamina that have made SKILSAWS the first choice of builders everywhere for a quarter century. Like all SKILSAWS, Model "67" speeds your work and cuts your costs. Call your distributor today for a demonstration!

**SKILSAW, INC.** • 5033-43 Elston Avenue, Chicago 30, Illinois  
Factory Branches in All Principal Cities

PORTABLE ELECTRIC

# SKILTOOLS

MADE BY SKILSAW, INC.

SKILSAWS

SKIL SANDERS

SKIL NIBBLER

SKIL GRINDERS

SKIL DRILLS

★

★



## ONLY THE SPEAKMAN ANYSTREAM

is three different showers in one. A turn of the lever and it delivers



**REGULAR SPRAY** for *relaxation* ...



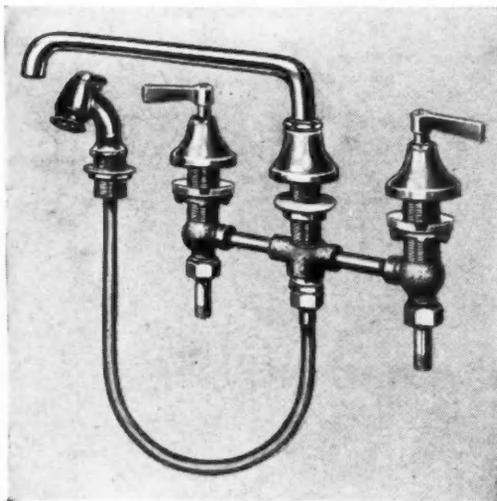
**NEEDLEPOINT SPRAY** for

*stimulation* ...



or **FLOOD SPRAY** for a *no-splash rinse*. In the **FLOOD**

position, the Anystream is *self-cleaning*.



S-4742 Speakman Utility Deck Type Sink Fixture with transfer valve, hose, and heat-resisting, self-closing, thumb-controlled spray. Handy for rinsing dishes, washing vegetables or watering potted plants, this quality fixture is a modern refinement of the sort women appreciate in the kitchen.

A shower head is but a small item among the many kinds of equipment that go into a house or apartment. However, quality in such details suggests the builder's integrity in every phase of construction. For this reason—the installation of Speakman showers and fixtures, with their reputation as “the best in brass,” can be the deciding factor in the completion of a sale or lease.

Speakman Showers and Fixtures are distributed nationally through plumbing supply dealers and plumbing contractors.

# SPEAKMAN

**SHOWERS AND FIXTURES**

*“The best in brass since 1869”*

SPEAKMAN COMPANY, WILMINGTON 99, DELAWARE

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# increasing the "life-expectancy" of wood



# SANTOPHEN 20

Wood lives longer when treated properly with suitable formulations of Santophen 20\*—Monsanto's pentachlorophenol, technical. It is effective when applied to exterior or interior construction, either below or above ground, or when exposed to sun and rain ... Used in suitable formulations, it does not discolor wood—treatment is clean—no objectionable odor remains—treated surfaces can be painted, puttied or varnished.

For descriptive literature on Santophen 20 and details of application and use, write MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

Reg. U. S. Pat. Off.



Santophen 20 controls destruction caused by insect attack and rot.



# ENTRANCES

## *that invite*

Will the new structures you design say "Welcome"? Will their main entrances be a permanent invitation to "come in," both for their tenants and their customers?

Whether your new buildings are "modern" or "traditional," smartly designed architectural metal work can do much to enhance their whole appearance.

There are many uses for architectural metals in every building. In addition to the entrance you can use them with great effectiveness in stairs, balustrades, grilles, windows, doors and all types of decorations, both interior and exterior.

Architectural metals offer you and your clients many outstanding features. Not only can they be fabricated to fit your own ideas of design but, in both ferrous and non-ferrous metals, they offer a wide range of materials, colors and other characteristics from which to choose.

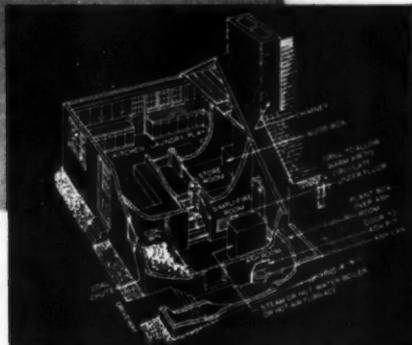
The manufacturers and fabricators of architectural metals are anxious to work with you, to offer helpful suggestions and to be of assistance in any way they can. Consult them whenever you plan new buildings.

Architects who are interested in obtaining a copy of the new Handbook on Stairs and Railings just published by the Association are invited to contact any of the members. For a Directory containing names and addresses of Leading Fabricators write to Dept. B-5.

NATIONAL ASSOCIATION OF  
**ORNAMENTAL METAL  
MANUFACTURERS**

209 CEDAR AVE., TAKOMA PARK WASHINGTON 12, D. C.

**Anthracite Institute  
presents Answer Home No. 1  
with the Simpli-Fire Room**



**SIMPLI-FIRE ROOM** . . . Here is the heart of the Answer Home. Note its compact simplicity. See how simple it is to feed the heater . . . how ash shovelling has been eliminated!

## Anthracite Simpli-Fire Room provides more house, more heat, for less money

HERE IS EXACTLY WHAT YOU, as a builder, have been looking for . . . a series of worth-while homes you can offer at costs within reason.

Anthracite Institute, alarmed at the soaring cost of home ownership, tackled the problem on the basis that heat is a necessity only part of the year; that money could therefore be saved on a scientifically engineered heating arrangement and *used to buy more house.*

The result is the Answer Home with the Simpli-Fire Room, one of the most far-reaching developments of years.

1. Conveniently located, a few steps down from the kitchen, the *Simpli-Fire Room* eliminates all need for the costly, old-fashioned cellar, saves construction time, *reduces the over-all cost of the house materially.*

2. Heating costs, too, are lower, since the Simpli-Fire Room is designed specifically for anthracite, the economy quality fuel.

3. With the Simpli-Fire Room, the use of anthracite is easier and more convenient than anyone ever dreamed. The storage bin is within easy shovel reach of the heater. Ashes fall into a light metal basket, which is removed *outside the house.* Ash shovelling is a thing of the past—along with dust and dirt!

4. Type of heating is optional . . . steam, hot water, or warm air. Specifications bearing the Seal of Approval of the Anthracite Institute are available for each system. Plenty of heat is assured with warm, healthful floors.

Answer Home No. 1, featured above, is beautifully planned, thoroughly modern—the type of house most in demand.

Builders are invited to write for definitive drawings, with details of the Anthracite Institute co-operation.

→  
**For FREE Plans of this  
Answer Home—and others—  
fill out, mail coupon today**

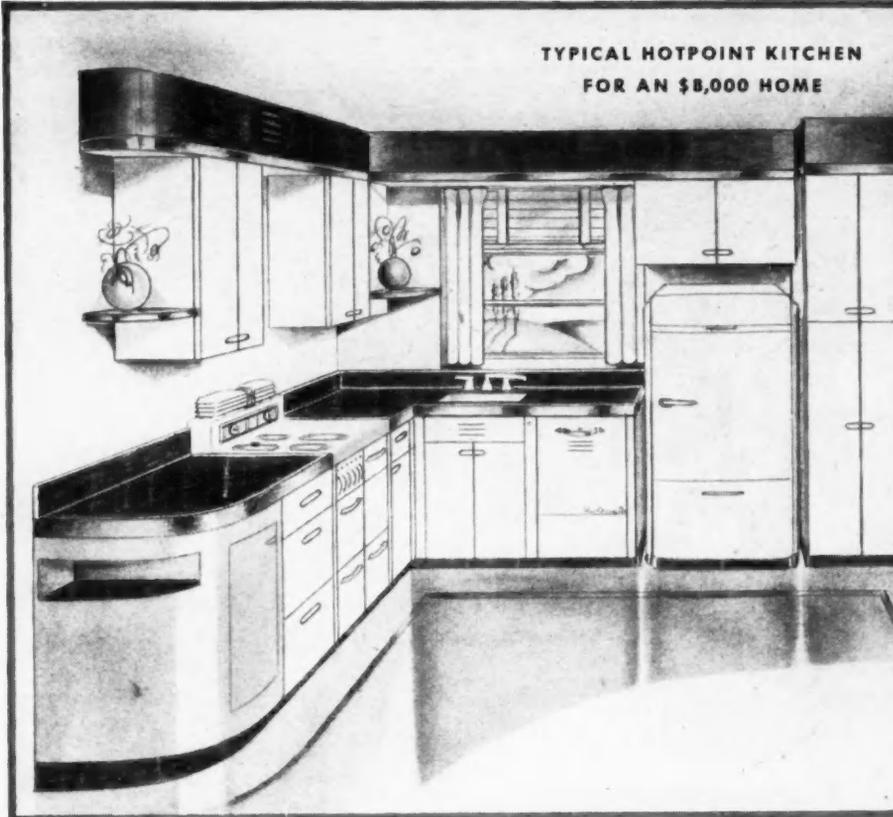
Anthracite Institute  
Department 511  
101 Park Avenue, New York

Please send me **free of charge** handsome 16-page color brochure showing Answer Homes 1, 2 and 3 with floor plans; also details of Simpli-Fire Room.

NAME \_\_\_\_\_  
FIRM \_\_\_\_\_  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_  
Please print carefully or type



**ANTHRACITE INSTITUTE**



TYPICAL HOTPOINT KITCHEN  
FOR AN \$8,000 HOME

| RECOMMENDED EQUIPMENT |      |                   |             |
|-----------------------|------|-------------------|-------------|
| ITEM                  | QTY. | DESCRIPTION       | CAT. NO.    |
| 1                     | 1    | RANGE             | 39"         |
| 2                     | 1    | REFRIGERATOR      | 6 cu. ft.   |
| 3                     |      | DISHWASHER-SINK   |             |
| 4                     | 1    | DISHWASHER        | 24" WIDE    |
| 5                     |      | DISPOSAL          |             |
| 6                     |      | CABINET SINK      |             |
| 7                     | 1    | SINK CABINET      | 21" "       |
| 8                     |      |                   |             |
| 9                     | 1    | BASE CABINET      | 24"         |
| 10                    |      |                   |             |
| 11                    |      |                   |             |
| 12                    |      |                   |             |
| 13                    |      |                   |             |
| 14                    | 1    | COR. BASE CABINET | 43" "       |
| 15                    | 1    | UTILITY CABINET   | 84" x 24"   |
| 16                    | 1    | WALL CABINET      | 24" "       |
| 17                    | 1    | " "               | 30" "       |
| 18                    | 1    | " "               | 18" x 36" " |
| 19                    |      |                   |             |
| 20                    |      |                   |             |
| 21                    |      | COR. WALL CABINET |             |
| 22                    | 1    | FILLER            | BMF 34"     |
| 23                    | 1    | " "               | USF 84"     |

**Hotpoint** KITCHEN PLANNING SERVICE  
COMMERCIAL ENGINEERING DIVISION  
DRAWN *James T. Jones*  
APPROVED *J. Gotsch*  
DWG. NO. AKL 45445 DATE 7-21-45  
EDISON GENERAL ELECTRIC APPLIANCE CO., INC.  
8600 WEST TAYLOR STREET CHICAGO, ILLINOIS

## Plan an ALL-ELECTRIC KITCHEN for the completely modern home!

POPULARITY of the all-electric kitchen is rapidly growing. The boom in ultra-modern bathrooms after the last war has been surpassed by the prominence of the planned, functional kitchen in this postwar period — an important factor for architects and builders to consider in home designing. With this in mind, Hotpoint has prepared a *Portfolio of Personalized Kitchen Plans* that is a valuable guide in designing kitchens for all income brackets. For your copy of this interesting *Portfolio*, attach the coupon at right to your letterhead and mail to us today.

### ELECTRIC KITCHEN POPULARITY IS ASSURED

Powerful advertising backs this growing trend and strong promotions will continue. Hotpoint has spent over a million and a half dollars in national advertising to intensify interest in electric kitchens. Leading magazines and newspapers have featured articles that focused attention on the place of the all-electric kitchen in the completely modern home. Over two million prospects have been given the booklet "Your Next Kitchen" by Hotpoint to consider before building or remodeling.

**HOTPOINT REGIONAL SALES OFFICES.** EASTERN: 570 Lexington Ave., New York City 22, Plaza 3-9333. SOUTHERN: 304 Red Rock Bldg., Atlanta 3, Walnut 2959. CENTRAL: 1456 Merchandise Mart, Chicago 54, Superior 1174. WESTERN: Western Merchandise Mart, 1355 Market Street, San Francisco 3, Underhill 2727.

In most states, all Hotpoint kitchen equipment can be included in F.H.A. insured mortgages.

**Hotpoint**  
ELECTRIC KITCHENS  
DEPENDABILITY ASSURED BY  
40 YEARS EXPERIENCE

**PLAN KITCHENS FOR THE 77%**  
"More than seven out of ten modern homes will cost \$3,000 or over," predicts the United States Chamber of Commerce. That means 7 out of 10 builders can afford, and will probably demand, an all-electric kitchen.

The Hotpoint Institute  
5641 West Taylor Street, Chicago 44, Illinois

Without obligation, please send me your *Portfolio of Hotpoint Personalized Kitchen Plans*. This offer available in United States, Territory of Hawaii and Alaska.

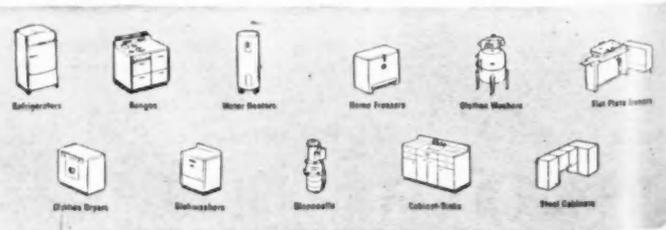
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Firm Name \_\_\_\_\_

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Copyright, 1946 Edison General Electric Appliance Co., Inc., Chicago



May 1946

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GET IN WHERE YOUR

SALES *Begin*

Don't sell building materials and supplies *after* the house is up. You've got to get in on the planning if you want to cash in on the building.

That's why The American Home is so important to you. Because this big magazine is the very cornerstone upon which home-builders' plans are built. They read it, study it, clip it and paste up their dreams in scrap-books.

2,350,000 of America's best able-to-buy families make it their text-book. Today — right now — more than 600,000 of these families are planning new homes . . . and 250,000 of them have already bought the real estate.

That's why The American Home carries more building materials advertising than any other magazine.



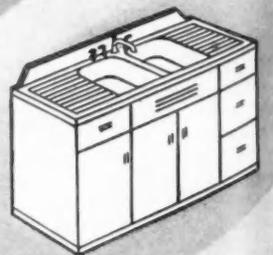
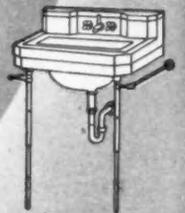
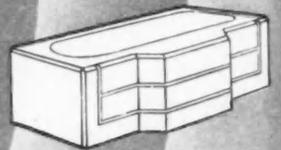
FIRST IN THE BUILDING FIELD

Our  
business is  
**PLUMBING  
FIXTURES**

**... and it's a full-time job!**

Eljer is engaged solely in the manufacture of fine plumbing fixtures and brass trim. Production is coming along at a gratifying rate.

With Eljer you'll go ahead. Ally yourself with this complete line of Vitreous China and Enameled Cast-Iron Fixtures. For complete information, see your nearest Eljer wholesaler or write to us direct. Eljer Co., General Offices, Ford City, Pennsylvania.



**ELJER CO.** . . . FACTORIES AT  
FORD CITY, PA. • SALEM, OHIO • LOS ANGELES, CALIF.  
SINCE 1907 MAKERS OF FINE PLUMBING FIXTURES



NEWS O

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## Cortright's Column



By Frank Cortright

Executive Vice President  
NAHB

Disguised in the Wagner-Ellender-Taft bill, amidst the eighty odd amendments to other laws is an authorization for the expenditure of over \$6,800,000,000 in taxpayers money during the next 45 years for slum clearance and public housing both urban and rural. It provides employment when the need is for skilled labor. It offers federal loans when private banking institutions are bursting at the seams with tens of billions of dollars earmarked for home buying and mortgage investment. It pleads for veterans' preference but provides additional competition for them in seeking new housing. Should it eventually become law, it would create confusion, greater competition for building materials, and do much to destroy private construction and private financing.

It is essentially long-range social theory and social planning and is not a remedy or solution to any of the basic problems of the present housing emergency. Since the bill authorizes large additional amounts of public housing construction during the coming five years, it will actually create a competition for labor and materials between this type of construction and construction of private homes and apartments for veterans' ownership and occupancy.

It would authorize additional federal guarantee of housing construction money at a time when the over-abundance of money for this purpose versus the amount of housing materials and labor is already encouraging black markets and threatening inflation. Since Title VI is included in the Patman Bill there is no need now for the types of financing aids to private enterprise which this bill proposes. The Wagner-Ellender-Taft Bill was not written or ever intended as a solution to the housing emergency. It is an attempt to change the entire aspect of the home construction industry. The arguments for or against these changes should not be confused with the emergency problem and, at the earliest, should not be debated or voted until the worst of the housing shortage has been corrected.

## Dallas Plans on-the-Job Training Program

The Home Builders Association of Dallas is attempting to arrange with the Veterans Administration so that every builder member of the association will be certified and qualified to give veteran training on the job. The building contractors will be giving the veterans apprentice training for the different building crafts and, if the program is successful, the Veterans Administration, in addition, would pay subsistence benefits, and furnish the apprentice veteran with up to \$100 worth of necessary tools.

If this Dallas plan is successfully organized it will provide a precedent whereby any of the other associations who are interested will be in a position to establish similar programs.

## Fort Worth Builders Have New Secretary

Julian C. Harris, Jr., has been named the executive secretary of the Home Builders Association of Fort Worth.

Mr. Harris is a native of Fort Worth, having attended high school there and Texas A & M College. His business career began with his father's brick and tile sales firm, which position he left to join the Athens Brick and Tile Co. He remained with the firm until his entrance into the Army in 1942. He was discharged from the service as a captain on December 24, 1945.

## Cleveland Secretary Wins NAHB Publicity Award

The National Association of Home Builders awarded a prize for the best collection from the secretaries of press notices concerning the convention. The winner of the award was James Funaro, executive secretary of the Home Builders Assn. of Greater Cleveland.

The scrapbook that won the \$25 check was entitled "On To Chicago" and contained releases that were published in all of the Cleveland papers. Even with a press "blackout" from Jan. 5 to Feb. 6, Jim Funaro came out ahead.

## Chicago Nominating Committee Elected

At its regular meeting in March, the Chicago Metropolitan Home Builders Association elected a nominating committee to select a slate of officers and directors of the association, and directors and alternates of the National association.

The persons elected to serve on the committee are:

Irvin A. Blietz, Nathan Manilow, Martin H. Braun, George F. Nixon, E. C. Mahoney, E. J. Sullivan and John H. Sullivan.

The committee will meet and report a selection in the near future.

The committee will meet and organize, choosing its own chairman and secretary, and report a selection shortly.

## Survey of Building Materials Conducted by Denver Association

Denver builders, acutely aware of the need to house veterans as well as others in search of living accommodations, have a housing program under way. According to a survey they made, if OPA policies were revised to permit and encourage production instead of creating a bottleneck at the manufacturing level, this program would produce more houses for Denver this year than are contemplated in the Wyatt program.

In making the survey they contacted 214 builders, of whom 110 are actively engaged in home construction at the present time. The 110 builders contacted reported that they have under construction a total of 1834 dwelling units of which 1446 are individual homes. Of the 1446 homes, 738 are at a standstill because of lack of labor and material. While the 738 mentioned may, in the course of time, obtain the particular material which is holding up construction, it does not mean that they will be able to complete construction when that item is obtained because they will run into a bottleneck on some other material. In order to complete the 1834 units mentioned, the following materials are necessary: Face brick—5,336,334; cinder block (backing)—785,934; backing brick—879,934; sash (wood & steel)—9,264; rocklath—254,044 sq. yds.; dry wall board—1,270,222 sq. ft.; nails—4,428 kegs; dimension lumber—4,281,000 bd. ft.; rough lumber—3,672,366 bd. ft.; finish lumber—348,079 bd. ft.; flooring—1,160,301 bd. ft.; doors, outside—2,136; doors, inside—11,817; siding—362,300 bd. ft.; plywood—98,721 sq. ft.; bathtubs—1,068; soil pipe—45,134 l.f.

They report that in obtaining the necessary materials they are running into two difficulties—first, the scarcity of materials themselves; and, second, their inability to obtain what materials there are for these particular homes because of the provisions of Priorities Regulation 33.

Of the 1446 individual homes mentioned, 1248 of them have a sale value of \$10,000 or less, and they are broken down as follows: 38 for \$5,000 or less; 124 for \$5,500 or less; 242 for \$6,000 or less; 50 for \$6,500 or less; 36 for \$7,000 or less; 252 for \$7,500 or less; 146 for \$8,000 or less; 134 for \$8,500 or less; 30 for \$9,000 or less; 140 for \$9,500 or less; 56 for \$10,000 or less.

The builders have a program for 1946 which calls for the construction of 4228 dwelling units of which 3868 will be individual homes. Of the 3868 homes, 3704 will be sold for \$10,000 or less and are broken down into the following categories: 70 for \$4,000 or less; 936 for \$5,000 or less; 431 for \$5,500 or less; 311 for \$6,000 or less; 197 for \$6,500 or less; 213 for \$7,000 or less; 293 for \$7,500 or less; 120 for \$8,000 or less; 421 for \$8,500 or less; 211 for \$9,000 or less; 447 for \$9,500 or less; 54 for \$10,000 or less.

This information was incorporated in a letter which the Denver Association of Home Builders sent to Wilson Wyatt, National Housing Expediter.

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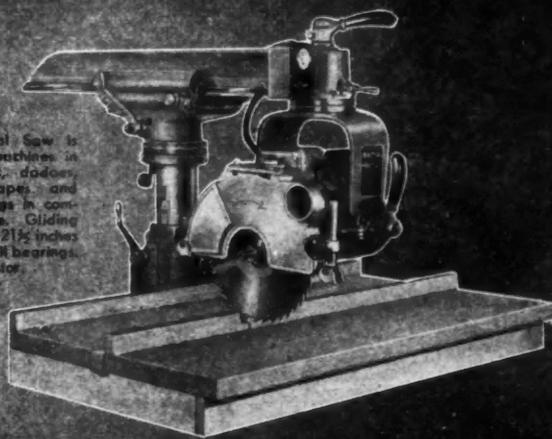
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W-T Radial Saw is really 5 machines in 1. It saws, dodges, miters, shapes, and routs. Swings in complete circle. Gliding ram moves 21 1/2 inches on eight ball bearings. Geared motor.



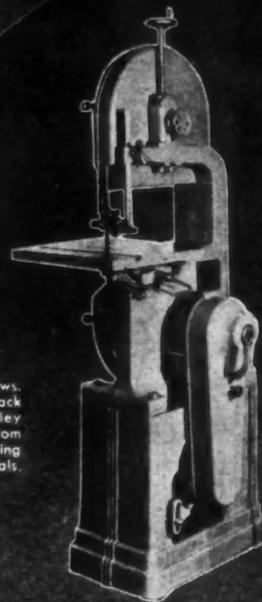
# Walker-Turner WOOD WORKING MACHINE TOOLS Cut Costs at Every Turn

**WOOD · PLASTICS · METALS · CERAMICS**

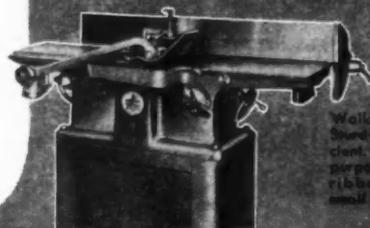
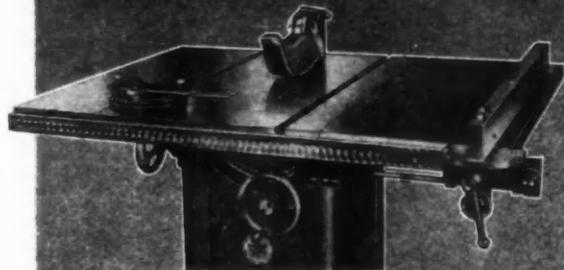
ON building construction operations these Walker-Turner Woodworking Machine Tools are fast and accurate. The W-T Radial Saw is typical. All the framing for the average house can be cut in one-fifth the time (or even less) required by hand methods. And the cutting is far more accurate, the members fit perfectly and the finished job is better. All Walker-Turner Machine Tools have such wide ranges of cutting speeds that they permit the most economical speed for any material. Easily operated by semi-skilled or unskilled labor. Send for address of nearest W-T distributor.

**WALKER-TURNER COMPANY, INC.**  
PLAINFIELD, N. J.

Walker-Turner Band Saws, 14" and 16" models. Back gearing and cone pulley provide speed range from 61 to 5300 S.F.M.—cutting speeds for all materials.



Walker-Turner Truing Arbor Saw. Easily portable. Choice of Scrape or Geared Motor Drive. Full 12" in front of saw blades. Perfectly balanced.

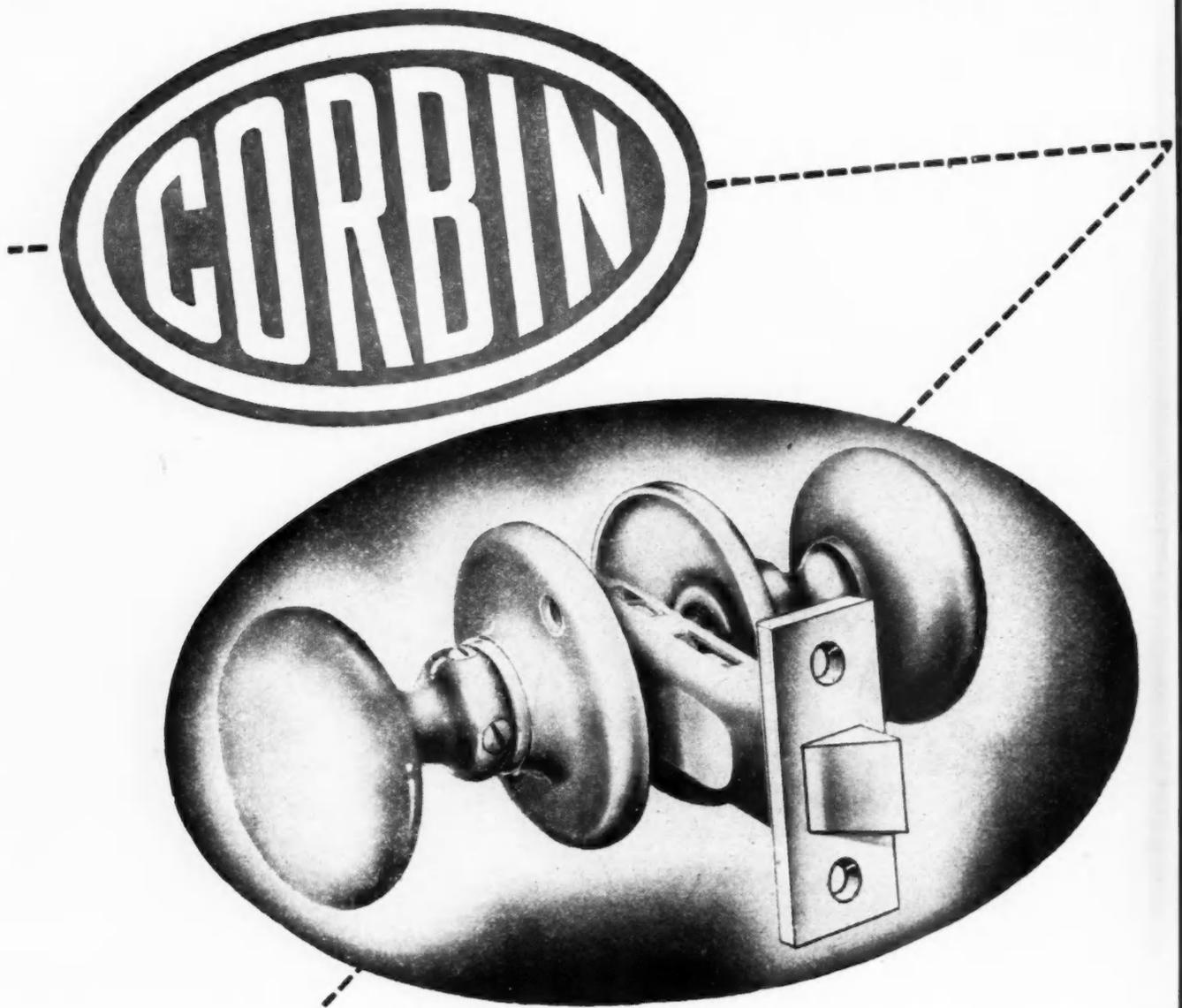


Walker-Turner Jointer. Sundry, accurate, efficient. Patented dual-roller guide. Plans ribbon-thin. Handles small sizes.



# MACHINE TOOLS

DRILL PRESSES — HAND AND POWER FEED • RADIAL DRILLS  
METAL-CUTTING BAND SAWS • POLISHING LATHES • FLEXIBLE SHAFT MACHINES  
RADIAL CUT-OFF MACHINES FOR METAL • MOTORS • BELT & DISC SURFACERS



## **NEW** Corbin tubular latch set for easy installation on low-cost home and commercial construction

It takes you no longer to install the new, improved Corbin Tubular Latch Set — but the added strength of the vital parts means a sturdier tubular latch set that will give added years of service to the home owner. All sizes are standardized to fit the time-saving pre-mortised doors specified by the Fir Door Institute.

The excellent performance of this new Corbin

### **Functions For Every Need**

# 345 Standard Latch Set

# 345½ Closet Latch Set

# 359 Bedroom or Bathroom Latch Set, with locking button and emergency unlatching device.

Tubular Latch Set has been achieved as a result of three new Corbin features:—(1) Reinforced latch bolt; (2) Extra large hub arms; (3) Cold rolled steel shoe and lever for retracting the latch bolt. In addition, CORBIN'S newly designed square face and curved lip strike with square ends to match has been incorporated.

## **P. & F. Corbin**

DIVISION AMERICAN HARDWARE CORPORATION  
NEW BRITAIN, CONNECTICUT

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That trim industrial plant above is fully asbestos-clad, with its "Century" Asbestos Shingle roof atop four walls of APAC, the versatile *asbestos-cement* building sheet. That kind of combination is really TOUGH on rodents, fire, termites and weather.

Builders like "Century" APAC because it's so EASY to handle . . . so EASY to cut to size and shape . . . so EASY to apply . . . it's the ideal sheet material to use wherever flat surfaces are planned. Here are a few suggestions:

**HOMES** . . . porch skirting; interior walls, ceilings, partitions, floor underlayment, wainscoting and table tops.

**INDUSTRIAL BUILDINGS** . . . Exterior siding; office panelling; fire-resistant sheathing in machine shops, stock rooms and storage bins; lining for elevator casings and shower stalls.

**FARM BUILDINGS** . . . roofs and sidewalls of barns, poultry houses, cattle sheds, dairies, corn cribs.

**APAC** also comes Pre-Drilled, with nail holes correctly spaced for easy application. It costs but little more than standard APAC.

★ ★ ★

Original manufacturers of Asbestos-Cement Roofing Shingles in this country

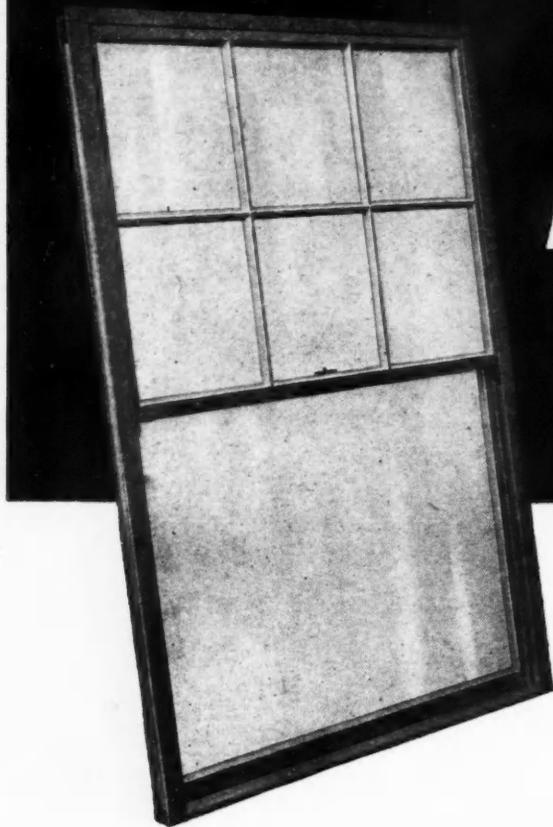
**KEASBEY & MATTISON**  
**COMPANY • AMBLER • PENNSYLVANIA**

**FEATURES OF**  
**"Century" APAC**

- Made of Asbestos Fibre and Portland Cement.
- Pleasing light gray color.
- Fire-resistant and durable.
- Convenient size — 4' x 8'.
- Three thicknesses — 3/16", 1/4" and 3/8".
- Low cost.
- Rat and termite proof.
- Easy to cut, handle and apply.
- Fastens with nails or screws.
- Practically no maintenance required.



*Easy to handle... Easy to install*



# ALWINTITE ALUMINUM WINDOWS

*save valuable time*

Here are features every builder appreciates—especially with today's high labor costs.

ALWINTITE Aluminum Windows are light weight and extremely easy to handle. They are supplied completely assembled, ready to erect. There's no hardware to apply, no pulleys, weights or cords to install. Just set the window in place, anchor it with nails, or wood screws and the job is finished.

And that's not all—ALWINTITE Aluminum Windows require no painting—either at the time of installation or ever after. Think what a saving this will mean to you as well as the new home owner.

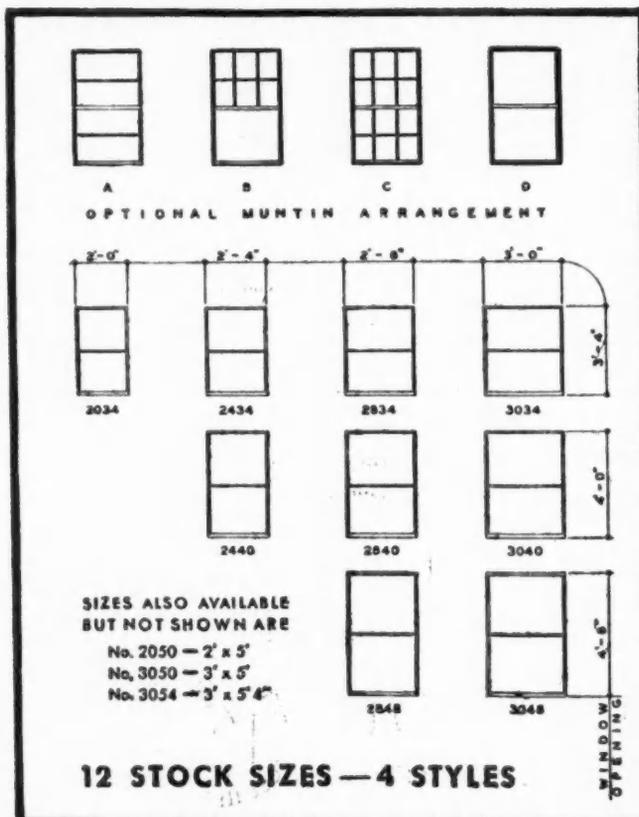
ALWINTITE Aluminum Windows are priced low enough to permit their use in even moderate and low cost homes. You can use them, too, for apartments and other residential buildings.

As production is accelerated ALWINTITE Aluminum Windows will be warehoused and distributed nationally by leading building supply firms. For complete information and for name of your nearest distributor, write to Dept. AB-5.

## THE ALUMINUM WINDOW CORPORATION

A subsidiary of General Bronze Corporation

34-21 Tenth Street Long Island City 1, N.Y.



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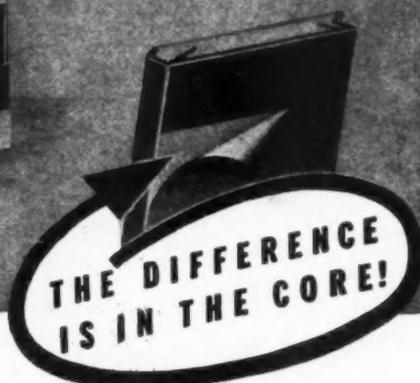
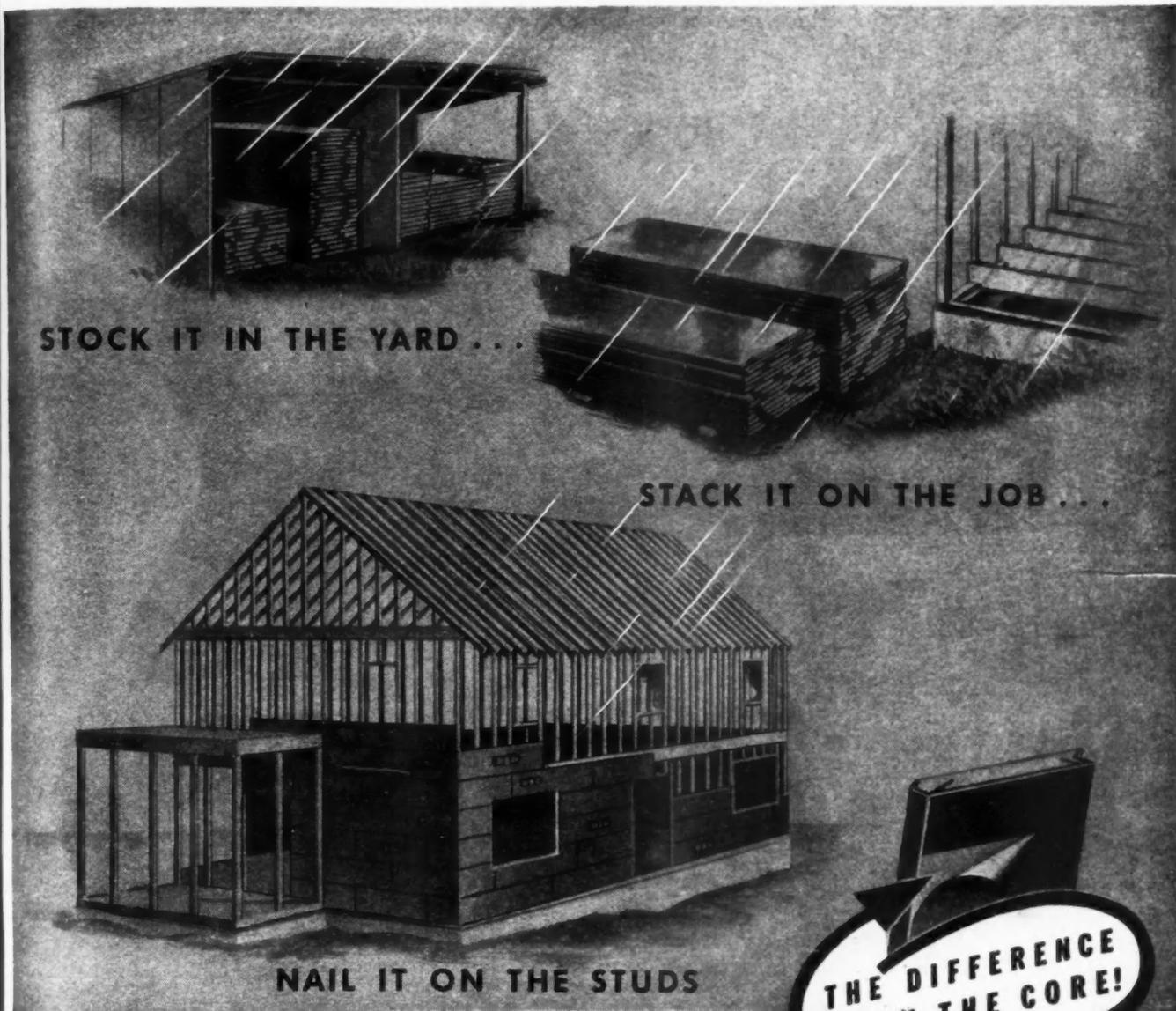
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**IT WEATHERS ALL WEATHER**  
**U·S·G SHEATHING**  
 with the Asphalted-Gypsum Core

No need to let weather delay jobs. No need to pamper sheathing. Not when you use this new product with the asphalted-gypsum core. In just 15 days, U-S-G\* laboratories drove 165 inches of simulated rainfall against big panels of U-S-G Sheathing . . . subjecting it to more "rain" than the average United States locality receives in 5½ years. Absorp-

tion by weight was only 3.4%, there was no buckling, no warping, no opening of joints and the wet 8' x 8' panel withstood a load of 1,850 pounds with a lateral deflection of only 1.125 inch. Available in limited quantities. Ask your U-S-G salesman for test-it-yourself samples and merchandising helps, or write 300 West Adams Street, Chicago 6, Ill.

\*Reg. T. M.



**United States Gypsum**

**For Building • For Industry**

Gypsum • Lime • Steel • Insulation • Roofing • Paint

As the gypsum core mix is formed, waterproof asphalt is dispersed throughout. Panels have great bracing strength even when wet.



**FIREPROOF.** The gypsum makes these panels fireproof, helps protect all kinds of frame construction. No building paper needed.



**CUTS SHEATHING COSTS 1/3 to 1/2.** One man can handle the 1/2"x2'x8' panels, cutting and nailing right on the studs. You can use brick, wood, asbestos, stucco or stone exteriors.



## CONCRETE HOMES *can be beautiful*



The attractive low cost home above is a typical example of available concrete, *made lastingly beautiful* with Medusa Portland Cement Paint.

Easy to use, inexpensive in first cost, Medusa Paint adds charm to your construction — a charm that gets the approval of the home owners, for there are eight distinctive colors, black and white to distinguish your construction and give it beauty along with the advantages of water-resistance plus weatherproofing.

And it's easy to use, too. It mixes with water — is sprayed or brushed on damp or dry, inside or outside concrete, stucco, or masonry surfaces — saves time because it is used on new damp concrete and can even be applied on damp days!

Medusa Paint has a Portland Cement base — the same material, but triple ground — that's used in concrete itself. That's why there is a perfect marriage of paint and concrete.

Ask your concrete block manufacturer or write today for the helpful book "Painting Concrete, Stucco, or Masonry". It's packed with Medusa's years of Cement Paint experience, and shows the way to more sales for you in concrete.



# M E D U S A

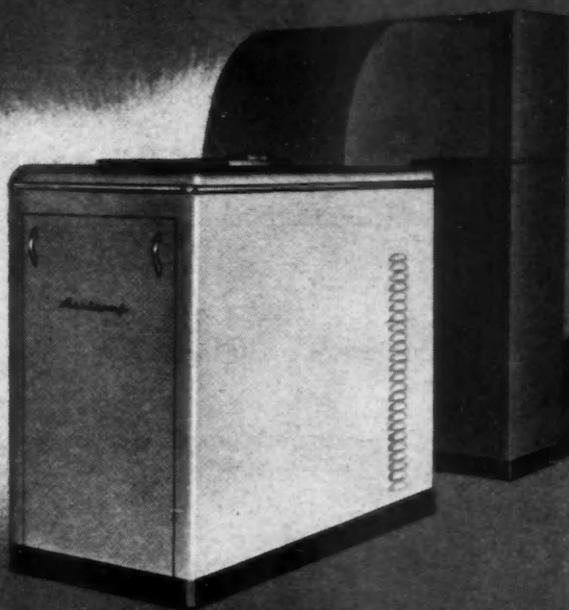
## PRODUCTS DIVISION

MEDUSA PORTLAND CEMENT COMPANY  
1002 Midland Building, Department "D", Cleveland 15, Ohio

Also made by Medusa Products Co. of Canada, Ltd., Paris, Ontario

"FIFTY-FOUR YEARS OF CONCRETE PROGRESS"

# CHRYSLER AIRTEMP



**CENTRAL  
HEATING**

*Ready for*

**SUMMER  
COOLING**

## *Add the Cooling Any Time*

Here's automatic central home heating that is not only up to the minute by today's standards, but also by tomorrow's. It's an advanced heating installation all ready for the addition of summer cooling — a development of Chrysler Airtemp. Behind it stands Chrysler Corporation with its famous reputation for engineering and mass production skill—your assurance of dependability at low price.

The heating is gas, coal or oil fired warm air—a streamlined, modern furnace by Chrysler Airtemp. The cooling addition is a "Packaged" Air Conditioner, pioneered by Chrysler

Airtemp, which uses the same ducts, blower and filters as the heating system.

This is just one of a long line of Chrysler Airtemp products for better home comfort. There is automatic central heating equipment for gas, oil or coal and for warm air, steam, hot water or vapor systems—models for large or small homes. Chrysler Airtemp also offers oil fired water heaters and conversion oil burners for modernization of old heating plants. Airtemp Division of Chrysler Corporation, Dayton 1, Ohio. In Canada: Therm-O-Rite Products, Ltd., Toronto, Ont.

"REMEMBER THURSDAY NIGHT! The music of Andre Kostelanetz and the musical world's most popular stars—Thursdays, CBS, 9 P.M., E.S.T."

**A I R C O N D I T I O N I N G**  
HEATING • COOLING • REFRIGERATION

# When you plan a playroom...

When the guests have gathered and the games are on, nobody likes to hike upstairs to answer the telephone or make a call. Naturally, the alert architect realizes this and plans for a telephone outlet in the playroom as well as in other convenient locations.

Built-in conduit to carry telephone wires within the walls, with telephone

outlets at all handy locations, are a mark of good planning and sensible construction. Prospects will expect these features — in small homes as well as large ones. The cost is small for the extra convenience and room beauty.

Your Bell Telephone Company will be glad to help you plan for them. Just call your Telephone Business Office.



Room planned by George Daub, Philadelphia, Architect

**BELL TELEPHONE SYSTEM**



America  
WHY

“W  
rites  
saved  
attract  
our sa  
“W  
enterp  
supply  
the cl  
Home

# WHY PROMINENT BUILDERS USE YOUNGSTOWN KITCHENS



One of the dozens of Braun-built homes in Oak Park. The well arranged Youngstown Kitchen is shown at the left.

**MARTIN H. BRAUN**, well-known architect and builder in one of Chicago's most attractive suburbs, Oak Park. Every Braun home built before the war had a Youngstown Kitchen.



## "Save many hours of labor... make a more attractive job"

—MARTIN H. BRAUN, Oak Park, Ill.

"**W**E HAVE used Youngstown equipment exclusively in all our homes," Mr. Braun writes. "The simplicity of installation has saved us many hours of labor, and the attractive finished kitchen substantially helps our sales."

"With equipment such as this, private enterprise can handle the tremendous job of supplying much needed housing, and realize the chief aim of the National Association of Home Builders—providing better homes

wherever they are needed, at lower cost."

Your own homes will have greater appeal for buyers, and cost you less to build, if you install Youngstown Kitchens. All the facts are ready for you, in an interesting booklet, "The Builder's Kitchen." Your request will bring a copy.

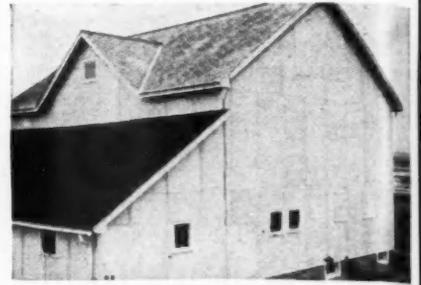
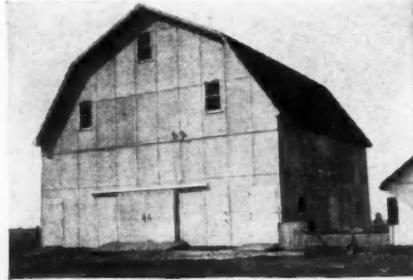
**MULLINS MANUFACTURING CORPORATION**  
Warren, Ohio

Porcelain Enameled Products—Large Pressed Metal  
Parts—Design Engineering Service



# Youngstown Kitchens

BY MULLINS



# ANOTHER STONEWALL SUCCESS STORY!

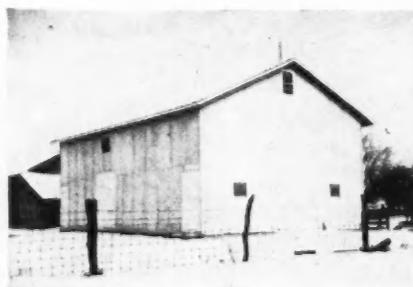
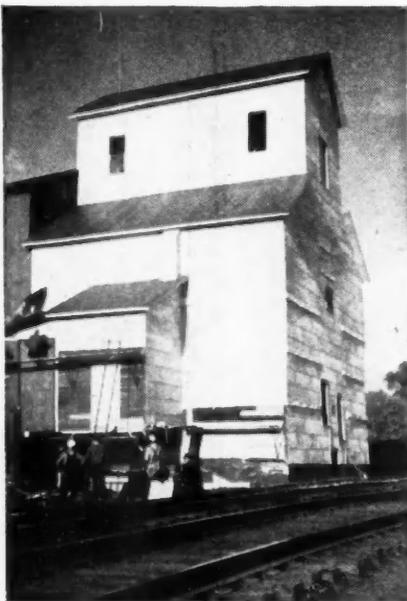


## UP TO JUNE, 1944—

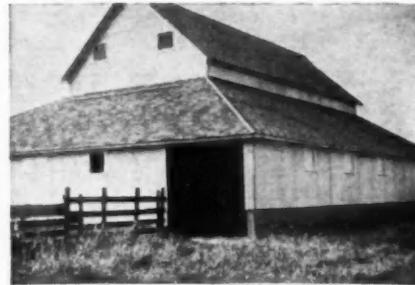
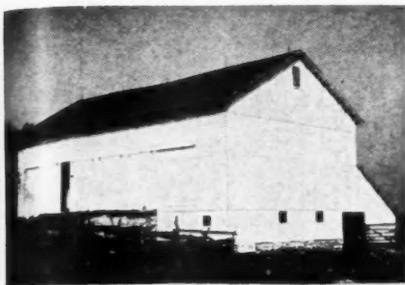
O. Frank Heinz of Peoria, one of Illinois' most prominent contractors, had never worked with Stonewall. Then the Ruberoid dealer at Eureka, Ill., heard about a job, proposed Stonewall, and sold Heinz about 15,000 feet for the purpose. Mr. Heinz was quite doubtful about the outcome because of lack of previous experience with the material. But—when the job was finished, business began to come in like a snowball going downhill. By June, 1945, Heinz had covered 14 buildings with a total of 62,000 sq. ft. of Stonewall—barns, grain elevators and other farm buildings. All of the photographs on these pages are Heinz jobs. Since that time other jobs finished and under way bring the total to nearly 100,000 ft.!

## HERE'S HEINZ'S OWN STORY

"As to method of selling, I can say that my jobs practically sold themselves after we had the first one started. The outstanding whiteness of the board attracts the attention of any interested person. A building with Stonewall on it can be seen for many miles in rural communities and all farmers are curious enough to investigate."



America  
YE  
FO  
• Ston  
Every j  
leads to  
profit!  
Mad  
wall is  
weathe  
paintin  
all thes  
Ever  
Made  
H



# YES, STONEWALL "MEANS BUSINESS"

## NEW BUSINESS FOR DEALERS & CONTRACTORS!

● Stonewall is a new product for a new market. Every job you sell is an advertisement for you, leads to others—and both dealer and contractor profit!

Made of imperishable asbestos-cement, Stonewall is fireproof, rotproof, ratproof, termite-proof, weatherproof. It can't wear out, it never needs painting. No other building material offers you all these sales points or is easier to sell!

Every farm building is a prospective job for

Stonewall. Barns, granaries, grain elevators, machine sheds, hog houses, brooders—all need maintenance-free, maximum-protection Stonewall sidewalls. For new construction too, Stonewall fits many types of farm buildings. There's a big industrial market for this amazing material, as well. Factories, warehouses, storage sheds and garages are active prospects in every community. Get in on this profitable new market. Stonewall means business—more business—for you.

# **RUBEROID** **STONEWALL BOARD**

Made Only by The RUBEROID Co. Executive Offices, 500 Fifth Ave., New York 18, N. Y.



