MAY, 1943 FRICE 5 CFNT 30 CENTS IN CANADA

ROIT

WORLD'S GREATEST BUILDING PAPER

ry Wills; see fleer plan in issu

WAR-TO-PEACE" PLAN

NOLC

It is nodelserves tly in operly now n.

35

ing

Plan egs in extra Install equire meets

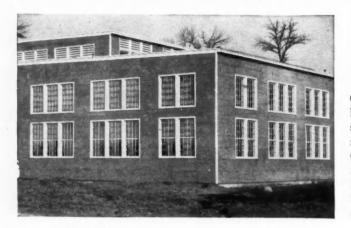
RLI

BUILDERS SPEAK On POST-WAR ★ Home ★ Building

CONTRACTOR OF THE STATE

Builders look to Celotex

FOR ALL THAT'S NEWEST IN BUILDING MATERIALS!





CEMESTO Introduces A Completely New Method of Home Construction

Cemesto is another multiplefunction Celotex Product, combining insulation, structural strength, exterior and interior finish. More than \$20,000,000 worth of Cemesto homes now shelter thousands of war workers.

Multiple-Function Products Like

CELD-SIDING Meet Today's Critical Material Situation!

CELO-SIDING is a new multiple-function product which combines siding, sheathing, and insulation. It is applied direct to studding, saving time, labor, and critical lumber, and is ideal for farm buildings, shops, warehouses, and small factories. Crushed mineral granules, pressed into the extra asphalt coating of the weather surface, provide a permanent exterior finish, in brown, buff, or green. Sizes: $\frac{7}{8}$ " thick and 2' x 8' (T&G on long edges) or 4' x 8', 9', or 10' (square edges only), for vertical or horizontal application.

CELOTEX ROCK WOOL Saves Fuel,

Adds Year-'round Comfort

Celotex Rock Wool, in batts or loose form, provides insulation of proved efficiency at moderate cost. Available right now in any quantity, it enables you to offer home owners important fuel savings and year-'round comfort.



Amer



CELOTEX SHINGLES Come in Many Styles, Meet Many Needs

Celotex Triple-Sealed Shingles and Roll Roofing come in a complete range of styles, colors, and weights to meet every requirement. The famous triple-sealed manufacturing process insures extra wear without extra cost.

WHITE ROCK GYPSUM WALL BOARD Finishes Extra Rooms...Fast!

White Rock Gypsum Wall Board is an ideal material for making comfortable living quarters out of waste attic space. It handles easily, goes up fast, and can be papered or painted as soon as walls are completed.



Di cie po po

These are only a few of many Celotex Products now available at "BUILDING MATERIAL HEADQUARTERS"



ROCK WOOL • GYPSUM WALL BOARD LATH • PLASTER

THE CELOTEX CORPORATION . CHICAGO

Published monthly by Simmons-Boardman Publishing Corporation, 105 W. Adams St., Chicago, Ill. Subscription price, United States, Possessions, and Canada 1 year \$2.00; 2 years, \$3.00; foreign countries: 1 year, \$4.00; 2 years, \$7.00. Single copies, 25 cents. Entered as second-class matter Oct. 11, 1930, at the Post Office at Chicago, Illinois, under the act of March 3, 1.579, with additional entry as second-class matter at Mount Morris. I .::sois. Address communications to 105 W. Adams St., Chicago, Ill.

NONARCH

F OUR engineers had chosen to design a machine with a stationary column in the back and a long swinging arm, our saw blade would necessarily cut into the material at a point in the guide fence wherever the CUTTING LINE OF ANGLE AND GUIDE FENCE INTERSECTS — A DIFFERENT POINT FOR EVERY ANGLE. Note diagram (A) and the five points representing any five different angle cuts.

3

Based on half a century of building woodworking machinery, our engineers instead designed a machine so that the saw blade would always enter the material at the SAME POINT IN THE TABLE regardless of cross cut angle, vertical, horizontal or compound miter. Note diagram (B) and the ONE-POINT CUTTING regardless of the angle of cut.

Woodworkers everywhere consider UNI-POINT a revolutionary advance in machine design. Why? Well, look at diagram (A) again! Suppose you were in production angle (5) and changed to angle (2). Note the distance between the two points at the guide fence. Because the second cut would be cutting across the table at some other point, it would be necessary to change the stops of gauges and reset the work accordingly.

Now look at diagram (B) and it will be observed that with ONE POINT CUTTING THE UNI-POINT WAY, such adjustments, changes and re-setting of work never become necessary.

This is only one example of the many multiple motions eliminated many times each day, every day, by Uni-Point simplicity.

Naturally, if an operator spends 20% or 30% of each hour making changes, machine adjustments, waiting for saw blade to stop, and resetting work, he will do only 70% or 80% of the production, which is another way of saying his work requires 80 or 90 minute-hours to do 60-minute jobs.

Yes, Uni-Point guarantees greater production per man hour in more ways than one!

*Uni-Point Cutting means the saw blade always enters the material at the same point in the table, regardless of whether saw is set vertical, horizontal, or compound miter cross cut angle.