**ASPHALT AND ASBESTOS BUILDING MATERIALS**

# LATEST NEWS on SOUND INSULATION

## Balsam-Wool data sheets!



● Insulating to prevent sound transmission is only one of the many subjects covered by these Balsam-Wool Data Sheets. For here is a storehouse of latest information on correct insulation practice—which embodies months of research, years of experience. The complete file of thirty-two Balsam-Wool Data Sheets is yours for the asking—just mail the coupon for your set!

**Balsam-Wool APPLICATION DATA SHEET** SEC. 6 No. 2

### BALSAM-WOOL SOUND INSULATION SYSTEM—FLOOR APPLICATION

The Balsam-Wool Sound Insulation System is an efficient and economical method of reducing sound transmission through floor construction. The system consists merely of Standard Balsam-Wool Insulating Blanket, Balsam-Wool Sound Insulation Clips and wood strips.

Standard Balsam-Wool, preferably in a 33" width, is first placed over the entire subfloor, lapping edges over 3" and turning blanket up on all walls to about 3" and turning blanket up on top of plaster grounds. If pipes or conduits are laid on top of subfloor, cover with Balsam-Wool, cut 1" x 2" or subfloor, cover with Balsam-Wool.

2" x 2" wood sleepers or nailing strips of length slightly shorter than required, since the ends must not contact the wall. Balsam-Wool Sound Insulation Clips are nailed firmly to underside of sleepers (as approximated, 24" centers), using the special barbed nails provided. After clips are attached to the sleepers, if conduit pipes are at right angles to the nailing strips, notch the strips to accommodate, without compressing the Balsam-Wool

the plug nail with felt washer attached in the hole and drive in place immediately after drilling.

In this method of sound insulating floors the Balsam-Wool Blanket absorbs sound and cushions the finished floor, giving it a desirable feeling of resilience. The Balsam-Wool Sound Insulation Clips are designed to allow spring action, which permits vertical movement of the floor but restrains movement or creeping in a horizontal direction. The felt washers prevent any direct contact between the nail and the steel clip. Since the finish floor and sleepers are not nailed directly to the subfloor, the moving load on the floor places no tension on the nails thus one common

**Balsam-Wool APPLICATION DATA SHEET** SEC. 6 No. 1

### PRINCIPLES OF SOUND TRANSMISSION

THE problem of insulating wall, floor or ceiling construction to prevent the passing of sound from one room to another is entirely different from quieting noise and correcting acoustics within the room. When sound waves strike a wall, floor or ceiling, the construction is set into vibration, which generates sound waves on the opposite side. This type of transmission is called "air-borne" and differs from "impact transmission" caused by direct mechanical impact on the surface such as by footsteps.

The sound insulating efficiency of a wall or floor construction is called its transmission loss and is measured in decibels (db). The decibel has the same relation to a scale of loudness as the degree has to a thermometer. The lowest point on a scale of decibels is a sound hardest to detect which is usually spoken of as the "threshold of audibility." At the top "threshold of pain" is a painfully loud sound of approximately 120 decibels, called the "threshold of feeling." Between these two limits we find the range of ordinary sound.

The transmission loss is simply the amount of sound stopped or the number of decibels a sound loses as it travels through the construction. If a sound of 70 decibels intensity passes through a partition having a transmission loss value of 30 decibels, it will emerge on the opposite side with an intensity level of 40 decibels. Thus the loudness of sound heard through a wall depends both on original loudness and on transmission loss of a wall.

The sound insulating efficiency of single walls and floors depends on their ability to resist vibration, which in turn depends chiefly on their weight and rigidity. High efficiency without excessive weight may be obtained by the use of double construction. The efficiency in this case depends partly on the weight and rigidity of the individual members and, to a large extent, on the degree of structural isolation between them. The two sides of the double construction should have no rigid contact between them at any point except at the edges.

The transmission of air-borne sound through floors is governed by the same general principles, but impact transmission involves a few exceptions. For example,

a heavy concrete slab is highly effective against air-borne sound but readily transmits impact made on the bare surface. Laying a carpet on the floor will greatly reduce the impact transmission but will have no measurable effect on the air-borne transmission. High efficiency against impact transmission is principally a matter of either absorbing the impact before it can get into the floor structure, or of breaking the floor between the top and bottom surfaces of the floor structure. This may be done by providing a floating floor surface mounted on resilient supports, such as the Balsam-Wool Sound Insulation System. See Data Sheet G, No. 2.

The use of acoustical material in the room where the sound originates reduces the loudness of sound in that room, therefore less sound is transmitted through the wall, floor and ceiling construction to the other side. This indirect reduction in transmission, however, is seldom sufficient to produce satisfactory results. This is understandable in view of the fact that sound transmission takes place by a vibration of the construction as a whole and that the addition of a comparatively light acoustical material will not increase the weight or rigidity enough to resist this vibration.

The efficiency of a sound insulated wall or floor construction may be greatly nullified by lack of careful workmanship and scrupulous attention to detail. A surprising amount of sound, for instance, will leak through even a small opening, in a wall, such as a crack under a door or an enlarged hole around a pipe. All masonry and plaster work should be free of cracks and flaps and should not be placed back to back caulked tight and should not be common ventilating ducts. If rooms are connected by a common ventilating duct, it should be properly lined with sound absorbing material. In double construction exceptional care must be taken to avoid bridging the air space solely with nails, extruded mortar, etc.

The overall efficiency of a good wall can be ruined by a poor door. For satisfactory results, doors must have the same efficiency as walls.

| Intensity (dB) | Approximate Sound                       |
|----------------|---|
| 0              | Threshold of audibility                 |
| 10             | Whispering                              |
| 20             | Normal conversation                     |
| 30             | Soft music                              |
| 40             | Normal conversation (loud)              |
| 50             | Normal conversation (very loud)         |
| 60             | Normal conversation (extremely loud)    |
| 70             | Normal conversation (painful)           |
| 80             | Normal conversation (very painful)      |
| 90             | Normal conversation (extremely painful) |
| 100            | Normal conversation (painful)           |
| 110            | Normal conversation (very painful)      |
| 120            | Normal conversation (extremely painful) |

WOOD CONVERSION COMPANY  
Dept. 119-5, First National Bank Building  
St. Paul, Minnesota

# Balsam-Wool

SEALED INSULATION

BALSAM-WOOL • Products of Weyerhaeuser • NU-WOOD

**WOOD CONVERSION COMPANY**

Dept. 119-5, First National Bank Building  
St. Paul, Minnesota

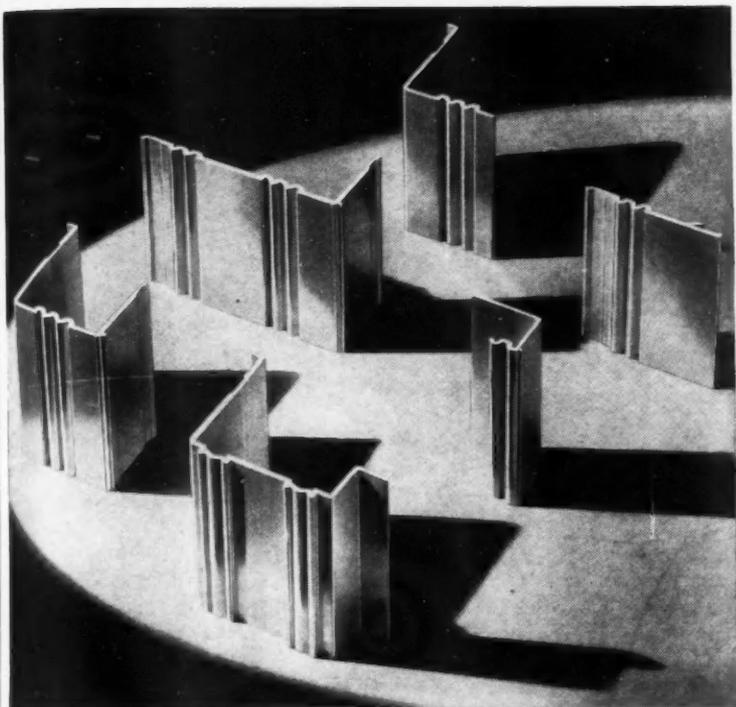
Please send me set of Balsam-Wool Application Data Sheets.

NAME .....

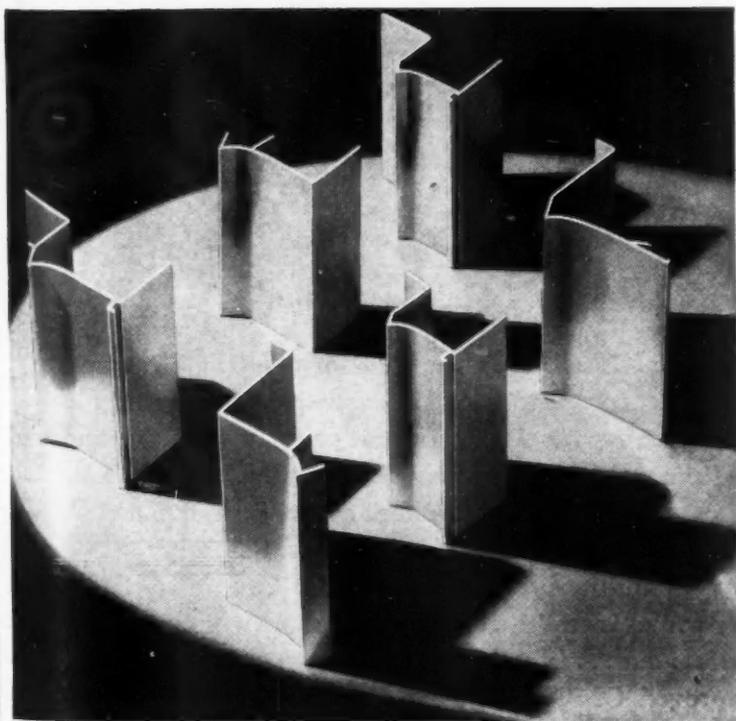
ADDRESS .....

CITY ..... STATE .....

# There are *two* lines of Pittco Metal — each distinctively styled



**PITTCO**  
**DE LUXE** Since its introduction several years ago, the Pittco De Luxe line of store front metal has won a hearty endorsement from architects. Careful planning of the line as a whole, all at one time, resulted in unusual unity of design—a harmonious relationship between each Pittco De Luxe unit and all the other members in the line. And the extruded method of manufacture assures rugged strength, clean, sharp profiles, lasting color and perfect finish. This unrivalled combination of characteristics accounts for the continued popularity of Pittco De Luxe. It is first choice with architects whose clients demand sales-winning store fronts which reflect high quality.



**PITTCO**  
**PREMIER** Recently, Pittco Premier was introduced to satisfy the need for a lightweight, moderately priced line of store front metal. The same careful planning and harmonious styling which have made Pittco De Luxe so popular are evident in the Premier line. Pittco Premier also was designed as a unit . . . each piece styled to complement and heighten the beauty of the other members with which it is used. Pittco Premier can be set easily and quickly from the outside, effecting a substantial savings in setting time. And the self-adjusting clip always maintains a firm grip on the glass, no matter what its thickness. These practical advantages plus the high degree of architectural beauty in the Premier line promise success comparable to that already attained by Pittco De Luxe.



**PITTCO STORE FRONT METAL**  
PITTSBURGH PLATE GLASS COMPANY

*"PITTSBURGH" stands for Quality Glass and Paint*

# NEW GMCs for Home Builders



**WAR-PROVED  
and IMPROVED  
FOR 1946**

• Powerful, economical "Army Workhorse" engines of Valve-in-Head design with Tocco-hardened Crankshafts, Airplane type "Durex" Main Bearings, Heat-resisting Exhaust Valves with improved Valve Seat Inserts, Positive Crankcase Ventilation, Turbo-Top Pistons and Full Pressure Lubrication through Rifle Drilled Connecting Rods.

• Rugged, built-for-the-job chassis with extra strong Frames, Springs and Axles, heavy duty Transmissions and Clutches, Needle Bearing Universal Joints, Recirculating Ball-Bearing Steering and powerful, easy-action Brakes.

• Rider Ease Cabs with Cradle-Coil Cushions, Wide Visibility "V" Windshields, Quick-vision Instrument Panels, All-Weather Insulation and Controlled Ventilation.

New GMCs offer you the most in construction truck value in a most complete selection of models. There are pick-ups, panels and canopies in several sizes for hauling tools and equipment, hardware, fixtures and appliances. There are stakes and platforms in tonnage capacities and chassis options to match every demand for transporting lumber, tiling, roofing, plumbing supplies and other building materials. It will pay you to investigate GMC. For, whatever your hauling requirements . . . from ½ to 20 tons . . . you'll find a war-proved, improved GMC truck ideally suited to each individual job.

THE TRUCK OF VALUE

**GMC  
TRUCKS**

GASOLINE  
DIESEL

CRAN

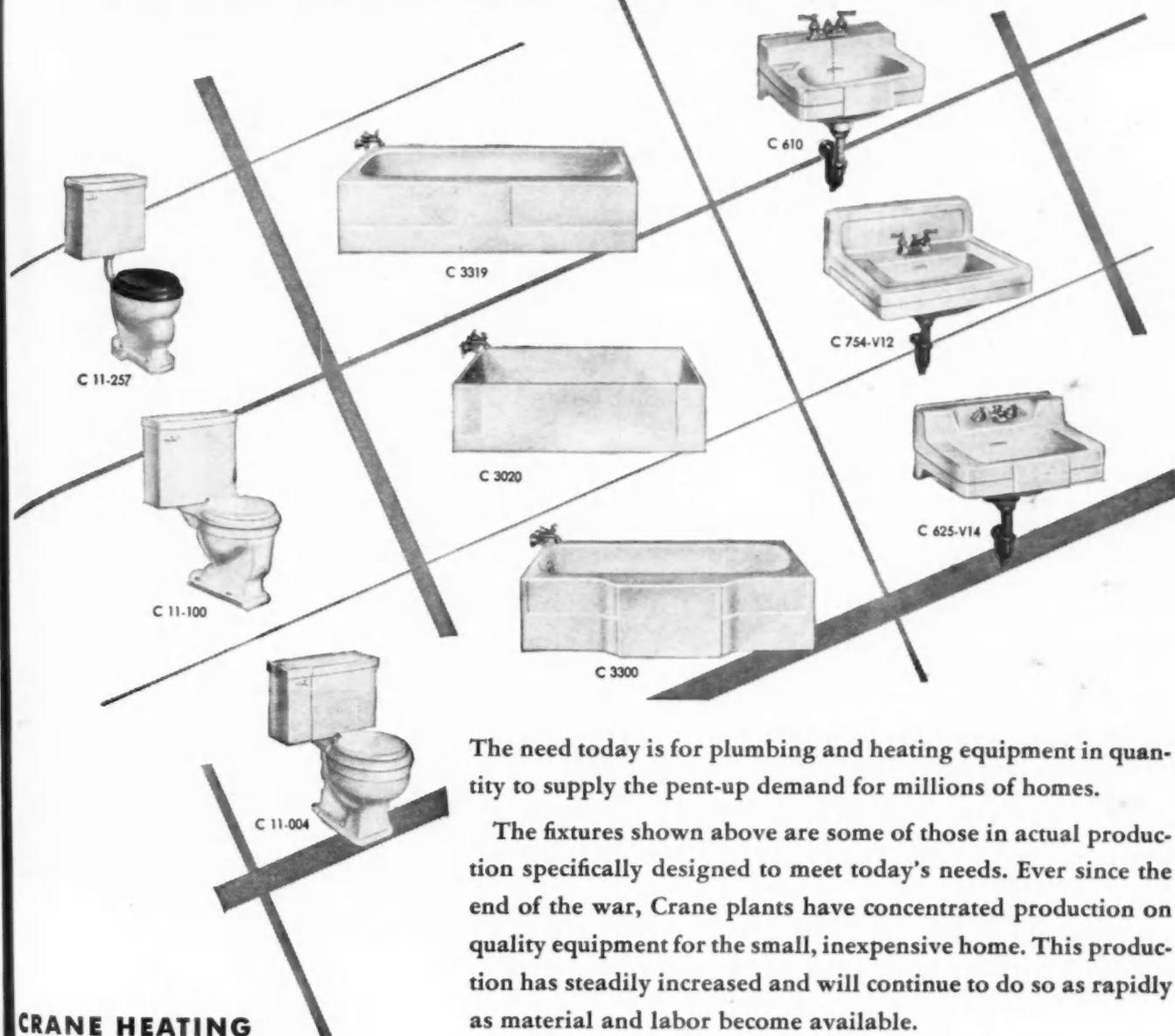
The Crane compact in burn coal, the small h

In this l stokers, oil valves and efficient, ec

C  
NATION-

# VETERANS NEED HOUSES

## CRANE HELPS YOU FILL THIS NEED



The need today is for plumbing and heating equipment in quantity to supply the pent-up demand for millions of homes.

The fixtures shown above are some of those in actual production specifically designed to meet today's needs. Ever since the end of the war, Crane plants have concentrated production on quality equipment for the small, inexpensive home. This production has steadily increased and will continue to do so as rapidly as material and labor become available.

The unprecedented demand for plumbing fixtures means that everyone cannot be supplied at once. We suggest that you anticipate your needs and discuss them with your Plumbing Contractor or Crane Branch. They will do everything possible to assist you.

### CRANE HEATING

*The Crane heating line includes boilers compact in size—low in cost, designed to burn coal, oil or gas. These are ideal for the small home.*

*In this line you will also find furnaces, stokers, oil burners, radiators, controls, pipe, valves and fittings—everything you need for efficient, economical home heating.*

# CRANE

CRANE CO., GENERAL OFFICES:  
836 S. MICHIGAN AVE., CHICAGO 5

PLUMBING • HEATING • PUMPS  
VALVES • FITTINGS • PIPE

NATION-WIDE DISTRIBUTION THROUGH BRANCHES, WHOLESALERS, PLUMBING AND HEATING DEALERS

"Building Boom?  
I'm putting in for my share now!"

"Seems to me the surest way to make money in the new-home construction market is to handle products that are in greatest demand . . . products like Barrett Shingles.

"They're one of the fastest-selling items in the building field today. Architects and builders specify them — and plenty of good, solid advertising in American Home, The Saturday Evening Post and the farm press keeps the name fresh in the public's mind. When I sell a customer Barrett Shingles, and he comes back, I know it's not to complain but to give me more business.

"Another thing — Barrett has been in business through good times and bad for over 90 years. That assures me of an experienced, reliable source of supply — a source I can count on — not just this year or next, but for as long as I stay in business."

### THE BARRETT DIVISION

ALLIED CHEMICAL & DYE CORPORATION

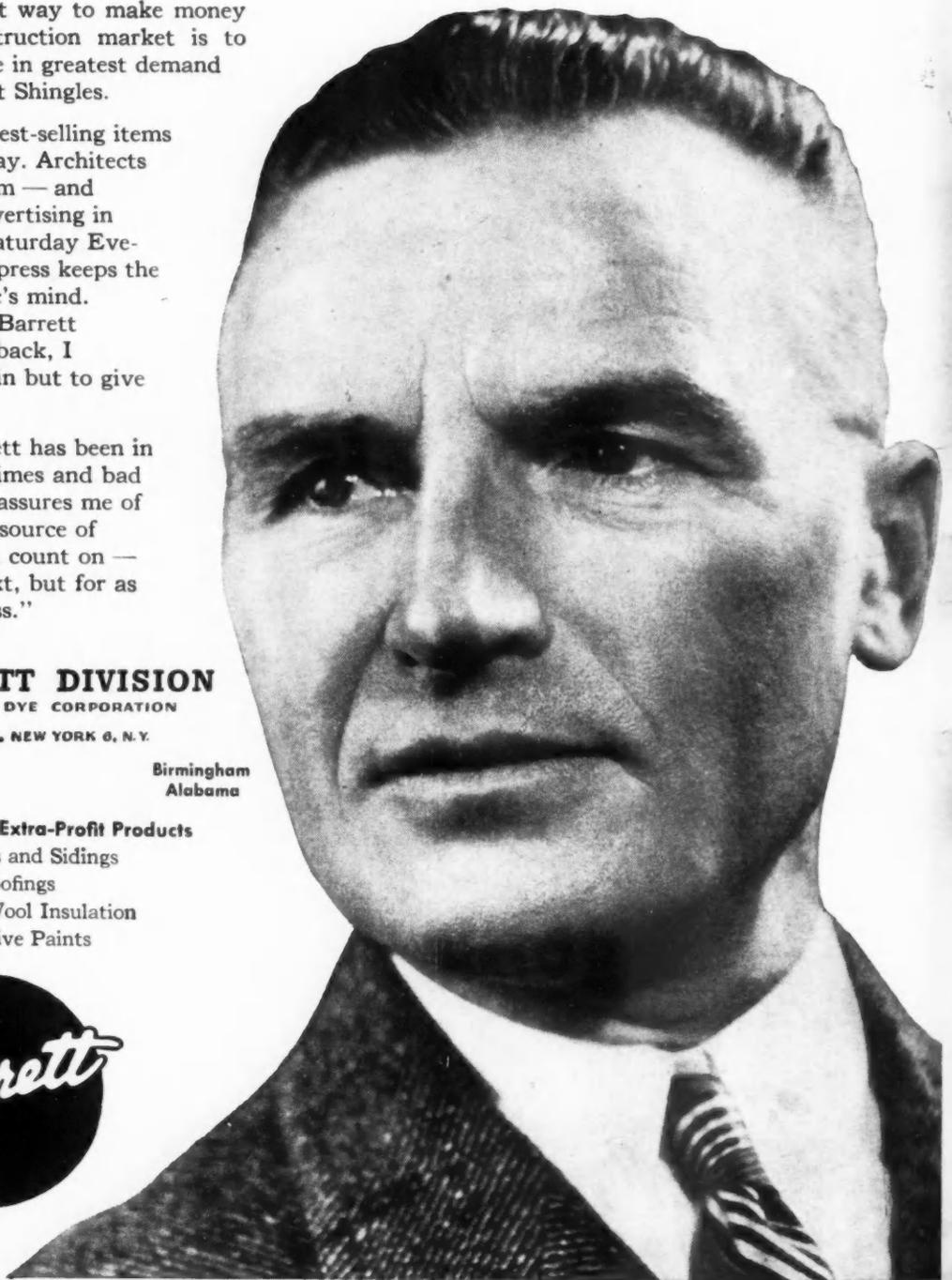
40 RECTOR STREET, NEW YORK 6, N.Y.

2800 So. Sacramento Avenue  
Chicago 23, Ill.

Birmingham  
Alabama

#### Feature these Barrett Extra-Profit Products

Barrett Shingles and Sidings  
Barrett Roll Roofings  
Barrett Rock Wool Insulation  
Barrett Protective Paints



THESE

nstruc



# Builder Brown was Baffled . . . .

## BUT ONLY FOR A MOMENT

*With the architect and contractor, he turned to Ceco . . . Together they solved the problem*

Builder Brown was constructing a plant which called for special types of metal screens. But these required special rolling equipment and dies that were not available. It looked tough—until he turned to Ceco. Out of their engineering know-how, they suggested certain changes using standard Ceco construction. The contractor and architect approved. Better results were achieved—40% of cost was saved—and the job was completed ahead of schedule.

## MATERIALS HARD TO GET? CECO CAN GIVE YOU PROMPT, EARLY DELIVERY ON METAL SCREENS

For every purpose—every building—every opening—Ceco has the right screen. Not just one type, but every type needed for new buildings or replacements—for wood windows or metal. No job is too large or small—no problem too difficult. Hard-to-screen openings are a specialty . . . Ceco screens in steel, bronze and aluminum are available NOW for all buildings including RESIDENTIAL.

### THESE OUTSTANDING ADVANTAGES OF CECO METAL SCREENS

1. Standard types and styles for every purpose.
2. Cost no more than ordinary screens . . . factory finished . . . no on-the-job painting, trimming or fitting.
3. Easy to install, remove and re-install.
4. Will not warp, shrink, swell, twist or rot.
5. Custom built from steel, bronze or aluminum.
6. Wired with rustproof, clear-vision screen cloth.

**CECO STEEL PRODUCTS CORPORATION**  
 MANUFACTURING DIVISION  
 5701 WEST 26TH STREET, CHICAGO 50, ILL.  
 Concrete Engineering Division,  
 Merchant Trade Division, Highway Products Division  
 Offices, Warehouses and Fabricating Plants in Principal Cities

### A Partial List of Other CECO Products

Metal Windows and Doors

Metal Weatherstrips

Steel Joists, Steel Roof Deck

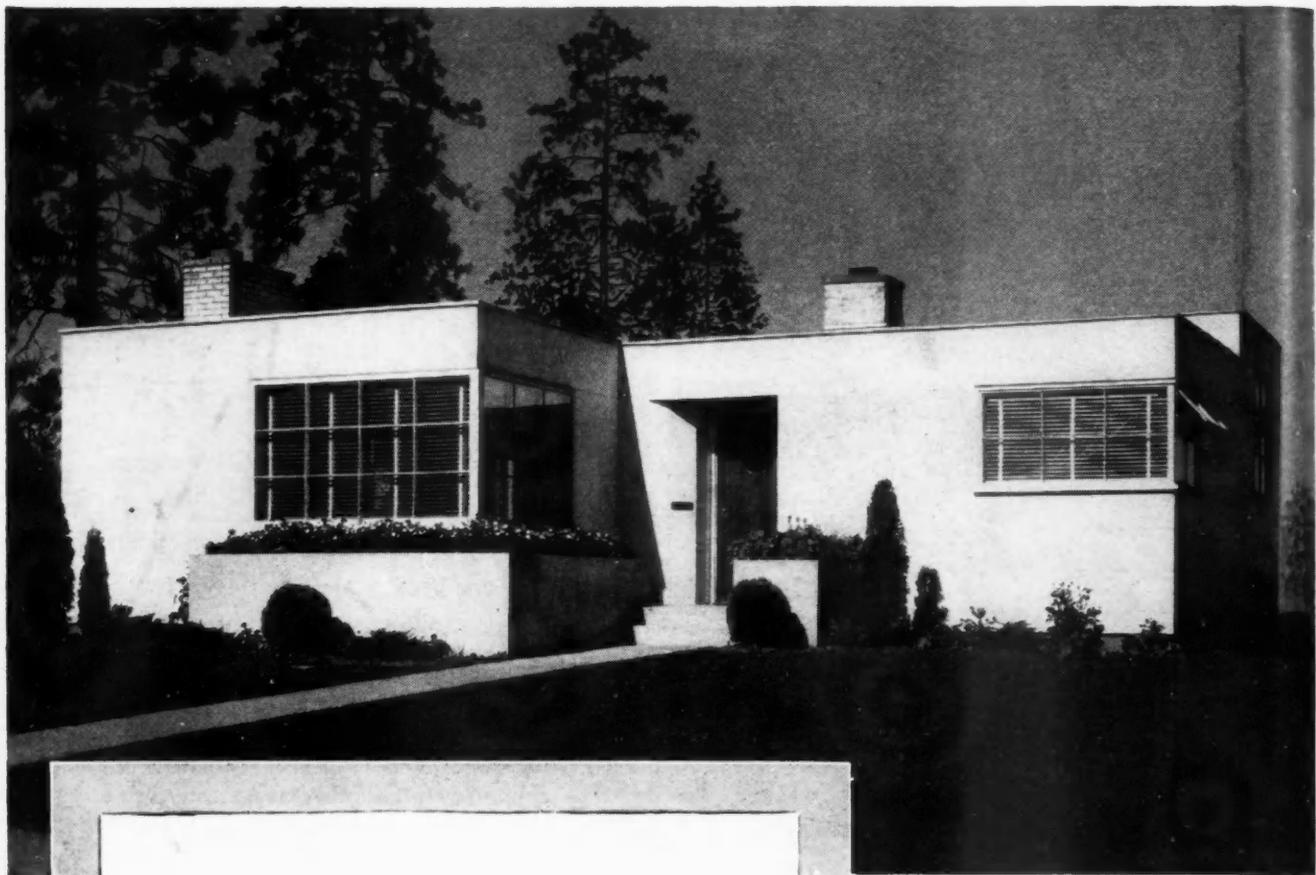
Metal Lath

Reinforcing Steel

Highway Products

Double-Drain Roofing

Construction products **CECO ENGINEERING** makes the big difference



# ***Douglas Fir Plywood Again Allocated***

## ***-To Meet the Urgent Needs of the Reconversion Housing Program***

TODAY'S most urgent and immediate need is for housing—and the Douglas fir plywood industry pledges complete cooperation with the Reconversion Housing Program.

The demand for housing requires that Douglas fir plywood again be put on an allocation basis. This means that a substantial proportion of the industry's production will be channelled to housing contractors, stock cabinet manufacturers, prefabricators and distributors.

As a result, the present supply situation for all other industrial and construction uses will be temporarily aggravated.

May we strongly urge you to anticipate your needs *far in advance*—and discuss your requirements with your regular sources of supply.

*Even though today the supply situation in Douglas fir plywood is critically short, for many projects such as forming concrete surfaces, for signs and display work, for boat building, and for many other industrial and commercial uses, it is almost indispensable. In these cases it is well worth waiting for, as it will save time and labor and do a better job.*



Douglas Fir Plywood Association  
Tacoma 2, Washington



*Suggest the  
new way  
of living*

**with large windows of *Thermopane***  
REG. U.S. PAT. OFF.

Most people love the outdoors—its feeling of freedom and bigness and airiness. So, the trend to larger windows—to bring these benefits indoors—is natural.

But, of course, people like comfort, too. How to provide both was a problem, until *Thermopane* was developed.

*Thermopane* is a transparent insulating unit composed of two or more panes of glass separated by sealed-in dehydrated air. It provides year-round insulation. The L·O·F Bondermetic Seal bonds the panes into a single unit to guard against dirt or moisture entering the air space. And the sealed-in air greatly reduces the possibility of condensation on the glass.

Manufacturers of both wood and metal windows make sash for *Thermopane*. For special sash, specify rabbeting wide enough to accommodate *Thermopane*'s slightly greater thickness.

For more data on insulation values, sizes, thicknesses and types of glass than can be given here, write for a copy of our factual *Thermopane* book. Libbey·Owens·Ford Glass Company, 1356 Nicholas Bldg., Toledo 3, Ohio.



Architect George Fred Keck combined insulation with insulation in this house. The roof extension bars hot summer sun, lets in the warm slanting rays of winter sun.



**LIBBEY·OWENS·FORD**

*a Great Name in* **GLASS**



**CUTAWAY VIEW OF  
THERMOPANE**



Reproduced from the Kohler Exhibit at the National Builders Exposition

**A satisfaction to home-owners...**

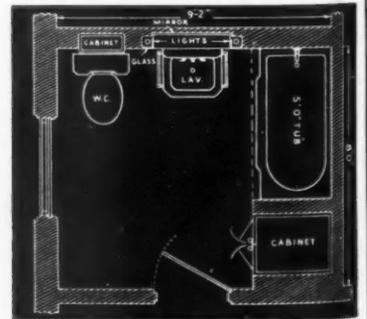
**KOHLER quality in the bathroom**

**H**OME-OWNERS are aware of the importance of excellence in their plumbing facilities—as a sanitary safeguard and a sound investment. The recognized quality of Kohler fixtures and fittings inspires their confidence. Kohler quality includes the beauty of clean-cut lines and proportions; the reliability of strong, precision-made working parts; and the lasting serviceability assured by fine workmanship and materials. Kohler plumbing is a satisfaction to those who buy or rent, as well as those who build or remodel.

The arrangement shown above in-

cludes the Cosmopolitan Bench Bath made of rigid, durable enameled cast iron, with the Triton shower mixer; the Hampton enameled cast iron shelf lavatory with built-in fittings; and the close-coupled Wellworth closet, with smooth quiet action.

The high quality which the name Kohler has signified for 73 years is safeguarded by the unity of supervision which is made possible by concentrating Kohler production in one great plant. Write for whatever information you need on Kohler products now available. Kohler Co., Dept. 5-AB, Kohler, Wisconsin. Established 1873.



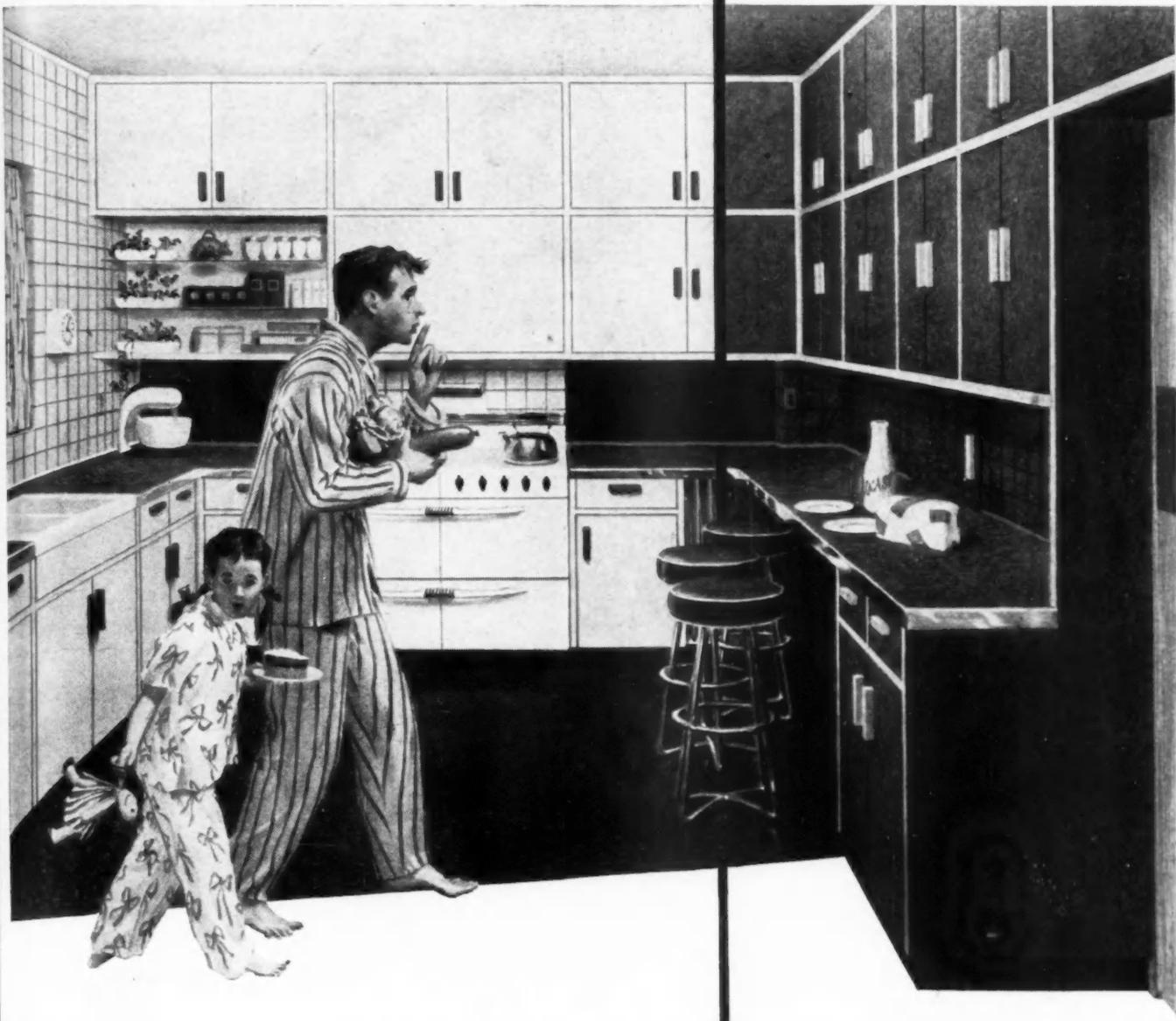
**FLOOR PLAN** for the bathroom illustrated above—showing an arrangement of Kohler fixtures that combines economical spacing, freedom of movement, and roomy, easily accessible storage facilities.

**KOHLER OF KOHLER**

PLUMBING FIXTURES AND FITTINGS • HEATING EQUIPMENT • ELECTRIC PLANTS

Presdwoods Welcome Almost All Applied Finishes

And Are Handsome in Their Natural Finish



## Everywhere—you'll find MASONITE PRESDWOODS

New, modern kitchens for a home-conscious America—here's one of the primary sources of remodeling activity. Masonite\* Presdwoods are versatile in achieving attractive, efficient walls and units for today's new kitchens.

Cabinets, counters and cupboards are some of the basic fixtures now being made with Presdwoods—for strength, durability and resistance to moisture. In kitchens they are used for walls, ceilings, panels, doors, drawers and work surfaces.

These dense, smooth hardboards have unusual dimensional stability. They have no tendency to crack, split, chip or splinter. Handsome in natural finish, Presdwoods welcome most applied finishes (no grain to raise or mar the surface). They can easily be worked with ordinary carpenter's tools.

Write for complete data on all Masonite building products to Masonite Corporation, Dept. AB-5, 111 West Washington Street, Chicago 2, Illinois.



**PRESSED FROM EXPLODED WOOD**  
Products of the State of Mississippi

\*"Masonite" is a trade-mark registered in U.S. Pat. Off., and signifies that Masonite Corporation is the source of the product.

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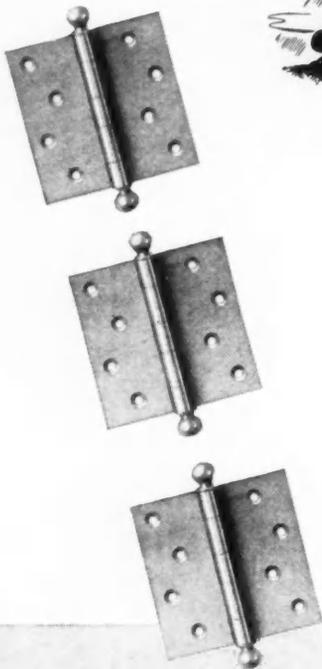
Experienced Eyes  
look for  
**THREE HINGES  
ON EVERY DOOR**



One of the marks of good construction that your prospective buyer actually sees for himself and really appreciates is the *triple hinging of doors*.

Three hinges on every door—whether thick or thin—hold the edge of the door in alignment, and keep latch and lock clicking to a perfect fit. That's more important in today's construction than ever before.

Remember, it costs less to put a third hinge on every door than to repair a single warped door later! So for better construction and greater customer satisfaction—triple hinge your doors. The Stanley Works, New Britain, Connecticut.



**STANLEY**

REMEMBER . . . . . THREE HINGES TO A DOOR

# AMERICAN BUILDER

## L D I T O R I A L

### **Wyatt at the Crossroads**

**W**ILSON W. WYATT went to Washington on January 2 to become Housing Expediter. On February 7, slightly more than five weeks after his first identification with national housing problems, he addressed to President Truman a report entitled, "The Veterans' Emergency Housing Program."

Industry men who, among others, had been called to Washington to consult with Wyatt between January 2 and February 7, were amazed when they read the report. It was flavored strongly with the familiar terms of public housing advocates and proponents of permanent government control of the home building industry. Much of it unmistakably was the thinking of OPA authors of unrealistic price formulas.

In his report, Wyatt said, "I have examined the principal available data." Industry wondered what the principal available data was, and how Wyatt or any other novice in the building industry could compose the report from scratch in five weeks. The answers came in March through publication of a letter which Chester Bowles wrote to Wyatt at the time Wyatt arrived in Washington.

The letter, with the exception of the subsidies feature and some minor items, was what on February 7 became "The Veterans' Emergency Housing Program." Thus, "the principal available data" came from Chester Bowles.

Bowles, like Wyatt, has no background in the home building industry, and as a government official, is not conducting housing research. Therefore, since the Bowles letter, which was accepted by Wyatt as his so-called housing program, is full of NHA terms and data that are at least questionable, it is in the public interest to ask that a Congressional committee investigate the entire obscure proceeding, find out just what is going on between Bowles, Wyatt and the NHA, and find out who is trying to use Wyatt, and for what purpose they are trying to use him.

Furthermore, there appears to be at least room for suspicion that the Bowles plan issued through the instrumentality and over the signature of Wyatt is much less a veterans' housing program and much more a part of the NHA and Wagner-Ellender-Taft scheme to expand public housing activity.

With the light thrown on Bowles as the source or the transmitting medium of most of Wyatt's "principal available data," both Congress and the public are entitled to know also where Wyatt got the data that moved him to ask and fight for subsidies. Established producers of building materials not only did not ask for subsidies, but in opposition to them, proved that present production facilities for all products needed in the building of homes are equal to or in excess of what is required.

Furthermore, in view of Wyatt's advocacy of the Wagner-Ellender-Taft bill as legislation necessary for his veterans' emergency housing program, he should be required to explain just what this long-range public housing measure has to do with short-range veterans' housing. Wyatt is at the crossroads with an unworkable, irrelevant and ill-advised program.

American Builder believes that a Congressional committee should require Wyatt to explain his conclusions in detail, and to divulge all of his sources of "available data."

## If I Were a Young Man



**Hurling a challenge at the young man of initiative, ambition and enterprise, the building industry also offers the rewards of substantial income and personal service to his community and country**

*By Joseph E. Merrion*

Past President, NAHB  
Past President, Chicago Metropolitan  
Home Builders Association

**O**UR young men of today are the trustees of America's future. To them is thrown the inspiring challenge, and finest opportunity for success—or failure—that has ever been offered to a new generation. Upon them, also, is placed the most onerous responsibility: to care for the American future; to guard the American heritage; to cherish American rights and ideals.

To older eyes and older brains and older hearts, it is a cheering and heart-warming realization, the manner in which they are ready—more than ready, eager—to accept that responsibility, first; to grasp that opportunity; to pick up that challenge.

I am a builder. Despite the impressions nurtured to the contrary by those who never knew the building business, and by those who are jealous enough of its success to want to take it over, builders sometimes think of other things than profits. If my own experience and that of my friends

can be criteria, they think often of the reputation, the monument they will leave behind them, and of the hands, the young hands, into which they will entrust the carrying on of the profession they live by and love.

We do not apologize, we builders, for making an honest profit and, pray



God, we never shall. We believe firmly in the profit incentive that pays off for personal industry, for personal brainpower, for personal initiative, for personal capital ventured. We believe that the entrepreneur, the man who pulls together all the factors in a housing operation, is just as worthy of his hire as is the laborer, whether he be a builder of one house who employs several subcontractors and thereby provides employment for their men, or the guiding genius of a project embracing hundreds or thousands of units, with its consequently stepped-up on-and-off-site employment. We do not believe that the provider of one basic human need—shelter—is any more obliged to offer his wares and his talents to humanity profit-free than are the providers of the other two—the grower of food and the producer of clothing. We are proud, we American builders, who prewar gave our fellow citizens the highest standard of housing ever

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seen anywhere on the face of this earth. And we will continue that march to higher and higher levels upon which we were embarked when war came.

Thoughts like these are always with me, because they are part of me, of my philosophy, of my credo—call it what you will. They were with me the other evening in my library when a question was put which I am trying to answer here.

The rush of the day was over. Behind was the scramble for oak flooring; for fifteen kegs of nails to finish up a part of one project; for only enough sheathing and window frames to keep another going—to provide homes for veterans and to provide workers with jobs. In the glow from the fireplace, the question was asked: "What would you do today, if you were a young man?"

I have had time since then to think my answer through thoroughly. Despite my awareness, however, of a possible prejudice in favor of my own profession, based upon a lifetime of building and the satisfaction of seeing problems through in that field, my answer is the same as it was then: If I were a young man, *I would become a builder.*

There are and will be in the coming years many other attractive fields; fields wherein a man may render service, may provide a competence for himself and his family, may build himself over his lifetime into a citizen of substance and worth to his community and country, may leave upon the world a mark of merit to show that he has passed through it. But in none, I feel, can be gained the personal gratification that will come to the man who builds, and particularly to the man who builds homes.

The creator of shops where men may trade and plants where they may work; of roads whereon they may travel and universities wherein they may study, and churches wherein they may worship—for the builders of these there comes a satisfaction that ranks high and serves to sate the creative instinct that is in all of us. But for the builder of dwellings wherein they may *live* and raise their families—

For him there will be the realization that as long as America endures, his was a vital part in making it possible. Because America is nothing more than the families that make it up, and the families that make it up are, for the far greatest part, the result of the homes in which they live. On him who builds those homes is placed a great responsibility, is conferred a great privilege with effects running far into the future. To him

who builds them well must inevitably come the highest sense of satisfaction in service to his fellow man, his community and his country.

If I were a young man I should want to attain that satisfaction, to be a part of that service. And I should be especially anxious to achieve it when I realized that the opportunities for so doing are much greater than they have ever been before.

Let me quote here a few figures to give some idea of the nature of the need for homes, the unparalleled demand that exists now and well may continue for years to come. Estimates vary, of course, with the men who make them, but it is not out of line at all to say that America will need a minimum of one million new homes per year for the next ten years. This, remember, is a minimum, and may well be doubled or even tripled, should we swing into the steady rise and maintenance of unprecedented prosperity and high national income of which we are so obviously capable. And this does not include the repair, maintenance and modernization market, on the millions of homes now in existence and yet to be built. This market, like that of new home building, has been necessarily restricted during the war years and that backlog, plus normal activity therein, will provide a fertile field for builders for many years to come. Nor does it include the field of shops, stores and other commercial structures which are a necessary concomitant of new home building, and upon which likewise the toll of the years brings into being a repair and maintenance demand.

In number of men needed, figures recently released by the United States Department of Labor indicate a demand by 1949 for two million, eight hundred thousand men, in all phases of construction activity. If the past can be a standard, at least half of these will find employment in the residential building field, in on-site jobs. These range all the way from Construction Superintendents (35,000) to Unskilled Workers (1,029,500) needed in all fields.

What is the best point of entry for the young man anxious to get into this, the nation's second-largest industry? The answer to that will depend upon a number of factors—age, aptitudes, financial condition, willingness to work, ability to forego higher monetary rewards now in favor of greater ones later.

It is possible, for instance, for the young man to start as an unskilled laborer. Though fair, the pay is not

**A young builder should know planning, estimating and have a thorough working knowledge of all the building trades and crafts.**





**SITE prefabrication is profitable on multiple housing jobs. Here power saws play an important part in precutting.**

high, but it is immediate; and he can, with industry, application and spare-time study graduate into the semi-skilled or skilled class usually within a few years, depending upon local trade-union rules in his locality. If he is a veteran, he is entitled to assistance in the form of tuition and subsistence allowances while attending approved trade schools.

This same sort of assistance is available to the veteran who enters upon an apprentice-training program, in any one of several trades in the building field, whereunder he may "earn while he learns," and eventually reach the wage scale of the recognized journeyman. Young ex-service men interested should consult with contractors and builders in their localities, and with union officials, to acquaint themselves with the potentialities of the field in their own area; and with Veterans' Administration officials and the United States Employment Service in order to be sure that they take full advantage of the benefits offered. They should also look into the laws of their own states, many of which have enacted legislation conferring privileges on veterans, in the form of employment preferences, educational aid, bonuses, and in other ways. The young veteran's best point of contact here is his Veterans' Information Center or the State Veterans' Commission, located usually in the State Capitol.

But for the young man, veteran or non-veteran, who has the time and the talents, the patience and the foresight to realize that a few years spent in education will pay off handsomely in increased financial dividends over a longer period of years, the proper place to start is in a college or uni-

versity course devoted to light construction. Here, too, the man (or woman) who has served in the armed forces may take advantage of his rights to tuition and maintenance.

Such a course will be a beginning radically different, and properly so, from that of myself and most of the presently successful builders I know. For the "school of hard knocks" will be substituted the somewhat less difficult, but certainly more thorough and complete school of coordinated training in all branches of the industry; a course, in most of the Universities whose curricula I have examined, that combines the best features of classroom training under competent authority with periods of summer or other vacation work with builders, contractors and dealers engaged in actual field operations.

The universities and colleges have come to realize the tremendous scope of the building field, the vast potentialities for employment in it, and the need for trained personnel to serve it. And approximately 30 of them have shaped their courses accordingly.

The following, from the Johns-Manville Corporation's "New Career Opportunities in the Building Industry," is a composite of the training offered by the colleges and universities now preparing to offer courses in the light building industry. The customary degree offered is Bachelor of Science in Light Construction Engineering and Marketing.

#### **Freshman Year Subjects**

Mathematics - English - Chemistry - Drawing - Military Service - Physical Training - Forestry - Public Speaking - Surveying - Physics - Farm Buildings - Pattern Making.

#### **Sophomore Year Subjects**

Accounting - Dendrology - Forest Products - Parliamentary Practice - English - Economics - Building Materials - Building Construction - Mathematics - Wood Structures - House and Home Planning - Engineering Mechanics.

#### **Junior Year Subjects**

Business Law - Psychology of Advertising - Applied Psychology - Lumber Merchandising - Contracts and Specifications - Human Relations - Home and Farm Architecture - Money and Banking - Transportation - Engineering Geology - Salesmanship - Construction Estimating.

#### **Senior Year Subjects**

Advanced Economics - Market Analysis and Statistics - Electrical Equipment - Engineering Materials - Sales Management - Building Materials and Methods - Retail Administration - Hydraulics (Plumbing) - Heat Engineering - Personnel Administration - Timber Mechanics - Construction Management.

#### **Some Electives**

Wood Utilization - Wood Technology - Sociology - Labor Relations - Corporation Finance - Perspective Drawing - Advanced Accounting - Forest Mensuration - Landscape Architecture - Engineering Economics - Government and Business - Advanced Composition - Agricultural Economics - Municipal Government - City Planning and Zoning - Advanced House Architecture.

It might be said at first glance that such a course is *too* complete, wanders too far afield from the erstwhile simple business of building a house.



WHEN materials flow in ordered sequence and labor co-ordinates its efforts, homes are erected rapidly and at lower cost.

But building today is a complex business, and the matter of completing a project, from site inspection to final sale or rental management, is one in which the builder will find himself in frequent touch with many and varied seemingly unrelated fields; and in situations where a knowledge of the basic laws of their operation and the practical working thereof will be of invaluable aid to him. From my own experience, I can say unqualifiedly that familiarity with these apparently unrelated fields, gained through hard experience or paid for by securing the advice of experts, can often make the difference between the success or failure of a building project or program. Here again the benefits of a thorough scholastic training, absorbed in younger years, carried with one on entry into business, and improved upon with experience should be, I believe, far more attractive to the young man than the acquisition of knowledge piecemeal in the school of experience only.

Finally, for the returning veteran who has had sufficient prewar or war experience in the construction industry to cause him to feel that he is ready and able to go into business for himself, there are provisions of the "G-I Bill of Rights" making it possible for him to secure financial backing in such an undertaking, with partial government support. Here, however, as in all such government-aided loans, it must be demonstrated that the young man's background, experience and potentialities are such as to justify the making of a loan on a sound basis. This provision is written into the enabling legislation as much for the protection of the potential new businessman as for anyone else. He, too—and many of them, I find, are doing just

that—can with profit take advantage of some of the educational courses offered in order to refresh himself on wartime developments in his business and to enable him better to cope with

the competition he will encounter.

I should like at this point to mention and give due credit to two pamphlets I have examined recently  
(Continued to page 116)

### These Are the Schools Prepared to Serve the Young Man Embarking on a Building Career

- Alabama Polytechnic Institute, Auburn, Ala.
- University of Minnesota, St. Paul, Minn.
- North Carolina State College, Raleigh, N. C.
- Massachusetts Institute of Technology, Cambridge, Mass.
- Michigan State College, East Lansing, Mich.
- Rensselaer Polytechnic Institute, Troy, N. Y.
- University of New Hampshire, Durham, N. H.
- University of Wisconsin, Madison, Wis.
- Georgia School of Technology, Atlanta, Ga.
- Oregon State College, Corvallis, Ore.
- The New York State College of Forestry, Syracuse, N. Y.
- University of Denver, Denver, Colo.
- Massachusetts State College, Amherst, Mass.
- University of Maine, Orono, Me.
- Colorado A & M College, Fort Collins, Colo.
- Kansas State College, Manhattan, Kans.
- Virginia Polytechnic Institute, Blacksburg, Va.
- University of Idaho, Moscow, Idaho
- Iowa State College, Ames, Iowa
- Oklahoma A & M College, Stillwater, Okla.
- University of Kentucky, Lexington, Ky.
- Louisiana State University, Baton Rouge, La.
- University of Kansas, Lawrence, Kans.
- Montana State College, Bozeman, Mont.

#### COURSES BEING ORGANIZED

- University of Oklahoma, Norman, Okla.
- University of Arkansas, Fayetteville, Ark.
- Washington University, St. Louis, Mo.