Write for Catalogue No. 60

We also manufacture "modern design" Saw Benches, Band Saws, Jointers, Planers, Lathes, Shapers, Mortisers, Sanders, Swing Saws, as well as a complete line of Saw Mill Machinery.



n!

con.ect to ideal ories. coatinish, G on ertical

1

D

AGO

ar \$2.00;

IDE FENC

a

UIDE FENCE

a

DIAGRAM A-The Old, Slow, Costly Way, Saw enters work at different point

COLUM

DIAGRAM B-The New, UNI-POINT, Emclent Way. Saw always enters work at same point regardless of angle. Saves 20% or more

ILL POST-WAR HOME BUILDING PRE-FAB?

SEND TODAY FOR THESE

A MILINE

USEFUL

BOOKS

better ask her! She's the answer to what post-war homes will be, because she says what's what about more than 75 per cent of everything Mr. and Mrs. buy. And she's nearer 100 per cent of who's who in saying what kind of a home she and friend husband will build or buy . . . Do you think she'll want a home designed for pre-fab mass production? She didn't before, and war hasn't changed her. We think she'll want the plan which you and the architect work out with her and her husband, built with materials supplied by local lumber dealers ... which means you'll be back at your regular trade of building individual homes when the Victory parades are over... Let us help you get ready for that brighter day... with construction details in your language, with stress tables for load calculations, with simplified specifications, with painting and finishing formulas and with 15 well planned small home designs by qualified architects. Also included are the how and why of soft-textured Arkansas Soft Pine framing lumber and Satin-like Interior Trim, which have served to build better homes for more than 40 years. Write for this useful information today, enclosing 10 cents to cover postage.

> **A R K A N S A S** BUREAU SOF BOYLE BUILDING * LITTLE ROCK, ARKANSAS



NEW TRENDS IN POSTWAR HOMES CALL FOR MORE SUN-FLOODED ROOMS



MAY'S POSTWAR IDEA FOR BUILDERS

Appropriately called "The Snuggery", this little four-room house does a big job of homemaking. More actual usefulness is tucked into its 846 square feet of floor space than will be found in most small houses. Even on dull days its large windows will work lighting wonders.



This bright and cheerful living room is an example of "what's coming". Light bursts in from three sides, and large Fenestra Package Windows admit floods of sunshine throughout this lovely little home. And besides, these better metal windows will provide easier opening, better ventilation, safer washing, better screens, low-cost storm sash, and afford better three-way savings, too . . . in first cost, installation cost and maintenance cost.

New window designs ... to meet the postwar needs of all types of buildings ... are now being developed by Fenestra's Research Engineers. Any window suggestions you may have will be gladly received.

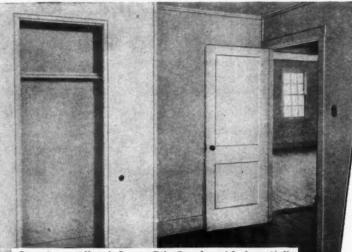
DETROIT STEEL PRODUCTS COMPANY Now Exclusively Engaged in War Goods Manufacture Dept. AB-5 · 2260 East Grand Blvd. · Detroit, Mich. Pacific Coast Plant at Oakland, California

Fenestra package windows

ill be, r. and what home anged ad her which rades action blified small hy of which r this stage.

A U SAS

Proof from Leading Project Builders is pouring in!



One-piece walls of Strong-Bilt Panels, with beautifully pebbled surface, efficient insulation, and lower maintenance expense add important dollar value to the finished job.

R^{EPORTS} of performance on-the-job! The experi-ence of Bennett Lumber Corporation is typical of many. Sections for 250 war housing units built in the company's plant were shipped over 400 miles by rail and assembled at the site near a great war industry center.

Gaining wide popularity before the war, quickly adopted for extensive wartime use, Strong-Bilt Panels already are being figured into plans for eagerlyawaited post-war homes. For informative booklets covering use in both conventional and prefabricated construction, write The Upson Co., Lockport, N. Y.



LUMBER

MANUFACTURERS OF

dy-Cas Homes and Garages NORTH TONAWANDA, N. Y.

March 16, 1943

MILL W

she you CO] do

on an

the As

tri ha

sa al

ta

Ittention ckport, N.Y. Gentlemen

FRR/RS

Inagenach as we are now finishing up our Contract with the Pederal Public Housing Authority for Prefabricated Houses on which we used UFSON STRONG-BLIF FARES for the inside lining, we feel it is only fair to you to let you know how very satisfactorily your product has worked out for us.

In the first place, our experience has proven that the application of Upson Panels for Prefabricated Houses is simple, economical and easy. We, of course, used your floating fastemers to eliminate face nailing. The full wall panels eliminated costly joints and panel strips.

Due to the fact that you furnished us with panels cut to exact size, our costs, both for the panels themselves and the application of these, were held to a minimum. We want to than you for the work ful service you have given us right from the beginning. Your for ful service you have given us right from the beginning. Your for these panels to these exact sizes, and your promptiess in making undoubledly saved us considerable grief as well as money.

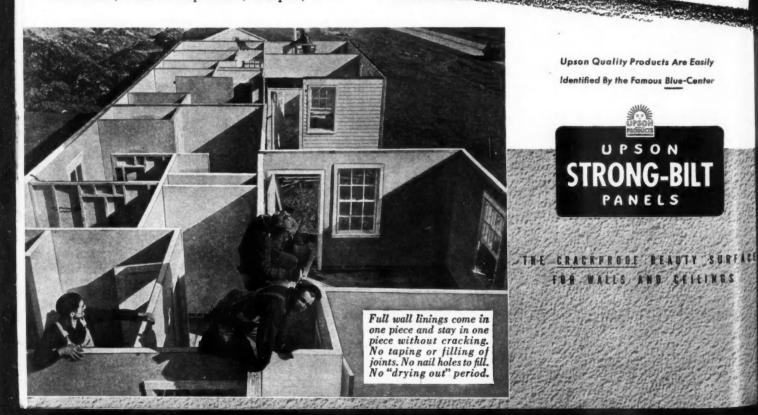
The sections for our Prefabricated Houses on this Contract ware shipped a considerable distance in hox cars. We did not crate any of the panels, and think you will be interested in knowing that your STRONG-SILF BOARD proved its sturdiness and ability to take it, as very, very little damage occurred in shipping.

Our experience with UPSON SIROWG-BILT PANELS has been so very satis-factory that, of course, we shall continue to use and recommend it for inside wall liming on all future jobs.

BENNETT LUMBER CORPORATION

A wi Pe na

6



* AMERICAN * * BUILDER

Pass It On!

ers

TION

e use s onl

ation and and

size, f iorlp

and

r Ur

ily ter

SURFACE

NGS

MILL W

In these days of paper shortage and paper rationing you can help by making your copy of American Builder do double or triple duty. Pass it on or lend it to your friends and customers.

You have already noticed that, with the March issue, American Builder reduced its trim size slightly. This step has resulted in a considerable saving in paper and will enable us to continue to maintain our standard of service.

65th Year Vol. 65, No. 5

Founded Jan. 1, 1879.

AMERICAN BUILDER and BUILDING AGE (Originally "Carpentry and Building"), with which are incorporated National Builder, Permanent Builder and the Builder's Journal, is published on the first day of each month by the

SIMMONS-BOARDMAN PUBLISH-ING CORPORATION, 105 West Adams Street, Chicago, Illinois New York Office: 30 Church Street

WASHIN	GTON, D. C.
National	Press Building
CLEVEL	AND. OHIO
Termin	al Tower
SEATT:	LE, WASH.
1038 Her	nry Building
SAN FRA	NCISCO, CAL. gomery Street
LOS AN	GELES, CAL. Sixth Street

Samuel O. Dunn. Chairman of Board; Henry Lee, President; Robert H. Morris, J. S. Crane, Vice-Presidents; Roy V. Wright, Secretary, Elmer T. Howson, Assistant Secretary; John T. DeMott, Treasurer.

Subscription price in the United States and possessions and Canada, 1 year, \$2.00, 2 years, \$3.00; foreign countries, 1 year, \$4.00, 2 years, \$7.00. Single copies, 25 cents each. Address H. E. McCandless, Circulation Manager, 30 Church Street, New York, N.Y.

Field Staff: C. L. Conley, J. H. Free, Ralph I. Henry, Woodrow James, W. L. Taylor, Dick Whittington.

Member of the Associated Business Papers (A. B. P.) and of the Audit Bureau of Circulations (A. B. C.) PRINTED IN U.S.A.

CONTENTS FOR MAY, 1943

Front Cover Home—Design for Post-War: Peace—Comfort— Stability; House by Royal Barry Wills. (Plan on Page 53.)	
Publisher's Page—Making Private Enterprise Work—by Samuel O. Dunn	9
Washington News Summary	13
On and Off the Record	18
Letters from Readers	22
Editorial—These Are the Men Who Will Build America's Post-War Homes	
A Private Enterprise Program for Post-War Home Building. A Plan to Bridge the Gap from War to Peace with Private Building	30
America's Builders Speak on Post-War Home Building	32
"For Progress; Against Radical Change"-Builders	
Builders' Post-War Home Portfolio	45
You Can Expect Planned Communities and Garden Apartments A Practical Pattern for the Future—River Oaks of Houston, Texas	46
Duplexes—Low Cost Housing for Better Post-War Living	.49
New Procedures, Standards, Speed Up War Housing; Ask for 250,000 Units This Year	
This Little House Goes to Market?	
Maintenance, Repair Are Top Jobs Today	
War Housing Items from the Capital-by Frank W. Cortright	
How to Figure Painting Jobs Quickly-by Herbert F. Lotz	
Build Farm Structures Every Farmer Can Use	
Handy-Book of Job Helps	.80
New Products and New Ideas Speed War Building	
Catalogs and How-to-Do-It Information	
Index to Advertisers	

SAMUEL O. DUNN, Publisher

JOSEPH B. MASON Editor Business Manager

ROBERT E. SANGSTER BERNARD L. JOHNSON PAUL WATSON Managing Editor Western Editor Associate Editor

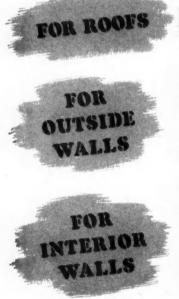
DOLA PARR LYMAN M. FORBES JOE SANDERS L. E. ARENT Associate Editor Research Editor Marketing Editor Art Editor

Ame



GOLD BOND GYPSUM BOARDS SAVE LUMBER . . . SPEED CONSTRUCTION!