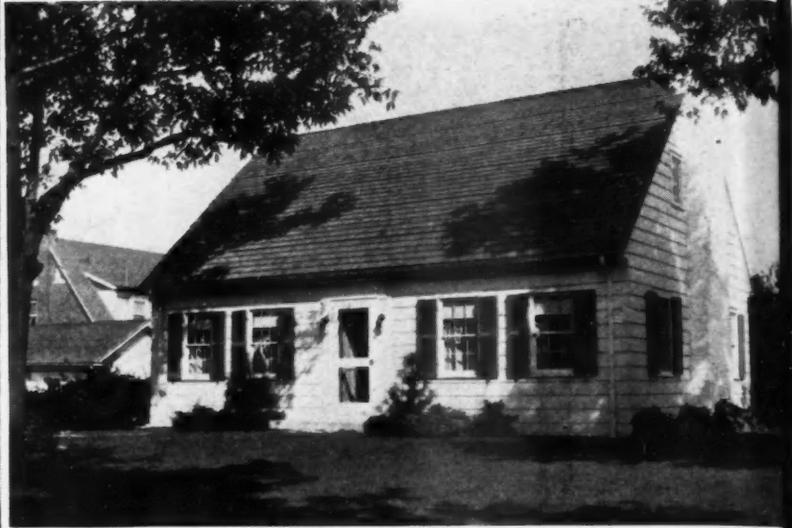
#### COURSES UNDER CONSIDERATION

- University of Connecticut, Storrs, Conn.
- University of Illinois, Urbana, Ill.
- University of Wyoming, Laramie, Wyo.
- University of Utah, Salt Lake City, Utah
- Princeton University, Princeton, N.J.

#### HOME STUDY SCHOOLS

- American School, Drexel at 58th St., Chicago, Ill.
- American Technical Society, 850 E. 58th St., Chicago, Ill.
- Chicago Technical College, 2000 S. Michigan Ave., Chicago, Ill.
- International Correspondence Schools, Scranton 9, Pa.

# Young America Learns How



DESIGNED by W. E. Durbahn, this Cape Cod was built by his students.



**Vocational building trades program pioneered nearly a quarter century ago by Highland Park High School, in suburban Chicago, proves popular and successfully combines fundamental tool training with academic work to develop experienced students for early apprenticeship**

GOETHE once said—"When the hand and eye are deftly trained, strong grows the will and keen the brain."

Interpreting this to mean that the training of the hand in the use of tools and materials should be as much a part of the curriculum as the training of the mind, the Highland Park (Ill.) High School more than twenty years ago adopted a program of vocational education.

It was in 1925 that the well-known educator, Richard Lanning Sandwick, then principal of the high school, persuaded the Highland Park Board of Education that the student who would be entering employment after graduation "should have an opportunity to get experience through practical situations, together with a general fundamental tool training as a foundation for a successful career in industry."

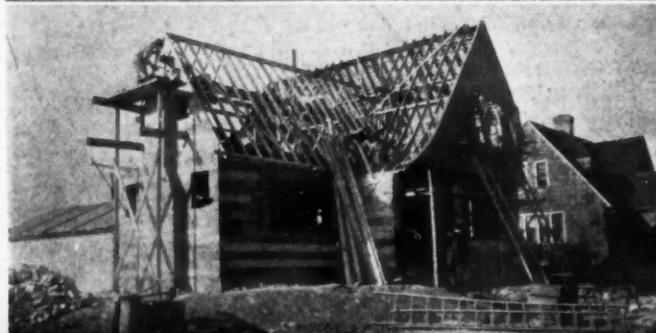
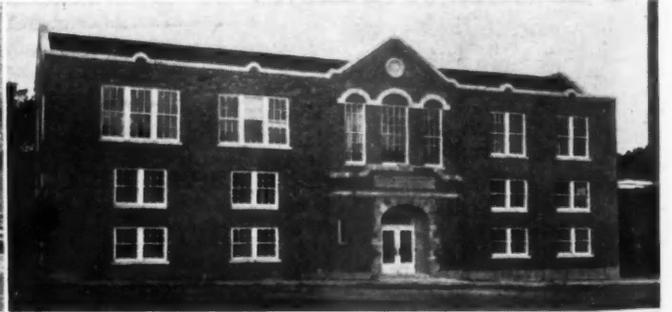
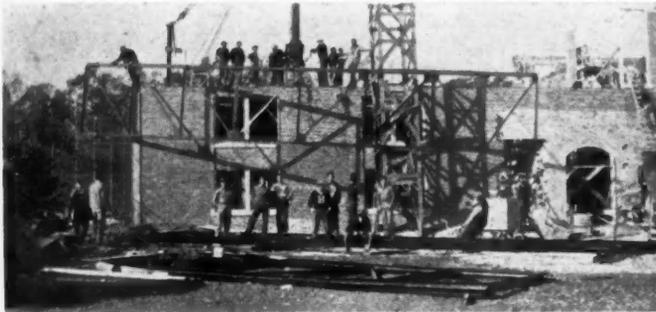
Today, Sandwick Hall, erected by

the building trades students, stands as a monument to that philosophy. Its 12,000 square feet of floor area mark the focal point of the high school's vocational building trades program and offer opportunity to students in two major fields of trade and industrial education. In the field of metal work, experience can be had in machine shop practice, welding, forging and auto mechanics.

In the other field emphasis is placed upon the building trades, namely carpentry, bricklaying and concrete work, sheet metal, electric house wiring, and painting and decorating. The building also accommodates classes in related subjects for these students, drawing, mathematics, science, English and social science, it having been learned that when the academic phase of an industrial program can be housed in the same building with the shop work, greater integration can be carried on, enriching the value of such courses of instruction.

In outlining the high school's De-

SHOWN below under construction and completed are Sandwick Hall and a residence, both having been built by students.



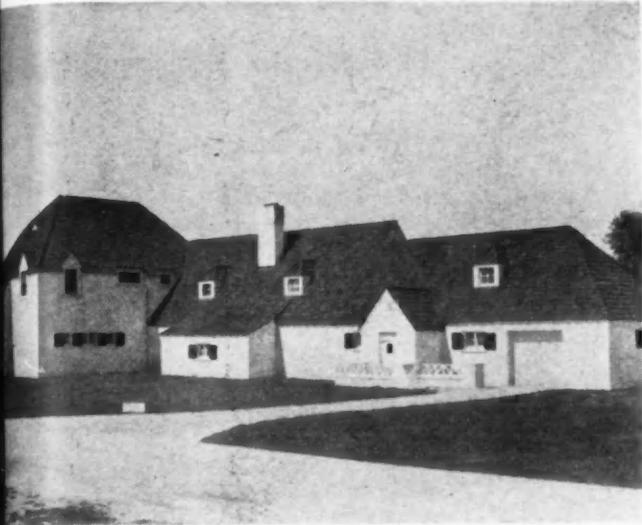
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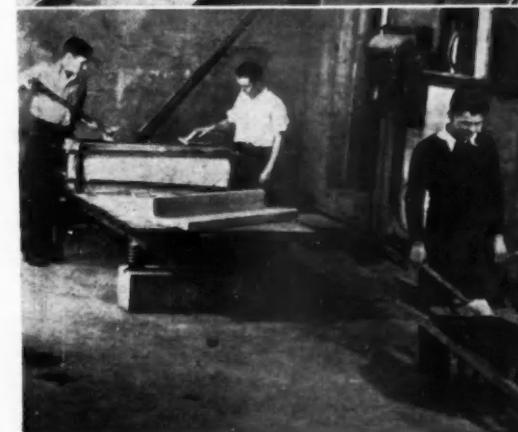
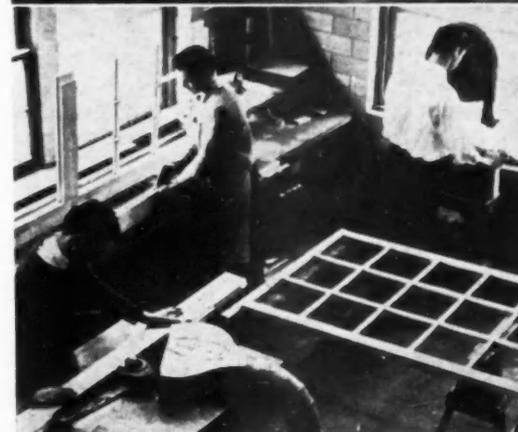
THE Highland Park High School Field House (left above) was a two-year project of the building trades students; the bus garage, one year.

partment of Industrial Education program for *American Builder*, its director, Walter E. Durbahn, said, "Each student spends half of each day in the shop or on the job, the other half on related work, which includes individual instruction in blueprint reading, architectural drawing, related mathematics and science, English and social studies. Wherever possible the academic and shop work are correlated.

"For thirteen years the department did not have a shop, their shop being a building under construction. Now, however, we are comfortably housed in Sandwich Hall, a building of the students' own construction. Although they did not do all the construction, as journeymen were called in for the various trades and some parts of the work were let out by contract, they did most of the work, thus being afforded the opportunity to perform under trade conditions. Because real trade experience can be had only through actual participation, a number of houses, a field house and a garage building have been erected by the students in addition to Sandwich Hall.

"It has been found advisable to give students who choose the building trades as a field of endeavor a year in the shop, rotating them through the major building trades and allowing three hours a day to each trade, five days a week for six weeks," Mr. Durbahn continued. "Here they become acquainted with the tools and materials of each of these trades, learn methods of construction, qualities of materials and other related trade information, all of which should provide a foundation for a good mechanic. Our principal, Mr. A. E. Wolters, has enlarged upon this theory by encouraging a more careful selection of students admitted into the Department, and by limiting the course to

(Continued to page 117)



ACADEMIC work and shop practice are blended to give the student well-balanced training.



EDWARD G. GAVIN

## AMERICAN BUILDER FACES OPPOSITION SINGLE-HANDED

**E**DDWARD G. GAVIN, the editor of *American Builder*, carries the torch for the industry in the current "March of Time," now appearing in theatres across the nation.

The film's theme is "Wanted—More Housing" and is loaded with dynamite punches from Wilson Wyatt, Chester Bowles and the Administration, obviously designed to win public approval for the tightening of governmental restrictions and opening the road to subsidies and probably socialized housing.

In the film is one dissenting voice, that of *American Builder's* Edward Gavin, who points out the "fallacy in figures" which has led the Wyatt school to propose that a dire national housing emergency exists. He points an accusing finger at the group who have thus far stood squarely in the path of materials production:

"OPA has closed 8,000 lumber mills, stifled production of building materials and is denying homes to veterans," charged Gavin in answer to the imposing array of Washington officials lined up against him.

Selected as the journal most representative in the building field—referred to in the March of Time film as "The Opposition"—*American Builder* attempted to make the utmost of this opportunity to stem the political tide of false figures and rainbow promises.

Every builder, dealer and all others

directly interested in home building should make it their business to see this dramatic stand of *one man*, representing orderly, conventional building, hurling facts and figures at a *group* of government officials who would play at vivisectioning the home building industry.

This issue of *March of Time*, currently showing in theatres throughout the United States, is scheduled for theatre circulation for the next several months.

Watch for it.

*Editorial Note: Early in March, the editor of American Builder was requested to appear in this newsreel feature and was presented with a brief script which in effect stated succinctly, "There is no housing emergency." This first request was turned down flatly on the basis that to make such a statement without qualification is not the attitude of any member of the American*

**Don't miss the current  
March of Time newsreel  
"Wanted—More Homes"**



WILSON W. WYATT



CHESTER BOWLES

*Builder staff. First agreement was reached as to the script and ultimately the tableau was recorded in the New York office of American Builder.*

*Mr. Gavin is in effect "isolated" as the opposition in the finished film because of the sequence of his two appearances.*



WILSON WYATT and Chester Bowles in conference over the luncheon table.

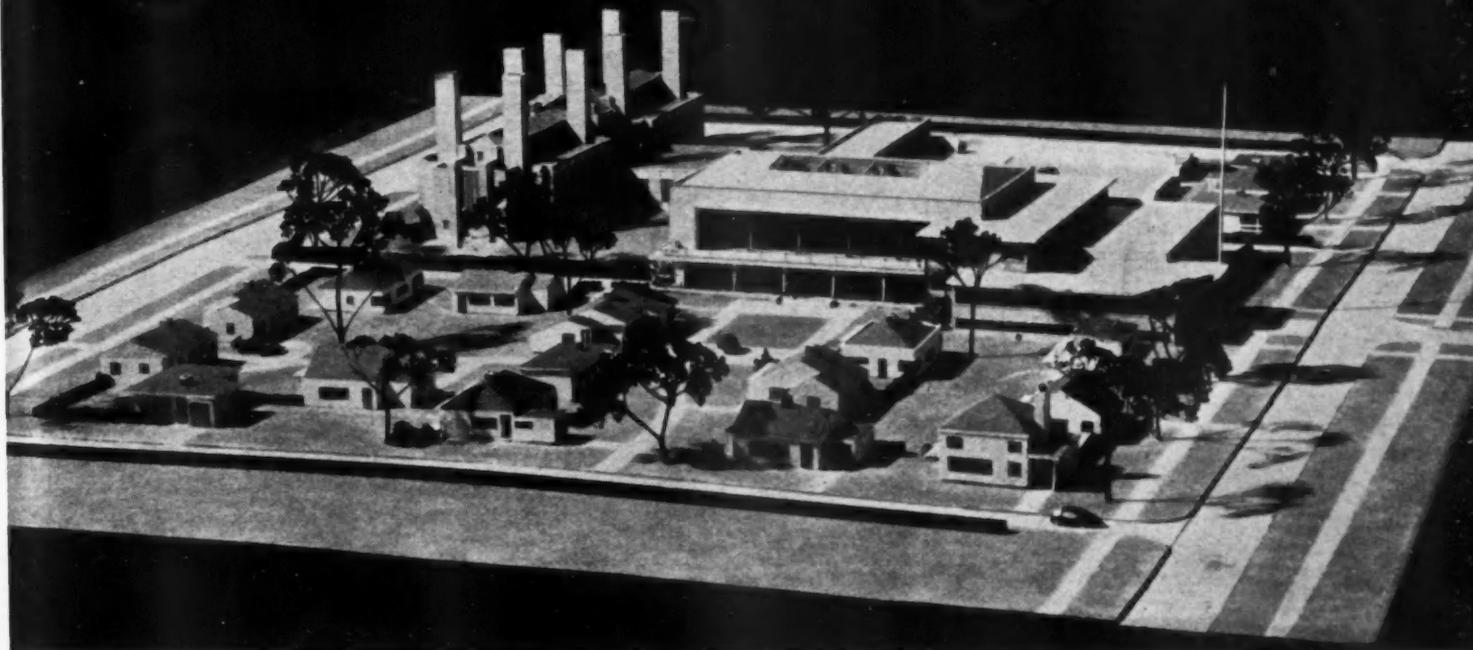
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## NEW HOME RESEARCH CENTER

### To Help Solve Building Problems



AERIAL VIEW of model with existing power plant in background.

**P**LANS which have been developed by the University of Illinois, and approved by its board of trustees, envision a comprehensive research, experimental and demonstration center which will be located on the campus at Urbana.

The new project contemplates the use of a four-block area which will contain a \$400,000 demonstration center and production yard, with three blocks of test houses surrounding it. These houses will be similar in character to the research homes that were built on the campus by the National Warm Air Heating and Ventilating Association and the Institute of Boiler and Radiator Manufacturers. The test houses will provide many opportunities for conducting related experiments simultaneously.

The Small Homes Council of the University, headed by William H. Scheick, is responsible for the development of the plans.

The demonstration center and production yard will provide unlimited possibilities for applied experiments which cannot be done in the fixed surroundings of individual research homes. It will have the flexibility of a great Hollywood studio and stage, permitting experiments with complete model homes, without the expensive restrictions involved on an exterior site. A home can be built with cut-away sections, or without a roof, for demonstration or photography.

Full size structural elements can be

**The University of Illinois, through expansion of its facilities, is planning to meet the challenge of the building industry. An accelerated program is designed to aid the builder and home owner by research and education.**

built and tested here. Actual rooms, such as kitchens, or farm house work rooms, can be built and used for experiment and display. The center will provide ways and means for showing its findings directly to the public and to University students.

It will have facilities for short courses and many other activities for builders, contractors, dealers, workers and the general public. It will provide an opportunity for acquainting workers and others with new developments, materials and methods. In this sort of training the University has had considerable experience. For years it has given short courses, including actual experience in many fields from farming to fire fighting.

The three blocks of test houses surrounding the demonstration center, and a plot devoted to a farm home and auxiliary buildings, will provide for studies of materials, construction, operation, new ideas, landscaping, block arrangement and other problems involving small homes. Some of the

homes will be for technical research and others will be actually occupied by families for studies involving typical use. The location of the center is to be adjacent to the University's power plant and close to a railroad. This will offer conditions that will be likely to prevail in communities where low-cost homes may be built, and will provide opportunity for research to improve living conditions in industrial surroundings.

"Plans for the Home Research Center were made with the full conviction that only complete facilities for a major study would interest the building industry and enlist its support," says Scheick. "Several important industrial concerns are waiting to discuss cooperative research agreements. Opinion is strongly in favor of its development because of the absence of such facilities anywhere in the country. The time and conditions are opportune."

The Small Homes Council of the University was organized last year, and William H. Scheick, a registered architect with extensive small homes experience, was named co-ordinator. The Council already has issued the first seven of a series of non-technical illustrated circulars for the information of home planners and owners. It also has helped to arrange locally sponsored home planners' institutes in Illinois communities, providing speakers, literature and other help. Many more institutes are being planned.

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## Apprentice Arc

**Through continuation education and apprentice instruction, the Washburne Trade School of Chicago is linking trade training to industry's needs to meet the rising demand for skilled workmen to care for the tremendous expansion of new building now being planned**



FULL-SCALE building operations are carried on by trade apprentices in the school shop.

**T**HE Washburne Trade School from the beginning has been training apprentices indentured in skilled crafts, and is the sole center of such training in the public schools of Chicago. Sixteen trades entered their apprentices in Washburne in 1940 and the number enrolled was about 1800 at the beginning of the school year 1940-41.

Apprentice training in the Chicago schools began in 1901 and developed steadily through the years, until the Smith-Hughes Act passed by Congress in 1917 gave the impetus, by means of financial help, to the growth of continuation education. The Washburne school was credited as a result of this new movement for vocational education and became the designated school in Chicago for apprentice training. Four crafts—carpenters, machinists, electricians and pattern makers—entered their apprentices in the first year after the creation of Washburne.

The depression in the building and construction industry reduced steadily the number of apprentices, and consequently the attendance, to a low point in 1936, but that recession was followed by a rise toward the old high levels, with a likelihood that these levels will soon be surpassed.

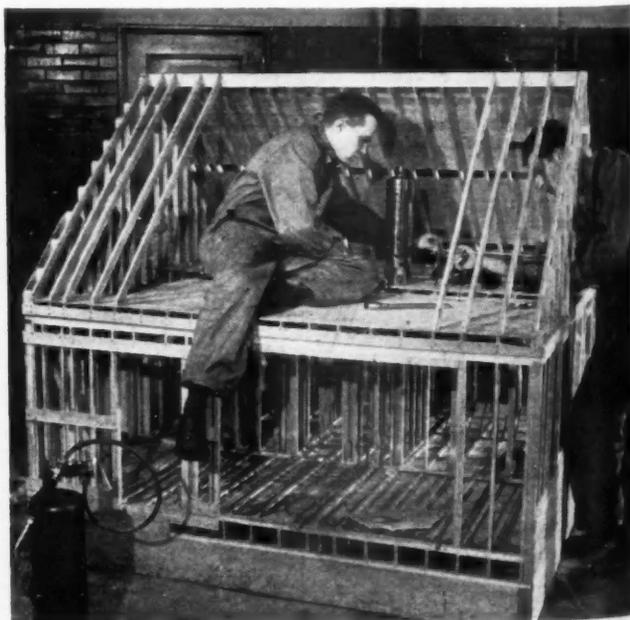
The plan of training followed at Washburne, whereby apprentices come one day a week to school, is now the accepted plan throughout the nation.

Apprenticeship was the means for many centuries by which workers were trained for the skilled crafts. As far back as the records are available, skilled crafts have been passed on from master to apprentice or from father to son. Young workers acquired skill in a trade by working and learning alongside a master or a parent. Apprenticeship provided all that was necessary in the days of simple machine and building operations. Then came the time when with the scientific development of materials a more highly skilled type of craftsman was needed. Special training became necessary to supplement the work experience of the apprentice. In the building trades, specialization tended to break down the craft as a whole. Much of the work of carpentry passed to machines. The need for fully competent craftsmen continued despite the growth of machines and specialization; in fact, it increased. Our modern houses need skilled craftsmen. The men must possess more skill

today than did the building craftsmen of earlier times.

The work of training the apprentice, however, never acquired that close relationship to the skills which the apprentices were learning on the job until the modern plan of training came into vogue, with the apprentice giving one day a week to closely related subject matter and having the benefit of correlated shop work which could not be obtained on the usual job. The balance of the week was spent in the field working for the contractor. The work in the course is designed to develop skill, a specific knowledge of the trade, independence and initiative, fitting the student to become a leading man, foreman or builder.

An applicant must be accepted by a contractor as an apprentice. He must be at least seventeen years old. He must be regular in attendance at school and must conduct himself properly at all times. The course of study for the first two years for the carpentry appren-



ONE-QUARTER scale model of house under construction. The most advanced methods and the latest type of equipment are employed.

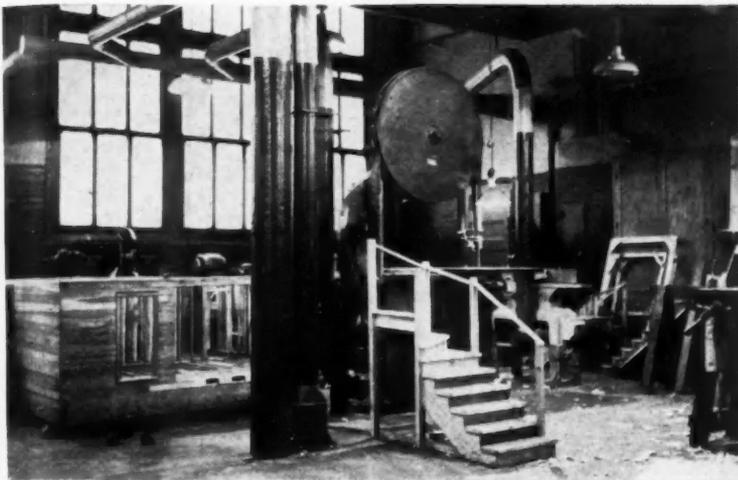
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# Apprentices Are Earning While Learning

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LEFT: View of one corner of the carpenter shop. Right: Difficult stair problems being worked out on small scale.

Apprenticeship consists of shop, mathematics, drafting, and related information. In the last two years estimating, related and applied science are added. Full size operations are carried on when space within the shop permits; otherwise one-half or one-quarter scale models are built. The apprentice puts in a full eight hours on the day that he spends in school, four hours of which is devoted to shop work, and the balance of the time in class and drafting room.

Since the cessation of hostilities evening classes have been established for the use of the returning veteran in order to eliminate any loss of time and to permit him to obtain the maximum income during the apprentice period. A large number of these men who, prior to the war, had several years of training to their credit, have now come back to take up where they had left off. The

average age of this group of men is approximately twenty-two.

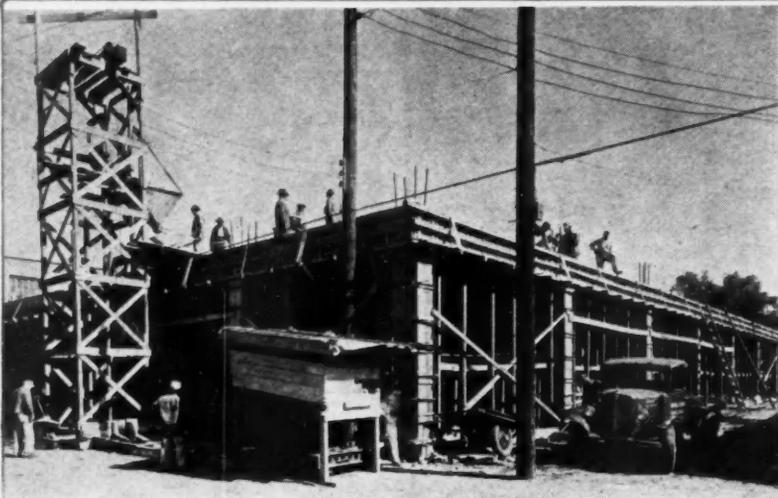
What happens to the apprentices graduated from the school? Do they succeed in the trade and remain in it? Do they become foremen? Do they enter business for themselves? Are they satisfied in the light of experience with the training they received at Washburne? The answers to these questions have been obtained from a study made by a former instructor in the painting and decorating department who secured data, by personal visits, from one hundred graduates of five years' standing. Thirty of these had continued as journeymen, sixteen had become estimators, forty were contractors, eight were salesmen, and six were painting experts. Practically all had reported that the school work had functioned on the job.

CLASS in drafting room where problems are solved and work is developed in preparation for laying out in shop.

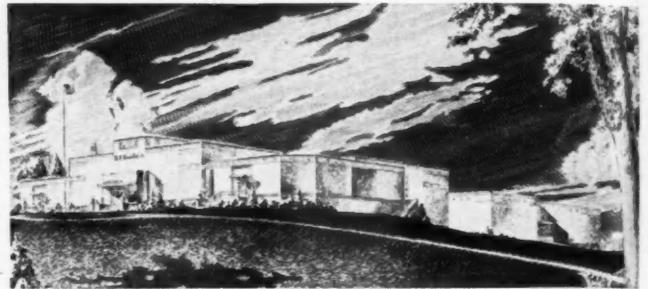


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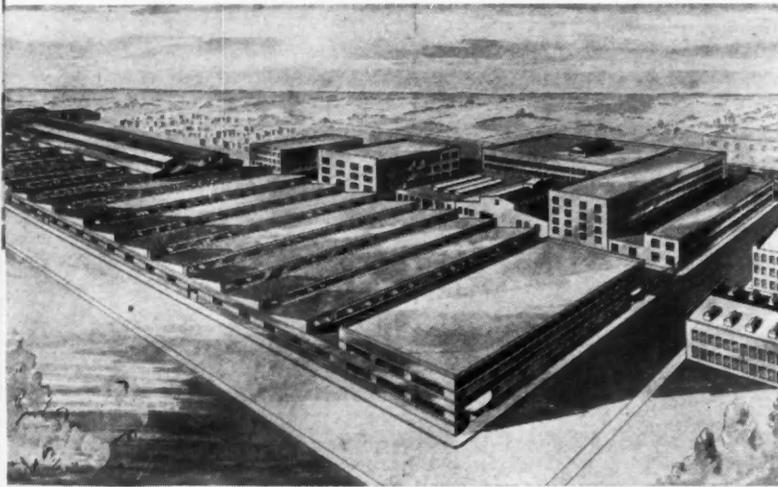
# MANUFACTURERS



Construction has begun on three-story building for Coleman Co.



New research laboratory to be constructed by B. F. Goodrich.



This modern building will be erected at Indianapolis for E. C. Atkins.

**Wartime planning for peacetime markets by building materials producers results in construction of new and enlarged plants and modern research laboratories**

**T**O produce an increased volume of new and improved products for the home building industry, it is vital that plant expansion and research continue at an accelerated pace. Typical of the programs under way are the following:

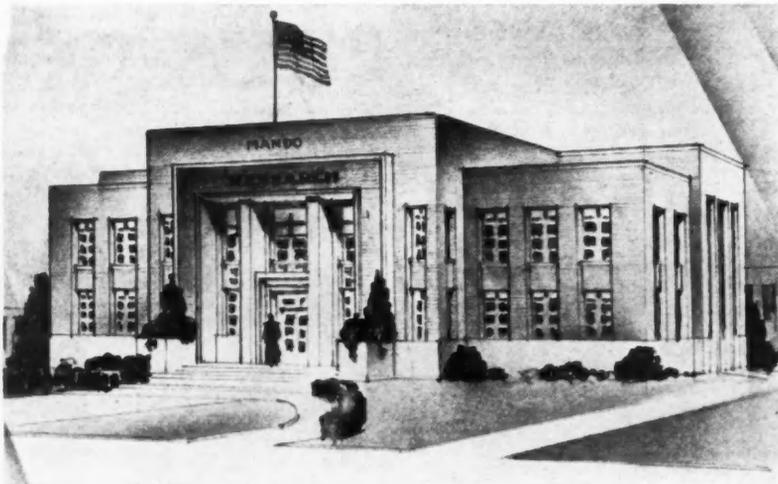
The Philip Carey Manufacturing Co., Cincinnati, has embarked on a program including plants at Lockland; Middletown, Ohio; Perth Amboy, N. J.; Plymouth Meeting, Pa.; and Lennoxville, P. Q., Canada.

The research laboratory is being doubled in size. Another new plant at Lockland is the asbestos cement products factory. Plans include plants at Lockland and Perth Amboy to produce rock wool products.

Ceco Steel Products Corp. has launched an expansion program involving 14 plants from coast to coast. Overall planning has been completed and building has started on two additions to its manufacturing division plant at Chicago, Ill.

Kewanee Manufacturing Co., Kewanee, Ill., has announced early completion of a new addition to its factory consisting of two 30 ft. x 165 ft. bays, and the installation of a new 5-ton overhead traveling crane. The addition represents a 50 per cent increase in factory floor space.

Construction of a filtration plant has been started at International Falls by Minnesota and Ontario Paper Co. The project will require a brick and steel building 129 ft. x 180 ft. in size, with one portion three stories above ground. Another project under construction is a central research laboratory building. The laboratory will be

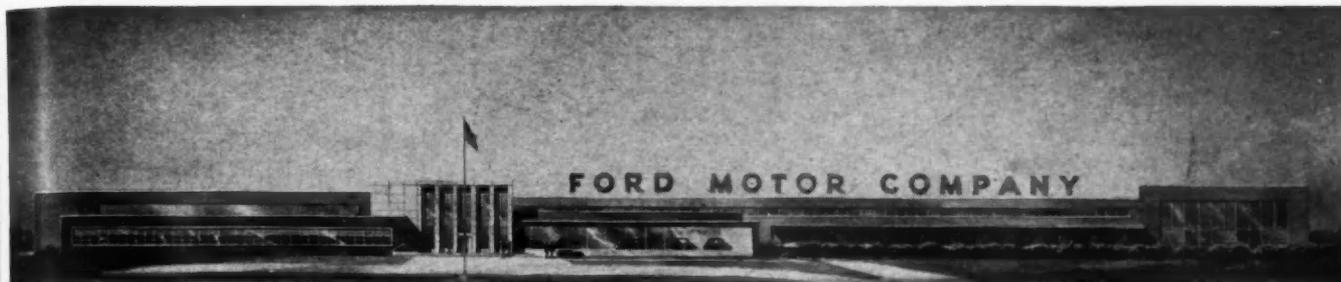


Above: Filtration plant started by Minnesota and Ontario Paper Co. Below: Chicago plant of Ceco Steel Products Corp. to be enlarged.



Jay G. McKenna plant, Elkhart, Ind., for making Kenna Doortrack.

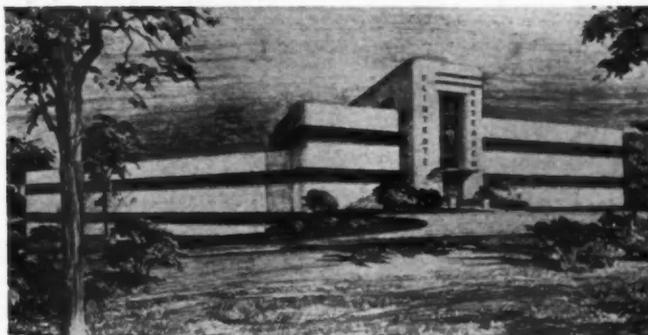
# EXPAND Research and Production Facilities



Addition to the production facilities of the Ford Motor Co. is this new plant located at St. Louis.



Addition to factory of Kewanee Manufacturing Co., Kewanee, Ill.



The Flintkote Co., Inc., has started on research laboratory.

two stories high, 140 ft. wide x 95 ft. deep, and will consolidate the present activities.

Latest announced addition to the production facilities of the Ford Motor Co. is a new assembly plant at St. Louis, Mo., which will add more than 850,000 sq. ft. to the existing space. The project comprises an assembly building, to which is joined a separate office building, separate power house, and related service structures.

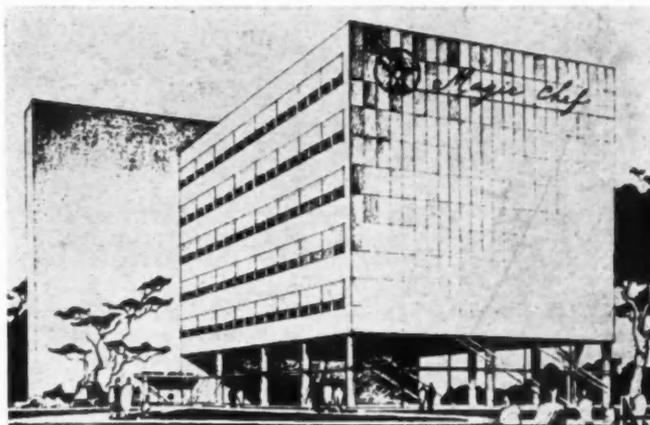
Construction of a new research laboratory at Morristown, N. J., has been announced by The Flintkote Co., Inc. Facilities for the manufacture of asphalt tile, liquid products and additional rubber products are being expanded by the construction of additional plants at Los Angeles, Morristown, New Orleans, Toronto and Chicago Heights.

The American Stove Co., Cleveland, Ohio, has incorporated many of the newest ideas of design in its projected administration building to be constructed in St. Louis, Mo. This six-story building will centralize the principal offices and executive activities. The entire ground floor will be a showroom and entrance lobby with window walls.

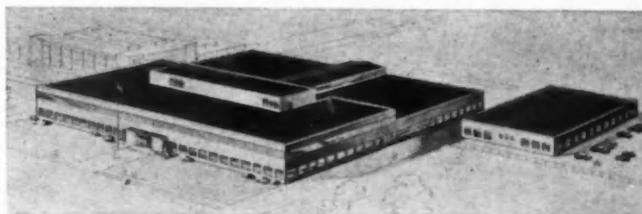
The first requirement in the reconversion program of The Reliance Electric & Engineering Co., Cleveland, Ohio, was more plant. Located immediately alongside the company's main plant, the new building will enclose an additional 48,000 sq. ft.

A three-story brick and concrete addition to the Coleman Co., Inc., factory in Wichita, Kan., will add

*(Continued to page 126)*



Six-story building to be constructed by The American Stove Co.



The first step in General Motors program is assembly plant.



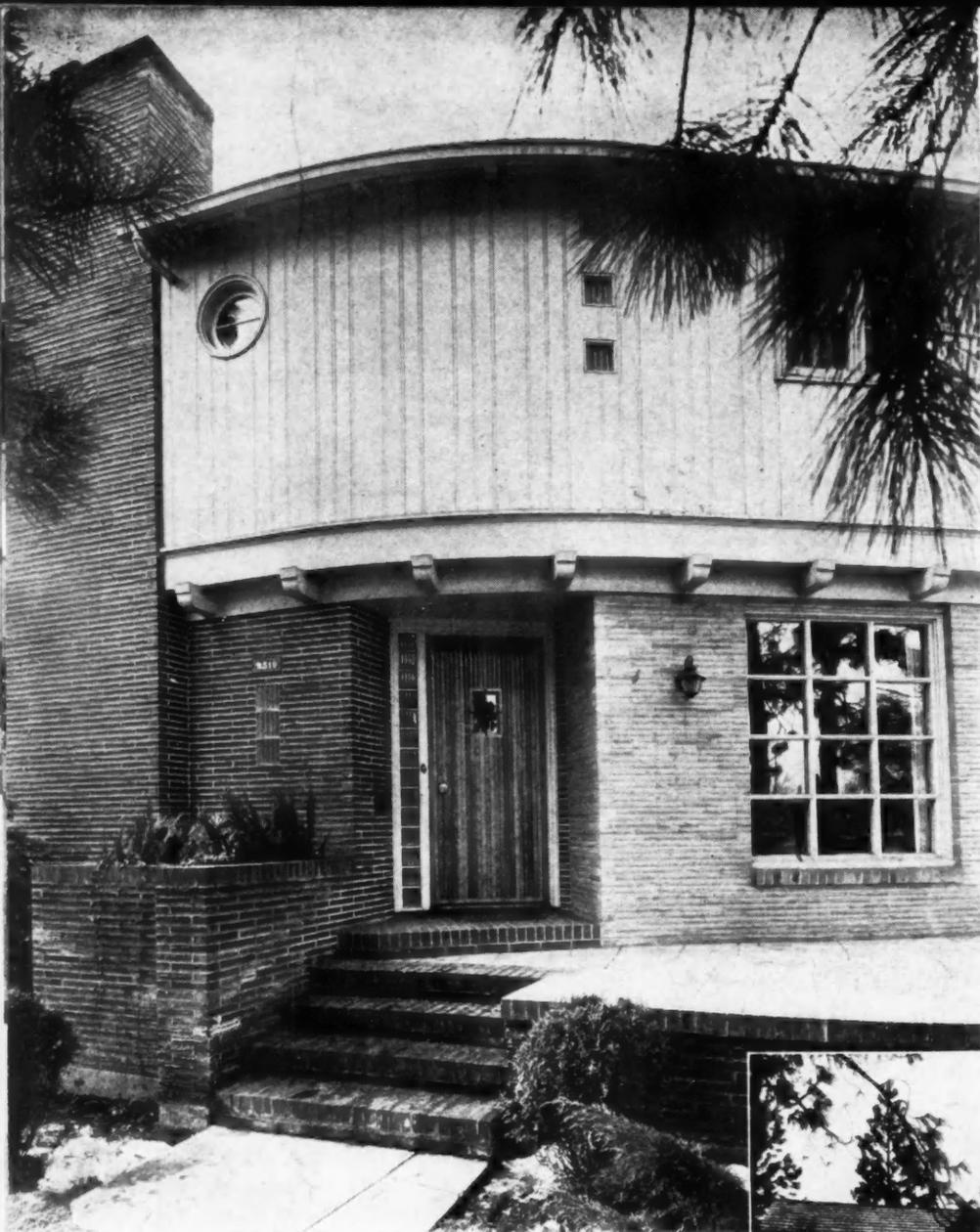
Chevrolet Motor Division of General Motors has work under way in the Los Angeles area.

## An Architect Pion

**A**RCHITECT, for the War Department, of the stupendous, mysterious atomic bomb plant at Hanford, Wash., G. A. Pehrson of Spokane—long rated as a pioneer shatterer of the traditional in the engineering and construction world—is now revealed as a creative worker also in the less spectacular field of home building.

The home illustrated here was designed and constructed in Spokane for his son-in-law and daughter, Mr. and Mrs. Dale Lawrence, just before the war restrictions put a stop to everything except minimum housing and to all tests of new materials. It has been rated as one of the most distinctive of the smaller houses built in the West during the past decade, combining in its design use of materials and items of home equipment and many ideas and details that are trail-blazers for the better home of tomorrow.

The exterior presents an interesting combination of Roman brick, glass block, stucco, vertical siding, horizontal boarding and cedar shingles. View



**VIEW** of entrance to Lawrence home revealing unique reeded door made of light-colored maple and the effective use of glass block to admit light into hall closet and entry.



**THE** front elevation of the Pehrson-designed home presents an interesting combination of Roman brick, stucco and vertical siding with cedar shingle roof adding attractiveness.



**INTERIOR** view of the well-lighted living room of the Lawrence home shows Spanish plaster finished walls, exposed fir rafter ceiling and recessed wall radiators. Corner fireplace of Roman brick not shown.

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# Architect Pioneers New Building Ideas in This Home

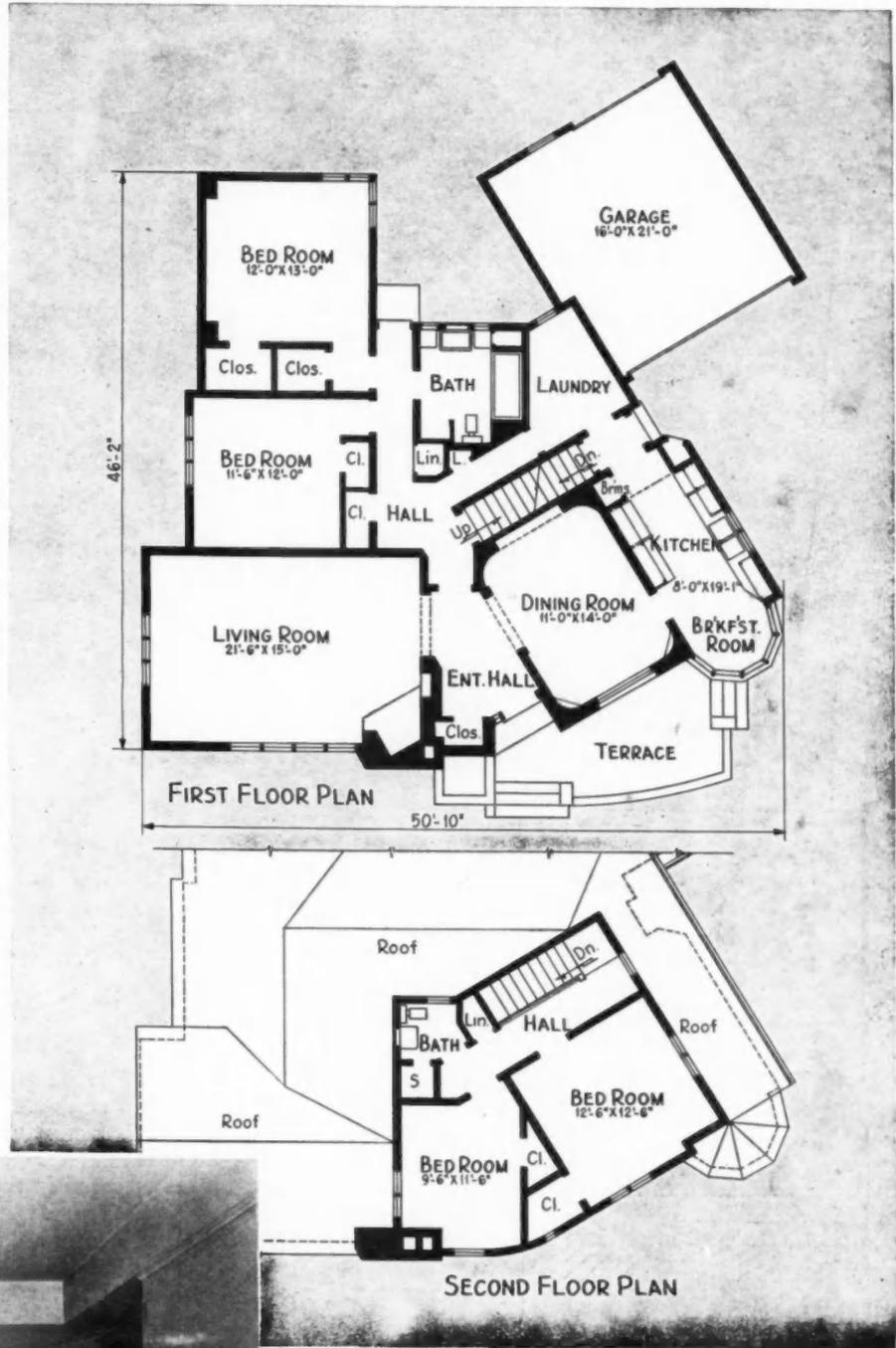
windows of large dimensions are prominent features, assuring a cheerful, well-lighted interior. The entrance door is of reeded design in light-colored maple.

As for the interior of the house, the living room is outstanding. It is a room 15 by 21½ feet with exposed rafter ceiling, side walls 8 feet 6 inches high to the plate, and high point of the ceiling 12 feet above the floor. Illumination is from concealed sources over the windows and from switch-controlled floor and table lamp outlets. Switches are noiseless. Radiators are recessed in well insulated wall pockets under the casement window group and in the side walls. The Roman brick corner fireplace and overmantel, including built-in bookcase, carry the motif and color scheme of the exterior brickwork inside.

Entrance hall is given individuality by use of vertical redwood paneling. The floor in the hall is ceramic tile, in pinks, browns and tans. The living room and dining room floors are of fir and are carpeted.

This house has two bedrooms and bath downstairs, and two smaller rooms with bath on the second floor, which is limited to the small section above the entrance and dining room. The kitchen galley with adjoining half-pentagon breakfast alcove is a happy feature of this home. Nearby is the laundry room with convenient access to the heating plant in the partially excavated basement.

In floor area this house figures 1575 square feet, with 370 square feet added for the garage.



THE distinctive layout and room arrangement achieved by Architect Pehrson are revealed by the floor plans above.

**Prominent Spokane architect earns distinction of having developed one of the most significant houses to be built in the West during recent years by incorporating in son-in-law's home unusual design and detail ideas—ideas that will be features in homes built for tomorrow**

THE galley-like kitchen with adjoining half-pentagon breakfast alcove is interesting feature of the Lawrence home.



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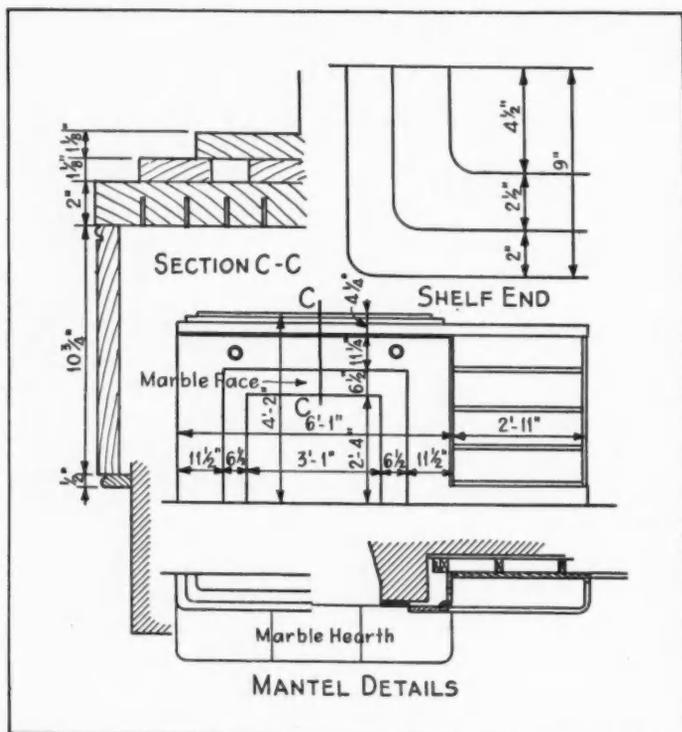
view of the  
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Corner fireplace  
brick not shown.



THE attractive modern Colonial house shown above is well adapted to its site.

## Pleasant Living—Keynote of Traditional House

Good details combine to make a well balanced exterior



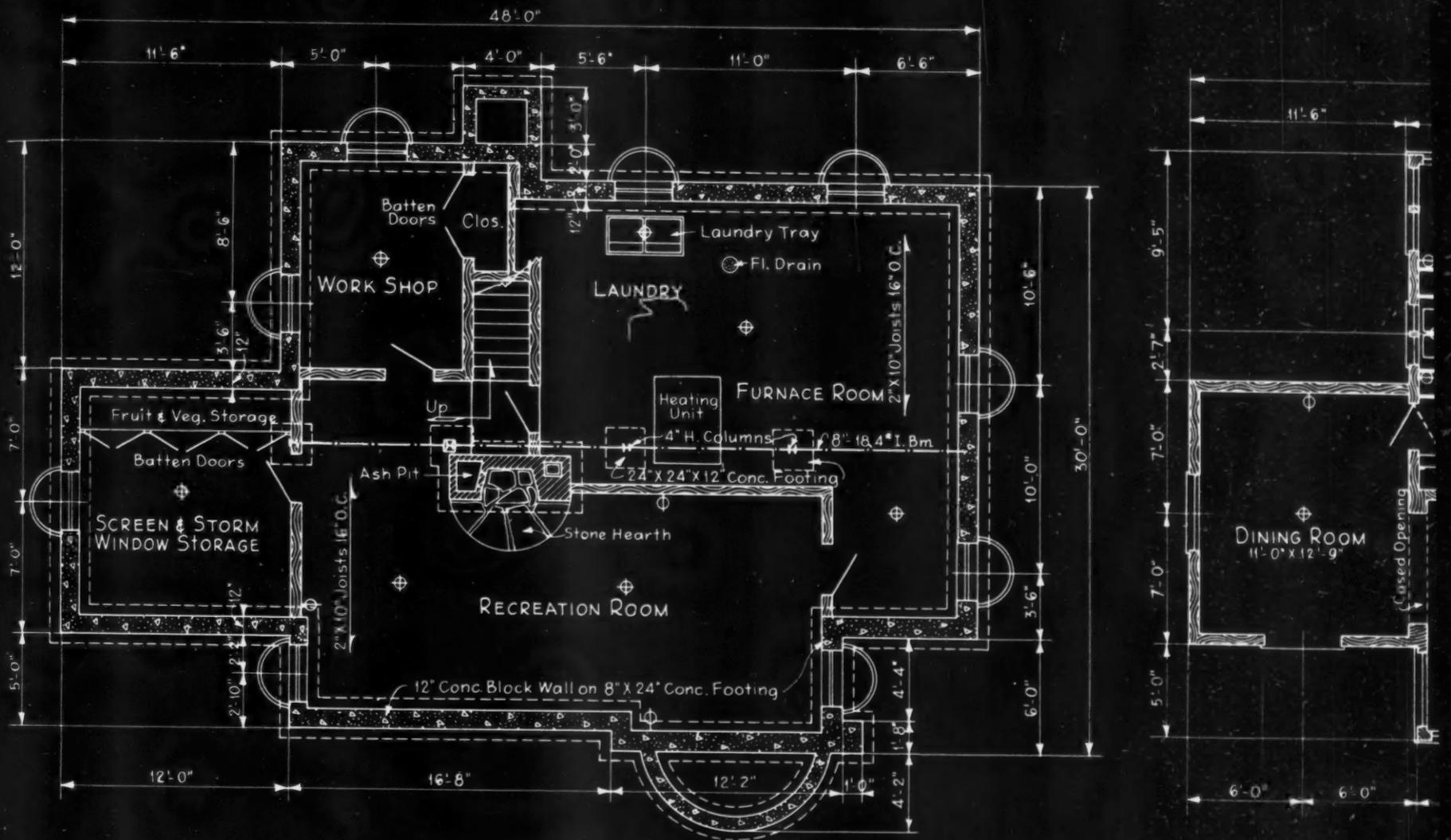
THE combination of native stone and plywood, in conjunction with wide cedar shingles has been effectively used by Norman R. Johnson, St. Paul architect, on the exterior walls and roof of this house located in that city.

These walls are painted white, the blinds are finished in a dark green shade, and the roof is stained a dark gray.

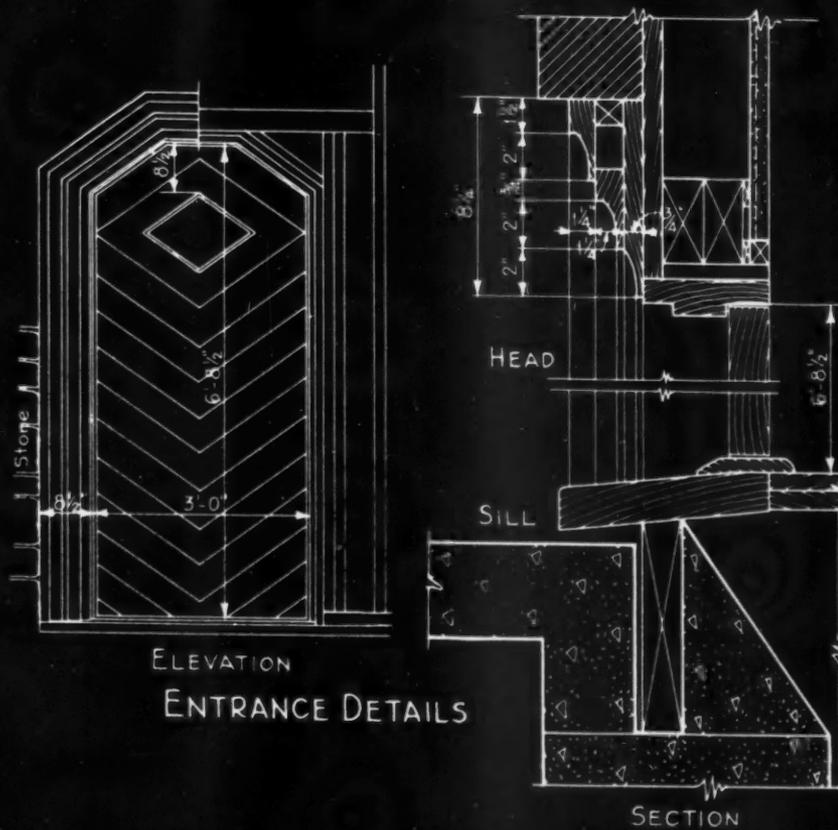
The layout of the first floor is very compact, yet with ample space for all activities. Provision for normal expansion is provided in the unfinished attic where an additional bedroom and bath can be made available. A stair now leads up to this attic which is used for bulk storage. Through the use of corner windows cross ventilation is obtained for all rooms. Six good size closets are distributed throughout the first floor. Separation of the sleeping rooms from the activities portion and the ample provision for dining is a noteworthy feature. The generous size kitchen provides for ample cupboard and work space. The well lighted breakfast nook would be the delight of every woman.