There's a bright side even to the lumber shortage! Gold Bond Gypsum Boards not only replace scarce lumber—they are actually easier to use! They handle like lumber—are sawed and nailed just as easily—and save hours of application time. (A 2' x 10' panel covers 20 sq. ft. at one lick). Nothing experimental about these heavy-duty boards as they have proved their durability and ability "to take it" on dozens of big government projects. They're immediately available all you want—at your Gold Bond dealer's.



8

GOLD BOND ROOF PLANK! Husky, fireproof, moisture-resistant panels nail directly to wood joists, and form a sturdy base for roofing material. No special attachments required for either flat or pitched roofs. Work goes faster and waste is eliminated because of uniform lengths. Sizes: $2' \times 8'$, 9', $10' \dots 2''$, $1\frac{1}{2}''$, 1'' thick. Long sides have shiplap edges for snug-fitting joints.

GOLD BOND EXTERIOR BOARDS! Sheathing and siding—in one operation, that's the story about Gold Bond Exterior Boards. The center is fireproof gypsum rock for strength and rigidity. One style with durable overcoat of asphalt roofing. Another comes with tough, weathersealed green facing and with special watershed edges. Sizes: $2' \ge 8', 9', 10' \dots \frac{1}{2}''$ and 1'' thick.

GOLD BOND SOLID PARTITION PANELS! For permanent or demountable partitions in plants, offices, dormitories or low-cost homes. Panels are fireproof with rock-like rigidity, built to withstand hard usage. Panels may be left in natural cream color, but may be papered or painted if desired. Easily installed. Can be completely salvaged when temporary partitions are removed. Sizes: 4' x 6', 7', 8', 9', 10'...1" thick. (Also $\frac{3}{4}$ ", $\frac{1}{2}$ ", $\frac{1}{2}$ " thick.)

See Your Gold Bond Dealer



VALLBOARD...LATH...PLASTER...LIME METAL PRODUCTS...WALL PAINT INSULATION...SOUND CONTROL

NATIONAL GYPSUM COMPANY . . EXECUTIVE OFFICES, BUFFALO, N. Y. 21 Plants from Canada to the Gulf . . . Sales offices in principal cities

ublisher's Page

rivate Enterprise Work

THE purpose for which every private enterprise industry exists is to make profits. But each industry's long-range profits will depend more than ever in future upon how much it promotes the public welfare. For to be able to convince that it can, does and will promote the public welfare better than government enterprise will be necessary to enable private enterprise to prevail in any industry.

The private enterprise home-building industry can best promote the public welfare after the war, and make adequate profits for itself, by providing a million better homes each year at the lowest practicable annual total cost of home-ownership.

Providing better homes each year will require keen competition in improving architecture, and in developing, selling and utilizing improved and new materials for building and equipping homes. It will require effective efforts for changes in labor-union rules and municipal codes tending to prevent progress.

Costs include those of sites, financing, materials and equipment, and labor. Financing has been made less difficult and expensive for the home-owner by methods reducing interest and enabling him to pay indebtedness in installments over periods of years, such as that provided by the National Housing Act. Whatever government co-operation in financing is afforded should always amply safeguard the taxpaying public from loss. Monopoly practices tending to make prices of materials and equipment higher than they would be made by competition should be eliminated. And this includes monopoly practices of labor unions for maintaining excessive and inflexible hourly wages, for unduly restricting working hours, for restricting the amount of work done for the wages paid, and for otherwise inflating building costs. The policy prevailing in almost every community of imposing a disproportionate burden of taxes on real estate, and thereby burdening home-ownership, should be exposed, attacked and overthrown.

The foregoing is a large program. Being a business man, as well as a student of economics and politics, the writer is aware that it is much easier to write it than to get it carried out. Business men, large and small, are under constant temptation to join in economically unsound practices to increase immediate profits. They have arrayed against them labor-union leaders who, backed by politicians, perseveringly use political and monopoly methods to get more pay for less work—ostensibly for the benefit of wage-earners; actually to their detriment.

But—the issue presented to the building and every other industry is, free private enterprise, versus a government-planned, dominated, recklessly taxing, spending and subsidizing economy *in competition with private enterprise*. To destroy that menace, private enterprise must be made to function in the public interest as efficiently as possible. To function as efficiently as possible, it must itself conform with the economic laws of free enterprise; and also present the strongest *organized* resistance it can, *nationally and locally*, to every government or labor-union policy tending to prevent efficiency.