The basement area which extends under the entire house contains storage, laundry and recreational facilities.

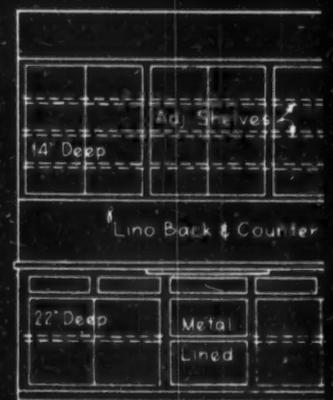
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BASEMENT PLAN



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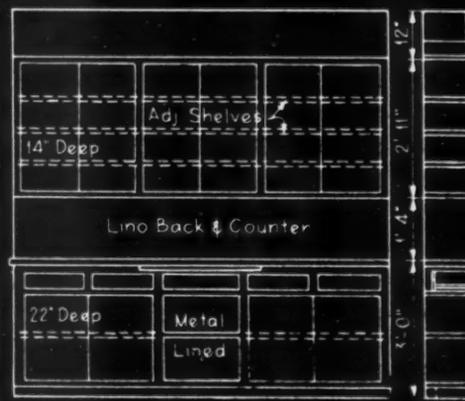
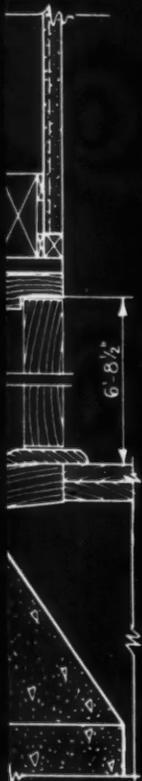
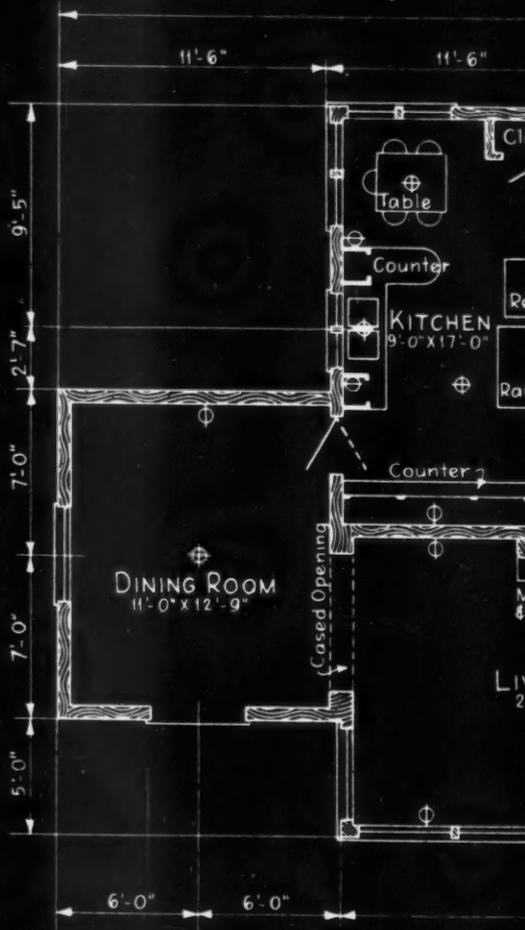
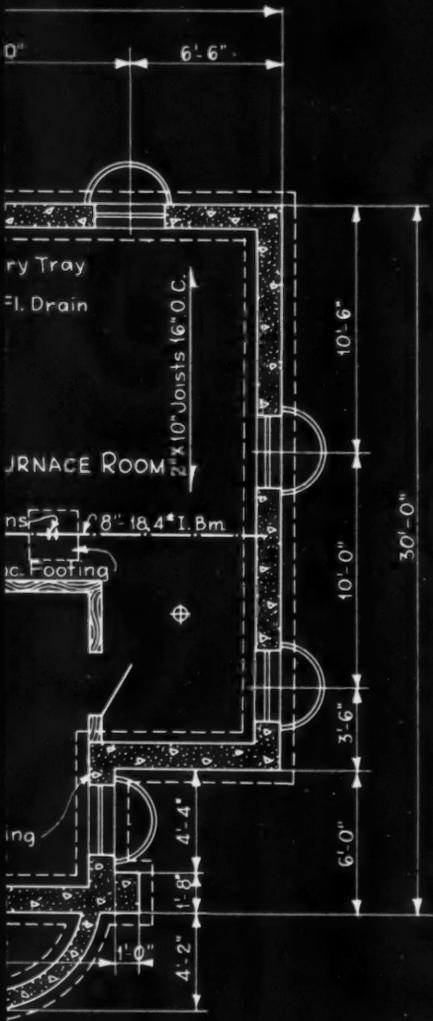


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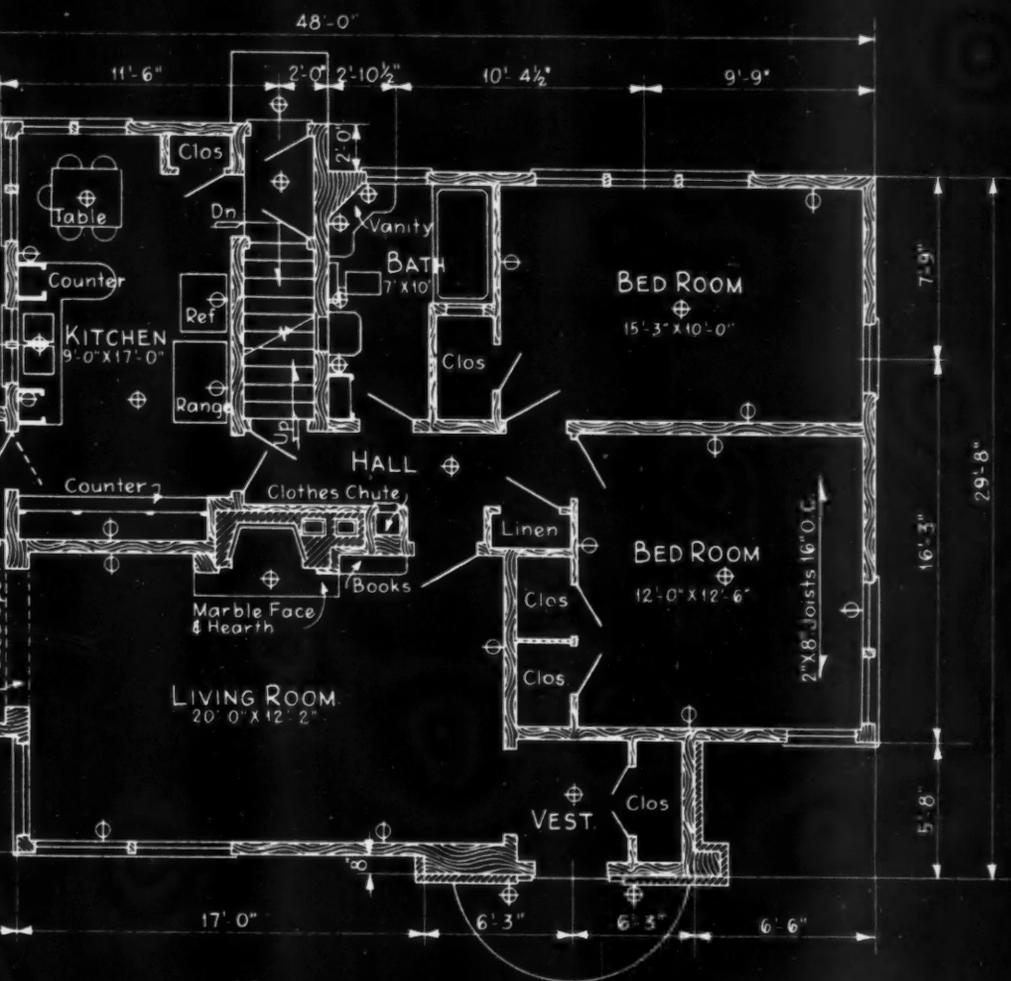
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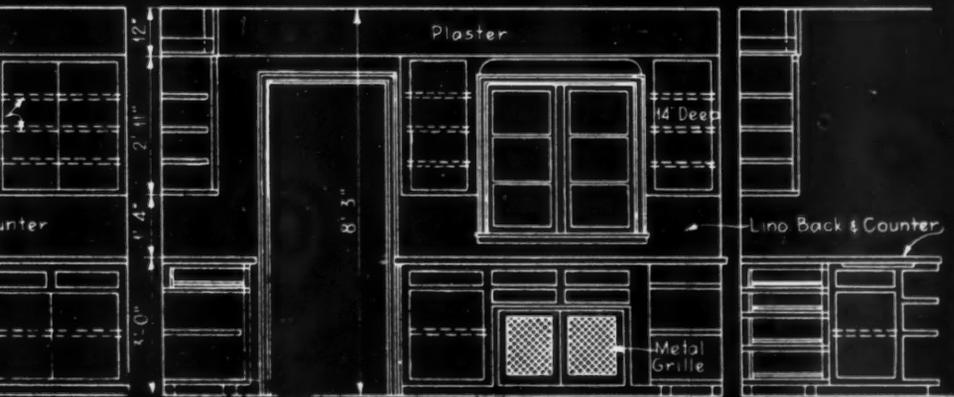
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KITCHEN



FIRST FLOOR PLAN



KITCHEN CABINET DETAILS

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| NORMAN R JOHNSON  | ARCHITECT |
| St Paul   | Minnesota |
| Simmons Boardman Pub Corp, 105 W Adams St Chicago, Ill. |           |



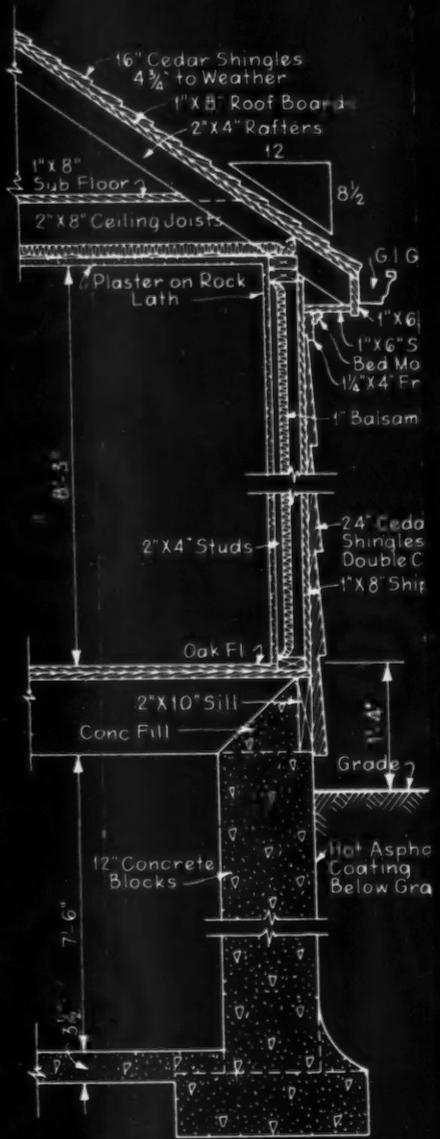
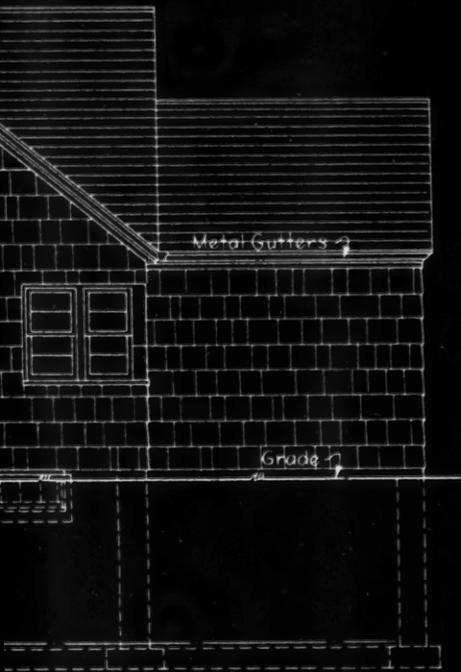
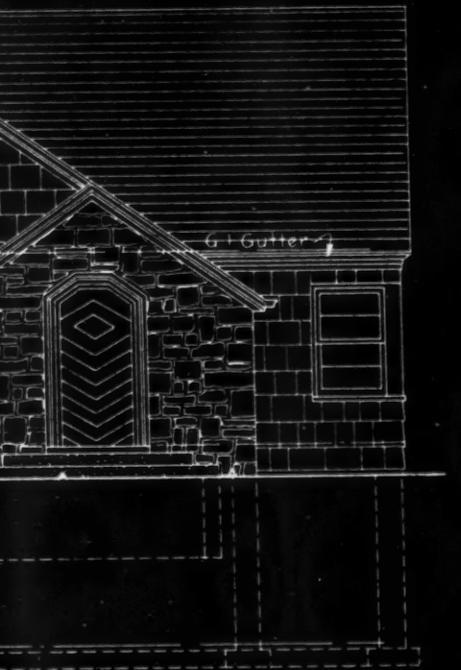
FRONT ELEVATION



REAR ELEVATION

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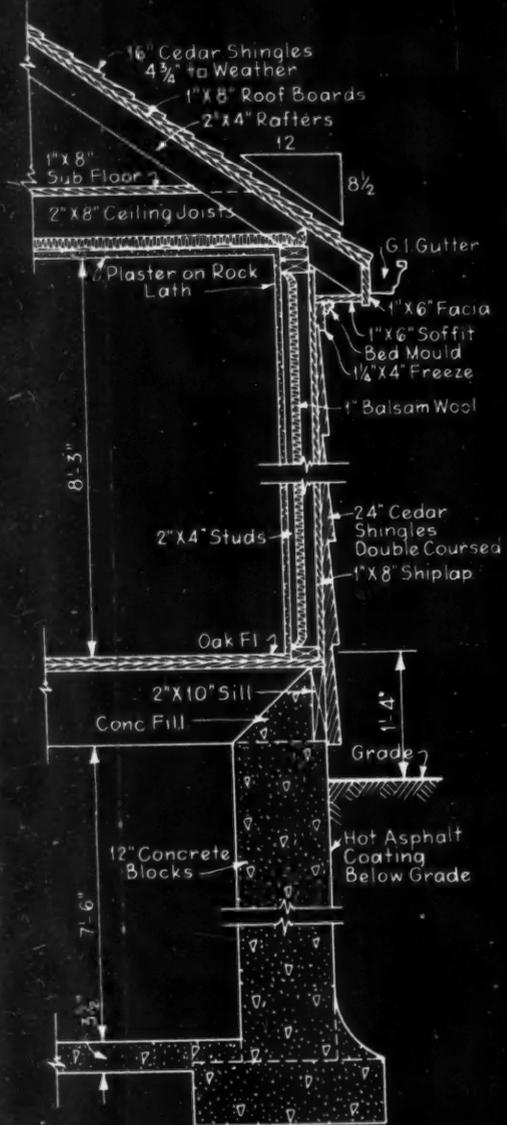
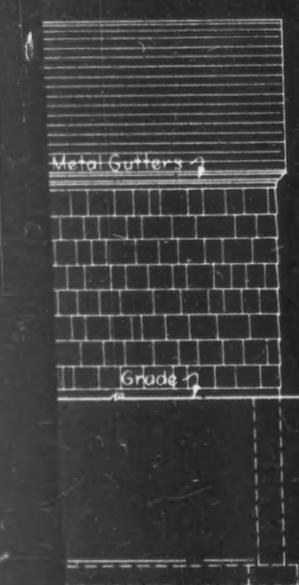
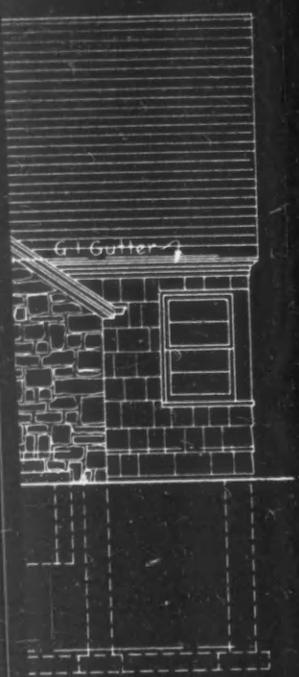
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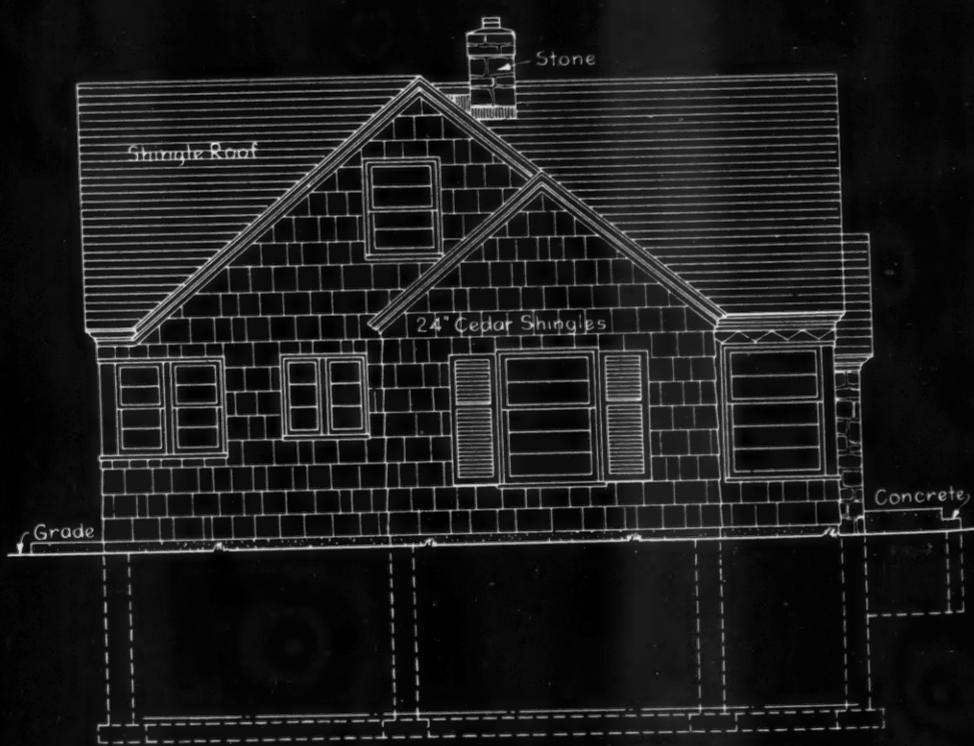
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WALL SECTION



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

# Four Prize Homes from Chicagoland Competition

Presented here through the courtesy of The Chicago Tribune are designs among the award winners in its \$24,000 Prize Contest. Other designs will appear in later issues

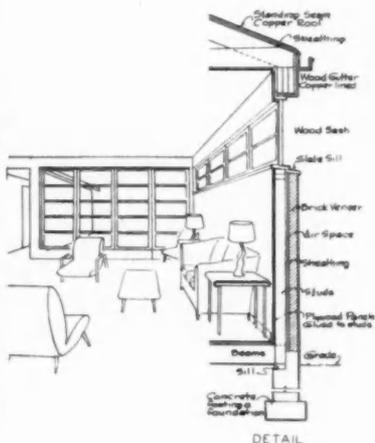
THE purpose of The Chicago Tribune's recent \$24,000 "Chicagoland Prize Home Competition" was to encourage competent architectural talent to create designs of single-family dwelling units, without limitation as to period or style, but consistent with good taste.

Announced late last year (*American Builder*, Nov. 1945, p. 102), the contest evolved around the solution to three different housing problems, based on the needs of three different typical family groups. By varying the age, sex, and number of the members in the three family groups, the competition was purposely planned to produce a variety of designs that would be attractive, practical and economical.

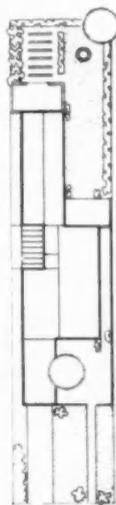
Shown on this page, and the lower half of the following pages, are designs submitted as solutions to Problem No. 1, which required a design for a dwelling having not more than 1,100 square feet of floor area, suitable for a 30-by-150 foot site, and adequate to accommodate a family of father, mother, and son 6 years old. Interestingly, about half the 938 contest entries were as solutions to this problem.

In the upper half of the following pages is a design submitted in solution to Problem No. 2 in the competition—a home having not more than 1,400 square feet of floor area, suitable for a 50-by-150 foot site, and adequate for a father, mother, son, 12, and daughter, 8.

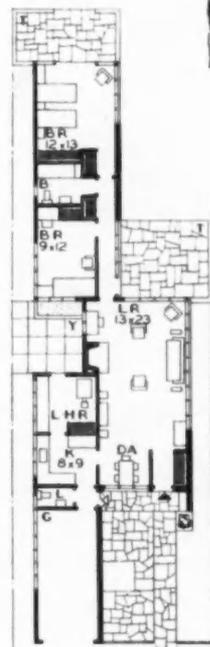
Practicality of the winning designs was assured by the makeup of the jury of awards, which included builders as well as architects, and by the rules of the contest which specified that the jury of awards choose "the best designs of dwellings which are marketable to the public and attractive as investments to builders and lending agencies, and which can be executed into finished homes by the average small home building contractor at total costs which would not be considered excessive, uneconomic, or wasteful in relation to the floor area.



DETAIL



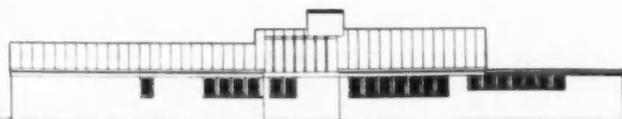
PLOT PLAN



FLOOR PLAN

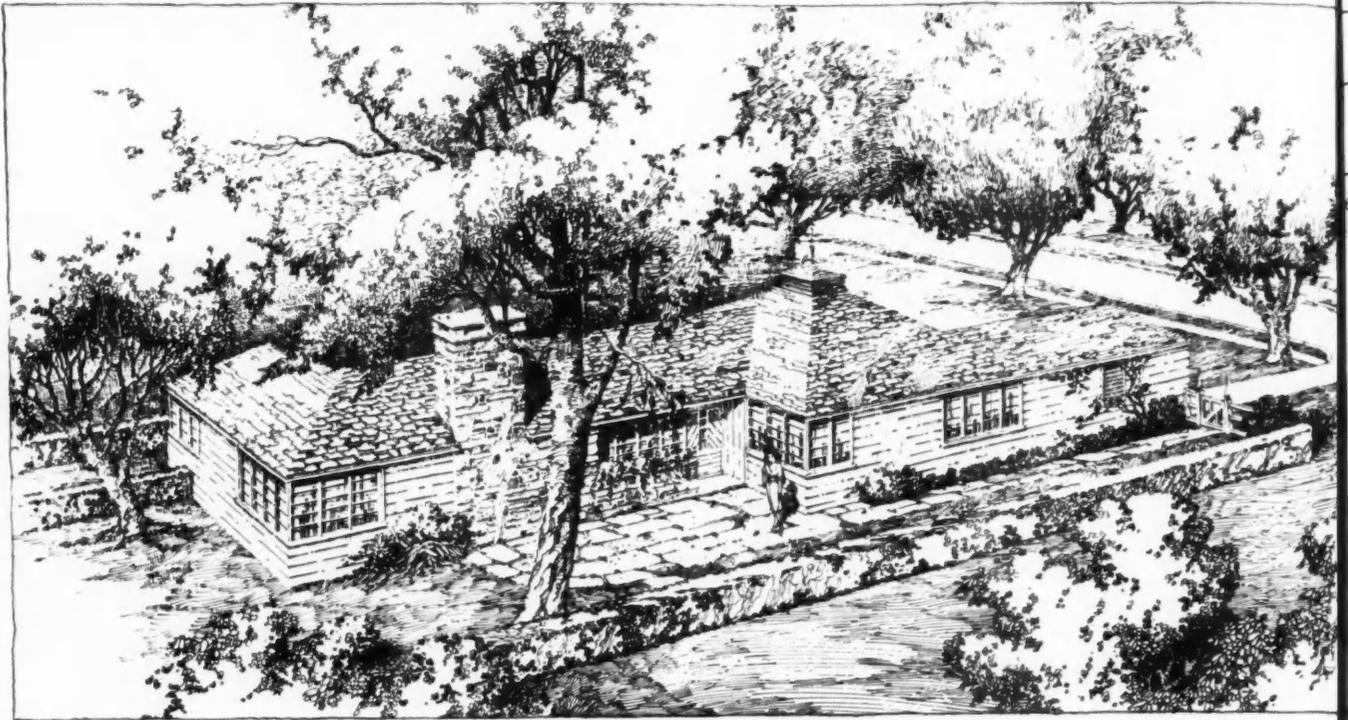


SOUTH ELEVATION

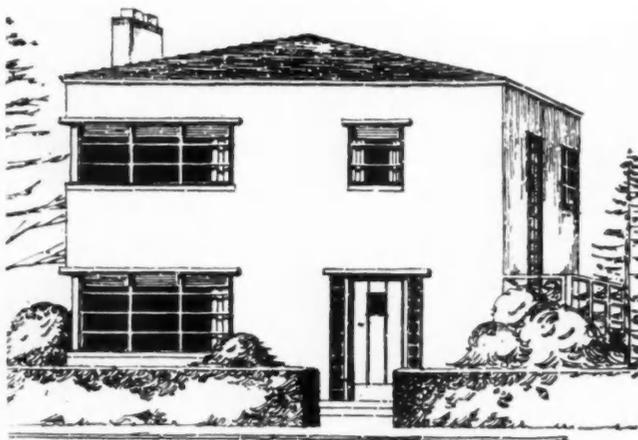


EAST ELEVATION

DESIGNED in contemporary style by J. Floyd Yewell, 10 East 40th Street, New York City, this solution to Problem No. 1 in the contest takes advantage of the building site's ample depth and minimizes the disadvantages of its limited width. Convenience and compactness have not been sacrificed for the layout is a highly practical one. The rooms are of good size, the living-dining area is especially spacious, and the bedroom wing has four closets and a large bath. French windows command a view of the garden plot to rear.

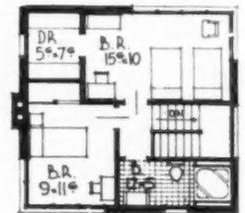


**Ranch House with Homelike Appearance Designed for a**



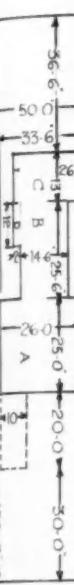
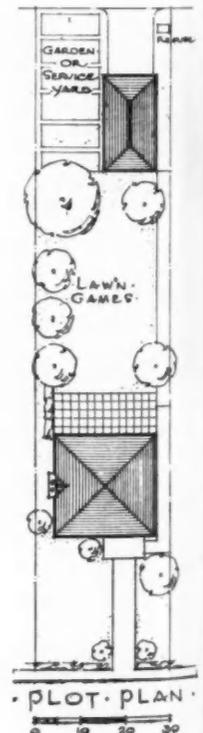
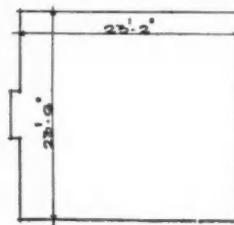
**Two-Story House for 30-Foot Lot**

AN ATTRACTIVE design which employs such features as corner windows and glass block and still keeps a traditional air. The house is suitable for a lot 30x150 feet and is intended for a family of three, as another solution to Problem No. 1 in the contest. Though the living room is large for a home of this type and the owner's bedroom provides dressing and wardrobe space, it is to be noted that the total floor area is only 1,100 square feet. The designer is Charles W. Schroeder, 5926 S. Rockwell St., Chicago, Ill. Features of this house are the large windows and French doors in the living room which open onto the garden in the rear; a downstairs lavatory and the coat closet conveniently located near the front door; the kitchen with a dual purpose cabinet opening from the dining end of the living room as well as from the kitchen. This cabinet is so arranged that the counter top can be used as a dining table for pick-up meals. When closed it forms a paneled end to the living room.

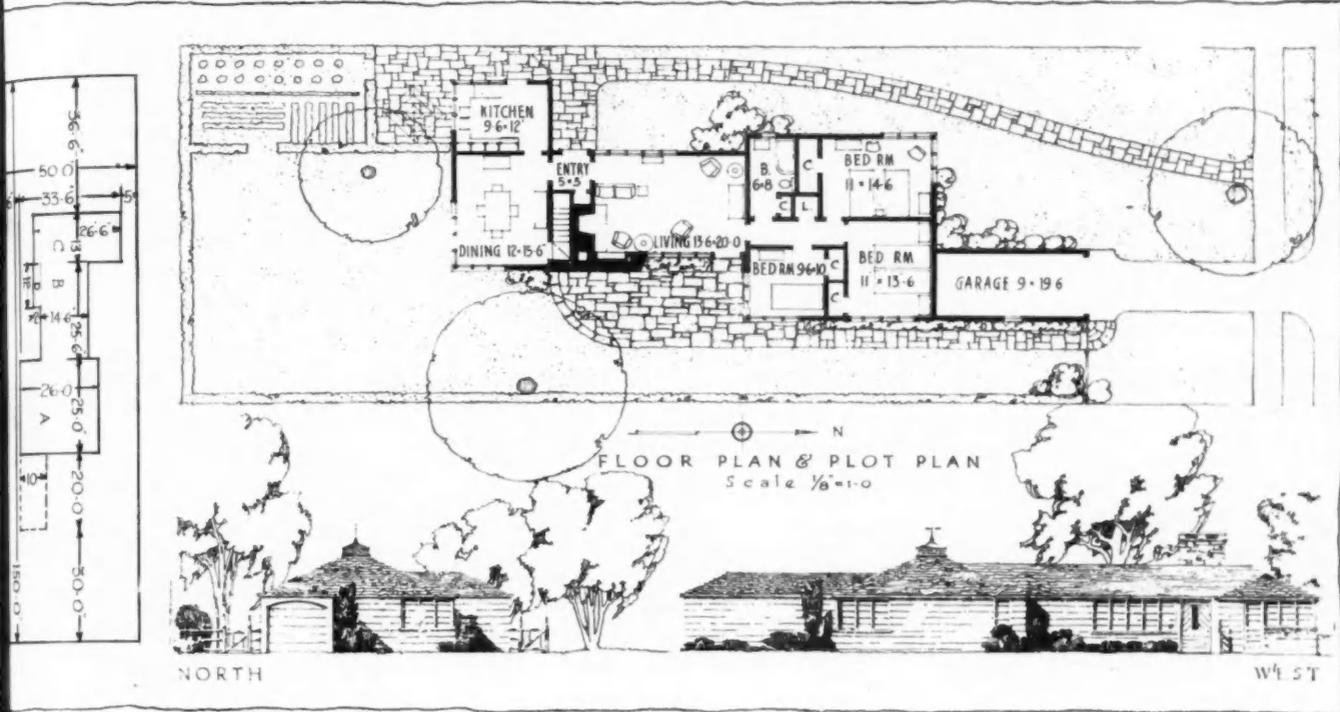


FLOOR AREA COMPUTATION

25'-2" x 25'-0" = 5444' FIRST FLOOR  
 25'-2" x 25'-0" = 5444' SECOND FLOOR  
 12' CHIMNEY  
 11000' TOTAL AREA

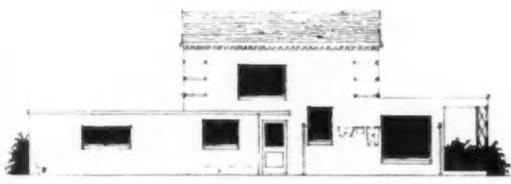


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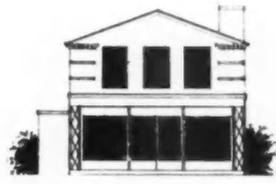


## Plan for a 50-Foot Building Lot

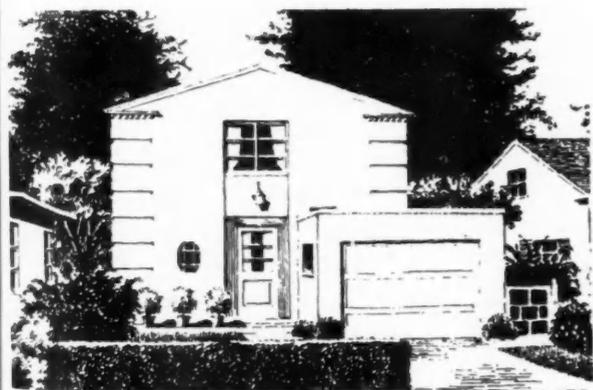
THIS pleasing one-story home, whose plan is such that a maximum of light and air is assured, was co-designed as a solution to Problem No. 2 by Edward H. Glidden, Jr., and Eben D. Finney, 326 St. Paul Place, Baltimore, Md. The house is so laid out that no one part of it utilizes much more than half the total width of a 50-foot lot. This arrangement adds to the feeling of openness created by the generous and attractive window space.



SIDE ELEVATION

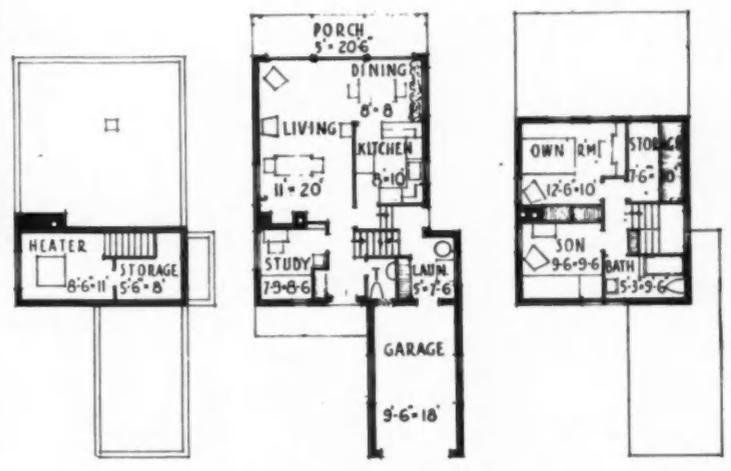


REAR ELEVATION



## Good Living Area on a Small Lot

A BRICK house, though small in total floor area and intended for a lot only 30 feet wide, still contains a good sized living and dining room. Designed by Walter J. Thies, 3117 W. Main Street, Dayton, O., as a solution to Problem No. 1, it reveals unusual imagination and skill in treatment of detail and handling of masses. The severe and almost windowless front wall suggests a dim interior, but the floor plans show that the living and dining rooms receive ample light, as well as ventilation, from the rear and sides.



BASEMENT PLAN

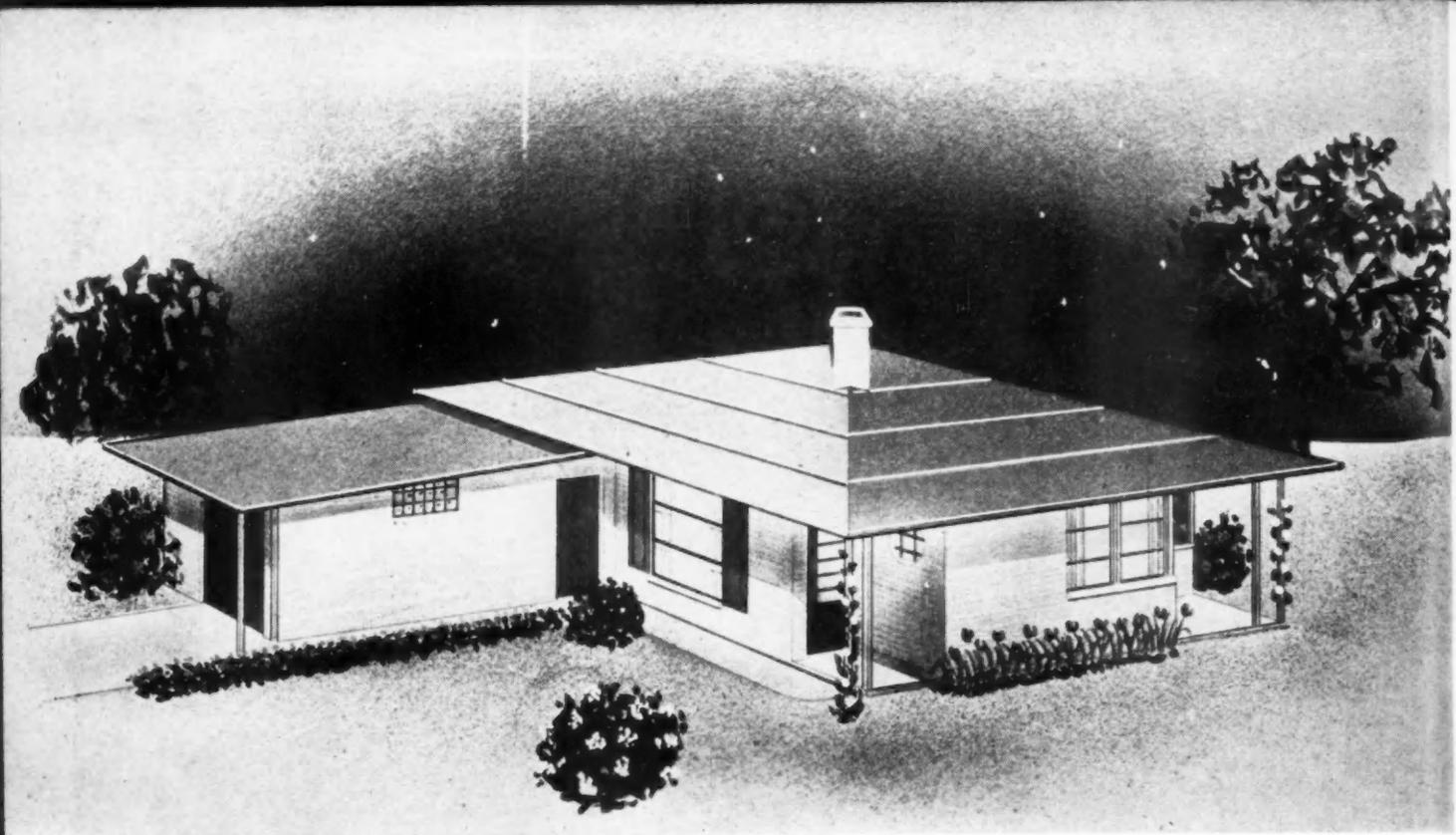
FIRST FLOOR PLAN

SECOND FLOOR PLAN

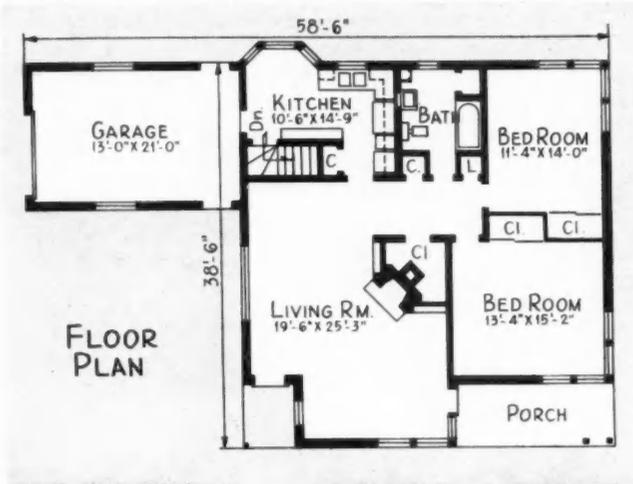
EA 20'5" x 30'5" = 625.25  
 EB 20'5" x 5'0" = 2 = 51.25  
 ED 20'5" x 2'3" = 471.50  
 TOTAL + = 1148.00

TOTAL + = 1148  
 TOTAL - = 63  
 TOTALS QFT = 1085.00

= C 4'6" = 24  
 = E 6'6.5" = 39  
 TOTAL = 63



COMPACT five-room house with a modern touch.



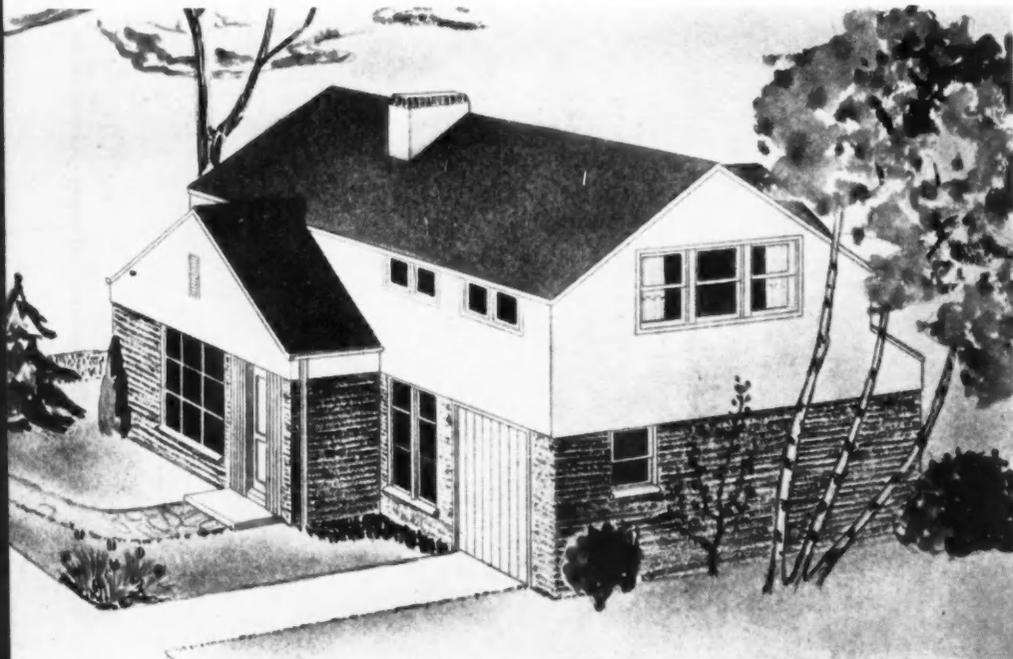
## Homes You Can Build

ON a wave of increasing costs, material shortages and governmental restrictions it is becoming more difficult for builders and designers of small homes to stay within the limitations that have been established for them, and still produce individually styled homes.

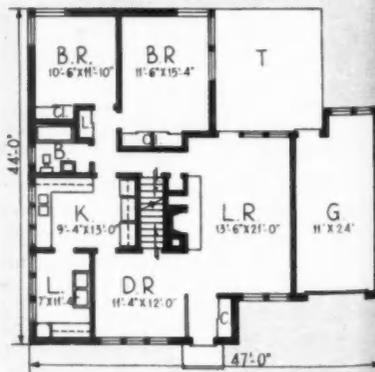
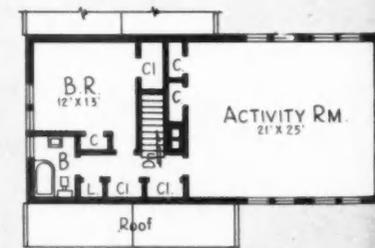
To meet this problem Certified Homes Bureau has made available a number of distinctive designs from which houses can be built on priorities for veterans' occupancy. A number of unusual features are incorporated in each design. Among these is the provision of utility rooms for laundry purposes on the first floor of two of the houses

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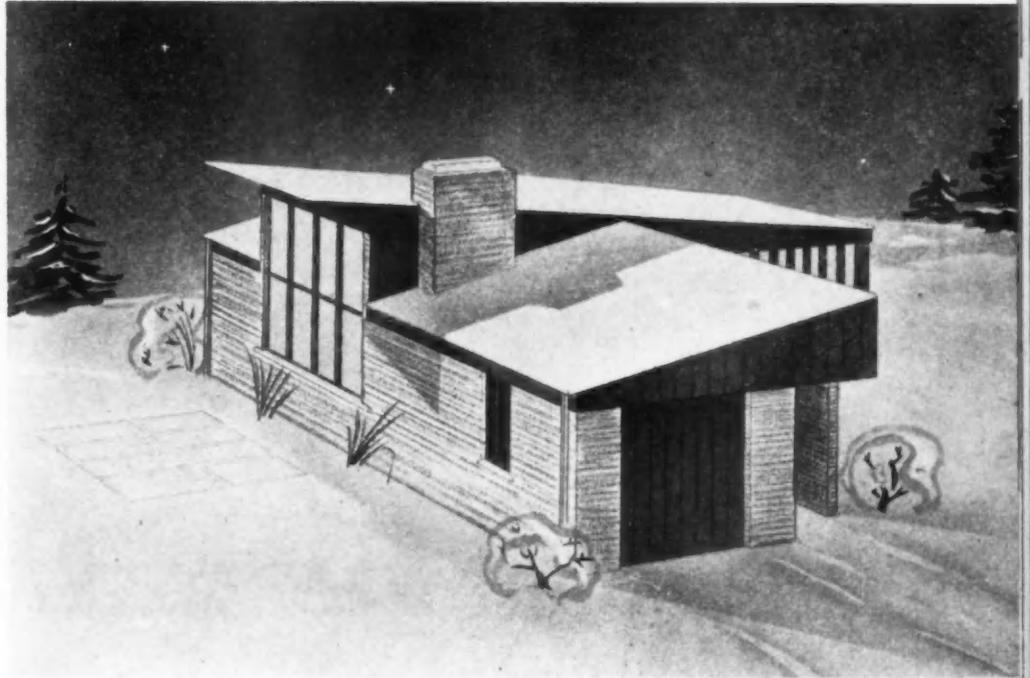
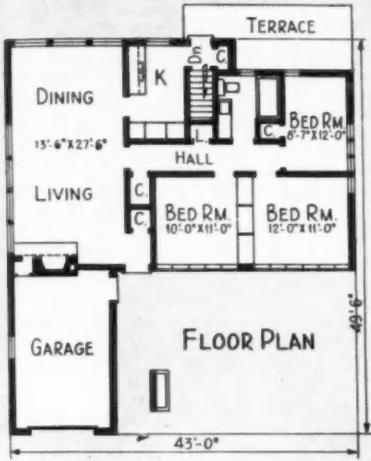
A PL



THE design of the above house is typical of the current style.



Four houses from the Certified Homes Bureau that can be built under CC priorities for veterans



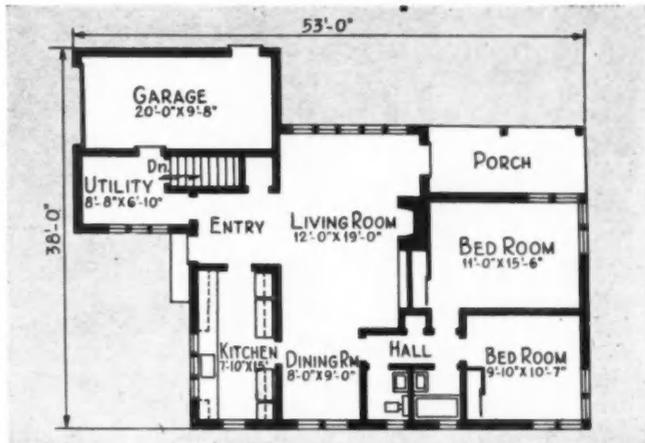
A THREE-BEDROOM house with a distinctly modern flavor.

# Build For Veterans

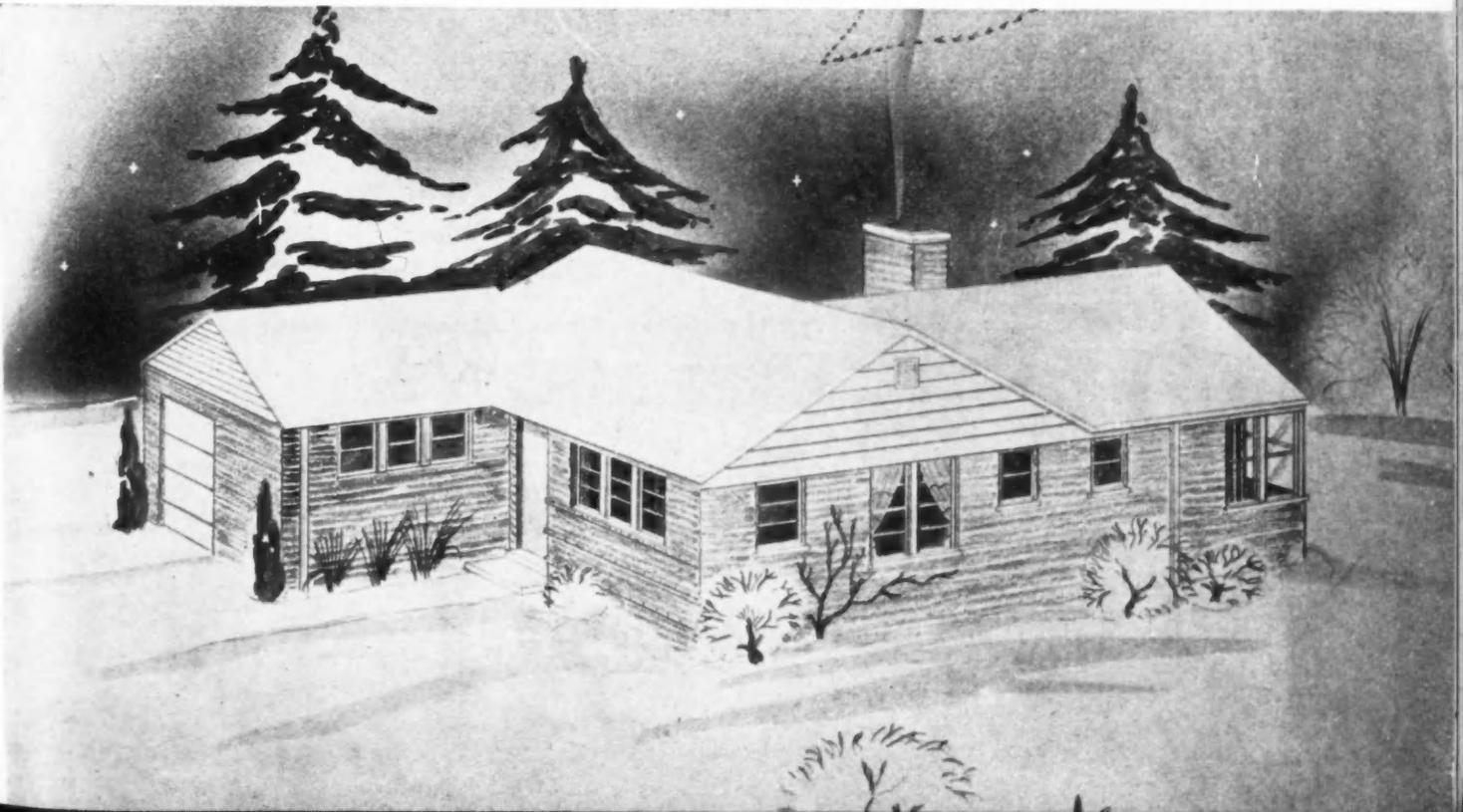
shown here. In both of these the heating plant is placed in a half-basement. In the other houses full basements are provided.

In the large house at the bottom of the opposite page it may be necessary to leave the second floor in an unfinished state to keep the house within limitations. The owner can then complete the work at his leisure.

All plans have a minimum of two bedrooms with ample closet space.



A PLEASING arrangement of five rooms and attached garage.





VETERANS are assured of substantial homes with planned electric kitchens in M. R. Carb's Fort Worth development.