It will be a hard struggle. But private enterprise can win it. There is the most public sentiment against "government planning" that there has been in a decade. But to win, private enterprise will have to deserve to—and really fight.

Same O. Dum,

about

ay 1943.

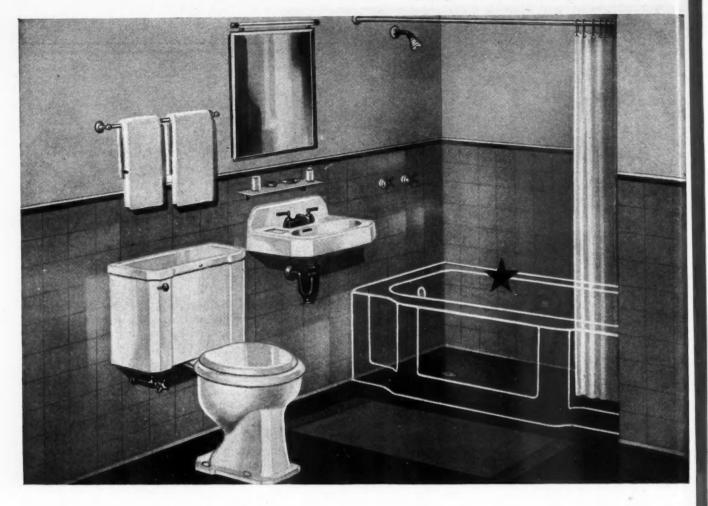
ed their of big ilable—

to wood or either hs. Sizes: its.



ucts for ON TER...LIME PAINT NTROL





The Case of the Missing Bathtub*

Essential materials that might have gone into the production of Kohler bathtubs are going to battle instead.

Much of today's war housing is destined for permanent occupancy. There will be a substantial market for you in the post-war period if space is provided in wartime homes for future installation of bathtubs.

Americans insist upon bathtubs. Women particularly have favored tub-bathing facilities for their own use and for their children. Homes in which provision has been made for the tub will have a greater interest to prospective tenants and owners.

Why not design bathrooms so that an easy and inexpensive installation of a bathtub can be made by the owner later? You can build goodwill and post-war business for yourself. Kohler Co. Established in 1873. Kohler, Wisconsin.

* BUY UNITED STATES WAR BONDS *

KOHLER OF KOHLER

PLUMBING FIXTURES AND FITTINGS .

HEATING EQUIPMENT .

ELECTRIC PLANTS

Am



FLOORS OF THE FUTURE What Will They Be?

You read much about the "house of tomorrow"—predictions that new forms of glass, metal, plastic, and plywood will be found in every room . . . that kitchens will be mechanical wonders . . . that bathrooms will be like those in the movies . . . that windows will wind up and down like those in an automobile . . . that roofs will slide back and forth at the owner's command.

What about the floors? What kind of flooring will be used in the "house of tomorrow"? Of one thing you can be certain . . . that it will be made of hard-

wood. No satisfactory substitute has been found for hardwood floors. No other material has its warmth, beauty, economy,



durability, and other desirable qualities.

You can also be certain that the new postwar flooring will be a product of E. L. Bruce Co., world's largest makers of hardwood flooring. The two major flooring improvements of the past 25 years have been developed in our plants — first, unit-wood block flooring for use over concrete; later, prefinished strip flooring known as "Streamline."

Our wood experts, engineers, and chemists are continually conducting research work to produce a better hardwood flooring to match the improvements in other

> building materials. We can't tell you now what the new postwar flooring will be. But you may rest assured it will be a Bruce product.

E. L. BRUCE CO. Memphis, Tennessee

y 1943.

Homes

he tub

ve ten-

sy and

can be

l good-Kohler consin.

ANTS

Amer

Ho

C

on

nan

ope

1

L-4

con

cor

two \$1,9 fur

Dre

on

ori als tie

po Tł

tic

lir

na

th in

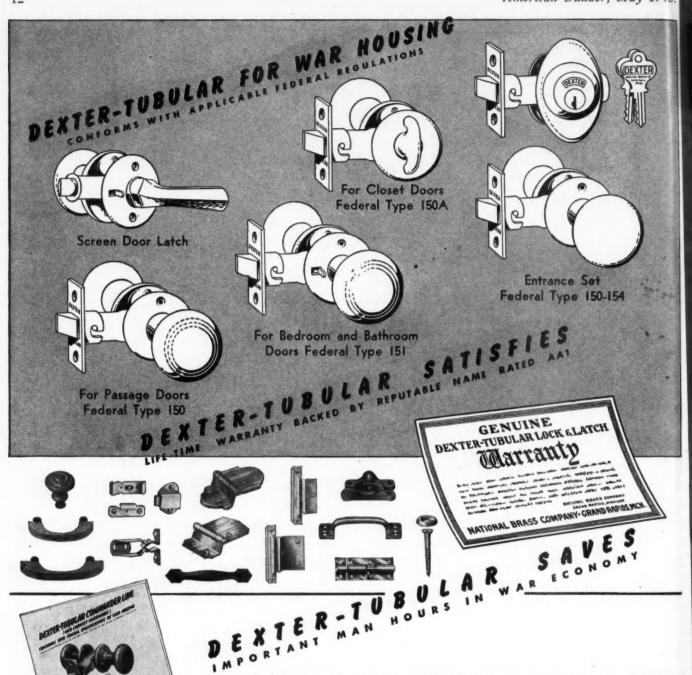
cl

in in

te

st

s ti il a I v o



Builders—particularly in War Housing areas—find many advantages today from the NATIONAL BRASS line. The time savings of Dexter-Tubular Drill Hole installation are especially significant today. The Lifetime Warranty is a factor for permanence and satisfaction. And you will find many uses for the supporting line of Cabinet Hardware, Shelf and Screen Door Hardware — conforming to applicable Federal Regulations.

. . . New Catalog

shows permitted items — the Dexter-Tubular Commander Line and Cabinet Hardware that conform with Federal specifications on War Housing. Write today for your copy — sent at once without obligation. WHAT IS AVAILABLE WITHOUT PRIORITY — Many items of Cabinet Hardware and DEXTER-TUBULARS illustrated in the regular catalog are still available. Lines are broken — you may not find the finish or design desired — but we will advise you of the closest alternates in stock. Available without priority while existing stocks last. Don't hesitate to write or wire us — as always, we want to serve builders to the best of our ability.



y 1943.

XTER

an - 73

tages

gs of oday.

ction.

Hard-

icable

abinet

og are design

ailable

wire

rs.

AN

e

e

e



WPB Releases Several Items For Builders' Use

L-41 Restrictions on Hotel Construction Modified by WPB

Clarification of WPB restrictions on construction, alterations, maintenance and repair work on hotels has opened a field of endeavor for those interested.

The terms of paragraph (b)-(1) of L-41, which prohibits unauthorized construction, do not apply to hotels provided the estimated cost of the construction over any continuous twelve month period does not exceed \$1,000. The revised order, however, further provides that within the prescribed limit of expenditure not only materials obtained without priorities assistance may be used, but also materials obtained with priorities assistance for some other purpose before construction was begun. This is, of course, subject to restrictions of other orders applicable to such materials and to the other usual limitations of L-41.

Under a new definition, maintenance and repair means the work that is necessary to keep a structure in sound condition, but does not include any building operation involving a structural alteration or change in design.

Minimum construction necessary to make safe and to protect any structure or project, or the contents thereof, damaged by fire or other specified casualty, may be undertaken without application, provided it can be completed without priority assistance for the materials involved. In this case too, materials obtained with priority assistance for some other purpose, before construction was begun, may be used.

Likewise, construction to rebuild or restore multi-residential construction, hotels for example, damaged by fire or other specified casualty, may be undertaken, or new multi-residential construction built in its place, provided that the estimated cost of reconstruction shall be less than \$5,000, and that within two weeks of such damage or destruction form PD-200 is filed with WPB. To protect civilian economy and to allow the distribution of essential goods and equipment, arrangements for the production of specific quotas for civilian use have been made.

For the three months beginning in April, production up to 210,000 non-mechanical ice boxes is permitted. Use of metal in these ice boxes is limited to a few pounds each. Altogether more than 400,000 mechanical and non-mechanical refrigerators have been released for spring sale. 148,847 electric and gas operated units have been released from stocks frozen in the hands of dealers and distributors.

In an announcement on March 10, WPB gave advance approval to small electric, gas or water connections for construction or remodelling projects permitted by limitation order L-41. Prior to this, individual application had to be made to WPB.

Domestic sizes of certain air boosters and under-fire coal burning fans have been released for general distribution by amendments of WPB's L-280. These items originally were frozen for use in war housing projects. They were released because they are too small to be installed in the heating units in the housing units now planned.

While the manufacture of metal plastering bases for civilian use is (Continued to page 84)

Title I and Title VI Financing Assured by Amendment

Insured financing under Title I and Title VI have been assured by Congress and approved by the President.

Title VI makes available the insured financing of approximately 90,000 additional dwelling units to be built for war workers by private builders.

 Because of wartime hazards and uncertainties most private lending institutions are reluctant to finance war housing projects on an uninsured basis, with the result that approximately 85 per cent of all private war housing being built is covered by Title VI insurance.
Title I will continue to be available

Title I will continue to be available for war housing conversions and essential repairs.

Title I loans for the purpose of converting existing structures to provide additional living quarters for essential war workers may be insured for amounts up to \$5,000 to be repaid in equal monthly installments over periods of as long as seven years.

Privately financed conversions represent an important part of the National Housing Agency's Homes Use program.

Qualified projects are eligible for AA-3 preference ratings under NHA's local quotas for critical war housing areas.

For financing essential repairs and (Continued to page 84)

Most Building Freed From Price Control

Most of the construction industry not already exempt from price control, will soon be removed from regulations, according to Price Administrator Prentice M. Brown. Repair and maintenance services, however, which are a factor in civilian rents, will remain under control.