## Fort Worth Builders Plan:

# Veterans' Low-Cost Homes Complete with Electric Kitchens

**F**ORT WORTH, Texas, builders are not agreed upon the number of houses that can be built in the area this year, but they are agreed that the houses built will be compact and low in cost. Mostly for returning veterans, and as complete as possible in equipment is the consensus. Despite materials difficulties, several builders made predictions ranging from a modest ten houses by the end of the year, to at least three hundred.

Of six representative builders in Fort Worth, three said they had been custom builders before the war, but would build low-cost houses to meet government priorities until the materials situation changes. The others said that they were primarily developers of small homes and would build G.I. houses now, and later continue to build the same type for general sale.

Joseph S. Driscoll, who developed a residential and shopping community in the Arlington school area, will put up approximately fifty dwellings to complete that program during 1946. He also plans to construct some stores to complete the community's shopping section.

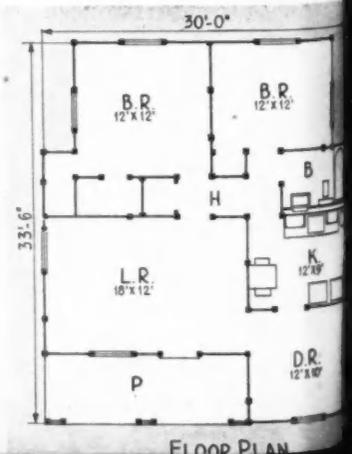
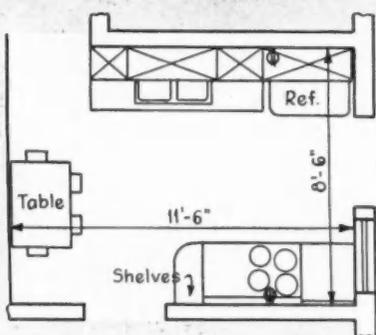
Driscoll's houses will sell for about \$7,000 and will be of masonry construction, with wood floors and wood frame roofs. He embarked on the clay product venture because he could not procure suitable wood materials. Almost all of the houses being built at Fort Worth have utility rooms instead of basements.

Driscoll's most successful project before the war was a group of houses built to sell at prices between \$5,000 and \$6,000 in 1939. In those buildings he incorporated many devices ordinarily found only in homes between \$10,000 and \$15,000.

As with other builders in this Texas livestock capital, Driscoll's main aim is to get homes built and to make them as complete as possible. He wants to include air conditioning, all-electric kitchens with automatic dishwashers and garbage disposals, and laundry facilities.

"We must build houses with more windows here to let people benefit from the sun," said Driscoll. "That means more double-glass that insulates against sun, and keeps out winter's chill."

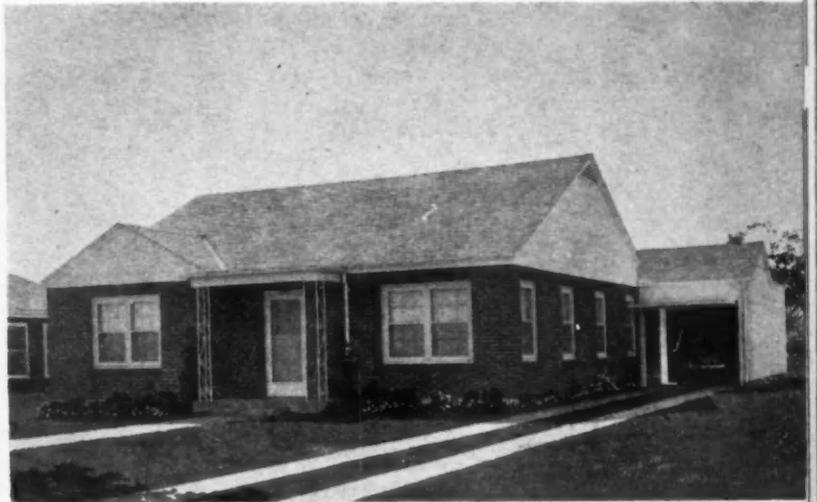
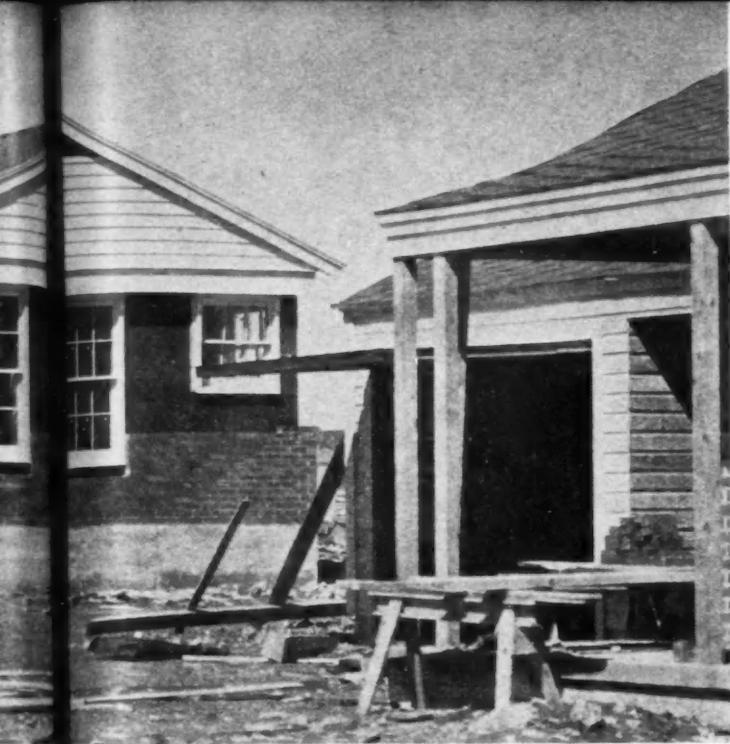
BUILDER Luther T. McClung plans to erect three hundred Celotex-Cemesto homes, with layout and equipment as shown below.



FLOOR PLAN

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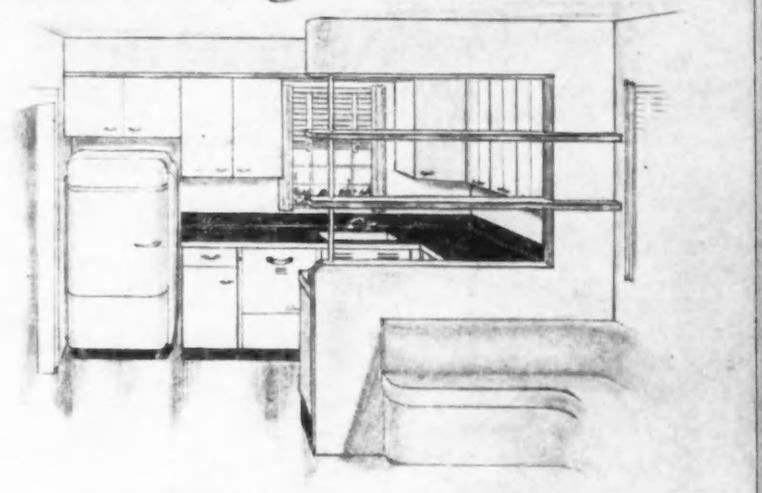
ONE of the last Title VI homes built by Taylor and Todd.

**Installing complete electric equipment in the kitchen at the time of construction and financing as part of the house adds livability and eases the financial burden for young veterans and their families. This proved practice assures quick sales and satisfied customers**

Luther T. McClung, a youthful builder, attracted attention before the war by his innovations in home building. With an established reputation as a custom builder, he will introduce Celotex-Cemesto houses on a mass basis to sell between \$5,000 and \$6,000. McClung describes the houses as semi-prefabricated from plans by Birch D. Easterwood of Easterwood and Easterwood, a local architectural firm.

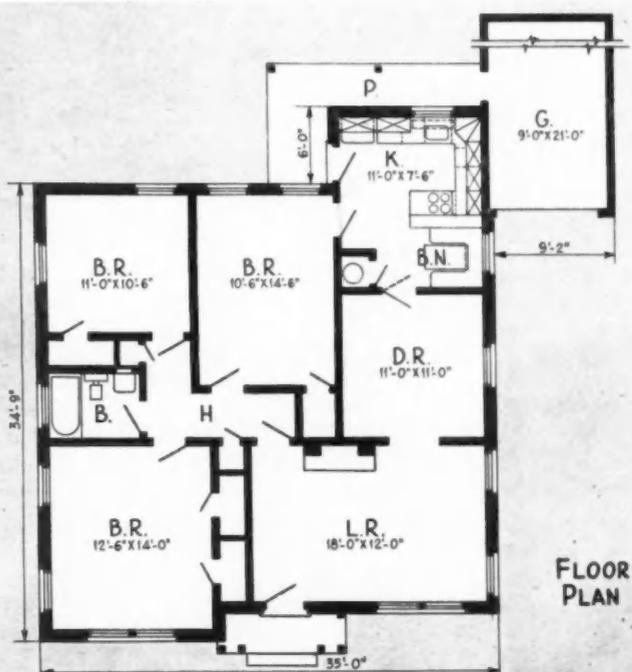
While the new material, a patented ply-vegetable and wood board, has National Housing Authority approval, McClung is awaiting approval from local building authorities. He emphasized completeness in homes, large volume production and low prices as the three approaches for builders to take in breaking the present housing shortage. During wartime he built more than 1,000 Title VI houses in four Fort Worth projects. He expects that all of the 300 houses of Celotex construction will go to returning veterans.

Elaborating on his aim for completeness in houses, McClung said that the all-electric kitchen is the most



PERSONALIZED electric kitchen for the home above.

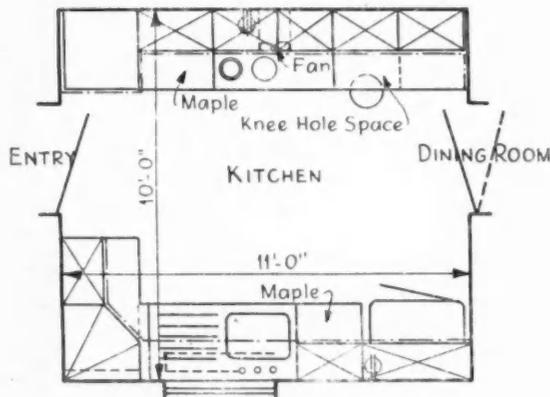
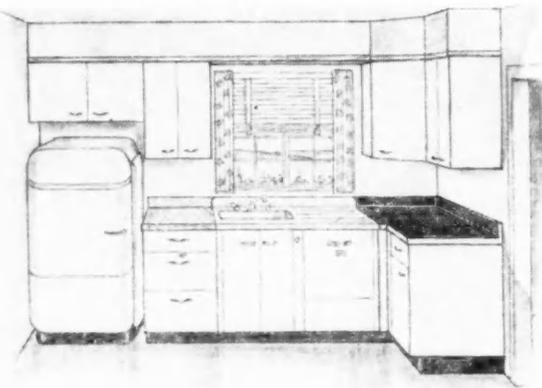
EXTERIOR of Builder McClung's Cemesto house.



PLAN of the Title VI house for the veteran with a large family.



MODEST homes with electric kitchens are planned by Joe Driscoll.



dramatic advance in comfort among innovations for post-war housing. He is arranging for a local mid-town location to construct a model of the semi-prefabricated Celotex house. He expects to make arrangements with a local store for a Hotpoint complete kitchen and other furnishings for the show house.

Mrs. Grace Kell Jung, builder of custom-planned houses before the war, is constructing a group of two-story G.I. homes, all located on her own property, to sell for less than \$7,500.

She does not feel that all materials available now are safe to use, but from what she has seen of the all-electric kitchen equipment, she is ready to put it into every home built to sell for \$7,500 or more. Even some of the smaller houses will have complete electric kitchens with dishwashers and disposals. Mrs. Jung is impressed with the amounts of money that the people say they want to invest in new homes. She has customers who want homes under G.I. regulations who are ready to pay cash to offset the limits imposed by government regulations. "All the people who have come to me are anxious to get electric work-saving devices installed as part of the original construction," she said.

M. R. Carb is building several small homes with compactness the dominating characteristic. At the offices of J. E. Foster and Son, Inc., with whom he is associated, he disclosed that he will build several four-apartment buildings with all work-saving devices in the kitchens. Carb has built houses in Fort Worth for many years, retiring from the field for several mid-'30 years, later returning to the industry.

The Carb homes under construction use wood, brick and stone. All are one-story and aimed at the \$5,000 to \$8,000 market.

Taylor and Todd are selling the last of more than 600 Title VI houses, and are starting several projects on their own property for sale to veterans. The new houses will range in price from \$6,000 to \$7,000.

When the G.I. building program is completed, Taylor and Todd will return to custom home building. Emphasizing that costs must be kept down to assure ability to pay, W. B. Todd said that complete electric equipment installed at the time of construction would have a tendency to ease mortgage payments, since electric kitchens would increase the loan value beyond the actual cost of the equipment.

THIS personalized electric kitchen demonstrates the efficiency that can be built into low-cost homes by careful planning.



CUSTOM-built homes like one above will be demanded by many.

A project that dwarfs all other Fort Worth developments, if not any housing project any place, is a 26 million dollar community development approximately eight miles out on Camp Bowie Boulevard. A. C. and J. T. Luther have a property under development that will include 15,000 homes on 1,680 acres. Among its major features are more than 100 acres of lakes, a one-half million dollar country club, and a 1,000 seat theatre. Five hundred workers are now engaged on a 60,000 square foot club house. Also under construction are more than one hundred houses to sell for \$8,500 to \$10,000, all for veterans.

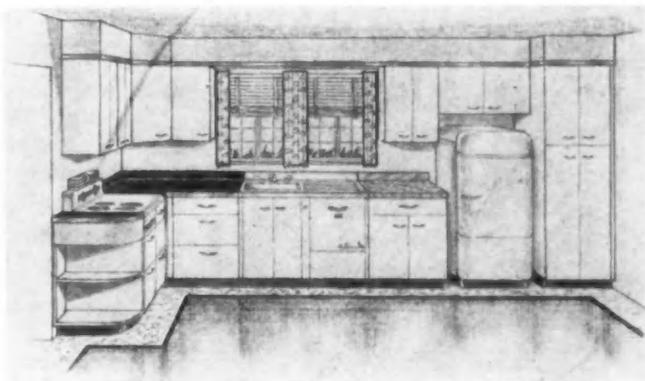
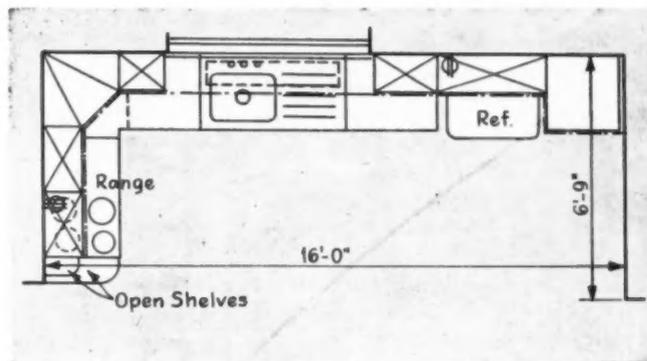
The Luther brothers have brought Architects Carl B. Schoeppl from Miami and F. W. Jamison from Los Angeles to Fort Worth to aid on the comprehensive design. Local architects are handling the specific house plans.

The homes under construction are one- and two-story brick veneer, modern Spanish influence types. Most of them are the single-story type, with conventional two-bedroom arrangements. Earl Wilson, an associate, said that the kitchens would be equipped only with sink and cabinets—some wood, others metal. He added that the Luthers and he would like to be able to procure all-electric kitchens for every house.

J. T. Luther spoke of utility rooms in each house to include home laundry equipment. Asserting that America's money will be spent for homes during the next few years, he emphasized that he and his associates would adapt any good product that engineers, architects or industry put on the market.

An official at the Texas Electric Service company at Fort Worth said that the company is supplying electric planning service to consumers, appliance retailers, and builders. The company sponsored an electric home appliance show at the Will Rogers Memorial Coliseum during the last week of April. The spokesman said that almost all national electric appliance manufacturers participated in the showing of their new equipment in Fort Worth.

John Fellmann, kitchen sales manager for the Hotpoint home appliances mentioned by McClung as the brand sought for his model home, said that his company is planning with builders at Fort Worth and other places to provide all-electric kitchens and laundries for new houses. Present limited production does not permit extensive operations, but distributors are working on plans to sell appliances to builders through the company's "selective dealers," or under other arrangements that satisfy all concerned.



HOMES built to order are Mrs. Grace Kell Jung's specialty. The one above has a personalized electric kitchen for better living.



# How-To-Do-It Pointers

## How to Save Time when Figuring Cubic Contents

WM. L. MOORE, Evanston, Ill., in submitting this idea says: "Time can be saved by multiplying feet and inches together without converting inches to feet. This method involves cross multiplication as shown in example below."



### EXAMPLE

|        |  |                          |
|--------|--|--------------------------|
| 3'-11" |  |                          |
| X      |  |                          |
| 2'-2"  |  |                          |
| <hr/>  |  |                          |
| 6      | ← 1 <sup>st</sup> Step                                 | 3' X 2' = 6'             |
| 1-10   | ← 2 <sup>nd</sup> Step                                 | 2 X 11 = 22              |
| 6      |  | $\frac{22}{12} = 1'-10"$ |
| 2      | ← 3 <sup>rd</sup> Step                                 | 3 X 2 = 6                |
| 7-18   | ← 4 <sup>th</sup> Step                                 | 11 X 2 = 22              |
| Or     |  | $\frac{22}{12} = 1.83$   |
| 8'-6"  | ← 5 <sup>th</sup> Step-Add Up                          | or 2                     |
|        | ← 6 <sup>th</sup> Step-Convert Inch to Feet and Inches |                          |

THEN BY SIMILAR METHOD

|       |  |
|-------|--|
| 8'-6" |  |
| X     |  |
| 5'-6" |  |
| <hr/> |  |
| 40    |  |
| 2-6   |  |
| 4-0   |  |
| 3     |  |

46'-9" Actually this is Cu. Feet or 46.75 Cu. Ft.

Checking Results By Slide Rule Accuracy  
 $3.92' \times 2.17' \times 5.5' = 46.75 \text{ Cu. Ft.}$

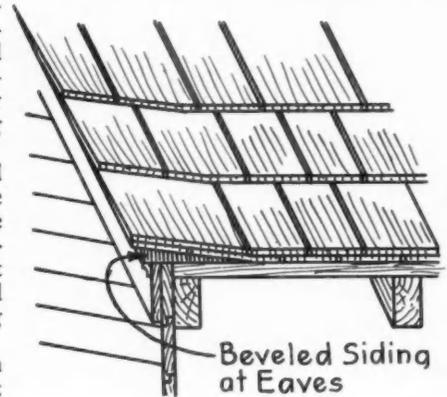
"Cubical contents of rooms, cabinets, interiors, limestone or concrete blocks or any rectangular mass can be quickly and accurately determined."

## How to Prevent Rain from Dripping Over Gable Ends

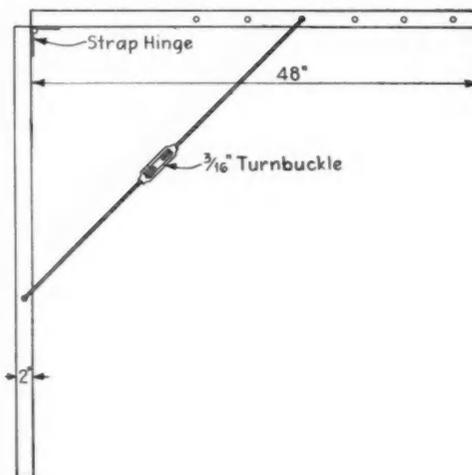
BRUCE D. ROWELL, Breerton, Wash., states that rain dripping over the gable ends and wetting siding and causing formation of icicles in the winter can be prevented by following this suggestion:

A length of 6-inch cedar bevel siding is nailed along the gable edge with the thin edge of the siding placed to the inside, giving the shingles a slight slant away from the gable end and thereby preventing the annoying drip.

This suggestion can be used in connection with remodeling work or new buildings.



## How to Make an Adjustable Square

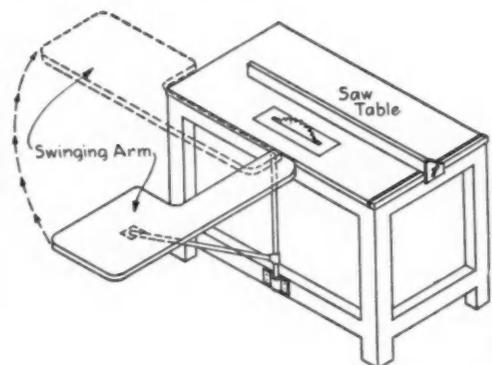


W. A. WOODARD, Volga, S. Dak., who has been a regular contributor to the How-to-Do-It pages of the *American Builder*, says, in submitting the following suggestion: "I find that the adjustable square can be used for variable angles in connection with applying wall board, plywood, fibre wall board, stonewall and other materials of a similar nature."

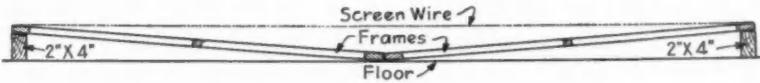
To make the square, use two pieces of 1 x 2 four feet long, one light strap hinge, one heavy duty screen door brace and one standard turn buckle, and assemble as shown in sketch.

## How to Improve Use of Circular Saw

RAYMOND HERDMAN, Kewanee, Ill., in submitting this idea says: "This addition to the circular saw makes it possible for one man to rip or cross cut long pieces of lumber. The arm should be set in a hinged socket so that it can be turned from one position to another or can be removed entirely if desired."



### How to Stretch Wire on Screen Frames

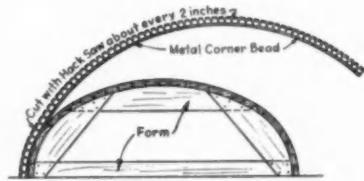


WM. R. BOLLMAN, Gridley, Calif., in presenting his idea for stretching wire over screen frames, states that his method will take less time and is much easier to do than the way that was published in the March issue of *American Builder*.

"Lay the screen frames down end to end on a flat surface, preferably a cement sidewalk. Then nail the screen wire on one end, roll the

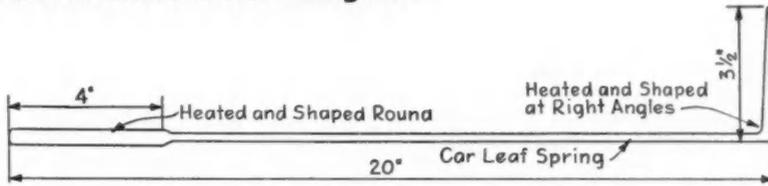
wire to the other end, raise up end of frames and place 2 x 4 on edge as shown in drawing. Pull wire tight by hand and nail on other end. Remove 2 x 4's and force screen frames down flush with sidewalk thereby automatically tightening the wire. Any number of screens can be placed in position and completed at the same time."

### How to Turn Metal Beads for Arches



JACK CARL, Montrose, Colo., says: "I am a plasterer and I have an idea that will be of value to your readers: I take the wood template for plaster arch and nail it to the floor, and then secure the corner bead to the end of the template with a nail to keep it in a fixed position. Then cut flange of bead on lower side about every 2 inches or less. Hold bead down to floor and bend it around template. Corner bead will now retain the same shape as template."

### How to Make a Wrecking Bar

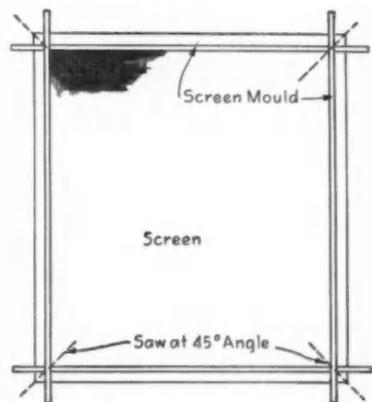


QUENTIN MAURER, Spokane, Wash., says: "I have a time saver which I would like to submit for your How-to-Do-It page of *American Builder*.

"The wrecking bar is made from a half of an ordinary car spring which is bent at a right angle

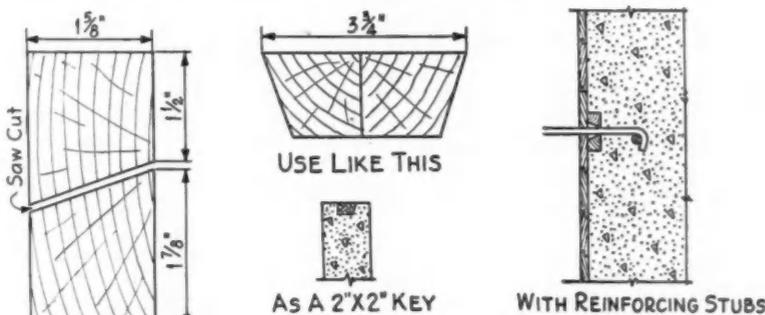
about 3 1/2 inches from the tapered end. This tool is especially helpful on remodeling work as the tapered end can be slipped under entire width of board or casing which is to be removed. A firm downward pull on edge will loosen board without danger of splitting."

### How to Apply Moulding to Screen Frame



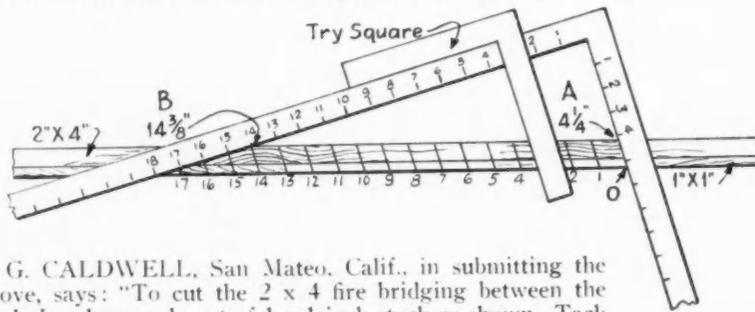
S. CRAWFORD, Carmen, Okla., in presenting this suggestion says: "When making window screens, instead of mitering moulding before nailing it on to frame, just nail the moulding strips on all sides of the frame, permitting them to overlap on the corners. When finished saw on a 45 degree angle, tack corners and you have a perfect fit."

### How to Make Key for Use with Concrete



A METHOD for conserving labor and material in making wood keys, and their application in connection with concrete work, is herein presented by F. G. Rockwood, Stevens Point, Wis.

### How to Make an Odd Space Bridging Scale

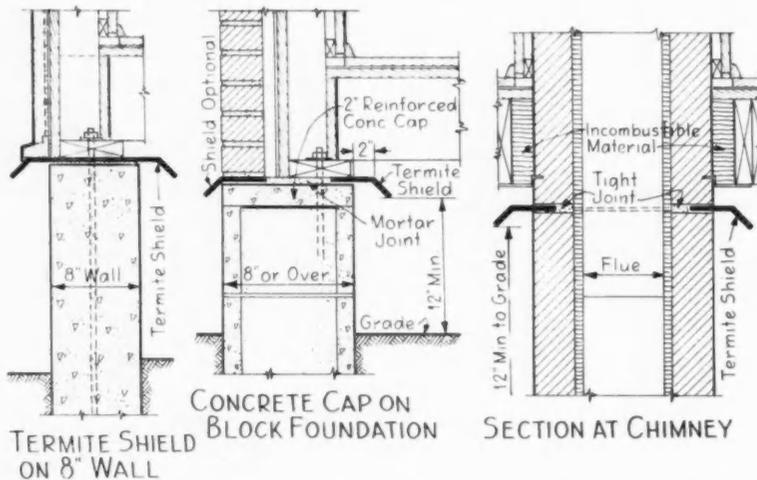


J. G. CALDWELL, San Mateo, Calif., in submitting the above, says: "To cut the 2 x 4 fire bridging between the studs I make a scale out of 1 x 1 inch stock as shown. Tack 1 x 1 to 2 x 2 as shown and mark off 'A-B' to fit regular 14  $\frac{3}{8}$  inch space between studs, (16" O.C.). Clamp steel square on stock using the inside figures on tongue and body, 4  $\frac{1}{4}$  inches at 'A,' 14  $\frac{3}{8}$  inches at 'B'. With try square as shown, using inside marks again, mark off 1 x 1 in inches and fractions thereof. Take 1 x 1 and nail to saw table with 'O' at saw blade. Measure odd spaces and list and cut one room at a time."

### How to Apply Copper Termite Shields

W. A. SCALES of the National Lumber Manufacturers Association, Washington, D. C., who is an authority on termite control, has offered a number of suggestions on the How-To-Do-It details on copper termite shields as shown in the October issue of *American Builder*.

He states that the shields as shown will not fully protect; the "barrier" shield is actually a "deflector." The true barrier shield has a horizontal



projection of 2 inches plus a 2 inch projection at 45 degrees. The over-wall or "pan" type shield is not necessary for a monolithic poured concrete foundation wall; a "strip" shield is sufficient. The exterior shield may be omitted if the wall is open to easy inspection. He goes on to state that the lumber industry has been vitally concerned about the termite question for many years and, therefore, scans any recommendations quite closely. The standards for termite control may be found in the industry's well known booklet, "Exposing the Termite."

### \$5 for an Idea

HAVE you a job pointer, a short cut or a method of solving some building problem? We are sure you have some time- and labor-saving kink you would like to pass along to the fellow members of your craft. Send us a rough draft of your idea. For any idea submitted which is found suitable for publication, *American Builder* will pay \$5. Address material to Managing Editor, *American Builder*, 105 W. Adams St., Chicago 3, Ill.

# AMERICAN BU

## Built-in Closets a Necessity in Good Planning

By R. J. Alexander

LINEN closets and towel cabinets serve a specific need in every home and their location is governed accordingly. The linen cabinet or closet, whether it be of the built-in type or otherwise, should be centrally located on the plan to serve both bedrooms and bathroom. It may be a simple closet fitted with shelves with a single or double door arrangement to permit ready access to all portions of it, or it may be a more elaborate cabinet having a base of drawers with shelves and doors above.

A towel cabinet in the bathroom, even though small in size, is a real convenience, and can add a touch of originality to an otherwise uninteresting room through the manner in which it is treated as, for instance, brightly colored towels arranged pleasingly on open shelves. Additional interest may be secured through the use of scroll work around the opening. The base section of the towel cabinet may be of hinged doors, or drawers, or a combination of both. The cabinet may be placed at one end of the bathtub in which case it may be necessary to arrange for a door permitting access to plumbing pipes. Other locations in bathroom may be more desirable depending entirely on plan.

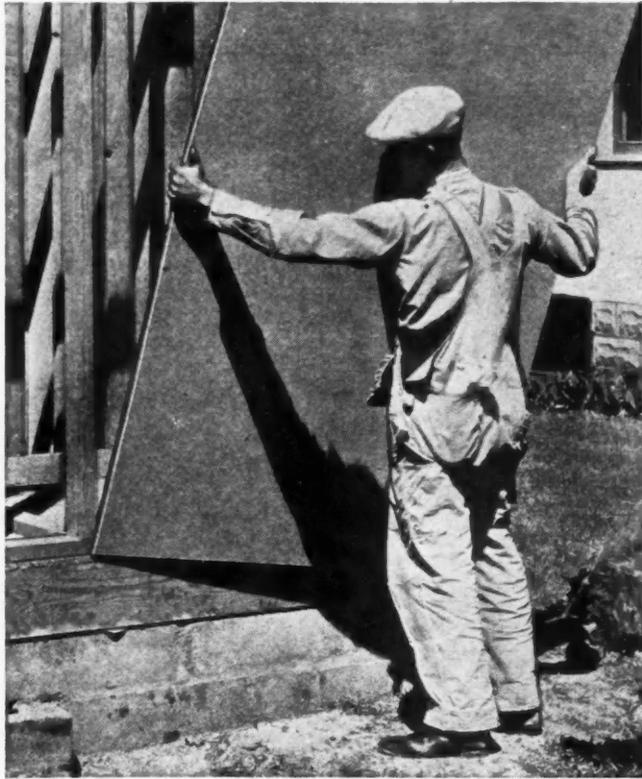
In larger houses additional linen storage space should be provided. If possible a walk-in type of closet should be arranged with open shelves at three sides extending from floor to ceiling. Where possible a variety in the type of storage space should be provided such as a chest of removable trays for sheets and pillow cases, or a deep roomy closet with shelving for bulky blankets and comforters.

Should the plan provide ample closet space, a desirable feature is to line one of the extra closets with mothproof paper or with cedar lining. Space in the attic may be utilized for closets or cedar-lined storage space.

The spacing of the shelves in linen closets should vary from 10 or 12 inches up to 15 or 18 inches apart. Drawers should be roomy and all doors should fit fairly tight.

Complete details of the trays, and the arrangement of sliding doors to be used in connection with them in order to make this type of closet as dustproof as possible, are to be found on plate number 19 in the April issue of the *American Builder*.

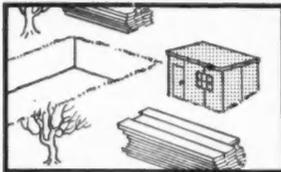




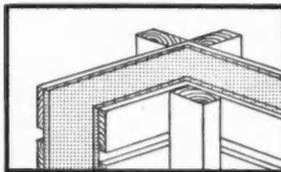
# 28 Ways to Use Insulating Board

**Structural fibre products have many possibilities for home building and remodeling. Here are 28 uses**

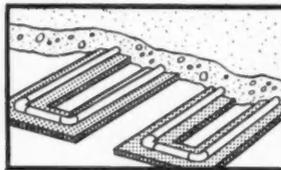
**T**HE scarcity of building materials has put the spotlight on non-lumber products which can be used in home construction, modernization and repair. Put to the test under wartime conditions, many of these materials have demonstrated special adaptability for certain jobs. Insulating board, for example, can be used advantageously as a structural material where heat loss reduction and sound quieting are desirable. Sketched below and on the opposite page are some of the operations for which insulating board products, because of their individual characteristics, are particularly well suited.



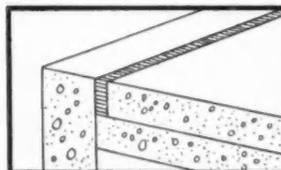
**PRODUCT:** Insulating board  
**USE:** Exterior of temporary shack used by contractor  
**PURPOSE:** Protection and storage of material  
New construction



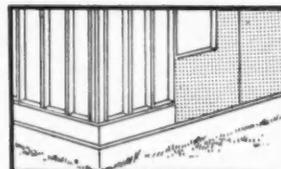
**PRODUCT:** Insulating board  
**USE:** On inside of forms for poured concrete walls  
**PURPOSE:** To obtain more dense and better concrete  
New construction



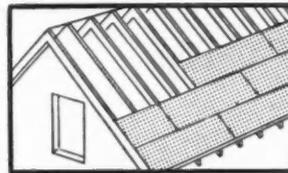
**PRODUCT:** Insulating board  
**USE:** Strips placed under radiant heating pipes in concrete floor slab  
**PURPOSE:** Heat loss reduction  
New (modern) construction



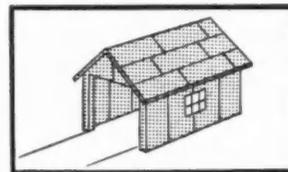
**PRODUCT:** Insulating board  
**USE:** Strips placed between foundation wall and concrete floor slab  
**PURPOSE:** Heat loss reduction  
New (modern) construction



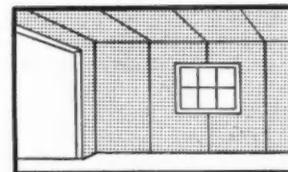
**PRODUCT:** Insulating sheathing  
**USE:** Wall sheathing on exterior framing  
**PURPOSE:** Heat loss reduction; replace wood sheathing  
New construction



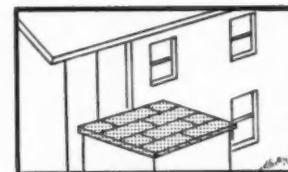
**PRODUCT:** Insulating sheathing  
**USE:** On exterior of roof rafters (to be stripped for shingles)  
**PURPOSE:** Heat loss reduction; replace wood sheathing  
New construction



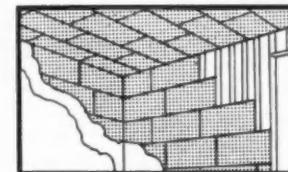
**PRODUCT:** Insulating sheathing  
**USE:** Wall and roof sheathing on garage  
**PURPOSE:** Heat loss reduction; replace wood sheathing  
New construction



**PRODUCT:** Insulating board  
**USE:** Interior lining on garage  
**PURPOSE:** Reduction of heat loss  
New and old construction

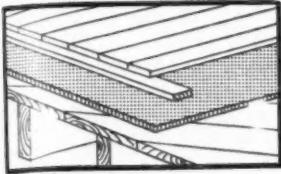


**PRODUCT:** Roof insulation  
**USE:** On flat roof decks  
**PURPOSE:** Reduction of heat loss  
New and old construction

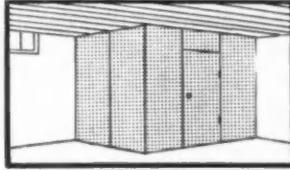


**PRODUCT:** Insulating lath  
**USE:** Over framing on interior walls and ceilings  
**PURPOSE:** Base for plaster; interior finish  
New construction

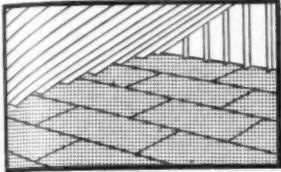




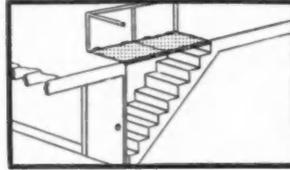
**PRODUCT:** Insulating board  
**USE:** Under subfloor or between subfloor and finish floor  
**PURPOSE:** Reduction of sound transmission  
New construction



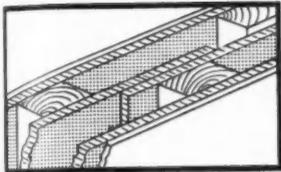
**PRODUCT:** Insulating board  
**USE:** On ceiling and partition walls of basement vegetable storage room  
**PURPOSE:** To keep storage room cool  
New and old construction



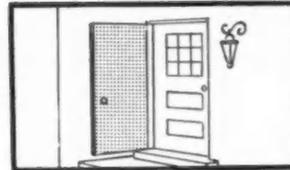
**PRODUCT:** Insulating board  
**USE:** On top of joists in unused attic  
**PURPOSE:** Reduction of heat loss  
New construction



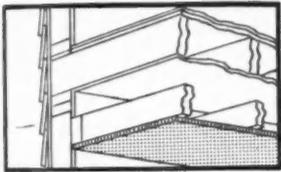
**PRODUCT:** Insulating board  
**USE:** On back of door to attic, or as trap door over attic stairway  
**PURPOSE:** Heat loss reduction  
New and old construction



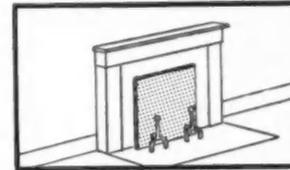
**PRODUCT:** Insulating board  
**USE:** Applied to single walls or between double partition walls  
**PURPOSE:** Reduction of sound transmission  
New construction



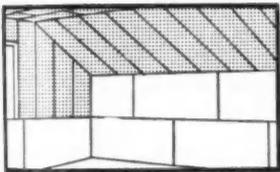
**PRODUCT:** Insulating board  
**USE:** On back of storm doors and garage doors  
**PURPOSE:** Heat loss reduction  
New and old construction



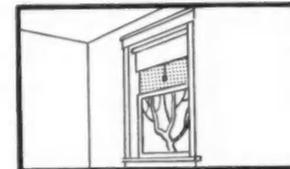
**PRODUCT:** Ins. interior finish  
**USE:** On false ceiling or first floor rooms when second floor is converted into an apartment  
**PURPOSE:** Interior decoration; sound quieting  
Old construction



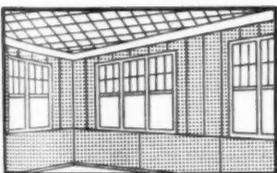
**PRODUCT:** Insulating board  
**USE:** Screen over fireplace opening when not in use  
**PURPOSE:** Prevent heat loss up chimney  
New and old construction



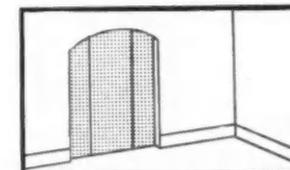
**PRODUCT:** Ins. interior finish  
**USE:** Interior walls and ceilings  
**PURPOSE:** Interior decoration; reduction of heat loss; sound absorption  
New and old construction



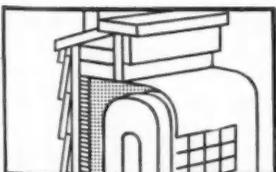
**PRODUCT:** Insulating board  
**USE:** On upper sash of windows hidden by window shade  
**PURPOSE:** Heat loss reduction  
New and old construction



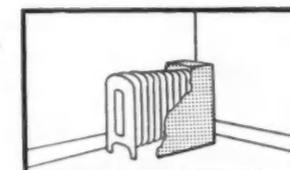
**PRODUCT:** Ins. interior finish  
**USE:** To convert open porch into usable winter room  
**PURPOSE:** Interior decoration; reduction of heat loss  
Old construction



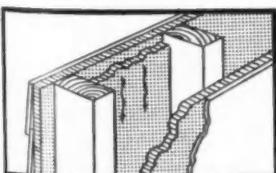
**PRODUCT:** Insulating board  
**USE:** Partition in archway to close off rooms not used in winter  
**PURPOSE:** Heat loss reduction  
New and old construction



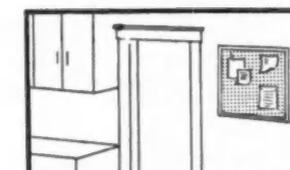
**PRODUCT:** Insulating board  
**USE:** In back of radiators recessed into outside walls  
**PURPOSE:** Heat loss reduction  
New construction



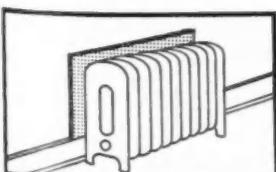
**PRODUCT:** Insulating board  
**USE:** On box cover to be placed over radiator in unused rooms  
**PURPOSE:** Heat loss reduction  
New and old construction



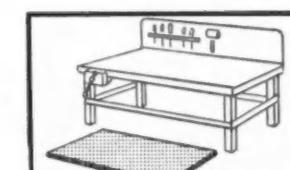
**PRODUCT:** Insulating board  
**USE:** Against inside of sheathing and in back of cold air returns in outside walls  
**PURPOSE:** Heat loss reduction  
New construction



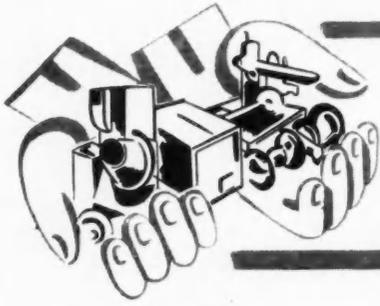
**PRODUCT:** Insulating board  
**USE:** As a bulletin board or pin-up board  
**PURPOSE:** Place to tack up notes, pictures, recipes, etc.  
New and old construction



**PRODUCT:** Insulating board  
**USE:** Applied behind radiators located against outside walls  
**PURPOSE:** Heat loss reduction  
New and old construction



**PRODUCT:** Insulating board  
**USE:** On basement floor by work bench  
**PURPOSE:** Floor pad cushion  
New and old construction

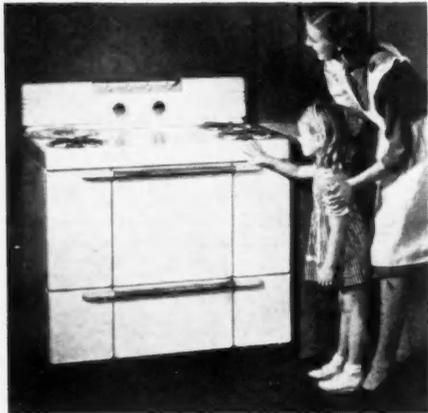


# NEW PRODUCTS

Offered by Manufacturers

## DUTCH OVEN GAS RANGE AB5604

Special features and specifications of the new Maytag Dutch Oven gas range have been revealed by The Maytag Co. This range especially features an automatic time device which turns the range off, seals the flue vents and permits the heavily insulated oven to keep right on cooking.



Other advantages are convenient visual height controls, above the cooking top out of reach of small children, rigid all-welded steel chassis, Perma-finish grates, Dutch cooker-well with three-way burner, high efficiency non-clog burners, roomy storage compartments, and pivot-action broiler.

The entire top of the stove is in one piece with built-in burner bowls, coated with acid-and-stain-resistant gleaming white porcelain.

## SYNTHETIC-RESIN KNOT SEALER AB5613

Western Pine Association laboratory has announced the development of a practically colorless, synthetic-resin knot sealer which is now ready for use on buildings.

Tests indicate that exterior house paint will not discolor, crack, scale or peel, nor will alligating develop on the treated area during the usual period of years between repainting. The sealer should be applied to the knots before painting.

Known as Formula WP-578, it is being manufactured and distributed by a number of nationally known paint and varnish manufacturers.

## AIREON CIRCUIT BREAKER AB5602

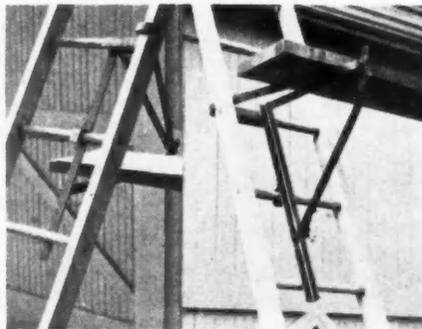
This new circuit breaker is designed by Aireon Mfg. Corp. It is of a new and different design of moving parts that result in unusually large distance between breaker contacts when in "off"

position. Since moving parts are floating, there is no turning axis to wear out. The combined switch and circuit breaker has both overload circuit breaker action and manual "off-on."

It is housed in a heavy bakelite case. It cannot be tripped by either a sudden jolt or sustained vibration. All models are suitable for alternating or direct current in a wide variety of ratings.

## SAFETY LADDER JACKS AB5605

The new safety ladder jacks manufactured by Reimann & Georger can be used advantageously by carpenters, roofers, painters, etc. A pair of these jacks quickly and easily forms a safe, sturdy scaffold at any desired height on a ladder. The jack is designed to rest on three ladder rungs; however, the safety of the scaffold does not depend on any one of the rungs; the safety hook which fits around the ladder side will hold the scaffold if one of the rungs should fail.



The jack can be used over or under the ladder, and adjustment is provided to make the scaffold horizontal regardless of the ladder angle. It folds into a narrow compact bundle using little space.

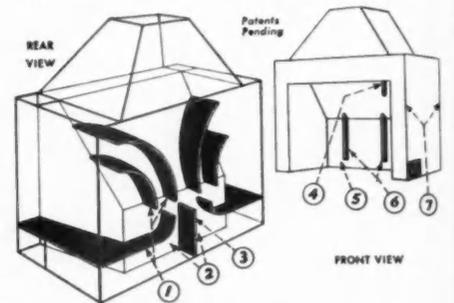
## ALL-METAL WEATHERSTRIP AB5612

The Lloyd Mfg. Co. weatherstrip for outside doors is made of heavy-gauge brass with a bright natural finish. Easily installed on the bottom of any door, it prevents seepage from snow, ice, and rain and completely eliminates under-the-door drafts.

The two pieces, attached to the bottom of the door and the doorsill, butt firmly together when the door is closed. When the door is opened, the pieces separate smoothly, the lower piece lying flat on the sill as a protection against wear. The weatherstrip can be cut to fit any door three feet wide or less.

## FIREPLACE HEATING UNIT AB5603

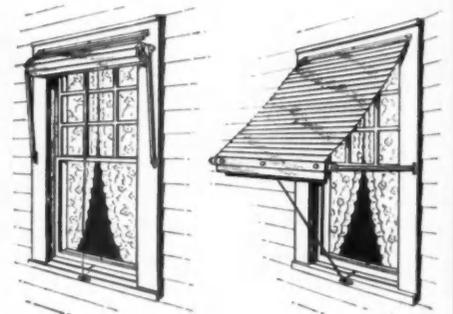
A new unit, "Thermaflo," has been announced by the Eastern Connecticut Welding Co. This unit has several fine features, chief among which is a series of "Thermavane" baffle plates which carry incoming cold air behind the dead center of the firebox, where it is hottest, for maximum efficiency in heating the air.



Other features are "Thermabar" supports to prevent buckling and warping of the fireplace unit, and an ingenious pair of Thermabar supports on the front wall. These automatically provide a good draft for the fire, by creating an air pocket between the wall and the wood.

## ALUMINUM ROLL-UP AWNING AB5601

An awning that is made entirely of aluminum and rolls up into a compact roll at the top of the window has been introduced by Orchard Brothers, Inc. Because these awnings are made of 100 per cent non-corrosive aluminum, they will not discolor exterior surfaces,



neither will they sag, shrink, stretch or rattle. Dust and dirt can be easily washed off the durable baked enamel finish. They are available in four colors.

Finger-tip control inside the room is a feature of this new awning. A touch of the finger and it automatically rolls up; a gentle pull and it rolls down into place. It is made in sizes to fit all standard windows up to 12 feet in width.

(Continued to page 96)

# ALWAYS *Right* ALL *Ways* Ro-Way OVERHEAD-TYPE DOORS

**DESIGNED *Right***

**BUILT *Right***

**PRICED *Right***



Ask the men who know—architects, builders, owners—what they think of Ro-Way Overhead Type Doors. They'll tell you, as they've told us in dozens of enthusiastic, unsolicited letters, that Ro-Way Doors are . . .

★ **DESIGNED *Right*.** The only doors designed to give you all 5 of these extra-quality features that insure extra-long, trouble-free service:

1. FRICTION-REDUCING TRACK
2. "DOUBLE-THICK-TREAD" BALL BEARING TRACK ROLLERS
3. "TAILOR-MADE" POWER SPRINGS
4. "CROW'S-FOOT" OUTER BEARING SUPPORT
5. PARKERIZED RUSTPROOF HARDWARE

★ **BUILT *Right*.** From door panels to springs. Built right in Ro-Way's own plant. Built right—for rugged service.

★ **PRICED *Right*.** Ro-Way's efficient "production line" method of construction gives all these extra values without extra cost.

*Dependable Ro-Way sales and installation service available all over America*

Write for complete new catalog of Ro-Way Overhead Type Doors. See our Catalog in Sweet's.

**THE MODERN DOOR  
FOR THIS MODERN AGE**

**ROWE MANUFACTURING CO.**

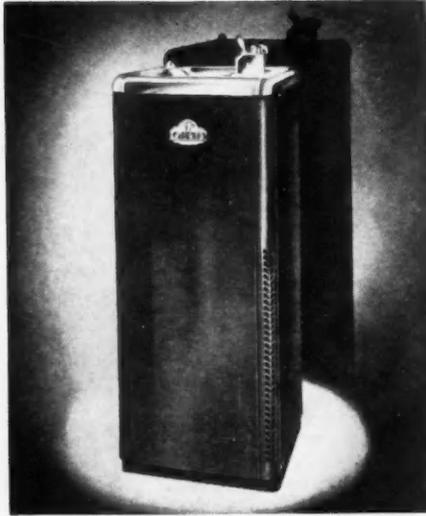
706 Holton Street • Galesburg, Illinois, U. S. A.

*There's a Ro-Way for every Door way!*

(Continued from page 94)

**ELECTRIC WATER COOLER AB5606**

This cooler, styled along modern lines and made of heavy-gauge, galvanized and bonderized steel, is manufactured by The Ebco Mfg. Co. The top is an exclusive splashproof design of satin-finished stainless steel. The drain opening is covered with a stainless steel perforated strainer. All the corners are

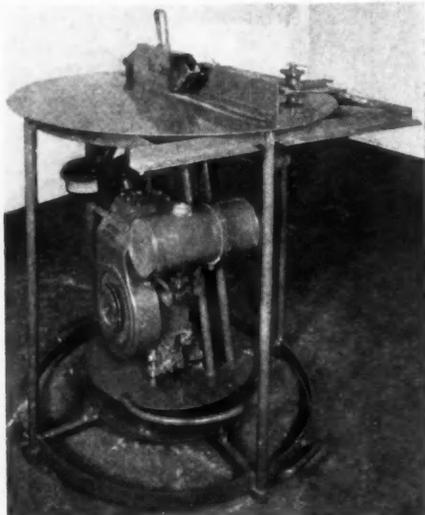


rounded for easy cleaning, and the top is equipped with a removable cover cap for adding a glass filler outlet.