General contracting activities and many types of sub-contracting on new dwellings and factories will be formally excluded from price regulations. The necessity for specific regulation over the entire construction field has been eliminated almost completely by wartime limitations on civilian construction, and the drastic decline of contracting activities. Furthermore most of the industry is now active in military construction and other government building activities which previously have been exempted from regulations.

Examples of construction work which will remain under control are as follows: Repair services, including plumbing and the repair and maintenance of heating plants. Sheet metal work; the sale of goods, such as roofing, flooring and siding on an installed basis, when such materials are necessary for the maintenance of existing structures. The sale of building materials on an installed basis where the items are sold on a unit basis, including materials such as pipe and fencing and mechanical equipment, such as water heaters and furnaces, when sold on an installed unit basis, will remain under control.

Amer



SECOND HOME FRONT OPENED!

NELSON OKAYS CAMPAIGN

Says Conservation Important for Victory

The new Barrett Second Selling Front of Repair, Protection and Maintenance is off to a flying start with the full support of Donald Nelson, Chairman of the WPB.

Apprised of Barrett's interest in promoting the conservation of vital materials through the use of paints, wood preservatives and other Barrett products, Mr. Nelson in a letter to Barrett says:

"Since the conservation of every vital material during the war is of utmost importance, I am confident that this campaign will be of especial interest to building owners."

The full support of the Government of this RPM selling front is of particular importance to roofing dealers, contractors and builders. Backed by the WPB, Barrett and the building industry, this new selling front promises to be a real major offensive.



Worn metal flashing is repaired with a pplication of Barrett Plastic Elastigum^{*} and asphaltsaturated felt. Clip shortage problem is solved by Dallas Milliken of Topeka. His mechanic uses S.I.S.* Cement.

Barrett Pitch-saturated Waterproofing Fabric and P.B. Cement provide dampproof barrier in masonry.

YANKEE INGENUITY SOLVES PRODUCTION SHORTAGE

The use of practical substitutes to overcome the shortage in restricted materials has presented an ingenious solution to the troubled building industry.

A typical example is that of Dallas Milliken of Topeka, Kansas. Unable to obtain lap clips, he fastens shingles on roofs with Barrett S.I.S. Cement. This product, wellknown to roofers everywhere, is a unique ready to apply, self sealing waterproofing adhesive. Milliken's men use a hand pressure gun to apply the cement.

Many Barrett products are saving precious steel and

copper for war uses today. Where brick arches are used instead of steel lintels over doors and windows, and where masonry substitutes for steel, Hydronon provides the necessary damp proofing. Wood trusses and timbers are treated with Barrett Carbosota[‡], the recognized highquality creosote oil. Greater use is being found for Barrett Plastic Elastigum for flashings on roofs and parapets. Every day American ingenuity finds new ways of substituting for critical materials, and Barrett Protective Products play a great part in this increasing trend.

BARRETT OFFERS HEAVY AMMUNITION FOR NEW SELLING FRONTS

With 30 percent of American homes obsolete and some 12 million houses over 25 years old, leading roofing dealers, contractors and builders are joining forces with Barrett in the opening of a new second home front—Repair, Protection and Maintenance.

Long troubled by material shortages, the men in the building industry see in this new selling front the solution of many of their wartime problems. The market is tremendous, and will widen even more as the pressure of priorities on building materials and construction makes itself felt more strongly.

Today Barrett is helping roofers, contractors and builders to fight on this RPM front by offering ammunition which includes not only a complete line of Protective Products for repairing, protecting and maintaining homes and farms, but also complete and comprehensive promotion material. Dealers and distributors are using Barrett direct mail cam-paigns, window displays, selling manuals, etc., to widen the RPM front now. Every month from now until the end of the war will see a greater need for repair, protection and maintenance.

	G	IN	1		
•	K	1×	$(\overline{\cdot})$		
	6	NO	同	S	
)	10	3	201	1
"La	n	w	"L	066	-
		A 14	0		

SAYS ... "Well, by golly war's sure changin' things 'round here lately. This here RPM front is sure worth a pipeful a' thinkin'!

"These here restrictions we're yellin' about don't come near to touchin' th' biggest market we got. This here is the Repair and Maintenance market...the dad blamed biggest of 'em all!"

Reg. U. S. Pat. Off.

GOVERNMENT CITES BARRETT FOR WAR BOND AD

A recent Barrett advertisement which appeared in the Saturday Evening Post has been cited by the Government "For distinguished services rendered in behalf of the National War Savings Program."

This forceful Barrett advertisement was inspired by the thrilling adventure of three Navy men adrift for 34 days on a rubber raft.

This advertisement is a digest of the eight page Barrett RPM News. It is full of news and ideas to help you sell. Mail the coupon for your FREE copy.