The cooling unit compartment contains the lowside pressure storage tank, the pre-cooler, and the heat exchanger. The parts are fully insulated with a minimum of 2½ in. of ground cork on all sides, top and bottom, and completely sealed with hydrolene.

**GENERAL PURPOSE SAW AB5611**

The Buday portable power saw, manufactured by Nordberg Mfg. Co., is especially adapted for use on construction jobs, in carpenter shops, lumber yards, shipping and crating departments, or industrial plant main-



tenance. It is furnished with either gasoline engine or electric motor drive as preferred and will take a saw blade up to 12 inches in diameter. One of the outstanding features of the saw is

the easy and rapid facility for changing to ripping, cross-cutting, etc. With this saw, the circular table top and the saw mechanism are rotated as a unit to bring the saw blade to the proper cutting angle instead of shifting the lumber.

**ONE-TON TRUCK AB5608**

A new addition to the Dodge job-rated civilian truck line is the "Power-Wagon," a sturdy full-size, four-wheel drive, one-ton general purpose truck designed both for economical "off-the-highway" use and operations over unimproved roads where ordinary trucks are restricted in their operations. It has a 94-horse-power engine, four-speed transmission, two-speed transfer case, a conventional closed cab with built-in driver comfort, a steel express body 8 ft. long, with special reinforced stake pockets, a double-crop frame with side rail reinforcements, 125-inch wheel base and 9.00/16 or 7.50/16 eight-ply tires.

**2-SPINDLE BORER AB5610**

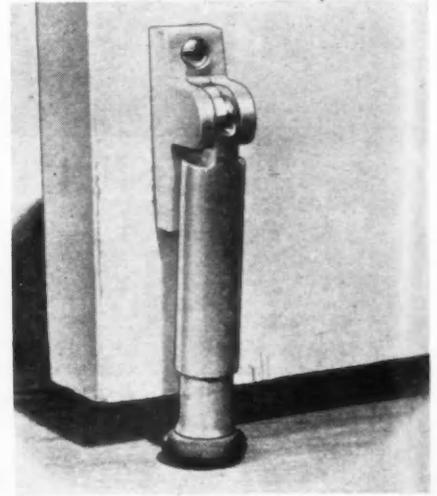
The B-100 Borer, manufactured by Newton Mfg. Co., is a precision-built tool being designed for efficient and accurate boring in wood, as well as being very desirable for boring in plastics and light metals.



The drill spindles of the machine are mounted on precision ball bearings, insuring the continued accuracy of the spindles, even under the severest conditions. All parts are built for maximum service, and adjustments for wear are provided wherever needed. This tool is completely portable, and requires very little floor space for operating.

**SPRING-LOADED DOORHOLDER AB5607**

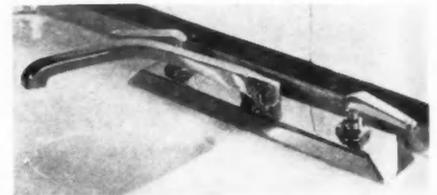
The latest in doorholders has just been introduced by Swallow Airplane Co. Inc. It's the Doormaster, a patented, spring-loaded doorholder which holds the heaviest doors without slipping.



Doormaster is built compactly, closely hugs the door, thereby eliminating stumbling or tripping. A bullet-catch holds it firmly up and out of the way when not in use. Two flat head screws are all that are needed to mount. It is fabricated of durable aluminum, and mounts a tough rubber foot firmly to the spring-loaded piston.

**SWINGSPOUT FAUCET AB5609**

The General Tire & Rubber Co. of California has announced the first in a line of plumbing fixtures to be manufactured. This is the "Commodore" ledge-type swing-spout faucet. Emphasis has been placed on the ease of



cleaning, maximum coverage and working clearance in the unit, yet offering modern functional design for smart eye appeal and lasting service. New methods of fabricating these units insure contractors and owners of a production supply equal to the demand at low cost.

**CHECK NUMBERS AND MAIL COUPON FOR INFORMATION**

American Builder, 105 W. Adams St., Chicago 3, Ill.

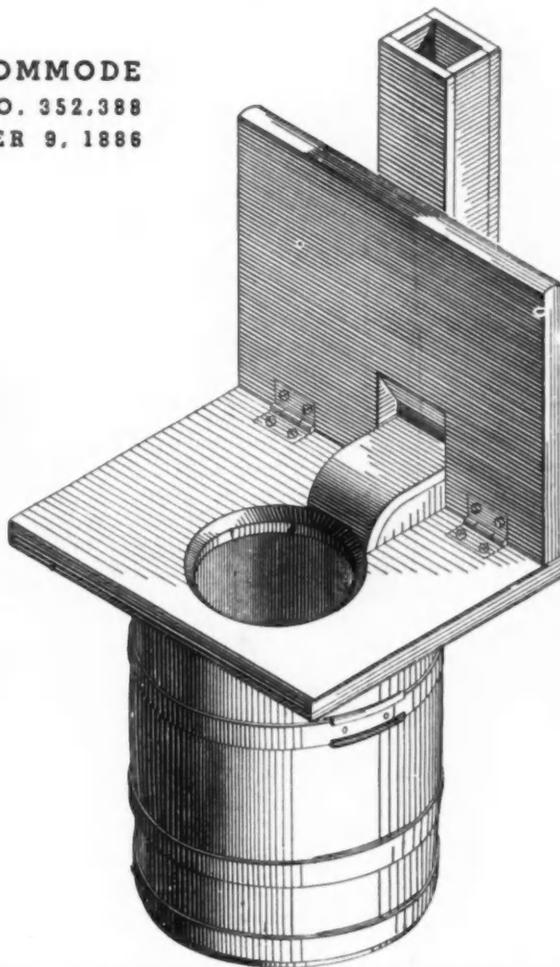
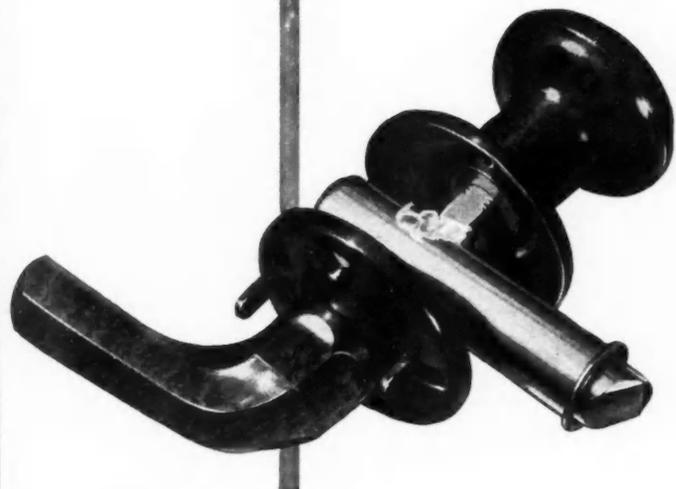
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| AB5601 | AB5602 | AB5603 | AB5604 | AB5605 |
| AB5606 | AB5607 | AB5608 | AB5609 | AB5610 |
|        | AB5611 | AB5612 | AB5613 |        |

COMMODORE

U. S. PATENT NO. 352,388  
ISSUED NOVEMBER 9, 1886



Catalog No. 1107 Combination Screen and Storm Door Latch. Latch illustrated with plastic Duralin trim. Choice of colors: Walnut or black. Available also solid brass trim. Choice of finishes: polished brass or dull brass. Inside rose equipped with locking device.

NOTHING TO GO WRONG

Simply place this outfit in the favored room — throw in a handful of chemicals — and you're all set to go.

There are many advantages to simplicity. You will find them at their best in DEXTER-TUBULARS. Just three moving parts. Nothing to adjust. Not even a loose knob.

The advantages of Dexter *simplicity* carry right through to installation. In fact, ease and speed of

installation of *Dexter-Tubulars* is one of their most outstanding features. Just bore two holes with a brace and bit — presto — the job's about done.

With all these many advantages surely you plan to use DEXTER-TUBULARS for your building — at the dealer in your community — complete information and demonstration.

**NATIONAL BRASS COMPANY, Mfrs.**

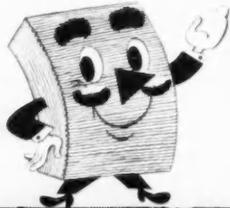
**Grand Rapids, Michigan**

**MAKERS OF BUILDERS, CABINET, SCREEN DOOR  
AND SHELF HARDWARE**



HISTORY'S GREATEST NEW-HOME MARKET IS OPEN

and here's why **KIMSUL\***  
**INSULATION** has an important  
place in your building plans

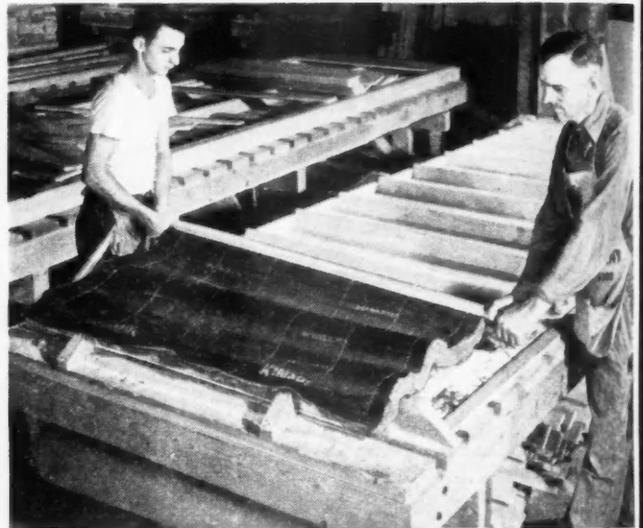


### Fits the Custom Built Picture

Whether you plan custom-built or prefab housing, you can provide a better, quicker insulation job by specifying KIMSUL. For KIMSUL is a scientifically designed, many-layer blanket, pre-stitched to a tough, water-proof cover . . . made to assure simple installation, permanent satisfaction. Delivered compressed to 1/5th its installed bulk, KIMSUL minimizes handling. Expanded on the job, it quickly provides thorough, positive insulation coverage of uniform density and thickness.

#### Check these points of KIMSUL superiority

1. *Efficient:* "K" factor—0.27. Average coefficient of sound absorption for Double Thick KIMSUL—0.67.
2. *Resistant to fire, moisture, fungus and vermin.* It is termite proof.



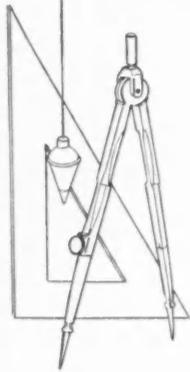
### Fits the Prefabrication Picture

3. *Permanent insulation*—won't sag, shift or settle.
4. *Flexible,* easy to fit around pipes or obstructions. No waste—trimmed off pieces may be used for caulking.
5. *Standard widths* to fit between joists, studs or rafters and in giant widths for prefabrication. Three thicknesses: Commercial Thick (about 1/2"), Standard Thick (about 1"), and Double Thick (about 2").
6. *Light in weight.*
7. *Clean, non-irritating, odorless.*
8. *Tops in quality and performance, low in cost.*



For complete technical data on KIMSUL Insulation, refer to Sweet's 1946 Catalog or write to Kimberly-Clark Corporation, Neenah, Wisconsin.

\*KIMSUL (trade-mark) means Kimberly-Clark Insulation



# Designed and Engineered

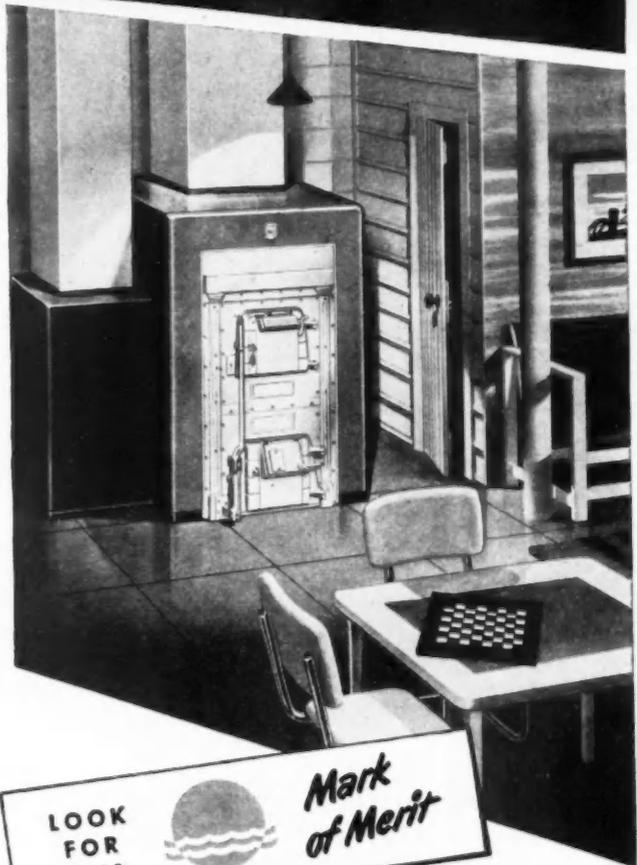
**FOR EVERY KIND OF JOB!**

**I**N the American-Standard line of quality heating and plumbing products, you'll find equipment and fixtures styled, designed and engineered to fit the widest variety of applications.

American-Standard makes radiator heating, warm air and winter air conditioning equipment for coal (hand fired or stoker), gas, or oil. And American-Standard plumbing fixtures give you an equally wide choice for residential, commercial and institutional buildings.

Backed by many millions of dollars in research, these widely advertised American-Standard products have been Serving the Nations' Health and Comfort for more than half a century. Their smart appearance, efficient performance and proved operating economy assure lasting customer satisfaction. No products enjoy greater public acceptance. Yet, they cost no more than others and are available for modernization jobs on our FHA Time Payment Plan.

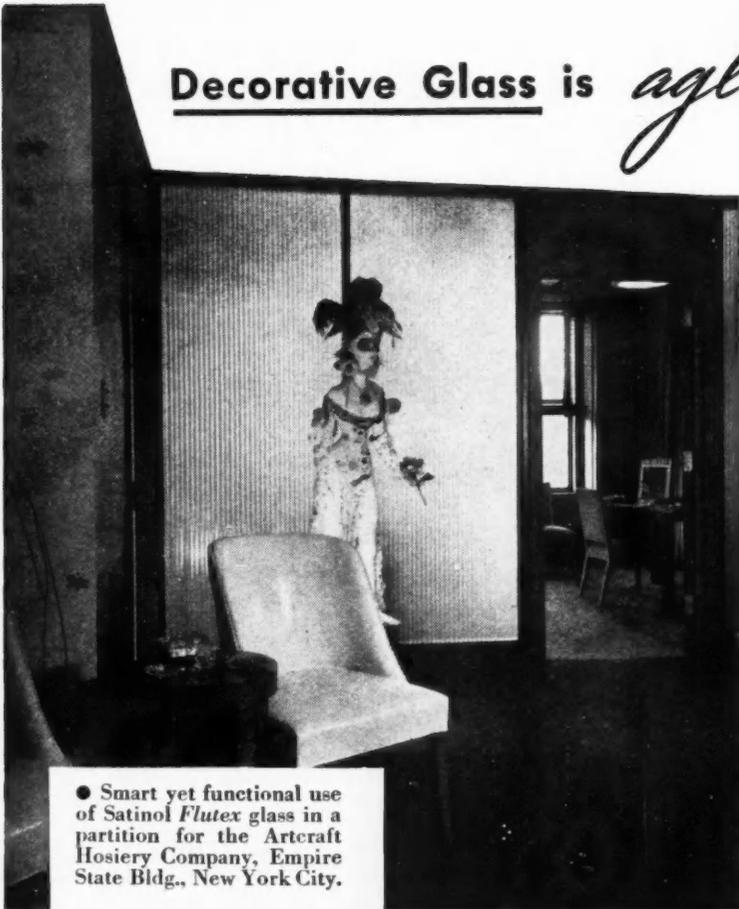
For information, contact your Heating and Plumbing Contractor. **American Radiator & Standard Sanitary Corporation**, Dept. X65, P. O. Box 1226, Pittsburgh 30, Pennsylvania.



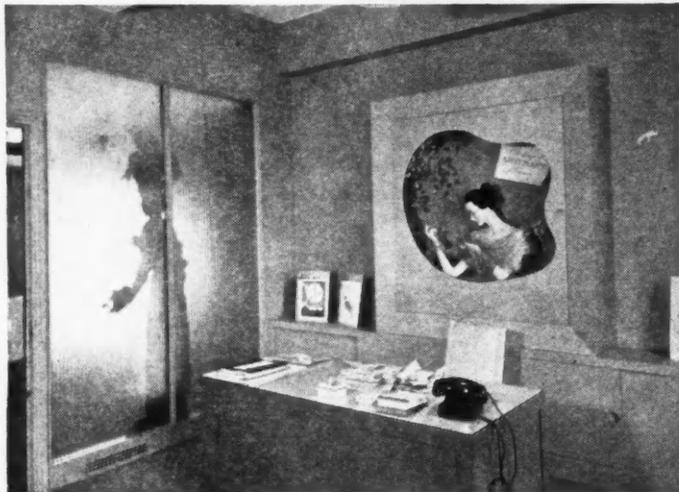
HEATING AND PLUMBING PRODUCTS for every use . . . including Boilers, Warm Air Furnaces, Winter Air Conditioners, Water Heaters, for all fuels . . . Radiators, Convectors, Enclosures . . . Gas and Oil Burners . . . Heating Accessories . . . Bathtubs, Water Closets, Lavatories, Kitchen Sinks, Laundry Trays, Brass Trim . . . and specialized products for Hospitals, Hotels, Schools, Ships and Railroads.

**Decorative Glass is**

*aglow with Glamor*



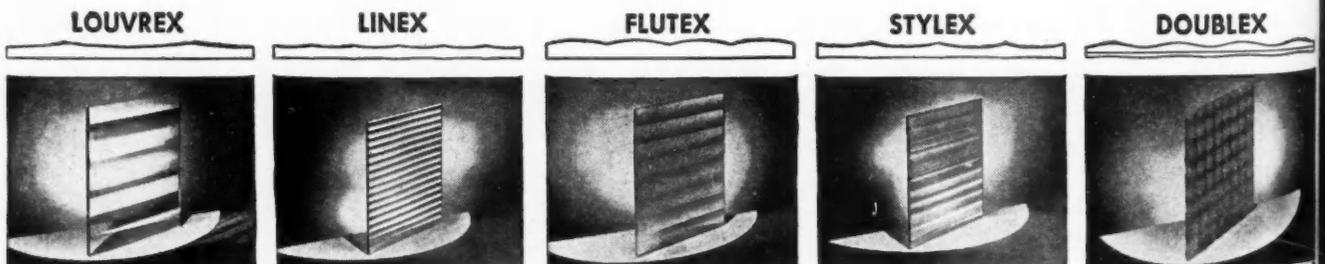
● Smart yet functional use of Satinol *Flutex* glass in a partition for the Arcraft Hosiery Company, Empire State Bldg., New York City.



Architects and designers realize the advantages of Blue Ridge *Decorative Glass* for backgrounds needing glamor and sales appeal. The translucent characteristic of patterned glass (diffusing light and providing privacy) offers a wide range of decorative opportunities. The dignified appeal of Figured Glass is seen more and more in smart shops, offices, salons, lounges and private homes.

Blue Ridge *Decorative Glass*, in a variety of patterns, is made by the Blue Ridge Glass Corporation of Kingsport, Tennessee, and sold by Libbey-Owens-Ford through leading glass distributors. Five popular patterns are shown below. The glass may be *Securitized* (heat tempered) for added resistance to thermal and physical shock . . . may be semitransparent or obscure. For further information, write Blue Ridge Sales Division, Libbey-Owens-Ford Glass Company, 8856 Nicholas Building, Toledo 3, Ohio.

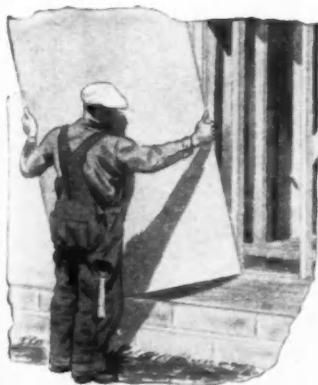
*"Design it with one of the 5 EX's"*



**BLUE RIDGE *Decorative* GLASS**

FOR SOFT, DIFFUSED LIGHT • SMART DECORATION • COMPLETE PRIVACY





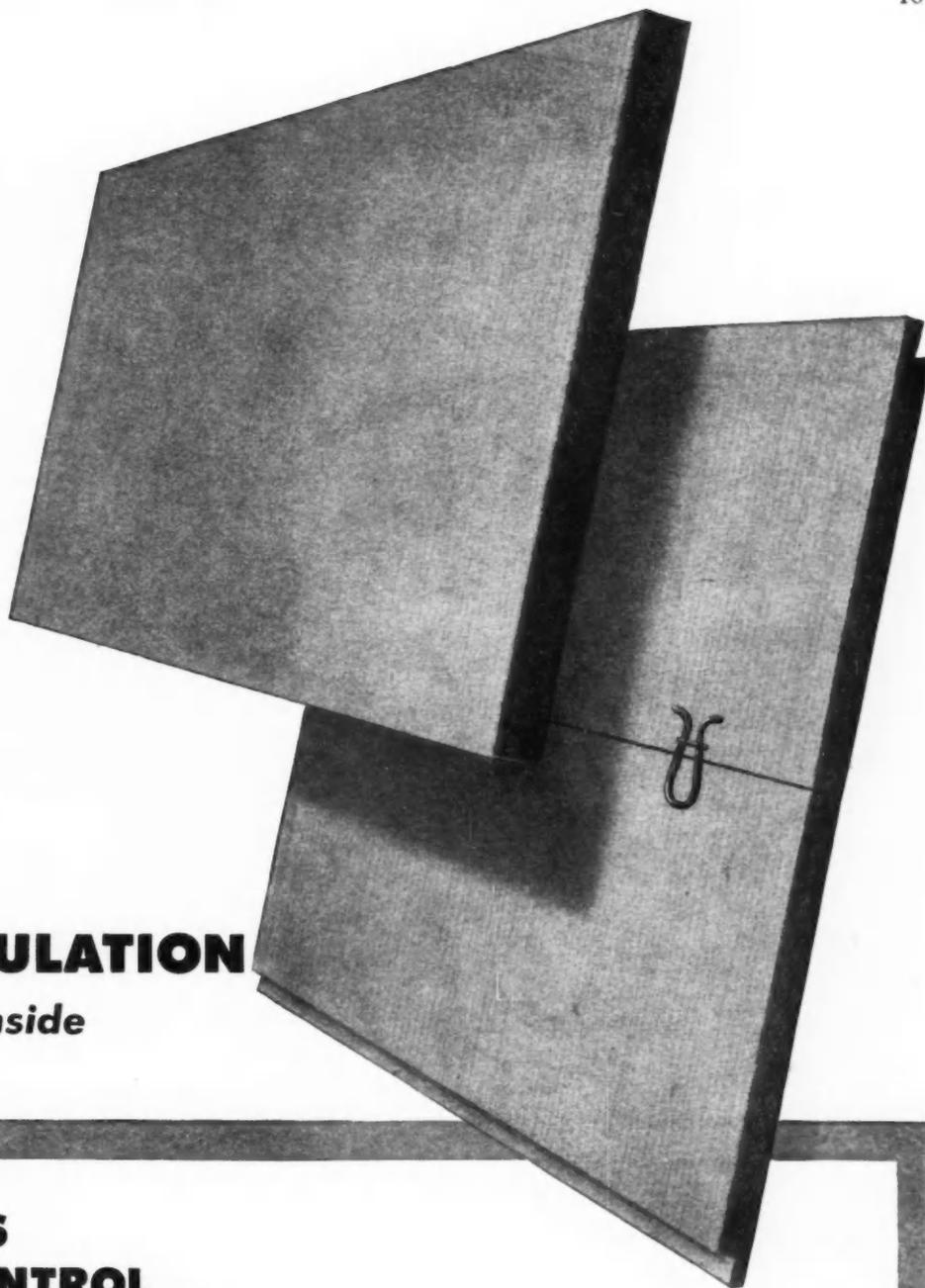
## INSULATION

Outside



## INSULATION

Inside



### ... PLUS VAPOR CONTROL

THAT'S WHAT YOU GET WHEN YOU BUILD WITH INSULITE



Insulite Lok-Joint Lath, with asphalt barrier against the studs, retards vapor travel. And Insulite sheathing, being permeable to vapor, permits what little vapor that escapes the barrier to pass toward the outside.

Refer to Sweet's File — Architectural Section 10 a/9



INSULITE  
MINNEAPOLIS 2, MINN.

# INSULITE

## Insulates as you build

\*As Determined by Leading Testing Authorities

The original and best\* wood fibre structural insulating board

# Case Study House #11 the "GI" model



Sponsored by ARTS & ARCHITECTURE Magazine  
J. R. DAVIDSON, Architect



Patented

**THE LAVATORY** is the ever-popular *Cosmétique* with concealed front overflow, anti-splash rim, chrome finish accessories and convenient shelf. Available also in wall-hung style.

## WITH Case PLUMBING FIXTURES

Planned to satisfy high standards of convenience and comfort without exceeding the limits of "GI" budgets, this house is designed with two efficient bathrooms. The Case plumbing fixtures were selected by the architect to meet both requirements in full. Their design, *vitreous china* construction and mechanical excellence assure lifetime satisfaction and freedom from costly maintenance. Case plumbing fixtures are distributed nationally—see your Classified Telephone Directory or write W. A. Case & Son Mfg. Co., Buffalo 3, N. Y. Founded 1833.



**THE WATER CLOSET** is the 2-piece combination *DeLuxe* model with modern styling and a silencing device that assures quietness under all pressures. Free-standing tank does not deface the wall.

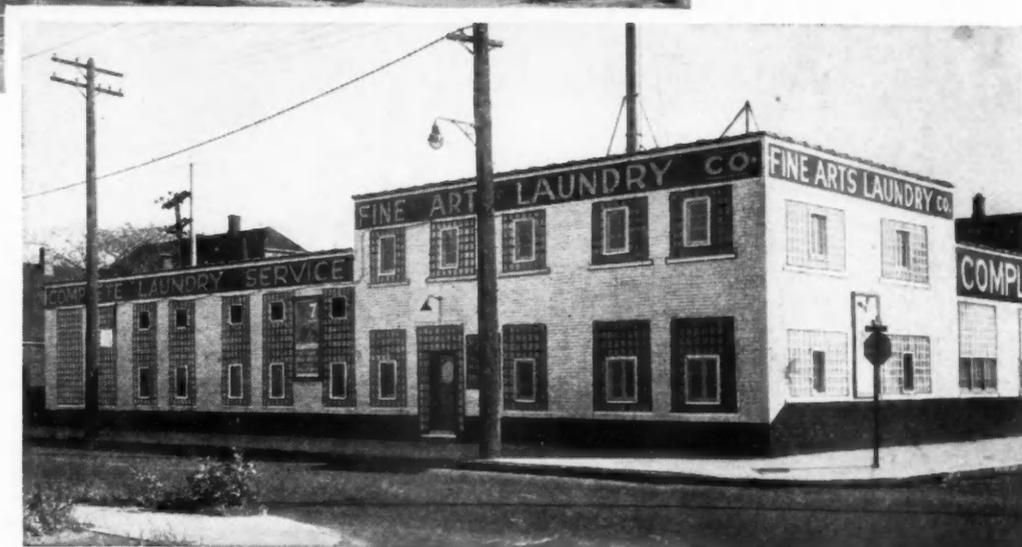
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**BEFORE**  
**Remodeling with Insulux**

As this building was growing old, the owners wisely decided to give it a modern "daylighting" treatment. They ordered the worn-out sash replaced with lustrous panels of Insulux Glass Block.



**AFTER**  
**Remodeling with Insulux**

Those panels of Insulux flood the workrooms with softly-diffused natural daylight. They lock out dirt, dust and noise. They provide privacy. And they reduce materially both heat loss and condensation.

Are you getting your share of this  
**SASH REPLACEMENT BUSINESS?**



**F**OLLOW the trend! Install panels and partitions of Insulux Glass Block in factories, stores, restaurants, offices and public buildings.

Work like this is *easy* to handle. *Profitable, too!*

Panels of Insulux have many advantages. They diffuse light better than single glass and provide privacy along with light. They cut down sound transmission. They lock out dust and dirt. And they reduce heat loss and condensation.

Furthermore—glass block panels do not rot, rust or corrode, and need very little attention other than occasional cleaning. Painting is never required.

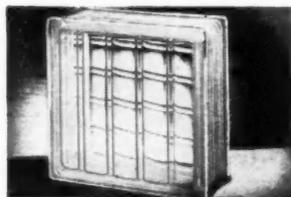
Mail coupon below for full information.

**OWENS - ILLINOIS**  
**INSULUX**  
**GLASS BLOCK**

MAIL THE COUPON FOR FREE BOOKLET

OWENS-ILLINOIS GLASS COMPANY,  
Insulux Products Division, Dept. C-71, Toledo 1, Ohio  
Gentlemen: Please send me, without obligation, your book entitled, "Rx for the Improvement of Buildings."

Name \_\_\_\_\_  
Firm Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_



Insulux Glass Block is a functional building material—not merely a decoration. It is designed to do certain things that other building materials cannot do. Investigate!

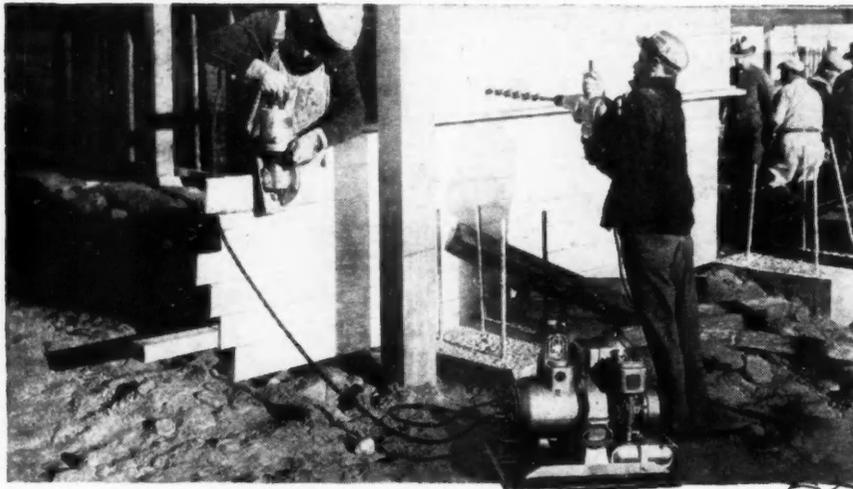
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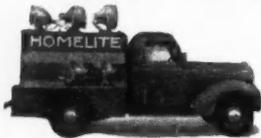
# Before Buying A Portable Pump or Generator...



Top picture shows high capacity of Homelite Portable Gasoline-Driven Self-Priming Centrifugal Pump. Bottom picture shows Homelite Portable Gasoline-Engine-Driven Generator operating electric drill and saw.



## See What It Does ON THE JOB



Sure, we want you to write for our new bulletins... bulletins filled with the latest information on Homelite Portable Gasoline-Engine-Driven Pumps and Generators. But more than that, we want you to see these units in operation on the job... your job... any place, any time. After all, that's the only way to know how well a Homelite Pump pumps or how many tools and floodlights you can put into cost-saving operation with a handy Homelite Portable Generator. That is why we have so many Homelite men in the field... men who are trained and equipped to go out on your job, understand it thoroughly and show how Homelite equipment should work to your advantage.

So when writing for our new bulletins... L 501 on Pumps and L 406 on Generators specify that you also want a demonstration.

# Homelite CORPORATION

PORT CHESTER, NEW YORK

Portable Pumps, Generators, Blowers

### BRANCH OFFICES

|                |                |                      |                     |
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| Baltimore, Md. | Cleveland, O.  | Los Angeles, Cal.    | St. Louis, Mo.      |
| Boston, Mass.  | Dallas, Tex.   | New York, N. Y.      | San Francisco, Cal. |
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### DEALERS

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| C. K. Koentz Equip. Co.                               | George F. Hastings | The Midwest Equip. Co. |
| Canadian Representative: Terry Machinery Company Ltd. |                    |                        |

Another ad in the new Gold Bond series now running in full color in the Saturday Evening Post. Of course no family will be satisfied to modernize just the dining room and stop there. They'll want to do over the living room and the kitchen and bath. All of which adds up to many good paying jobs for you know who! National Gypsum Company, Buffalo 2, N. Y.



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

Ask your lumber and building material dealer how easily you can have this room with new Gold Bond modernizing materials now available!

## The Dining Room that slept for 18 years

STAN and Mary Irvin are crazy about their "new" dining room—and do you blame them? They'd gone along with the same old room, just as it was when they bought their house years ago. Then a little planning, a few hours work, and look! "It's just as though the room had slept for 18 years!" says Mary.

Yes, you can do wonders these days with drab old rooms, and for a lot less money than you'd imagine. Remodeling is no longer an upsetting, time-eating job—not with the Gold Bond modernizing materials now available as pictured below.

Another modern improvement for existing homes—no matter how old—is insulation against sum-

mer heat and winter cold. Fireproof Gold Bond Rock Wool can quickly be blown into the walls and roof, cutting heating costs as much as 30%. Consult the phone book under "Insulation" for your local Gold Bond Rock Wool Applicator. National Gypsum scientists have concentrated on better materials for walls and ceilings to give you great strength, light-weight, fireproofing, sound control, insulation and improved decoration. Such revolutionary building improvements as Gold Bond fireproof storm-sealed gypsum sheathing for extra strength and weather protection for outer walls. A new Gold Bond method of building plaster interiors with "floating action" which insures long-lasting

beauty, greater fire protection and reduces room-to-room noise.

These are but a few of the 152 Gold Bond products. They can be used equally well in a skyscraper or a cottage, a store or a factory. They are sold by 10,000 leading lumber and building material dealers from coast to coast. These dealers are supplied promptly with fresh merchandise from Gold Bond's national network of 23 strategically located modern plants. There's always a Gold Bond-Dealer nearby. Remember to call him when you build or remodel. He can help you with sound advice and with the best building materials science can furnish. National Gypsum Company, Buffalo 2, New York.

Over 150 tested Gold Bond Building Products for new construction or remodeling add greater permanency, beauty and fire protection. These include wallboard, lath, plaster, lime, sheathing, wall paint, insulation, metal and sound control products.

**3 QUICK STEPS TO A NEW ROOM**

THIS IS THE ABOVE ROOM BEFORE WE WENT TO WORK

FOLLOWING THE NEWEST STYLE TREND, ONE WALL WAS FINISHED WITH BEAUTIFUL GOLD BOND WOOD-GRAIN GYPSUM BOARD IN BLEACHED WALNUT

THE OTHER WALLS AND CEILINGS WERE MODERNIZED LIKE MAGIC WITH BIG FIRE-PROOF PANELS OF STANDARD GOLD BOND GYPSUM BOARD

LESS THAN 1 HOUR AFTER DECORATING WITH THE NEW GOLD BOND-SUNFLEX WALL PAINT OUR DREAM ROOM WAS READY FOR OCCUPANCY!

Here's a Western Pine folder that should be read by anyone who says to you—

**"I WANT  
TO BUILD A  
MOTOR COURT"**



This folder doesn't miss a thing in describing motor courts. Every picture in it is a sales builder for Western Pines— for exteriors, interiors, bedrooms, lobbies, dining rooms, and furniture. *Order your free copy now*—specify Booklet No. 48. Address

**WESTERN PINE ASSOCIATION**

Dept. 5-B • Yeon Building • Portland 4, Oregon

- \*Idaho White Pine
- \*Ponderosa Pine
- \*Sugar Pine

—\*THESE ARE THE WESTERN PINES—

# Cortland

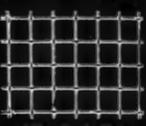
## BRAND WIRE SCREENING

IS YOUR ASSURANCE OF COMPLETE SATISFACTION

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CORTLAND  
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18 Mesh 30"

**CORTLAND  
GRAY-WICK  
WIRE CLOTH**

MADE FROM COPPER BEARING OPEN HEARTH STEEL  
ELECTRO GALVANIZED MULTIPLE COAT  
BALL FINISH  
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Cortland, N. Y.

**THE FAMOUS CORTLAND LABEL** means you are getting the very best wire screening money can buy. Cortland brand wire screening is made under one rigid control, from scientific blending of the raw metals to the final inspection of the woven product. You can depend on accurate gauge wire, even mesh, strength and durability.

It is important to all our dealers to have a dependable source of supply for quality wire products. Until, however, a much higher level of production can be reached, there won't be enough wire products to supply the accumulated civilian needs.

**WRITE OR WIRE YOUR NEAREST DISTRIBUTOR**

**WICKWIRE BROTHERS, Inc.**  
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946.

UPERIOR EXTERIOR with

# Windowalls



WHILE Andersen *Windowalls* are known more for their viewing and insulating characteristics, they are also the favorite of architects who are seeking exterior beauty for the homes they design. In this riverside home, Architect Magnus Jenne has used three Andersen Horizontal Gliding Window Units in a wide *Windowall*

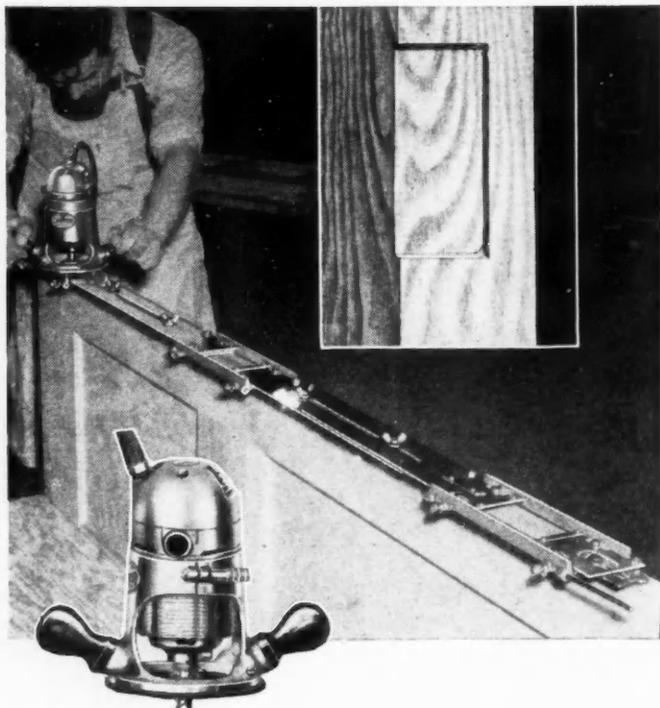
that is an attractive point of interest. Divided light sash are consistent with the ranch-house style of the home.

In summer, any degree of ventilation from 1% to 100% is possible. In winter, the weatherstripped units are weathertight, like a wall. And all year long there is superb window beauty.

TO SPECIFY, LIST THREE ANDERSEN HORIZONTAL GLIDING WINDOW UNITS NUMBER 5256. FURTHER DETAILS IN SWEET'S FILE.

*Andersen Corporation* • BAYPORT • MINNESOTA

## CUT BUTT RECESSES 6 TIMES FASTER



### With This Stanley-Carter Router

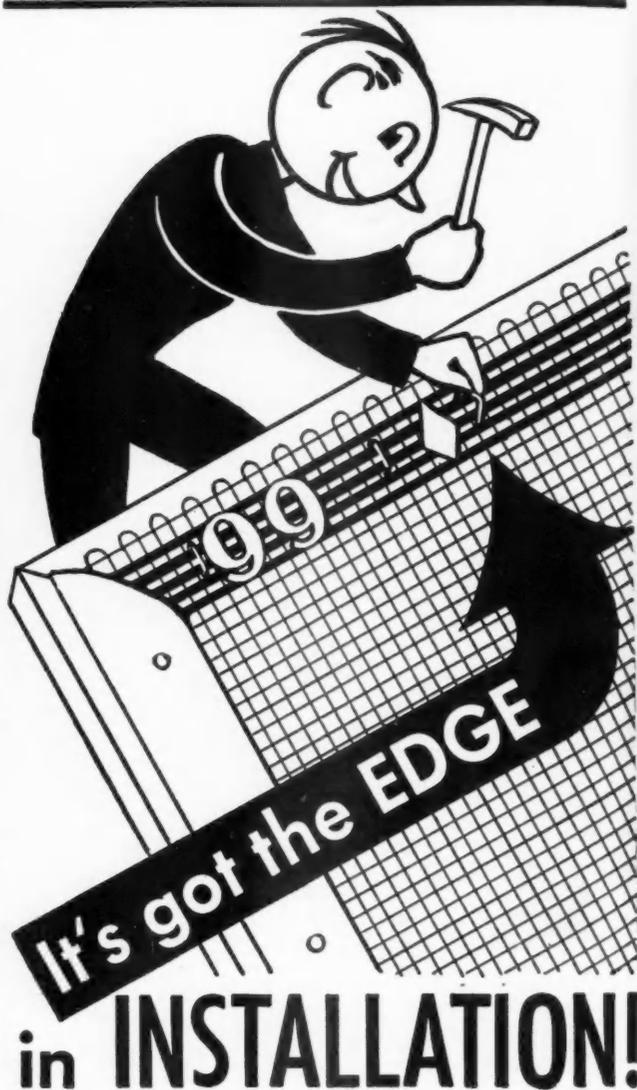
With building restrictions being removed, you'll have a lot of use for this sturdy electric tool both in new construction and in remodeling.

Used with the Stanley-Carter Butt Templet, this Router cuts out recesses for square-cornered butts and for round-cornered butts at least six times faster than is possible by hand. This combination also gives you recesses that have a smooth, perfectly flat surface, providing an exceptionally solid foundation for the hinge.

#### EIGHT HOUR PERFORMANCE

Unlike hand work, which through the day may become progressively less accurate, the Stanley-Carter Hinge Butt Router gives you full eight hour performance. This means that every door you hang will have the same uniformity. The weight will be evenly distributed over the recess, consequently the hinge screws won't have to carry the full load. This makes for longer, more trouble-free operation of the doors you hang. For further details write - Stanley Electric Tools, Stanley-Carter Sales Dept., 133 Elm Street, New Britain, Connecticut.

**CARTER** STANLEY **TOOLS**



You can do a better job and save time on screening by installing MULTI-STRAND wire screening.

On the same edge that gives MULTI-STRAND extra strength where needed most, are printed foot numerals that make measuring and planning quick and accurate.

Flat, strong strands reinforce the edge—make the wire lie flat—cut out wire wrestling and save installation time. An advantage possible *only* in metal screening!

MULTI-STRAND stays put, too. You can install with confidence that it won't pull out the first time it's bumped or strained. That edge gives staying power and helps you maintain your reputation for quality workmanship.

Meet all your customers' demands for wire screening with MULTI-STRAND in 3 brands—OPAL, zinc coated; LIBERTY BRONZE; and ALDURA ALUMINUM, made from Alcoa Alclad Wire—a type for every purpose and purse.

**FREE FOLDER**—Reasons Why "It's Got the Edge." A valuable folder of special interest to contractors is yours free. Send for your copy today. Write:

**NEW YORK WIRE CLOTH COMPANY**  
500 Fifth Avenue New York 18, N. Y.

**OPAL · LIBERTY BRONZE · ALDURA**  
**WIRE SCREENING**



**BETTER  
HOMES &  
GARDENS**

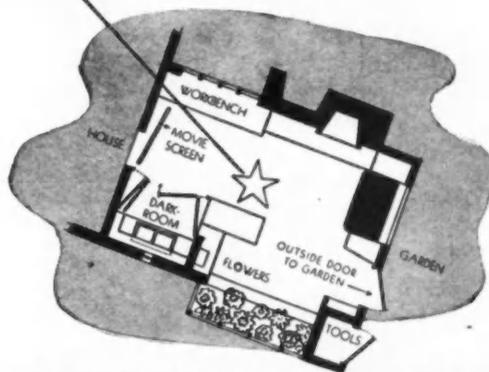
**FITS THE HOUSE TO THE FAMILY**

**H**OBBIES in the basement or the garage? Not these days! Not if Better Homes & Gardens magazine has anything to say about it!

We have — and our hobby room is one way we say it. Room for flowers (the slanted window gives seed flats or flowering plants the light they need). Room for photography. Room for a movie screen, with a good spot for the projector (to the left of that bench that faces the screen). Room to store drawing boards or sewing materials or records or books or fishing tackle. Room for everything the family plays with.

It's no wonder that with ideas like this going into their homes every month BH&G families are wonderful prospects for remodeling, for built-in cupboards and work tables, for extra glass (BH&G believes in floods of light and in making the garden view part of the house), for extra paint jobs, carpentry jobs, extra millwork, linoleum, brick and wallboard.

It's no wonder either that BH&G is a swell spot to pre-sell anything that goes into making a home better to live in!



*market*  
**THERE'S NO PLACE  
LIKE HOME**





**CHARM**  
*Styled by*  
**SAGER**

Charm is simplicity. It is grace and beauty and good taste. And for generations SAGER, guided by good taste, has moulded charm in fine metals to grace buildings of all types—from cottages to sky-scrapers. Whether a design in builders hardware be "old tradition" or new and functional, remember the SAGER hallmark guarantees, along with permanence, easy installation and precise operation, an added value — *style* — important, distinctive, and quick to be seen and appreciated. Always look to SAGER for style.

BETTER STYLE IN BUILDERS HARDWARE by

**SAGER**

NORTH CHICAGO, ILLINOIS



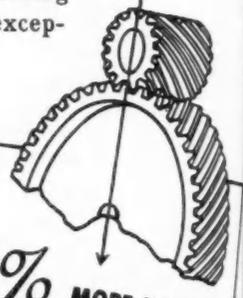
**MORE  
 POWER . . . plus**  
*Balanced*

**ONE-HAND OPERATION**

When you choose a Power Saw, you'll want SPEEDMATIC. It's the saw that gets the most power at the blade . . . where the work is done! It's the saw that's so easy to handle—with perfect balance and steady set. It's the saw with the fast-cutting blade that practically feeds itself! It's the saw with the husky efficient Helical Gear Drive that keeps on delivering maximum power throughout its exceptionally long life!

HELICAL GEAR DRIVE

Ask your local PORTER-CABLE man to demonstrate this easy-to-handle SPEEDMATIC, that makes possible the biggest day's work. Or write us direct for literature.



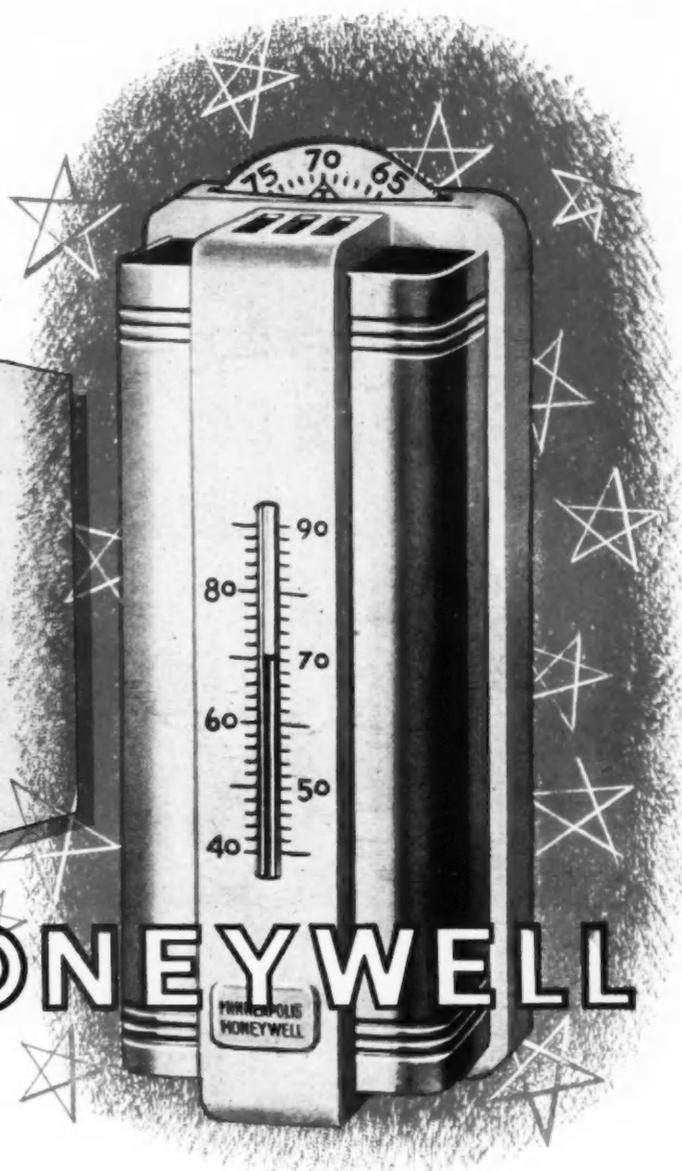
**11% MORE POWER  
 DELIVERED TO SAW BLADE**  
 Delivers 11% more power to saw blade! Holds wear on driving parts to minimum.

**PORTER-CABLE MACHINE CO.**

1721-5 No. Salina St., Syracuse, N. Y.

*The* **PRODUCT  
BEHIND  
THE NAME!**

**HONEYWELL**



*F*OR 60 YEARS the name of Honeywell, and its predecessor companies, has stood for the finest in automatic temperature controls . . . But what has made this possible? The answer is clear. It's the product behind the name that counts.

Minneapolis-Honeywell products have long met the requirements of home builders and contractors with dependable performance. And this performance has provided the prestige that has made the name of

Honeywell a distinct advantage in the sale of homes.

Startling new developments—the result of thousands of man hours of engineering and research devoted to solving your problems—are on the way. Watch for them!

In the meantime, remember the product behind the name and that "Dependable Controls Cost Less than Service." Minneapolis-Honeywell Regulator Co., 2655 Fourth Ave. S., Minneapolis 8, Minn.

MINNEAPOLIS  
**Honeywell**  
CONTROL SYSTEMS

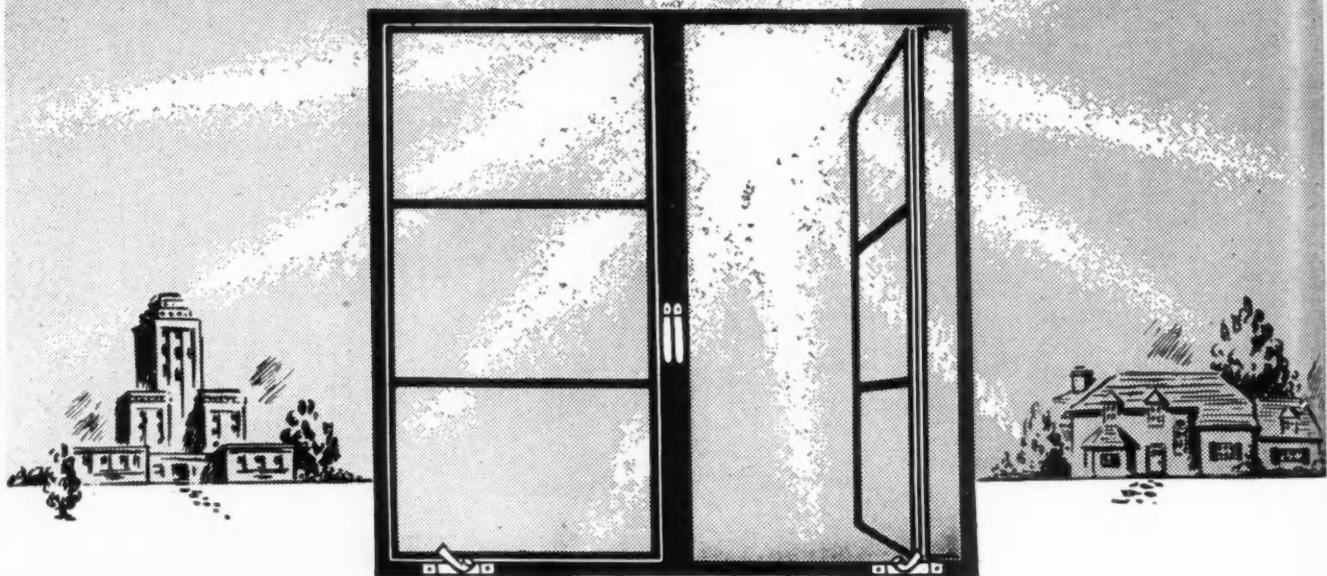
HELICAL GEAR DRIVE

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# CROFT *steel*

**Standard Residence and Apartment Casements**



## 1946-7 CATALOG NOW AVAILABLE

- ALL STANDARD SIZES
- FITTINGS, ACCESSORIES FOR ALL TYPES OF WALL CONSTRUCTION  
... brick, wood frame, brick veneer, stucco, concrete block
- PLAIN OR MOULDED WOOD SURROUNDS

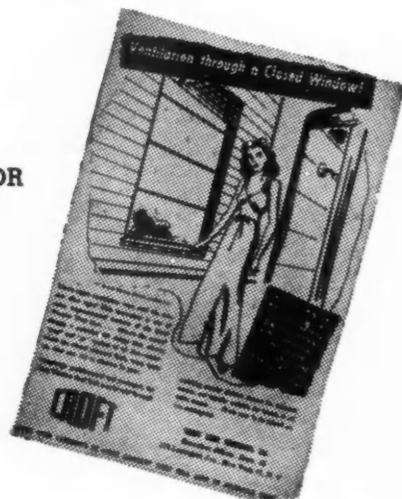
Our reconversion from all-out war production to the manufacture of the well-known Croft steel casement windows is now under way. Before Pearl Harbor, Croft standard casements were installed in thousands of homes, apartments, and housing projects . . . The features that signalized their superiority then are being incorporated in the new models. Plus narrow, pleasing lines and an over-all design that provides more light area . . . We invite dealers to send lists of stock requirements NOW—shipments will begin soon in standard industry sizes.

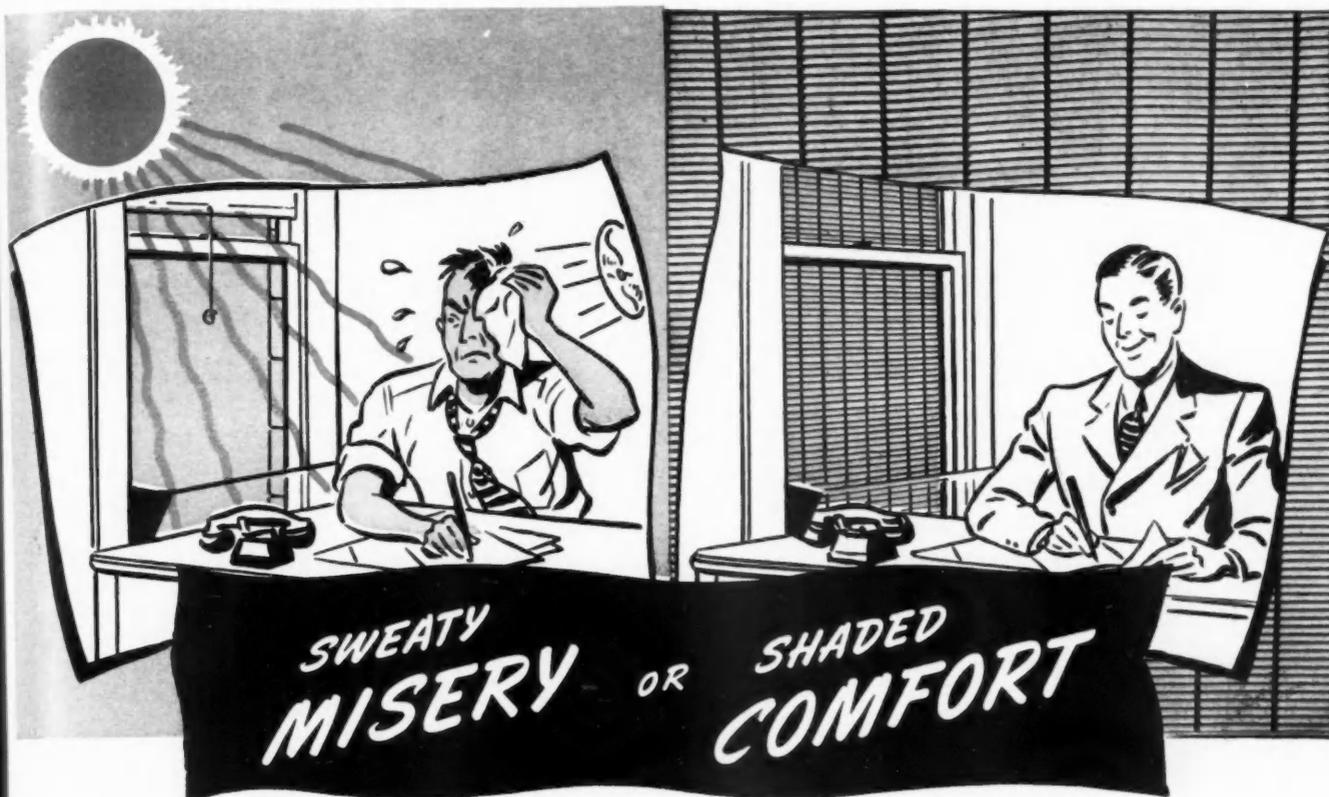
# CROFT

Croft Steel Products, Inc.  
370 Lexington Ave., New York, N. Y.

WRITE TODAY FOR  
NEW CROFT  
CATALOG

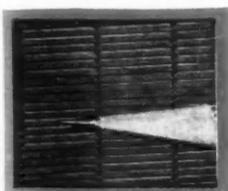
Watch for the  
revolutionary  
Croft Window  
Wall Unit.





# INSTALL KOOLSHADE<sup>®</sup> SUN SCREEN

## For Cooler Comfort in Every Sun-Exposed Room!



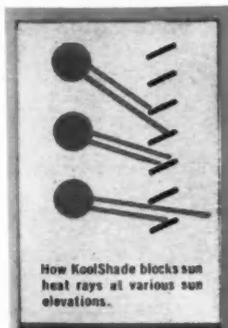
### WHAT IT IS

KoolShade is—in effect—an outside miniature venetian blind. The paper-thin bronze "slats" are permanently set at a 17 degree slant. Light rays flood in . . . you can see out clearly . . . but the sun's heat rays are stopped *outside*.



### COMPLETES INSULATION—AIDS AIR CONDITIONING

Insulation is not complete if windows are unshaded. KoolShade insulates against sun heat rays. 100 sq. ft. on sun-exposed windows eliminates the need for one ton of air conditioning capacity.



### WHAT IT PREVENTS

Sun heat rays pouring through windows cause up to 75% of room heat. Glass does not stop them . . . it does resist radiated heat. Heat rays pour in . . . accumulate. Result . . . a sweaty heat trap.



### ECONOMICAL INSTALLATION AND UPKEEP

KoolShade installs as easily and inexpensively as common insect screen . . . upkeep is negligible because it will not rust, rot or rattle. This bronze screen gives long, trouble-free service.

### WHAT IT DOES

KoolShade blocks, reflects, absorbs and radiates up to 90% of the sun's heat rays . . . outside the window. Keeps rooms as much as 15° cooler.

### EXTRA PLUS VALUES

- + Permanently adjusted for greatest efficiency.
- + Prevents fading of drapes and furnishings.
- + Unobtrusive—fits modern architectural design.
- + It also serves as an effective insect screen.

FOR FREE SAMPLE AND LITERATURE, TEAR OUT AND

MAIL THIS COUPON

# Ingersoll

"It's Cooler in the Shade"

## KOOLSHADE<sup>®</sup> Sun Screen

\*Trade Mark . . . Property of

INGERSOLL STEEL DIVISION      BORG-WARNER CORPORATION

Ingersoll Steel Division  
Borg-Warner Corp., Dept. BS  
310 S. Michigan Ave., Chicago 4, Ill.  
Send Sample and Literature on KoolShade Sun Screen.

Name: .....

Company: .....

Address: .....

City: ..... State: .....

Hottest Thing On The Market!

**THERMAFLO**  
THE *Scientific* FIREPLACE

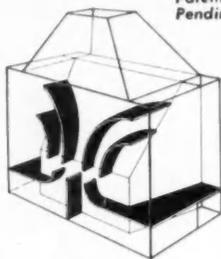


THERMAFLO  
CONDUCTS  
INCOMING  
COLD AIR  
DIRECTLY  
BEHIND  
DEAD CENTER,  
HOTTEST PART  
OF FIRE BOX

Only Thermaflo Has This Feature

**THERMAFLO Has  
All These Advantages:**

. . . Thermaflo circulates a steady flow of warm smoke-free air throughout the room . . . produces maximum heat per pound of fuel consumed . . . Thousands of satisfied users proclaim Thermaflo superior to any fireplace unit of its type—More economical to install, to maintain, to use.



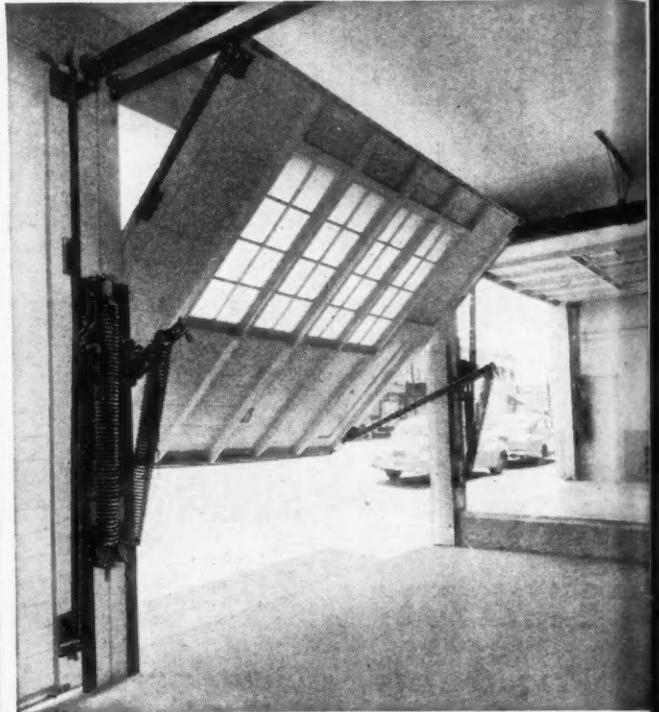
Patents Pending

Interior rear view showing air conducting baffles

Distributors:  
Still a few choice franchises open  
Phone—write—wire

**THERMAFLO**, DIVISION OF  
EASTERN CONNECTICUT WELDING CORPORATION  
NEW LONDON CONNECTICUT

**OVER-THE-TOP**  
DOOR EQUIPMENT  
LIFTS LARGE DOORS  
QUICKLY, EFFORTLESSLY



Large, one piece industrial doors, such as the ones above, when fitted with No. 912 "Over-the-Top" Door Equipment, are lifted to a full over head position with effortless ease in a matter of seconds. "Over-the-Top" Door Equipment is so simple and practical it can be installed on any rigid door, built right on the job. Another big feature: only 5 inches of head room are required. The heavy duty springs are quickly adjusted to obtain just the right amount of power. "Over-the-Top" Door Equipment is low in cost, yet gives long, satisfactory service. Investigate the numerous other exclusive advantages which both builder and owner appreciate in "Over-the-Top" Door Equipment. Write for full information.

**FRANTZ**  
*Guaranteed* BUILDWARE

FRANTZ MANUFACTURING CO., STERLING, ILLINOIS

No do  
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REG. U. S. P.  
CHICOPEE  
PRODUCTS

LOCATED AT CORNELIA, GA. ROBERT & COMPANY, INC., ARCHITECTS

# Look what happens when the public cries "MORE!"



NEW HOME OF  
**Lumite**  
THE MODERN PLASTIC  
SCREEN CLOTH

• No doubt about it! In the lives of America's homeowners, *Lumite*<sup>®</sup> Window Screen is here to stay!

This amazing plastic screen that can't rust, corrode or stain... that can't dent or bulge... is enjoying a "boom" that will last our lifetime and yours.

So... to meet this insistent, increasing demand for LUMITE, we have built a plant that is not only modern in every respect today... but is also planned to cope with the inevitable production-expansion which many years of *tomorrows* will bring.

All plant equipment is up-to-the-minute... our looms the most modern to be had. Our craftsmen know their jobs from A to Z...

and our Research and Testing Laboratory staff experiments endlessly to produce new uses for better merchandise.

This is the *only* plant in America built for the sole purpose of manufacturing plastic screen and fabric. On 300 acres of rolling Georgia countryside, this new plant will fill the ever-growing demand for LUMITE, giving you speedy and efficient service.

Write *today* for full information and samples of LUMITE Plastic Screen.

WOVEN OF SARAN  
A DOW CHEMICAL CO. PRODUCT

## WHY LUMITE IS A BEST-SELLER:

- RUSTPROOF
- WON'T BULGE
- CAN'T STAIN
- NO PAINTING
- CLEANS EASILY
- EASY TO HANDLE
- EASY TO FRAME
- NON-INFLAMMABLE
- TESTED COLOR
- LASTS LONGER
- AND STRONGER — Lumite is woven of heavy plastic filament (0.015" diameter)

**CHICOPEE MANUFACTURING CORPORATION**  
47 Worth Street, New York 13, N. Y.

*World's largest maker of Plastic Screen Cloth*



ILLINOIS



**A bonus for buildings!**  
**New**  
**EAGLE Ready-To-Use**  
**WHITE LEAD PAINT**

Born with a  
 2000-year-old pedigree

The glory of a brilliant white gloss that holds its whiteness can now be given to your buildings. And because of meticulous care in mixing, Eagle Ready-To-Use White Lead Paint possesses an exceptional smoothness that makes it more useful to property owners, easier to use for painters. It delivers to your clients a paint job that surpasses their greatest expectations, and enhances your reputation.



**Traditional white lead in a new, convenient form**

Eagle RTU Paint is backed by the 2000-year-old white lead reputation plus more than a century of Eagle-Picher paint making experience. It preserves the durability, beauty and economy made famous by white lead . . . and adds new, time-saving convenience. You can specify it with complete confidence.

Two forms: Primer Sealer and Outside White Finish Coat. One, two and five gallon pails:

**THE EAGLE-PICHER COMPANY**

Cincinnati (1), Ohio

Member of the Lead Industries Association



**A 103-YEAR-OLD FAVORITE**  
 Eagle White Lead Paste continues available

**EAGLE PURE**  
**WHITE LEAD**  
*Paint*

Buy more  
 U. S. Savings  
 Bonds

**If I Were a Young Man—**  
 (Continued from page 63)

dealing with the subject of veterans and other young men, and their possible careers in the building industry, and to suggest that anyone who is interested secure and examine them thoroughly. The first, titled: "OPPORTUNITY UNLIMITED, A Guide for Veterans Interested in the Construction Industry," is issued by the Committee on Opportunities in the Construction Industry, under the sponsorship of a number of organizations interested in this field. It may be obtained at a cost of ten cents, by writing Mr. E. Lawrence Chandler, Room 703, 1026 17th St., N. W., Washington, D. C.

The second, dealing in complete detail with varied building courses offered by universities throughout the country, and with the magnificent opportunities in the building industry, is titled: "New Career Opportunities in the Building Industry," and is obtainable free of charge from Johns-Manville, 22 E. 40th St., New York.

The building industry needs young men. I could continue at length to tell you of its opportunities for a life well and profitably spent, a life of service and constructive achievement, but there is no need of that. You, young men of America, must look into it yourselves, and decide.

In that decision, though, I hope you will heed the words of a man who feels that he has been privileged to build thousands of homes for Americans and is looking forward to the years ahead when, in normal markets, he will be privileged to build thousands more. I hope, in this short presentation, I have been able to convey to you some of the thrill of achievement—a thrill you never really know till you turn over the front-door key to your new Mr.-and-Mrs.-American home owner—that comes from starting with raw land and sweating through material assembly, construction and completion of a home. That comes from meeting, and conquering, problems of material shortages, labor upsets, financing arrangements. That comes from the reward that is the builder's, a reward not measured in dollars and cents alone, but in the satisfaction of seeing a new home where none would be, but for his efforts; and installing in it an American family to carry on the traditions of America, once he has given them, literally, a stake in the ground of Democracy.

That is why I have given an unhesitating answer to the question: What would you do, today, if you were a young man?

If I were a young man, I would become a builder.

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### Young America Learns How (Continued from page 65)

Juniors and Seniors. Incidentally, it is noteworthy that of our enrollment of carpenter apprentices, fifteen are G.I.'s.

"The following year these students receive construction experience in the erection of a house or other building. This completion of the cycle of an entire building project—basic experience in the fundamental building trades and the erection of a building—gives the student a practical exploratory experience so essential in an intelligent guidance program. It acquaints him with the architectural and decorative problems that must be considered, gives concrete grounds for developing judgment and skill in dealing successfully with such problems, provides experience in making the necessary financial arrangements for the project and in organizing and carrying the work to completion.

"It also introduces the students to civic and economic problems, such as conforming to building and sanitary codes and understanding the factors which affect the selling and rental of real estate.

"The student who has had this high school training and who has the interest aptitudes, and desired character traits, is now ready to indenture himself as an apprentice with some contractor in any of the building trades," Mr. Durbahn concluded. "His training then will be alongside skilled journeymen, learning from them the kinks of the trade and improving his skill. He must attend school one day a week, provided at present by the high school for at least one trade—carpentry."

### Bituminous Coal Research Moves Headquarters Office

THE administrative offices of Bituminous Coal Research, Inc., national research agency of the bituminous coal industry, have been moved from 719 Oliver Building to 912 Oliver Building, Pittsburgh, Pa.

The new offices will be occupied by Dr. Harold J. Rose, vice president and director of research; Elmer R. Kaiser, assistant to president and assistant director of research; William S. Major, development engineer; T. A. Day, special representative; Carl S. Westerberg, and the secretarial and clerical employees.

Carl S. Westerberg has recently joined the agency, succeeding Ralph H. Hopp, who resigned to become librarian of Battelle Memorial Institute. Mr. Westerberg will be responsible for the agency's bulletin, Bituminous Coal Research, issued quarterly, and technical information service. Howard N. Eavenson, president, has offices at 2720 Koppers Building, Pittsburgh; and C. A. Reed, secretary, headquarters at 803 Southern Building, Washington, D. C.



There are Weisway Cabinet Showers for luxurious installations, and for the simpler baths required in low cost homes. Each model embodies service-tested materials, precision fabrication and the quality craftsmanship of the pioneer in Cabinet Shower manufacture.

Weisway's fine appearance is a reflection of the quality which goes clear through—the 4-way protection\* which makes them leak proof, corrosion resistant, insures lasting satisfaction.

Mail coupon now for book of floor-plans and sketches which shows how Weisways make more baths easily possible in new or remodeled homes.



# Weisway

## CABINET SHOWERS

- \*1. Galvanized
- 2. Bonderized
- 3. Baked prime coal
- 4. Baked synthetic enamel

HENRY WEIS MFG. CO. (Est. 1879)  
501 Weisway Building, Elkhart, Ind.

Please send your free book "The Mark of a Modern Home."

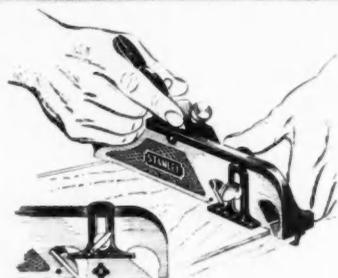
Name \_\_\_\_\_

Street \_\_\_\_\_

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

# The Carpenter's Choice

## No. 78 RABBET PLANE



Makes rabbet cuts up to 1½ inches wide. The adjustable fence for guiding the work fits on either side of the plane body. Adjustable depth gauge is removable. Knife-like spur scores the wood ahead of the cutter... particularly helpful on cross grain cuts. Cutter can be removed and used in forward seat to convert the plane into a bull-nose plane for working close into corners.



The carpenter's favorite tool for making quick work of rabbet joints for shelving, built-in bookcases, weatherstripping and other fancy rabbeting jobs is the Stanley No. 78 Plane. Makes smooth cuts even across the grain. Simple to adjust and use, the No. 78 Rabbet Plane is just one of the many planes Stanley manufactures to help woodworkers do better work. Stanley Tools, New Britain, Connecticut.

# STANLEY

TRADE MARK

THE TOOL BOX OF THE WORLD

### Modern Packaged Kitchen Unit

A COMPLETE kitchen unit for use in apartment houses, hotels and schools, tourist courts, hospitals and small homes is manufactured by The Parsons Co. of Detroit. This "Pure-aire" unit is a packaged unit shipped to the job in one piece completely assembled.

The equipment is available for use with either gas or electricity and is manufactured in the Traverse City plant.



The model illustrated is the No. 700 gas kitchen unit, deluxe. It consists of a four-burner gas oven and broiler, and a 2.5 cubic foot capacity electric refrigerator. The basic unit is 46 in. wide, 22¼ in. deep and 81½ in. high. The side cabinets are 14 in. and are shipped separately to be added to the basic unit provided space is available. The sink and drain is manufactured from one piece of 18 gauge Monel metal with a satin finish. The exterior finish of the cabinet is a light gray.

\* \* \*

### Draper Heads Housing Trends

EARLE S. DRAPER, who for five years served as Deputy Commissioner of the Federal Housing Administration, has accepted the presidency of Housing Trends, Inc., a new firm providing an architectural and engineering service for builders and lending institutions.

Associated with Mr. Draper are Kenneth Duncan, formerly treasurer and general manager of the Harmon National Realty Organization, and Randolph Evans and W. Otis Chapman, consulting architects.

\* \* \*

### Solvay Opens New Branch

SOLVAY Sales Corp. has announced the establishment of a new office in Houston, Tex. This new office, which will cover the states of Texas, New Mexico and Arizona, will be in charge of Col. S. O. Taylor.

Col. Taylor is a veteran of both World War I and World War II. Prior to his latest entry in the Army, he was employed for a period of eleven years with the St. Louis branch of the Corporation.

SELF-FI

For

The new weather-stripping wood sliding full-length press tight windows. Old Silent

SELF-FI

The new partly open intruders, with each combination

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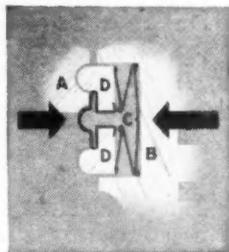
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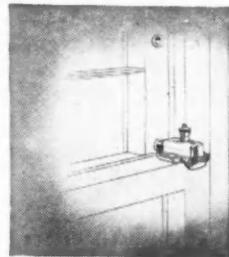
# Announcing . . . an entirely NEW kind of window CURTIS SELF-FITTING SILENTITE!



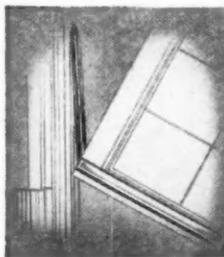
**SELF-FITTING—**  
*For Greater Weather-Tightness*  
The new Silentite has "floating" weather-stripping. Illustration shows wood sliding bars which are seated on full-length bronze weather-strips and press tightly against moving parts of window. 20% less air infiltration than old Silentite.



**SELF-FITTING—**  
*For Easier Operation*  
The "floating" weather-stripping forms a wood-to-wood contact with the sash. The new Silentite is easy to open and close at the outset, and continues to operate smoothly with use. And remember, Silentite has no weights, pulleys, or cords to get out of order.



**SELF-FITTING—**  
*For Locking Safety*  
The new Silentite locks in a closed or partly open position—new safety from intruders. New-style sash lock furnished with each unit—and you can get a new combination storm sash and screen, too!



**SELF-FITTING—**  
*For Simple Installation*  
The sash is installed with minimum effort—greatly lowering Silentite installation cost: Top and bottom sash may be removed from the inside by removal of one inside stop only.

**B**ETTER windows—more weather-tight—easier to operate—easier to install! That's what home-building America wants today. And today, Curtis answers that need with a startling new window development—the *self-fitting* Silentite! Here's a window that represents as great an advance in window design as the original Silentite! Read about some of the new Silentite features shown on this page—then you'll know why Curtis again brings America more *window value* for its money!



In Canada:  
W. C. Edwards  
& Co., Ltd.  
Ottawa, Canada

CURTIS COMPANIES SERVICE BUREAU  
Dept. AB-55, Curtis Building  
Clinton, Iowa  
Gentlemen: Please send me full information on the new Silentite Window Line.

Name.....

Address.....

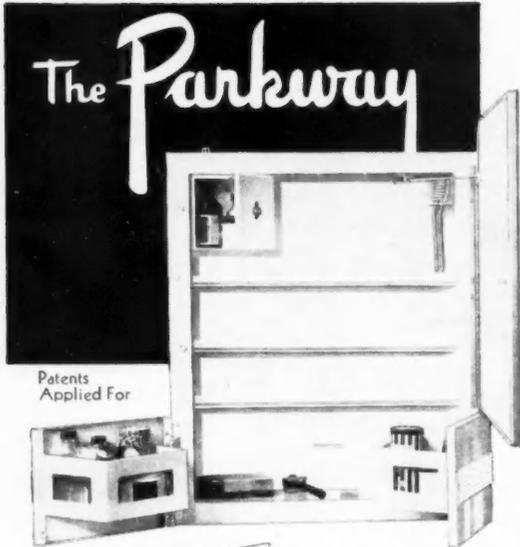
City..... State.....

Remember, Silentite continues to give you "streamlined" beauty—operation without weights or pulleys—freedom from repairs—and many other features. Get all the facts about the new Silentite Self-fitting Window—and the new line of Curtis Stock Architectural Woodwork!



*A Smart Line  
to Suit Every  
Taste and Purse*

## Bathroom Cabinets



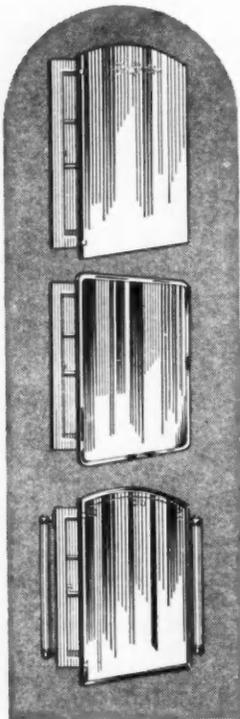
Patents  
Applied For

**COMING...**  
A complete new line  
of chrome bathroom  
accessories.



Specify Faries Cabinets in the new homes you design or build this year, and be sure of customer satisfaction. Their sparkling beauty, modern design and unusual new special features appeal to all prospective home-owners.

The PARKWAY has more new and exclusive features than any other cabinet. There are two Personal Compartments for everyday needs; a "Safe-T" Compartment at top for poison drugs and adult items; Utility Shelf; Adjustable Tooth Brush Holder inside cabinet; Razor Blade Disposal; adjustable glass shelves; piano hinges; No. 1 Polished Plate Mirror.



**No. 1** For the budget buyer. Beautiful mirror and finish. High quality.

Heavy plate mirror. Incandescent light. Beautifully trimmed. **No. 80**

**No. 2** Moderately priced, well-made, long life mirror.

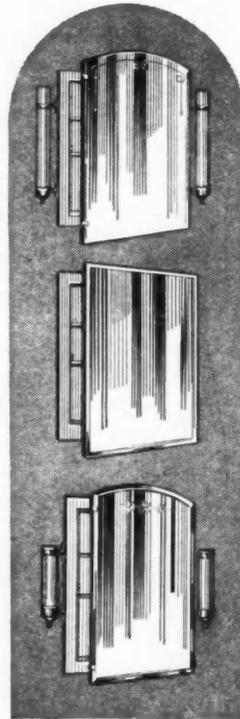
Heavy plate mirror. Chrome metal bound. Durable finish. **No. 30**

**No. 380** New fluorescent lights. Ready to install. Heavy plate mirror.

Popular priced yet has many features of higher priced models. **No. 8**

All cabinets white baked-enamel finish, chrome trimmed.

WRITE FOR  
COMPLETE DESCRIPTION  
AND PRICES



**Faries Manufacturing Company**  
DECATUR, ILLINOIS

### Borg-Warner Establishes Norge-Heat Division

BORG-WARNER has completed plans for the establishment of a new Borg-Warner unit to be known as the Norge-Heat division, it was announced by C. S. Davis, president. He added that Howard E. Blood had been named president of Norge-Heat. Mr. Blood is also head of the corporation's Norge and Detroit Gear divisions, and a director.



HOWARD E. BLOOD

Initial production will include output of several improved models of automatic, thermostatically-controlled oil-fired furnaces, utility room and under floor heating units, oil-fired water heaters and air filter units.

\* \* \*

### Hotpoint Institute Formed

TO insure selling practices that instruct consumers in the "use values" of the new postwar electric appliances, Edison General Electric Appliance Co. has formed Hotpoint Institute.

With appliance ensembles for new homes and home modernization running into considerable investment sums, the electric home equipment industry has outgrown the limited "home economics testing kitchen and store demonstration technique," and must be broadened to provide many new services, Ward R. Schafer, vice president in charge of sales, said.

Margaret Davidson, director of home economics, has been named to head the Institute. A present staff of eight home economists is handling the testing, planning and training assignments.

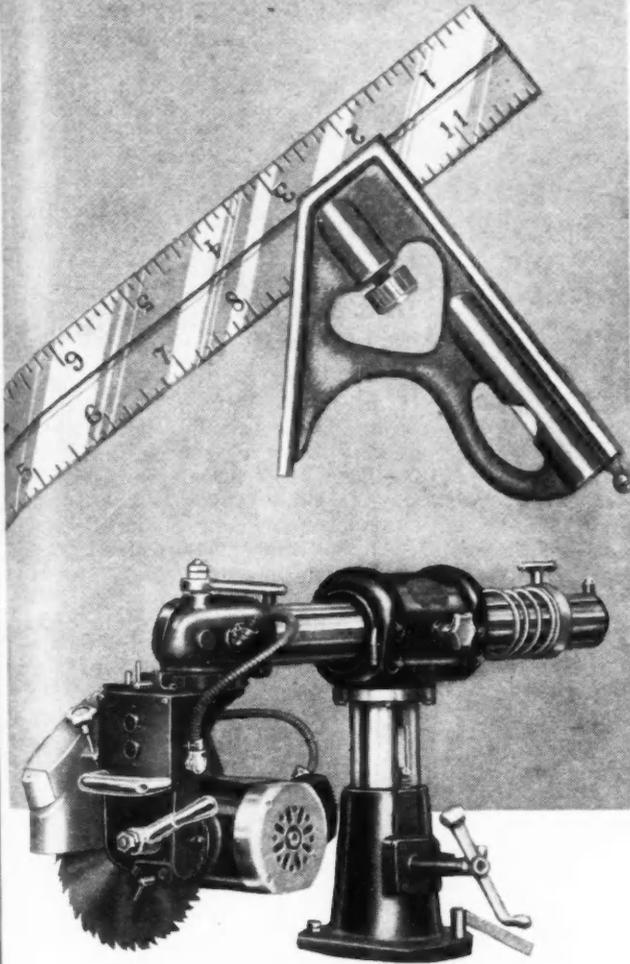
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### Film Reviews Help Plan Your Program

THE EMPIC Movie Guide, published by the Electrical Manufacturers Public Information Center, New York, reviews films available for the guidance of schools, clubs and other interested groups. The new issue pertains to films available upon agriculture, farm life and farm problems in the United States.

The bulletin reviews numerous agriculture films produced by electrical manufacturers and agencies.

# COMET CONSTRUCTION ASSURES CONSISTENT ACCURACY



From every part of the nation owners tell of the unfailing cutting accuracy of their Comet Saws. With Comets, accuracy is a permanent virtue. They are built that way. Precision-manufactured Comets give long life, precision performance. Order from your nearest Comet dealer or write direct.

**CONSOLIDATED MACHINERY & SUPPLY CO., LTD.**  
2029-33 Santa Fe Avenue, Los Angeles 21, California

**COMETS** *cut quicker*



Insl-Cotton is so quick and easy to install, costs are held to a minimum. Packaged in flexible blankets, cut to exact rafter widths, installation is as simple as unrolling a rug—no special tools are required. Insl-Cotton is soft and fluffy, making it easy to push into difficult corners. Made of wholesome vegetable fibers, this efficient, flame-proof insulation is free from waste . . . contains no abrasives or flying particles to injure workmen. Featherlight, easy-to-handle Insl-Cotton can be installed in remarkably short time—saves labor, saves man hours, saves money. Cotton insulation, certified and approved by the U. S. Government, will not raise insurance rates.

**\*Certified** —No other insulation except flame-proof, fire-retarding cotton insulation made under Federal supervision can make this claim. The Government tests and certifies all Insl-Cotton insulation. **INSL-COTTON EXCEEDS TECHNICAL REQUIREMENTS** for approved insulation in FHA, FPHA and HH-1-528 specifications. Density pound per cu. ft. 0.875, Mean Temp. Fahr. 72°, Conductivity or (K) value 0.24.

### NATIONALLY ADVERTISED

Insl-Cotton is advertised from coast to coast to help bring you greater sales and profits.

**DEALERS . . . DISTRIBUTORS**—Some territories still open for competitively priced Insl-Cotton. Write today for details.

## INSL-COTTON DIVISION TAYLOR BEDDING MFG. CO.

*The Originators of Flame-Proof  
Fire-Retarding Cotton Insulation*

TAYLOR, TEXAS

INSL-COTTON DIVISION  
Taylor Bedding Mfg. Co., Taylor, Texas  
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## Barcol OVERdoor

### A RELIABLE UPWARD-ACTING DOOR with DISTINCTIVE Features

The picture illustrates only one of many possible types of buildings in which the Barcol OVERdoor can be used successfully — in this case, that of a lumber dealer who required a large-size door (18 feet wide by 13 feet high) for a trucking entrance. The Barcol OVERdoor is built to exacting standards of manufacture to insure long life and trouble-free operation, and offers a number of distinctive features such as:

**ROLLER-CRANK CLOSING ACTION**

**SELF-LATCHING BOLTS**

**TWIN-TORSION TAILORED SPRINGS**

**CONTINUOUS VERTICAL TRACK BRACKETS**



Barcol OVERdoors

Electric

Door Operators

Switch Controls

Radio Controls

Barcol OVERdoors are made in standard sizes for residence garages and in special large sizes to order for commercial, industrial, institutional, and similar buildings. Supplementary Barcol equipment includes Electric Door Operators for remote switch control of large doors and gates, and the Radio Control for opening and closing garage doors from a moving car by simply pushing a button. See your Barber-Colman representative for full details on any contemplated installation.

FACTORY-TRAINED SALES REPRESENTATIVES IN PRINCIPAL CITIES

# BARBER-COLMAN COMPANY

104 MILL ST.

• ROCKFORD, ILL.

### Certain-teed Inaugurates 25 Year Club for Employees

**T**HIRTEEN senior employees of the Chicago offices of Certain-teed Products Corp. became charter members of the newly inaugurated 25 Year Club restricted to employees with a quarter-century or more consecutive years with the company.

At a banquet recently, the men were welcomed as charter members by John V. Lizars, vice president. Each was presented an inscribed Lord Elgin watch and a certificate of appreciation by R. R. Galloway, vice president, and Mr. Lizars.

John E. Miller with 34 years headed the group, followed by E. J. Scott, 32 years; C. E. Ainsley, 29 years; Michele Croce, 29 years; C. Engelhardt, 28 years; Roland Grimm, 28 years; C. R. Hugentugler, 28 years; Harry J. Lang, 27 years; M. F. Brown, 27 years; J. L. Laughlin, 26 years; Roy E. Westfall, 26 years; Walter C. Will, 26 years; and Harry F. Gardner, 25 years.

\* \* \*

### Addition to Wyatt Staff

**H**OWARD P. VERMILYA, research director of the John B. Pierce Foundation, has been appointed to the staff of Wilson W. Wyatt, National Housing Expediter and Administrator of the National Housing Agency, as a consultant on technical problems.

An architect by profession, Mr. Vermilya is a graduate of Amherst College and of the Columbia University School of Architecture. He joined the Federal Housing Administration upon its establishment in 1934 as assistant director of the Technical Division and was promoted to head of the division in 1937.

In September of 1944, he resigned his FHA post to go with the Pierce Foundation. He will be on leave from the Foundation while serving as consultant to Mr. Wyatt.

\* \* \*

### Wheeling Corrugating Elects Vice President

**D**IRECTORS of the Wheeling Corrugating Co. recently elected Elmer Brooks Carter vice president to succeed the late John H. Robinson. He will be in charge of sales.

Carter returned to Wheeling from the army and resumed his duties as assistant vice president. He has been with the firm since 1923 when he worked in the order department at the Portsmouth Works of Wheeling Steel.

In 1937 he became assistant manager at the Columbus, Ohio, warehouse, and in the same year was appointed manager. The Columbus warehouse was closed for the duration of the war and was re-opened only last month when Mr. Carter again became manager. He will be located in Wheeling.

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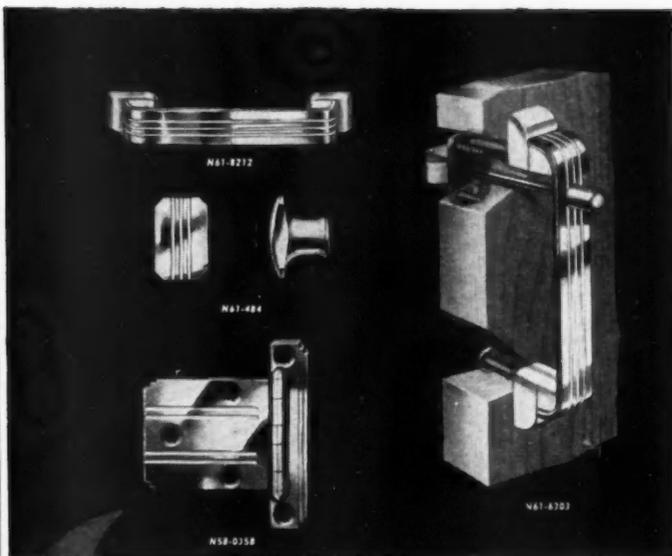
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Shown above is one of four popular matched Cabinet Hardware designs that is profit-packed and styled to sell on sight. The display board below includes each of the four designs available. Smaller boards with your choice of any two designs in matched sets are also available. Put these eye-catching silent-salesmen to work for you on your counters and in your store windows. Write for colorful, descriptive Catalog.



NATIONAL LOCK COMPANY

Builders Hardware Division  
Rockford, Illinois



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MASONRY WATERPROOFING PRODUCTS

Nationally Advertised in The Saturday Evening Post

FOR WATERPROOFING DAMP-PROOFING & DECORATING POROUS MASONRY

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**MARCO**

### 5 MODELS

Write for Free Literature and Name of Nearest Distributor.

**THE MARSCHKE CO.**  
ST. PAUL 3, MINN.

### Phil Fogarty to Truscon

TRUSCON Laboratories, Inc., an affiliate of Devoe & Reynolds Co. Inc., have announced the appointment of Phil Fogarty as New York representative.



PHIL FOGARTY

Mr. Fogarty was personally engaged in the title contracting business for many years prior to 1937, when he joined a New York distributing organization which sold protective coatings for concrete, steel and general industrial buildings.

He will make his office at 787 First Ave., New York City.

\*\*\*

### Tappan Stove Enlarges Sales Staff

FURTHER expansion of the Tappan Stove Company's sales organization has been announced with the appointment of a development manager and seven additional sales representatives.

Major Paul I. Berno, former Tappan sales representative and later sales promotion manager, has been named development manager.

Three veterans are included on the list of new sales representatives. They include: G. E. Connally, assigned to Philadelphia; John McLaren, Georgia, Florida and Alabama, and E. H. Jelliff, southern Indiana. Other representatives and territories they will cover are: A. J. Bradley, Michigan; A. M. Probst, Pittsburgh; J. F. Loeffler, New England, and R. C. Smith, New Jersey.

\*\*\*

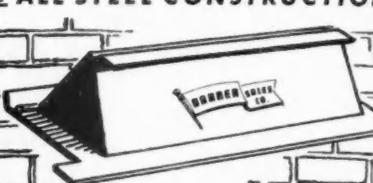
### Dement Joins U. S. Plywood

RICHARD H. Dement has been appointed assistant in charge of the U. S. Plywood Corporation's Armorply division. This was announced by J. J. Dunne, vice president, special products division.

A graduate of University of Maryland, Dement was formerly consulting engineer with H. C. Fuller Co., and Strong-Cobb and Co. Immediately prior to his association with U. S. Plywood, Dement was with the War Department in a civilian capacity in charge of the engineering development and manufacture of military powders and explosives.

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ALL STEEL CONSTRUCTION



Superior in many ways to old-fashioned cast-iron dampers . . .

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**"PYROFAX"**  
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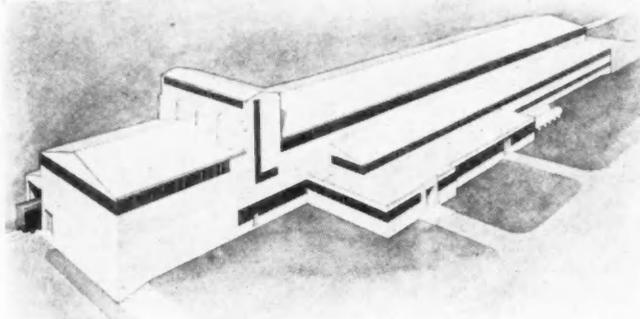
**HOMASOTE COMPANY, Trenton 3, N. J.**

## Manufacturers Expand—

(Continued from page 71)

27,000 sq. ft. of floor space to facilities now devoted to the manufacture of home heating appliances. Coleman has also leased a modern factory building to be used in the manufacture of gas floor furnaces.

The first step in a modernization and expansion program at the factories of GMC Truck & Coach Division of General Motors in Pontiac, Mich., was an assembly plant for production of GM cruiser-type coaches. The entire program, which will add 1,500,000 sq. ft. of floor space, includes the assembly plant; an engine plant for manufacture and assembly of GMC engines, and a new engineering building for experimental work.

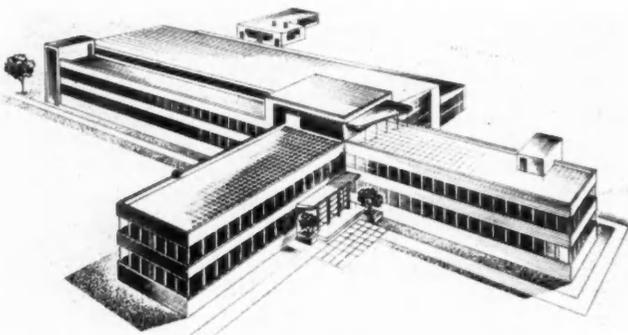


Philip Carey Manufacturing Co. new research plant.

A modern daylight structure of steel and concrete will replace the present 75-year old plant of E. C. Atkins and Co., Indianapolis, Ind. The entire present structure now occupying a two-block area will be replaced. Under the new system products will be completed on the same level and in the same production zone where they originate. The structure will cover an area of approximately 500,000 sq. ft.

Work has begun at New Providence, N. J., on the construction of a new mechanical research laboratory for Air Reduction and subsidiary companies. The new laboratory will have a floor area of 78,000 sq. ft. and will house the apparatus research department. Two small auxiliary service buildings will be adjacent.

Another project in the program of the Chevrolet Motor Division of General Motors is now under construction in the Los Angeles area. The principal units consist



New mechanical research laboratory for Air Reduction Co.

of a parts warehouse, a two-story office building, and a main building housing Fisher Body and Chevrolet assembly operations under one roof.

The Stanley Co., New Britain, Conn., is in the process of constructing five new buildings with an estimated million square feet of new manufacturing floor space for its cabinet hardware, electric tools and other divisions.

A big expansion program by Johns-Manville Corp. incorporates a research center devoted to building materials and industrial products near Bound Brook, N. J.,

and a new insulating board plant near Natchez, Miss. The first unit of the new plant will add about 300,000 sq. ft. of floor space, and will be modeled after a similar one built in Jarrett, Va.

The Pittsburgh Plate Glass Co. has announced that construction is beginning on two new plants. The first of these is at Springdale, Pa., for manufacture of a complete line of paints. The plant will have a total floor area of approximately 200,000 sq. ft. The second is at Kokomo, Ind., with the original plant being trebled in size. The expansion will increase floor space from 30,000 to 90,000 sq. ft.

An expansion program involving additions to plants in four United States and Canadian cities has been announced by Minneapolis-Honeywell Regulator Co. An addition of a new wing to the main plant in Minneapolis will add approximately 120,000 sq. ft.

Payne Furnace Co., Beverly Hills, Calif., has launched an expansion and building program. The plan contemplates the immediate construction of two additions to the factory totaling 64,000 sq. ft., and the installation of modern machinery and equipment.

Masonite Corp. has approved an expansion program of its plant at Laurel, Miss. When complete, the additional facilities will increase production of Masonite Presdwoods by more than 30 per cent.



New building for The Reliance Electric & Engineering Co.

The Lumite Division of the Chicopee Manufacturing Corp. has broken ground for a new weaving plant at Cornelia, Ga. The plant, a one-story building, will be devoted exclusively to weaving of Lumite plastic fabrics.

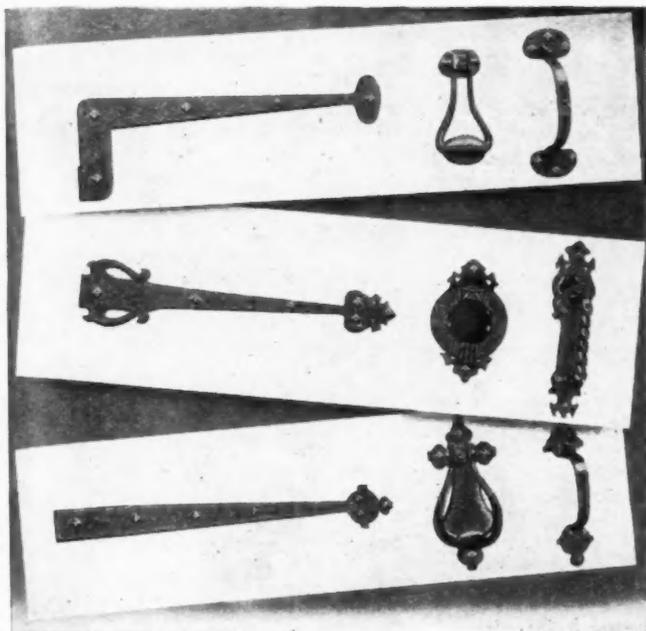
Walker-Turner Co., Inc., Plainfield, N. J., has begun construction on additions to two plants. The total area of new construction for the plants will be 200,000 sq. ft.

The General Electric Co. has completed negotiations to purchase a new factory outside Trenton, N. J., for the manufacture of automatic washing machines. The new factory includes 270,000 sq. ft.

The Emerson Electric Mfg. Co., St. Louis, Mo., has announced its expansion program for moving all manufacturing and office facilities to a new plant on approximately forty acres. Based on floor area, the move will mean an increase in work space of about 50 per cent. with production increases up to 200 per cent.

Ground has been broken for a new and larger warehouse to be occupied by United States Plywood Corp. at Dix Road, Detroit, Mich. The new distribution unit will have 40,000 sq. ft. on its one floor. Construction has also started on a new distributing plant and warehouse for U. S.-Mengel Plywoods, Inc., in Louisville, Ky. The warehouse, having a floor area of nearly 20,000 sq. ft., will include a permanent display of doors and other plywood products.

These and many similar plants assure builders a steady flow of materials for the huge housing program that will get under way once the restrictions imposed by government agencies are removed.



**Forged Iron Hardware**  
 BY **McKINNEY**

**MEETS EVERY 1946 TASTE**

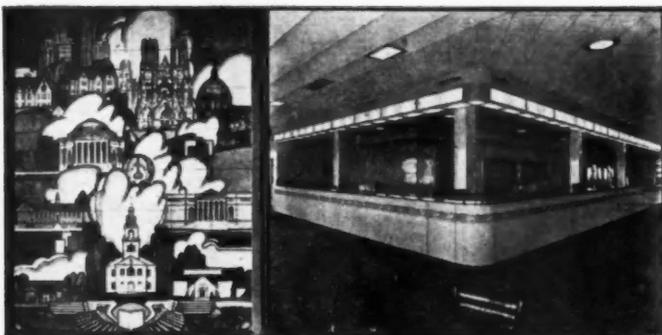
Whether the new homes to be built in your section of the country will be Cape Cod, French Provincial, Mediterranean, or Modern, McKinney Forged Iron Hardware offers a wide range of matched designs that harmonize with the preferred architectural styles.

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Architectural porcelain enamel is an established and accepted medium for the exterior and interior treatment of buildings. It is equally effective in new construction or in modernization of existing structures.

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SEAPORCEL\* can be executed in any color and tint and is available in standard finishes of gloss, semi-matte, "terra-cotta," "granite" and "limestone." It is fire-proof, corrosion and acid resistant; will not crack or craze when exposed to thermal shock and will withstand moderate mishandling.

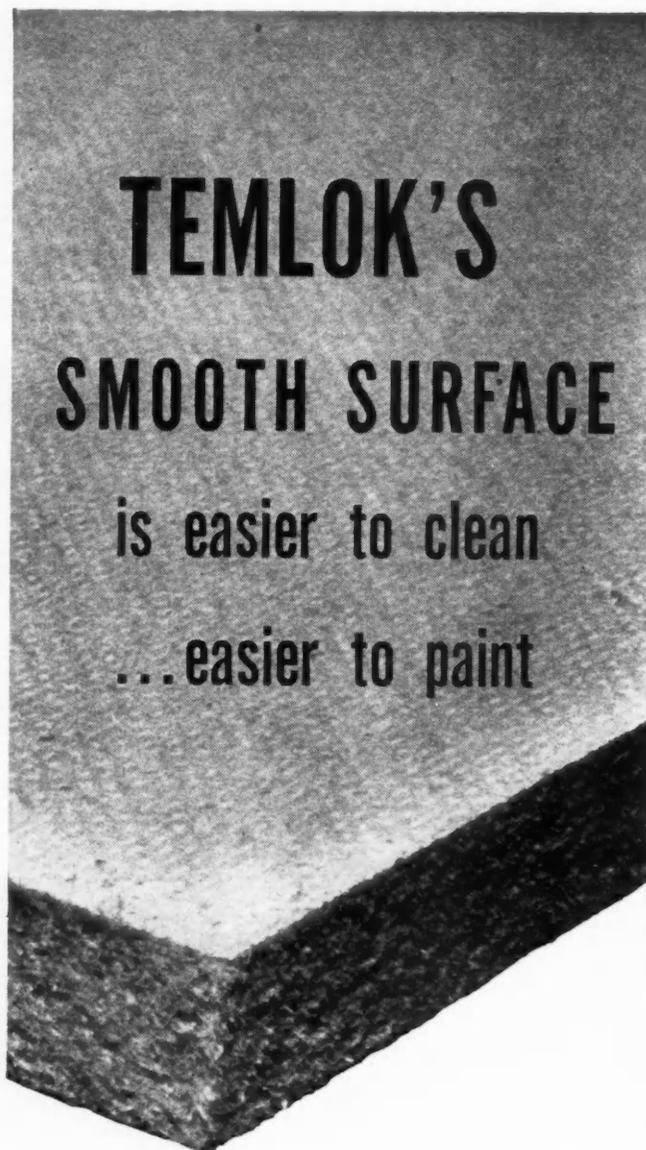
Send for details of customary design, methods of erection and examples of work which has been completed.

\*SEAPORCEL (Reg. U.S. Pat. Off.) is a ceramic coating fused into its metal base at 1550 degrees F.



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 is easier to clean  
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**BUILDING MATERIALS**

TEMLOK\* INSULATING WOOL MONOWALL\*

## Books That Will Be Helpful to the Young Man Entering Building Field

**T**HE *American Builder* has selected the following list of books with the idea that many of its readers, as well as young men entering the field, would like to build up a library of valuable information on building and its related subjects. Local book stores and public libraries can aid in securing copies of many of the listed volumes. The books marked \* can be secured from *American Builder's* Book Department. A complete list of books available will be sent on request.

*Home Architecture*. Newcomb & Foster. John Wiley & Sons, Inc. 336 pp. 6x9. \$3.25.

*House Planning*. Lowndes. International Textbook Co. 168 pp. 107 illus. \$1.95.

*House Planning*. Field. McGraw-Hill Book Co. 271 pp. 8½x11. illus. \$3.00.

*How to Plan a House*. Townsend & Dalzell. American Technical Society. 525 pp. 371 Illus. 21 tables, 8 blueprints, \$4.50.

*How to Remodel a House*. Dalzell & Townsend. American Technical Society. 528 pp. 318 illus. 12 tables. 10 blueprints. \$4.75.

*Blueprint Reading for the Building Trades.\** Dalzell-McKinney-Ritow. American Technical Society. 111 pp. 69 illus. \$1.25.

*Blueprint Reading for the Building Trades.\** Joseph E. Kenny. McGraw-Hill Book Co. 100 pp. 31 blueprints. 8½x11. \$2.00.

*Building Trades Blueprint Reading*. Dalzell. American Technical Society. Vol. I: 142 pp. 124 illus. 14 drawings. \$2.00. Vol. II: 92 pp. 9 blueprints. \$2.00.

*National Handbook of Plan Reading and Material Listing.\** White & Smith. 156 pp. illus. Tables. 5½x8. \$5.00.

*Architectural Drawing and Detailing*. McGraw-Hill Book Co. Dalzell & McKinney. 212 pp. \$2.50.

*Simplified Architectural Drawing*. T. C. Buss, Jr. American Technical Society. 258 pp. \$4.75.

*Architects' Specifications*. Goldwin Goldsmith. John Wiley & Sons, Inc. 131 pp. 8½x11. \$2.50.

*Ready-Written Specifications*. Holland & Parker. John Wiley & Sons, Inc. 274 pp. 8½x11. \$5.50.

*Audel's Carpenters and Builders Guide.\** Graham & Emory. 4 Vols. 1560 pp. 3750 illus. 4¾x6⅞. \$6.00. (Single vols. \$1.50 ea.)

*Carpentry.\** Townsend. American Technical Society. 441 pp. 541 illus. \$2.00.

*Carpentry Series.\** 4 Monographs. 8½x11. "Use of Hand Tools and Portable Machinery." 215 pp. \$1.60. "Concrete Form Construction." 113 pp. \$1.50. "Unit Course in Framing, Sheathing and Insulation for Beginners in Carpentry." 243 pp. \$2.00. "Interior and Exterior Trim." 269 pp. \$2.00.

*Architects' and Builders' Handbook*. Kidder & Parker. John Wiley & Sons, Inc. 2315 pp. 4x7. \$8.00.

*Architects' and Builders' Reference Book*. Frank Halstead. John Wiley & Sons, Inc. 189 pp. 7¾x11. 67 plates. \$3.00.

*Architectural Construction*. Voss & Henry. John Wiley & Sons, Inc. 1267 pp. 581 figures. 358 plates. 9x11½. \$20.00.

*Architectural Details*. Frank Halstead. John Wiley & Sons, Inc. 281 pp. 114 plates. 7¾x11. \$3.50.

*Architectural Details*. Rouillion & Ramsey. John Wiley & Sons, Inc. 131 pp. 71 plates. 11x8. \$3.00.

*Architectural Graphic Standards*. Ramsey & Sleeper. John Wiley & Sons, Inc. 344 pp. 9¼x11½. \$6.00.

*Building Construction*. Whitney C. Huntington. John Wiley & Sons, Inc. 674 pp. 6x9. \$6.00.

*Don Graf Data Sheets*. Reinhold Publishing Corp. 779 pp. 4x7. \$5.00.

*Good Practice in Construction*. Philip G. Knobloch. Reinhold Publishing Corp. 114 plates. 9x12. \$6.00.

*Handbook of Building Construction.\** Hool & Johnson. McGraw-Hill Book Co. 1611 pp. (2 Vols.) 6x9. Illus. \$10.00.

*House Construction Details.\** Compiled by Nelson L. Burbank. 314 pp. 1500 illus. 8½x11½. \$3.00.

*Materials and Methods of Architectural Construction*. Gay & Parker. John Wiley & Sons, Inc. 639 pp. 6x9. \$6.00.

*Quick Construction—Practical Building Problems*. H. H. Siegle. Frederick J. Drake & Co. 252 pp. \$2.00.

*A Short Dictionary of Architecture*. Ware and Beatty. Philosophical Library. New York. 109 pp. 278 illus. \$2.75.

*Simplified Engineering for Architects and Builders*. Harry Parker. John Wiley & Sons, Inc. 214 pp. 96 illus. 5x7¾. \$2.75.

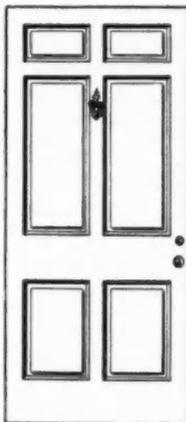
*Standard Construction Methods*. G. Underwood. McGraw-Hill Book Co. 501 pp. 6x9. 422 illus. \$5.00.

(Continued to page 138)

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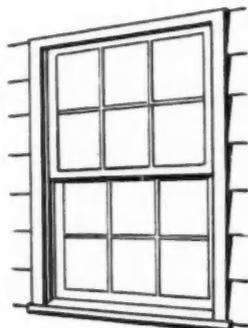


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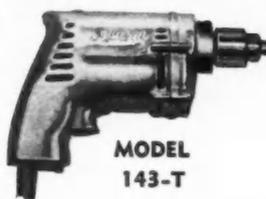


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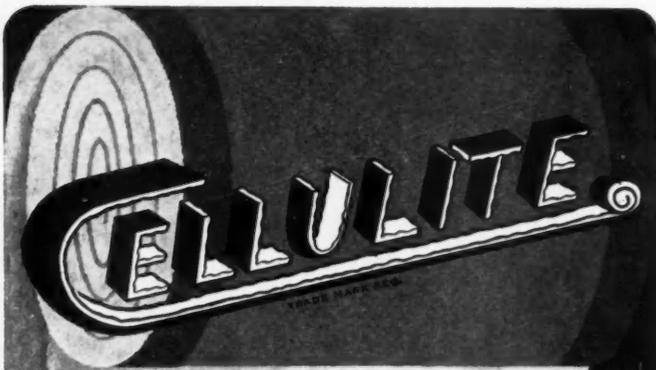
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GILMAN • CONNECTICUT

## Catalogs and HOW-TO-DO-IT INFORMATION

**228—NEW SANDING BOOKLET**—is now available to builders, painters, decorators and contractors. This has been prepared by the Sterling Tool Products Co. Entitled "Builder's Booklet," it explains the many advantages of the Sterling 1000 portable electric sander.

**229—HANDBOOK OF STAINLESS STEEL**—presenting practical information on 26 types of stainless steels has just been published by Allegheny Ludlum Steel Corp. It contains data on 26 stainless types, a 44-column finder table, corrosion resistance to 230 materials, and fabrication methods.

**230—NEW CABINET HARDWARE**—is described and illustrated in a folder released by The Stanley Works. All the items manufactured are shown with part numbers and descriptions. Also included is information concerning store displays, advertising methods used and merchandising ideas.

**231—GAS REFRIGERATOR FOLDER**—has been issued by Servel, Inc. The new 4-page folder includes a description of the operation, cabinet construction, finish, and equipment of the refrigerator. It also gives data on installation and ordering, as well as a picture and description of the five models in the new line.

**232—NEW "ELECTRICAL LIVING"**—booklet has been announced by the Westinghouse Electric Corp. The new 40-page booklet contains many practical ideas on planning and equipping kitchens, laundries and other rooms, and outlines four degrees of electrification according to the size and type of home. New ideas for lighting beauty are included.

**233—FLOOR MAINTENANCE MACHINES**—are the keynote of a new catalog put out by General Floorcraft, Inc. This book is entitled "Beautiful Floors—The Easy Way." The booklet comments on the machines manufactured by the company. Portraits and tabloid biographies of the officers and department heads are included, as well as numerous interior views of the company's modern plant.

**234—WATER COOLERS**—by Sunroc Refrigeration Co. are completely described in a new 2-color booklet just issued. This booklet contains full information about the complete postwar line of AC and DC water coolers, for business, industrial, and institutional uses. All Sunroc models are illustrated, and specifications of each are given.

**235—STORAGE PLANT INSULATION**—is the subject of a new booklet, "Armstrong's Insulations for Fruit and Vegetable Storages" released by Armstrong Cork Co. Included are design standards for cold room insulation and chart showing temperatures and insulation thicknesses.

### SERVICE COUPON—CLIP and MAIL to CHICAGO

Readers Service Department,  
American Builder,  
105 W. Adams St., Chicago 3, Ill.

(May, 1946)

Please send me additional information on the following product items, or the catalogs, listed in this department:

Numbers .....

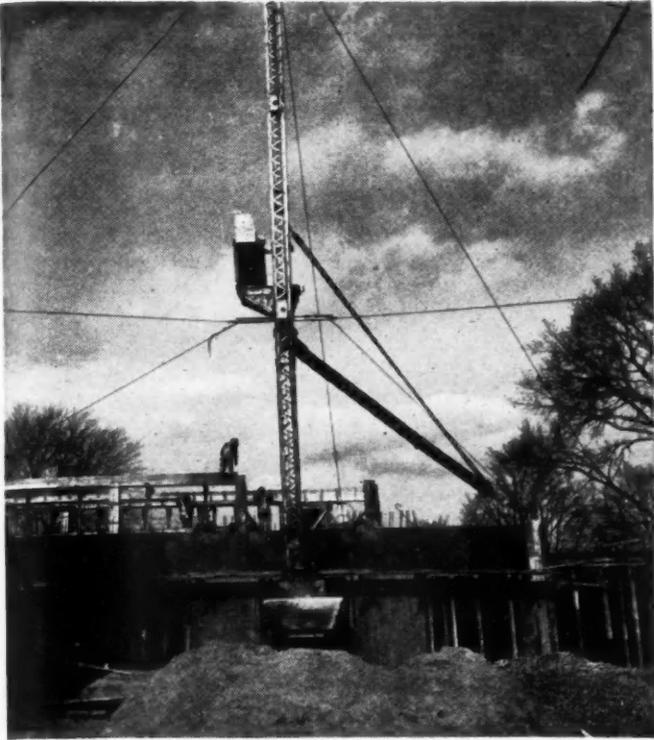
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City ..... State .....

OCCUPATION\* .....

\*Please note that occupation must be stated if full service is to be given.



✓ speed construction  
 ✓ cut expense  
 with  
**CALCIUM CHLORIDE**  
 in the mix

High early strength saves costly waiting for footings to support walls—for the placement of successive levels. Concreting schedules can be cut down so that subcontractors can move in earlier for their work.

Because forms can be pulled quicker, they can be used over again so less forms are needed on the same job.

Another saving comes from the improved flowability which allows the concrete to spout easier, and towers do not need to be constructed so high.

All these savings for contractors with quality calcium chloride concreting.

*Write for descriptive literature*

**CALCIUM CHLORIDE ASSOCIATION**

4145 Penobscot Building • Detroit 26, Michigan

*I wanted*  
**SPEED!**



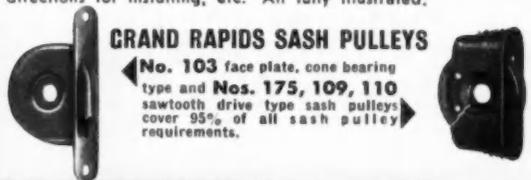
*gave me*  
**SPEED**  
**OF INSTALLATION**

The old law of supply and demand plus high wages and other costs make time a most important factor in any installation job. The Grand Rapids Invisible is a time and money saver because it is by far the easiest of all sash balances to install. If you, too, are interested in cutting off time at this end, make a date with the Grand Rapids Invisible. You'll be impressed with its durability, ease of adjustment and the fact that it is actually invisible — no exposed tubes — tapes and cables entirely eliminated. And, too, only 10 sizes meet 95% of all residential requirements.

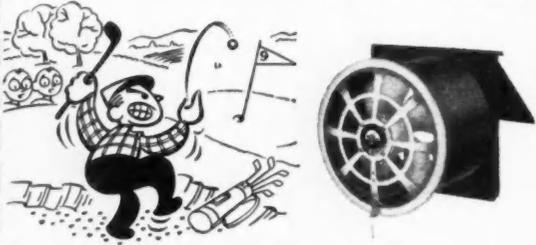
**SEND FOR SASH BALANCE CATALOG**  
 which contains complete information on sash balance sizes, directions for installing, etc. All fully illustrated.

**GRAND RAPIDS SASH PULLEYS**

◀ **No. 103** face plate, cone bearing type and **Nos. 175, 109, 110** sawtooth drive type sash pulleys cover 95% of all sash pulley requirements. ▶



**GRAND RAPIDS HARDWARE COMPANY**  
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Here's a Fresh Approach!

Ventilation is going mass market.\*  It's active all year 'round — January as well as June. 

Victron provides a complete line — models for all 3 sectors of this big market — the builder  the owner  and a sensational new model for window installation. 

Send your inquiry today. The answer will give you a fresh approach  to complete user satisfaction  big dealer profits and added prestige for architects. 

\*ask your architect

**VICTOR** PRODUCTS  
2950 Robertson Ave.



**ELECTRIC** INCORPORATED  
Cincinnati 9, Ohio

# FROM THE PAGES OF AMERICAN BUILDER 50 YEARS AGO

★ The bound volumes of American Builder contain such a wealth of interesting items covering all phases of the industry that we wish to pass them on to you.

★ **50 YEARS AGO** — The American Mineral Wool Co., Lessee of Western Mineral Wool Co., Cleveland, O., and United States Mineral Wool Co. of New York City, announces Mineral Wool for fireproofing, deadening sound, and insulation of heat and cold in residences, refrigerating and cold storage rooms; production 60,000 pounds daily. Samples and pamphlets of information sent on application.

★ \* \* \*

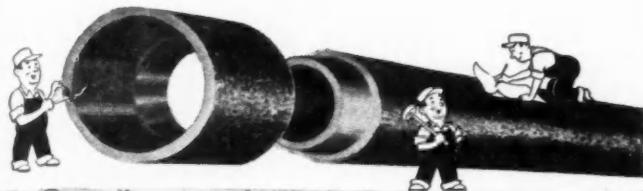
★ The Stanley Works of New Britain, Conn., is sending out an exceedingly neat little pamphlet bearing upon the front cover the picture of an armor clad warrior and a shield carrying the inscription, "Strength and Silence." Turning the pages, we find a number of illustrations, accompanied by quotations from Milton, Mephistopheles and Shakespeare, all of which relate to strength and silence. The special features of the ball bearing steel butts are set forth in a way to interest the trade, and while the pamphlet gives but a hint of the extensive variety of butts and hinges manufactured by the company, it is of such a character that it cannot fail to interest architects, builders and contractors.

★ **40 YEARS AGO** — "The Honeywell Heat Generator" is the subject of a daintily printed pamphlet of a size convenient to carry in the pocket, which is being sent out by the Honeywell Heating Specialty Company, Wabash, Ind. The generator is a device designed to be connected to the expansion pipe of a hot water heating system for the purpose of controlling the expansion of the water in it. The claim is made that it will stimulate and increase the circulation of the water to such an extent that the piping can be greatly reduced, and that it operates by mercury similar to the gas testing gauge, only that the generator is so constructed that there is a positive internal circulation of the mercury as long as the water is expanding. Of the many advantages claimed for the use of this device may be mentioned rapid circulation, quick results from firing, wide range of temperatures, low cost of installation, a minimum amount of water in circulation, and above all else a great saving in labor.

★ **25 YEARS AGO** — Certainly it is the case of the "darkest part of the day being just before the dawn" in the building situation. The dark period has outlasted a north pole night, but at last the glorious dawn is beginning to peek up over the horizon. Judging by reports coming in from various sections of the country, a real revival of building is getting under way and the summer of 1921 promises to be the liveliest in many years for the building industry.

★ \* \* \*

★ An unusually interesting series of booklets has been prepared by the Curtis Service Bureau, Clinton, Iowa, covering a wide range of topics of value to builders and carpenters—and home owners. They relate more specifically to woodworking and places throughout the house where wood is effectively employed. Stairs, windows, door frames, entrances, built-in furniture and other topics are described and illustrated.



**Sell Orangeburg**  
 — THE MODERN PIPE THAT GETS  
 BUSINESS AND MAKES PROFITS!

Carload of ORANGE-  
 BURG pipe for  
 housing project in  
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ORANGEBURG is growing in popularity by leaps and bounds, coast to coast! It's a *real* business builder and profit-maker. It's the only pipe of its kind that is backed by more than 50 years' experience and a *proved* record of customer satisfaction.

Millions of feet of ORANGEBURG are in service for house-to-sewer or septic tank connections, conductor and irrigation lines, industrial drainage . . . and, in the PERFORATED type, for septic tank filter beds, foundation, farm and muckland drainage. Mail the coupon today and see how you can make friends with ORANGEBURG PIPE!

**Remember these money-making advantages:**

- Light weight, long lengths, easy to handle and install.
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- No root growth; no infiltration.
- Can be installed in wet trench —tight joints readily made in or under water.
- Sewer lines ready for testing at once.
- Does not break or crack easily; non-metallic—lasts a lifetime.
- Non-rigid, withstands soil settlement.
- Advertised in leading home and farm magazines.
- Performance proved by 50-year record of underground service.

**ORANGEBURG**

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WITH 50 YEARS EXPERIENCE IN THE MANUFACTURE OF NON-METALLIC CONDUIT AND PIPE, ORANGEBURG SERVES THE POWER AND LIGHT, TELEPHONE, GENERAL CONSTRUCTION, CHEMICAL, PETROLEUM, PLUMBING AND BUILDING SUPPLY FIELDS WITH ELECTRICAL FIBRE CONDUIT . . . ELECTRICAL UNDERFLOOR DUCT SYSTEMS . . . AND FIBRE PIPE FOR NON-PRESSURE USES.

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**KWIK-MIX**  
**3 1/2-S**  
**SIDE TILTER**

Drum Tilts  
 To Either Side,  
 Automatically  
 Returns to  
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 After Discharge

**THE IDEAL UTILITY MIXER**



- Trails Fast; Balanced Right; Low
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- High Strength Steel; Thorough
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**OTHER KWIK-MIX MIXERS**

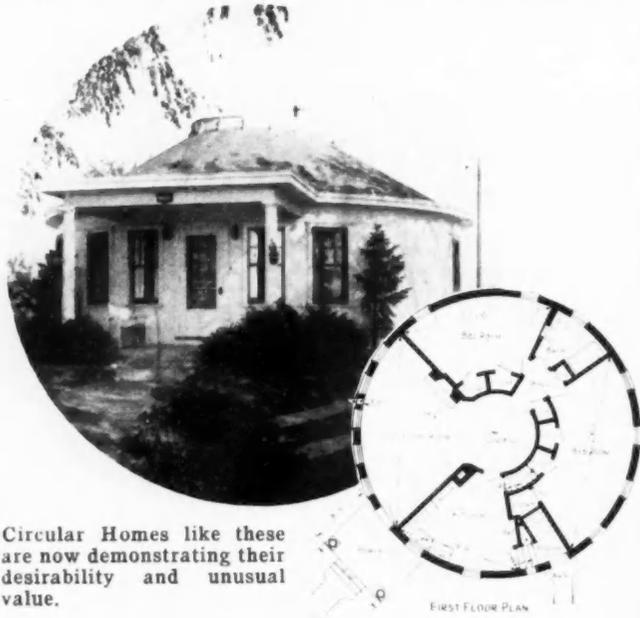
6-5, 11-5 AND 16-5 KWIK-MIX DANDIE MIXERS • 6-P PLASTER-MORTAR MIXERS • NO. 10 AND NO. 14 BITUMINOUS MIXERS



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Circular Homes like these are now demonstrating their desirability and unusual value.

Circular Homes are the development through years of study, research and experiment of one who has spent 35 years in the building industry. Circular Home plans for Frame, Concrete Block and Brick Construction are now available through our exclusive territory offer.

### 10 PRINCIPAL ADVANTAGES OF CIRCULAR HOMES

1. Contain more area than conventional homes having same outside dimensions. (A minimum of 27% more floor space).
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DO YOU KNOW OF ANYTHING ELSE THAT HAS BEEN DONE IN THE PAST CENTURY TO MAKE A BETTER HOME COST LESS?

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Clear thinking men of vision and ambition will be quick to investigate this opportunity. Complete plans may be obtained under lease for any of the many types of Circular Homes which include bungalows, flats, duplexes, etc. Circular Homes, Inc., leases to contractors for a given territory the exclusive right to the use of these plans in the building of Circular Homes for the term of the copyright, (subject to renewal). Circular Homes, Inc. leases to an individual, wishing to build but one home, in a specified locality, a set of plans of his selection for the period of one year.

All copies of plans are the property of Circular Homes, Inc. and may not be sold, reproduced or used for any unauthorized purpose, all rights reserved.

For further particulars, charges, etc., write to

## CIRCULAR HOMES, INC.

2048 Rapids Drive,

Racine, Wisconsin

## Bank Installs Home Planners Information Center



MANUFACTURERS' literature is made available here.

THE photographs above and below were taken in the City National Bank, Kansas City, Mo., where a home planners' information center has been installed in cooperation with the City Bond & Mortgage Co. The exhibit of manufacturers' literature, home plans, photographs of modern houses, and general financing and other information pertinent to building is dramatized by an attractive miniature house front built at the mezzanine level, and plainly visible from the banking floor. No attempt is made to sign people up for mortgage loans, nor is any other sales effort made. The information center is strictly a public service. Set up with advice and counsel from *American Builder* staff members, the exhibit has proved popular. About 500 Kansas Citians visited the center during the first two weeks it was open.



VIEW of bank floor and home planners' display on balcony.

When conditions are

STEAM

SWEAT

or SOAK



### USE WOLMANIZED LUMBER\*

Why? Because this lumber, impregnated with Wolman Salts\* preservative by pressure treatment, will give you more years of service in places where rot-producing moisture is present.

It is recommended for use in structures exposed to:

- 1 Moisture in artificially humidified buildings.
- 2 Steam and vapor from industrial processes.
- 3 Condensed water vapor in walls, floors and ceilings of refrigerated buildings.
- 4 Soil moisture and rainwater, held in joints, etc., of outdoor structures.
- 5 Moisture condensed by concrete or masonry.

When you buy treated lumber, remember to specify *pressure-treated* . . . it's the only dependable kind!



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decades

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"know how"

Throughout the 80 years of America's greatest progress—in war and in peace—Bilt-Well has played a major part in a most important industry.

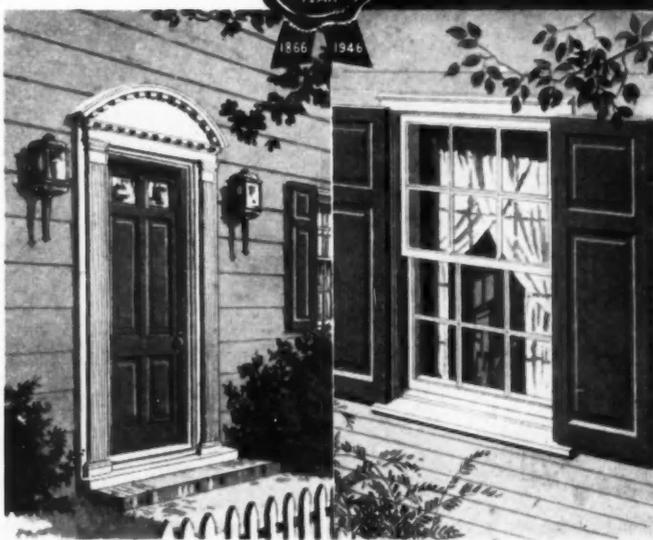
Today, as we stand on the threshold of a new era in building, we glance back at our woodworking accomplishments of yesterday; then stride forward with determination to continue production of the best in woodwork.

## Carr, Adams & Collier Co.

DUBUQUE, IOWA



**BILT WELL**  
**WOOD WORK**  
REG. U.S. PAT. OFF.



**Structural,  
Reinforcing or  
other Blding Steel  
Shipped from Stock**

Write for Stock List—  
your guide to over 10,000  
different kinds, shapes and  
sizes of steel for quick  
shipment from ten plants.

Joseph T. Ryerson & Son, Inc. Plants at Chicago, Milwaukee, St. Louis,  
Cincinnati, Detroit, Cleveland, Buffalo, Boston, Philadelphia, Jersey City.

**RYERSON**

**Property Owners Foundation Meets**

AT a meeting of trustees of the National Real Estate Foundation held in Washington, Apr. 1, representatives from 33 states voted to change the name of the organization to National Home and Property Owners Foundation.

The trustees adopted a nine-point program of proposed activities embracing a wide field, and including establishment of a department of legislative information and action, and inauguration of a publicity program that will use newspapers, magazines, radio, and a house organ. Proposed service to home and property owner members includes the furnishing of legislative information and support for equitable readjustment of taxation on real property ownership.

The declaration of policy consists of 21 points, the real basis of which is open advocacy of private ownership of all family dwellings, free of institutional, governmental or paternalistic influences. In this connection, policy will be opposition to federal or other public expenditures to construct and operate housing, and in favor of direct financial aid through local public welfare departments when and if public assistance is needed for those unable to pay rent for adequate housing. The Foundation advocates and supports efforts to encourage veterans to become home owners, and opposes the Wagner-Ellender-Taft bill. Pending the removal of all price ceilings, the Foundation recommends equitable increases in prices of building materials and equitable rent adjustments to bring real property income in parity with other income. The Foundation also advocates and supports efforts to secure modernization and reasonable standards of local building regulations. Congress will be requested to adopt legislation requiring all federal agencies and officials of such agencies to make known the source, and make available to the public all statistical information contained in public statements or to which public statements refer. Price ceilings on land and existing buildings are opposed.

The next meeting of the trustees will be held in the fall, and tentative plans were made for a National Home Founders dinner to be held later in the year.

1818  
1946

**HOPE'S**

*The Name  
Guarantees*



CORNER WINDOWS are featured in a large proportion of current plans, especially for small homes when the extra benefit of more unbroken interior wall space is particularly desirable.

The builder who uses HOPE'S Steel Casements assures his client the structural rigidity and accurate fitting that gives permanent satisfaction with their operation and weather tightness.

*Residence at Elyria, Ohio,  
Kenneth Heidrich, State College, Pa.  
Architect*

**HOPE'S WINDOWS, INC., Jamestown, N. Y.**

THE FINEST BUILDINGS THROUGHOUT THE WORLD ARE FITTED WITH HOPE'S WINDOWS

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YOUR WATER PROBLEMS CAN BE SOLVED BY INSIDE APPLICATION, AGAINST PRESSURE



THIS IS A WET BASEMENT PROBLEM TO THE BUILDER AND HOMEOWNER

A. WATERPLUG, a quick-set hydraulic compound, seals streams of active water and seepage from entering through wall. Set begins in from 3 to 5 minutes after mixing water is added.

Write for circulars descriptive, in photographic detail, of how to waterproof a basement, how to seal the surface of an old brick building which leaks, how to protect the exterior surfaces of manufactured block, brick, concrete or any type masonry with THOROSEAL.

Request your Lumber or Builders' Supply Dealer in your home city to order for you.

Standard Dry Wall Products, Inc.

BOX X

NEW EAGLE, PENNA.

## Majestic UNDERGROUND GARBAGE RECEIVER



NO MORE OF THIS



Solves the Garbage Problem

This foolproof, "built-in" solution to the garbage problem wins lasting approval from owners or occupants of any home or apartment. Rugged formed steel construction makes it more durable and breakproof than ever. Top and body carry a 10-year guarantee against breaking or rusting out. You can install a Majestic Underground Garbage Receiver as close to the service entrance as you wish—the neat, close-fitting, foot-operated lid seals odors inside, keeps dogs, rats, flies, freezing cold and fermenting heat outside. Proved by years of satisfaction among thousands of users! Write!

And it features the popular Majestic Formed Steel Construction

Another Majestic item featuring the rugged formed steel construction that packed so much extra strength and durability into products built by Majestic for vital war needs!

The Majestic Company  
1075 Erie St., Huntington, Ind.

Nationally Known and Advertised for 40 Years



### WHEN IS A SQUARE MORE THAN A SQUARE?

Four bundles of Red Cedar Shingles are known as a "square" because these four bundles, when laid at standard roof weather exposure, will cover 100 square feet of roof area.

When shingles are Double-Coursed on sidewalls, 4 bundles will cover more than 100 sq. ft., because of the wider exposures permissible. (Thus, less than 3 1/2 bundles of 16-inch shingles, laid Double-Coursed 12 in. to the weather as recommended, will cover 100 sq. ft. Slightly more than 3 bundles of 18-inch shingles are required when Double-Coursed 14 in. to the weather.)

Because fewer shingles are needed is one reason for Double-Coursing's economy. Another reason is that half of the shingles used—those which go on the inner and completely concealed course—may be economical No. 2, 3 or 4 grades, the outer course usually consisting of pre-stained or untreated No. 1 grade shingles.

Thus fewer and less costly shingles account for the remarkable economy of a Double-Coursed sidewall. Double-Coursing is costly in appearance, only!

Send for free Double-Coursing blueprint. Address . . .

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METROPOLITAN BUILDING, VANCOUVER, B. C., CANADA



# Red Cedar SHINGLES

SOLD BY RETAIL LUMBER DEALERS



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New Bondex Color Chart Gives 28 Suggestions for Stucco, Brick, Masonry, Cement Block

Here's a mine of information for anyone building a brick or masonry house—the latest color combinations hot off the press. Remember Bondex Waterproof Cement Paint not only beautifies—it also waterproofs and preserves. Clip the coupon and send it in now.



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Please send me your new Bondex Color Chart.

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## SAVE time, weight, costs USE MIRACLE!

MIRACLE is a quick-setting, war-tested, "on-the-job" adhesive requiring no heat or pressure to effect a lasting, waterproof, flexible bond. With it you can install metal, glass, tile, cork, plastics and wood without nails, screws, bolts or other disfiguring fasteners.

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For other uses and full information write to Miracle Adhesives Corporation, 852 Clinton Ave., Newark 8, N. J.

# Miracle ADHESIVES

(Continued from page 128)

- Structural Frameworks.* Morris & Carpenter. John Wiley & Sons, Inc. 272 pp.
- Rafter Tables.\** William R. Walker. 64 pages of tables. 3x5½. \$3.00.
- Stair Builder's Guide.\** Morris Williams, 259 pp. 358 illus. 6x9. \$3.00.
- Stair Building.\** Gilbert Townsend. American Technical Society. 200 pp. 195 illus. 6x9. \$2.00.
- Standard Plumbing Details.* Louis J. Day. John Wiley & Sons, Inc. 119 plates. 9¼x11½. \$6.00.
- Steel Square.\** Gilbert Townsend. American Technical Society. 96 pp. 101 illus. 6x9. \$1.25.
- Poulsen Method of Roof Framing.\** Harry O. Poulsen. 90 pp. 54 tables. 9x6. \$1.75.
- A Practical Course in Roof Framing.\** Richard M. Van Gaasbeek. 270 pp. 116 illus. 5x9. \$2.00.
- Simplified Design of Roof Trusses for Architects and Builders.\** Harry Parker. John Wiley & Sons, Inc. 195 pp. 5x7¾. \$2.75.
- Simplified Roof Framing.\** Wilson & Werner. McGraw-Hill Book Co. 125 pp. 115 illus. 5x8. \$1.40.
- Building Construction Estimating.\** George H. Cooper. McGraw-Hill Book Co., Inc. 282 pp. 5¼x8¾. 161 illus. \$3.00.
- The Building Estimator's Reference Book.\** Frank R. Walker. 1,678 pp. Illus. Index. 4½x6½. \$10.00.
- Construction Estimates and Costs.\** Harry E. Pulver. McGraw-Hill Book Co. 660 pp. 6x9. Illus. \$5.00.
- Estimating Building Costs.\** Charles F. Dingman. McGraw-Hill Book Co. 401 pp. 27 illus. 227 tables. 4¼x7. \$3.00.
- Estimating Construction Costs.\** G. Underwood. McGraw-Hill Book Co. 620 pp. 6x9. 36 illus. \$6.00.
- How to Estimate for the Building Trades.\** Townsend-Dalzell-McKinney. American Technical Society. 629 pp. 310 illus. 44 tables. \$4.75.
- Practical Estimating Sheets.\** 100 sheets on a pad. 8½x11. \$7.50.
- Business Methods in the Building Field.* Schobinger and Lackey. McGraw-Hill Book Co. 349 pp. 6x9. \$3.50.
- Helps to Successful Contracting.* Harry O. Locher. McGraw-Hill Book Co. 222 pp. 5½x8. \$2.00.

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Horizontal joints were emphasized in this house in Joliet, Ill., by making them concave with a jointing tool. Vertical joints were cut flush and tight. The walls were finished with portland cement paint.

Builders who use concrete for walls, sub-floors, foundations and roofs of new homes, industrial, commercial and farm buildings will help conserve other building materials which are in limited supply and permit a much larger volume of urgently needed construction to get under way at an early date.

You will help your business by advertising in your community the availability of concrete materials for firesafe,

economical construction.

And remember, that whatever you build of concrete, whether a new home, a garage, a factory addition or a driveway, you assure your customer low maintenance expense and *low annual cost* construction—the true measure of building economy.

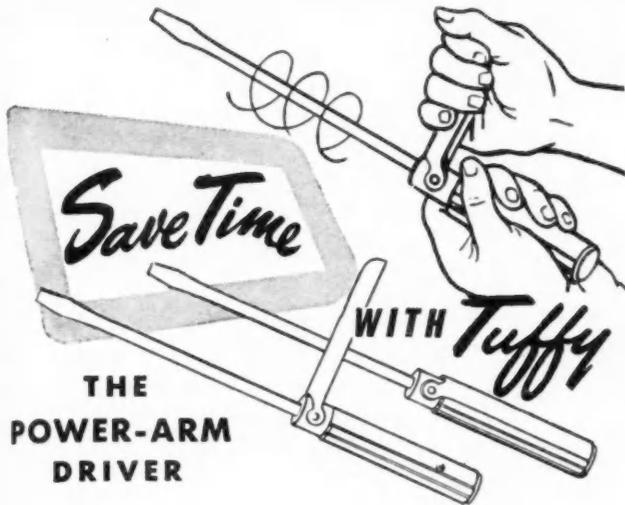
Write for "Concrete Masonry For Better Buildings," containing many practical suggestions for builders. Free in United States and Canada.

## PORTLAND CEMENT ASSOCIATION

Dept. 5-3, 33 W. Grand Ave., Chicago 10, Ill.

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

★ BUY U. S. SAVINGS BONDS ★



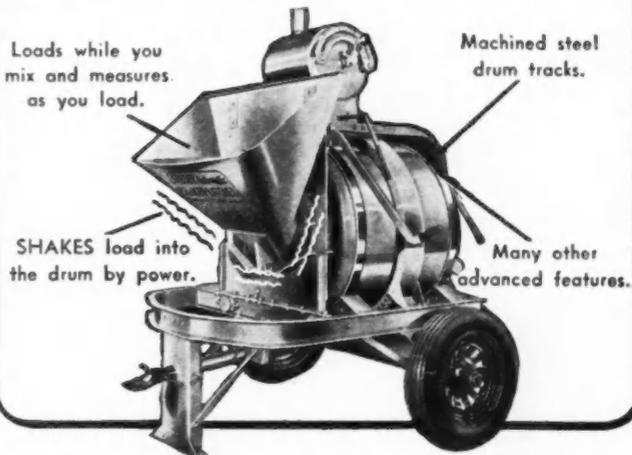
**THE POWER-ARM DRIVER**

Loosen rusted screws fast and easy. Tighten screws that "extra quarter-turn." Use as regular driver with power-arm folded.

Maintenance men, mechanics, engineers, assembly line operators, and others find Tuffy the handiest heavy-duty tool for removing rusted screws, and for driving screws that must stay put. Power-arm does all the hard work . . . allows full hand and body pressure. Tuffy has a sturdy aluminum handle, a forged steel blade. Available in 5" x 1/4", 6" x 5/16", and 8" x 3/8" blades. Write for name of your distributor.

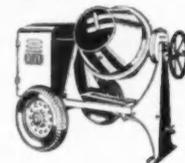
**SWALLOW AIRPLANE CO., INC.**  
905 LINCOLN AVENUE  
WICHITA 1, KANSAS

**Mix up to 50 yards a day with JAEGER 3 1/2S "AUTO LOADER"**



**Automatic Shaker-Batcher loads QUICK-AS-A-FLASH**

Loads and measures while you mix, then shakes material into drum by power. Fast as a power loader. Mixes more batches a day. Ask today for our latest Catalog M-5.



3 1/2S Tilter; Non-Tilts up to 56S size

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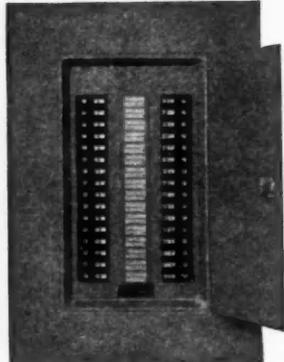
This book gives you a thorough, practical course in estimating—all the required material, without cumbersome detail, organized into a complete orderly working plan for home study.

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**Building Industry Slowed Down by Bottlenecks**

**FRED C. TRUMP**, member of the NAHB and one of the nation's largest home builders, says that not even one-third of Wilson Wyatt's 1946-1947 program of 2,700,000 homes for veterans can possibly be accomplished unless certain existing bottlenecks are quickly broken.

Mr. Trump has recently bought and is now buying vast quantities of building supplies for the largest home building operation actually under construction in the East—400 dwelling units at Cropsy Avenue and 20th Avenue, Brooklyn, with 600 additional units scheduled before the first of the year. When it comes to buying building materials and equipment, Fred C. Trump has the reputation of being able to find "needles in haystacks" but he is pessimistic over present conditions which he declares are the most critical ever faced by the home building industry.

Mr. Trump claims that a recent shortage of bricks held up fifty houses for three weeks. Brick, rough lumber and trim are now coming through to his job in fairly good quantities. "The most acute supply shortages that now exist," he says, "are plumbing supplies, soil pipes, water boilers, B.X. cable and nails.

"Bathtubs, radiators and water boilers are practically out of circulation, non-existent at the moment.

"Construction was recently stopped for ten days on another group of houses while my purchasing agents scoured the East for B.X. cable. Because the cable must be installed before they can start work, lathers, plasterers, trimmers and painters all remained idle.

"A carload of nails ordered has been delayed for two months. I ran out of nails and now have several men with cars out hunting nails by the keg, by the pound and by the handful in New York, New Jersey and Connecticut. It is costly delays like this that endanger the Wyatt program.

"I am informed that manufacturers are not producing these hard-to-find items because they cannot do so at a profit under existing OPA price ceilings. While awaiting a 10 per cent

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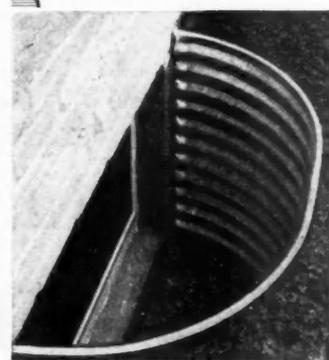
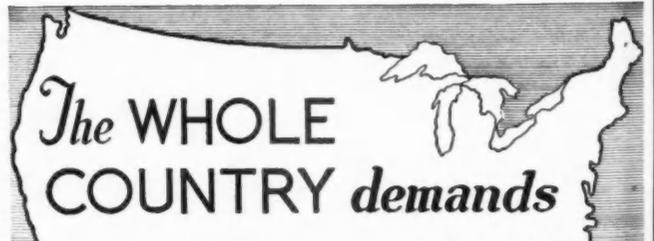
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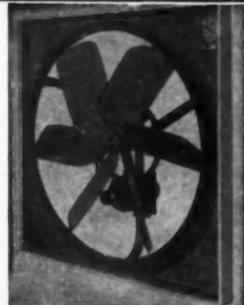
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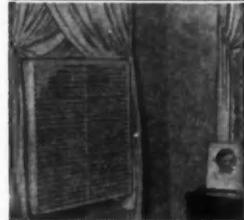
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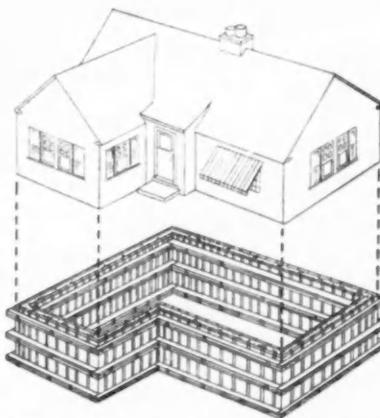
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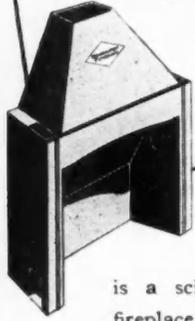


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FASTEST THING IN FASTENING

higher price ceiling, the manufacturers of nails are making rolls of fence wire on which a higher price ceiling permits a fair profit.

"Personally, I do not see how any act of Congress can force a manufacturer to produce items on which he cannot make a profit. And no housing program can succeed without plumbing, soil pipes, radiators, water boilers, B.X. cable, nails and all the important components that go to make up a house. If a few more months are consumed in negotiations between the OPA and building supply manufacturers on price ceilings, then 1946 will be gone before Mr. Wyatt's program is even started.

"And then there is the all-important factor of labor with various issues that should be settled with the unions before the Housing Expediter launches his new era of super-production. Several building trades now have a 30-hour work week. This means that one rainy day cuts the work week down to 24 hours; two rainy days to 18 hours. With a scarcity of skilled labor, you can't get 'all out' production from those hours.

"We should all take a lesson from the friendly co-operation that existed during the war among government, management and labor. War housing was then produced quickly and in volume as a sideline to munitions while the great bulk of building materials and supplies was being shipped abroad. I know I built 2,000 units in about 24 months without one-tenth of the troubles I am having now.

"During the present housing emergency when a lot of homes must be built for veterans, I suggest that all building trades, which have full employment, increase their work week to at least 40 hours, this to last until the crisis is over."

\* \* \*

### Personnel Changes at Stanley Works

ANNOUNCEMENT of the retirement of Clarence F. Bennett, chairman of the board of directors of the Stanley Works, and of Joseph E. Stone, vice president in charge of sales, has been made by Richard E. Pritchard, president.

At the same time, Mr. Pritchard announced the promotion of John C. Cairns to executive vice president of the corporation, and of Rodman W. Chamberlain to vice president and general sales manager, succeeding Mr. Stone.

Mr. Pritchard also announced the appointment of George P. Merrill of Los Angeles, Cal., to the position vacated by Mr. Chamberlain.

\* \* \*

### Solvay Opens New Southwestern Branch

SOLVAY Sales Corporation has announced the establishment of a new office at No. 847 M & M Building, Houston, Tex. The new office, which will cover the states of Texas, New Mexico and Arizona, will be in charge of Col. S. O. Taylor.

Col. Taylor is a veteran of both World War I and World War II, having recently returned to Solvay after serving three years as executive officer at Patterson Field, Dayton, O., as a member of the Air Corps. Prior to his latest entry in the Army, Col. Taylor was employed for a period of eleven years with Solvay Sales Corporation's St. Louis branch.



"The letter 'S' stamped on the back of this wheelbarrow tells me it's a STERLING wheelbarrow. That's my assurance of getting a really high-grade barrow, the kind that can take the punishment of hard everyday wheeling, and come back for more. No wonder buyers have stuck to Sterling for nearly 40 years."

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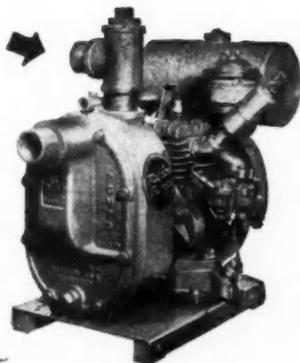
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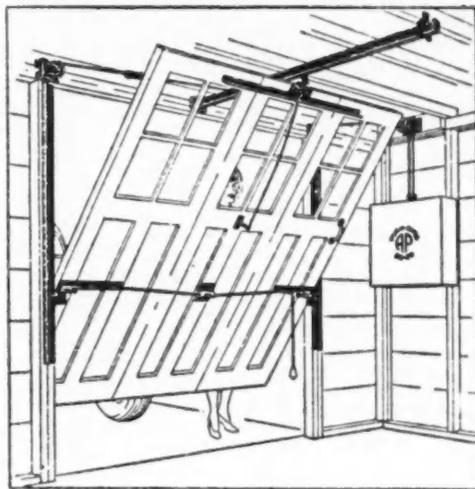
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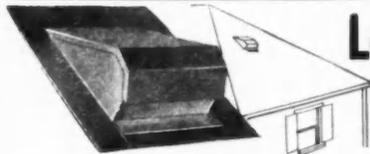


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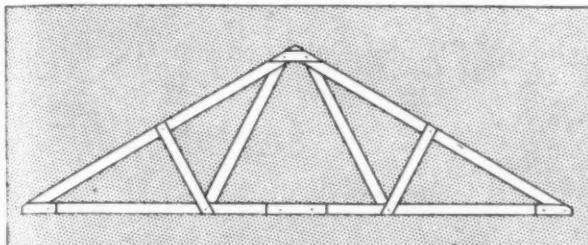
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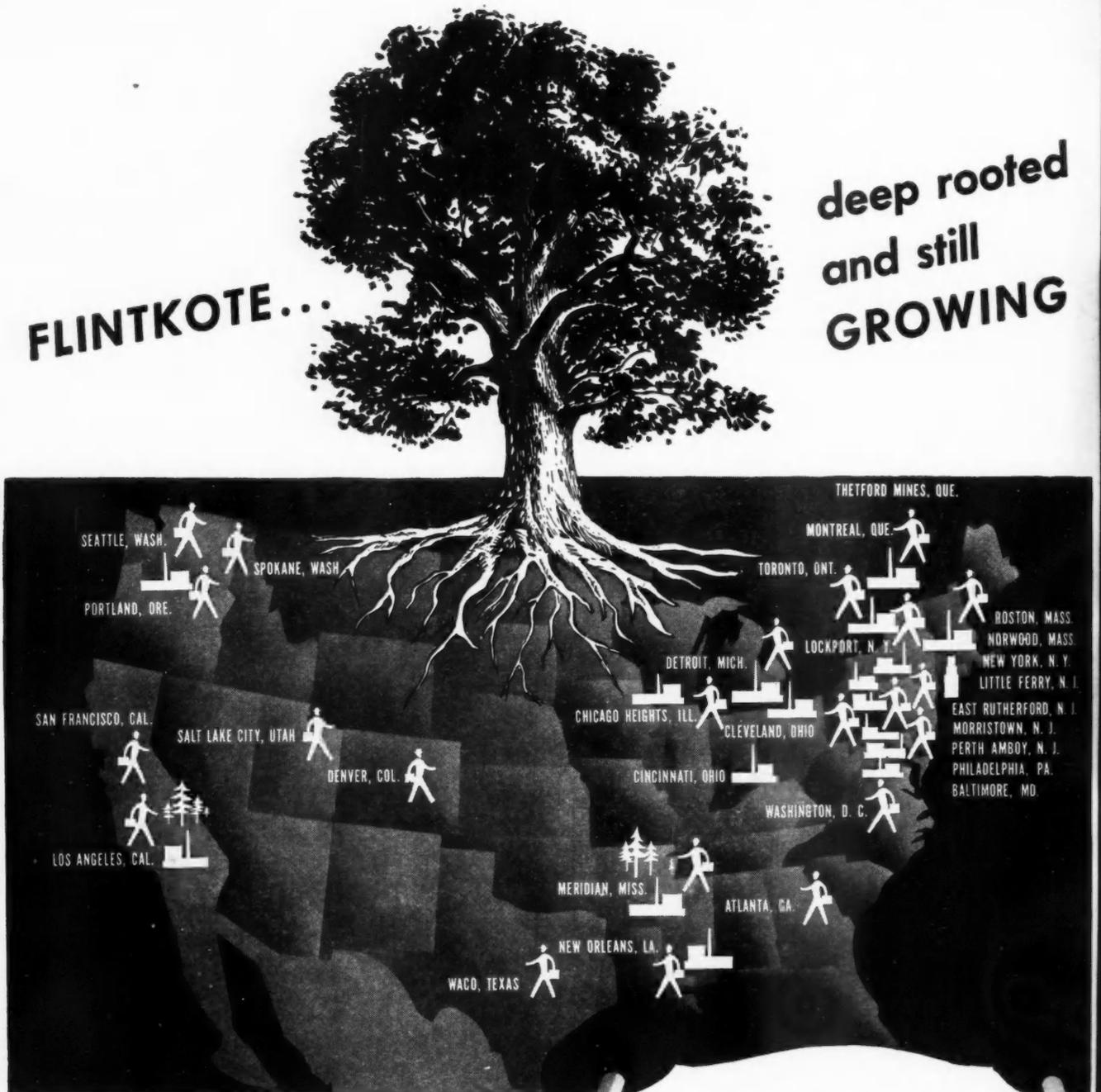
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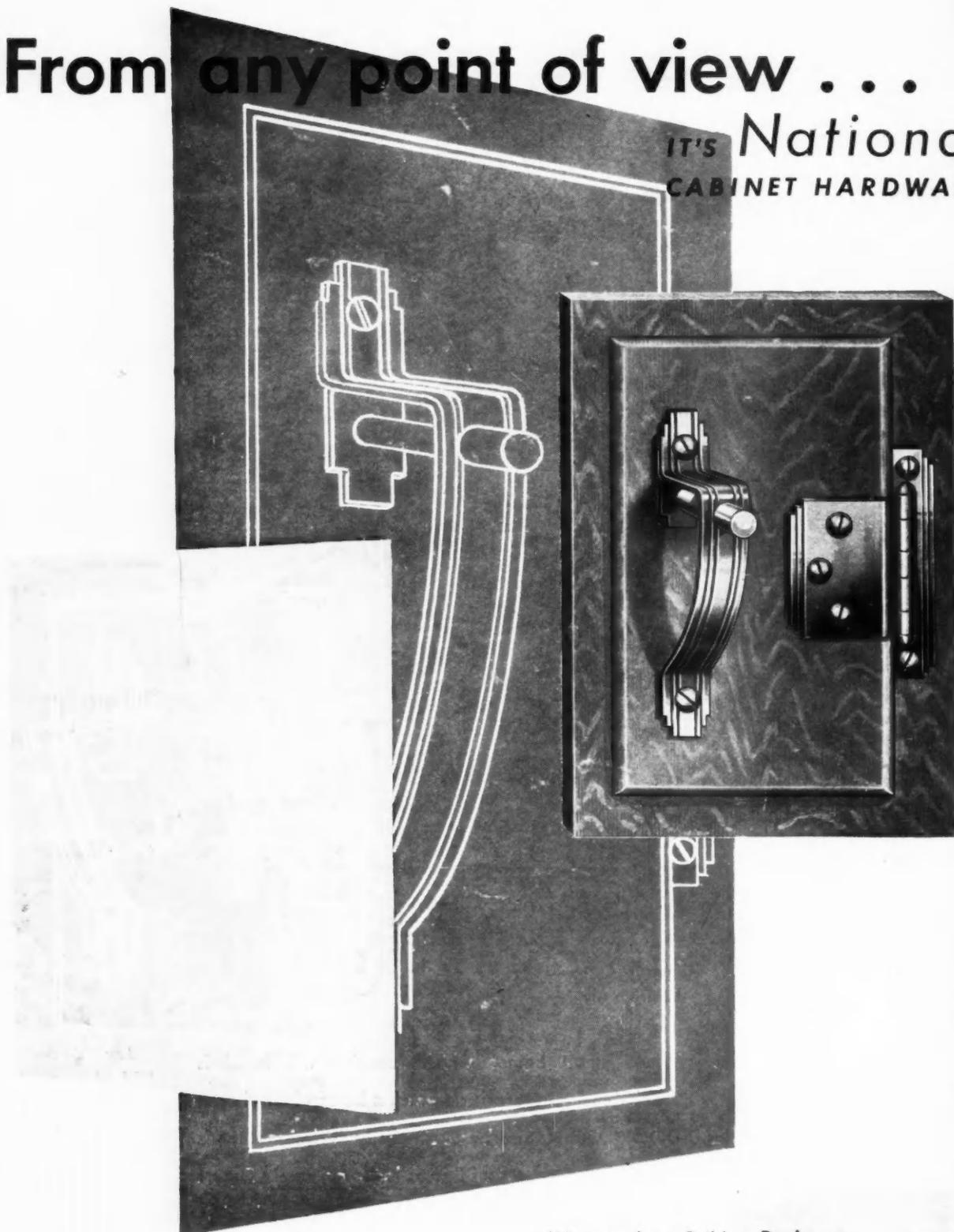
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