The B	ar	T	et	tt	1	D	i	vi	si	io	n	1					A	E	1	5	4	13	
Allied	C	h	e	π	23	C	al	L	8	1	D	v	e										
Cor	DO	r	a	ti	0	n																	
40 Re	-	0	-	\$		-					T.				v	0	-1	5		-			
10 110			•	1			-		.9	î					^		•	•	1	1 حي		y	
Please	1						~			_			1	21	•	F							
scriptio											-												
																				۰.			
help n	ne	9	1	W	11	h	ł.	1	e	W	7	5	e	u	11	16	5	3	d	e	a	5.	
Name																							
a venne		1	1	Î		1			•	1	•		•	*	•	1	•			1	•		
Addres	55		1	*	*	•	*	*	٠	*	*	*	•	*	•	*	•	*	*	*	1	*	
City .					*									•		•							
State																							
D. CELCO					*		*			*	*			*	*				•		•	1	

1943.

.

DR

an 12 ars

rs, are ind decial he his on en of teces

ng nd M on a ve

ng Iso ve

ers

m-

11-

en ry he a

B-5-43

c City subvs, to ideas.

....

LOOKING AHEAD-

THE STORE FRONT OF THE FUTURE is very much the business of The Kawneer Company. Having originated the store front idea back in 1905, and having pioneered many important store front developments, Kawneer is now working on the better Kawneer Store Fronts of tomorrow.

The recent Kawneer-New Pencil Points Architectural Competition revealed interesting new trends; other research is pointing the way to improvements of great importance. Kawneer production facilities, now devoted 100% to the war effort, will again be directed to the manufacture of superior store front construction.



"...I'm not doing much building but I'm doing a lot of thinking!"

"Before the war I built quite a few houses...nothing spectacular, but generally acceptable...about 50 a year, averaging about \$5,500. And they were all pretty much alike.

"These last few months, I haven't been doing much building but I have been doing a lot of thinking...about what I'm going to build when the war stops.

"I'll let you in on one of my hunches. Houses have always had floors, walls, roofs, doors and windows.

and while all these structural features are vastly better than they used to be, the most important improvement in living

is in the operating equipment...the things we use to cook and heat with, and the numerous other devices which have made housekeeping easier.

"I used to figure that I would hold down both the amount and quality of operating equipment because that would make the house cheaper. What I failed to figure was that, by using the most efficient equipment, I would have a better house to sell, and at the same time I would save money for the owner in his monthly operating bills.

"So here's my No. One Memo for post-war building: Efficient, quality-built electrical equipment usually contributes more in operating economies than any increase it may cause in monthly amortization payments when financed under a long term mortgage. It can actually cost less to live better."

We would be glad to receive comments or questions on this memo.



HOME BUREAU

Am

Today A SYMB

1943.

1 11

Here, at Youngstown Pressed Steel, a new flag floats with the Stars and Stripes, the Army-Navy award for Excellence.

We are proud of this coveted insignia of quality in our war materials; even prouder than we are of the recognition of quality we earned from the women of America before the war and which we pledge to maintain in the future.

17

VEMENT...

Ε

TITI

Builders and Architects are the logical outlets for Youngstown kitchens — and Youngstown kitchens will be your symbol of leadership in the kitchen market.

TODAY invest in victory by buying War Bonds and Stamps and PLAN for your share of that tremendous kitchen market of TOMORROW

It's Our War Let's Fight It Now

PRESSED STEEL DIVISION of MULLINS MANUFACTURING CORPORATION, Warren, Ohio



BEATEN MEN?-Beaten paths are for beaten men, says Eric Johnston, dynamic head of U. S. Chamber of Commerce. He urges private business to create definite action plans for post-war business. "Private business is not dead," he declares; "it is just beginning to begin."

He spoke of plastics, light weight metals, synthetics, electronics and their effect on post-war living. He mentioned a goal of a million homes a year for business, finance and a building industry organized to do the job.

MAKE BIG PLANS-American Builder's survey, described in this issue, clearly shows that private builders are not "beaten men." They are ready to take on new ideas as fast as proved sound and workable.

So let us not make any small plans for post-war. Let us plan to build at least a million houses a year by private enterprise within a short time after the war ends.

This will produce business for small builders as well as big builders; for prefabricators as well as single house operators; for lumber dealers as well as real estate men; for building and loan league members as well as for financial institutions that are more enthusiastic about FHA.

LOW PAYMENT-An important feature of American Builder's postwar plan is the building of houses to rent, and the study of a plan to sell houses on either very low down payments or none at all, using the lease-option system of FHA Title VI.

Many conservative builders and financing people object to such an idea, but I believe enough safeguards such as higher construction standards and better planning can be set up to make some system of this type work. In order to reach very low income

workers, and in order to answer the accusations of the public housers that private enterprise cannot do a satisfactory job, the industry must have. such a plan and must also build houses to rent.

Under any low cost housing plan there must be some risk. But if the houses are soundly built and soundly planned losses can be held to a minimum, which could be covered by a national mutual mortgage insurance fund. That is far better than having the government do the building and the taxpayers pay the entire cost.

STAUNCH AND HOMELIKE-Among the phrases used by builders, describing what they think the public will want in post-war houses, the phrases "staunch, homelike, livable, convenient," keep cropping up. The phrases most to be avoided, as far as the public is concerned, are "revolu-tionary," "radical," "different," "pre-fabricated."

Apparently as far as the average home buyer is concerned his habits of thinking are strongly rooted in the experience of his youth and the life about him. When he thinks of buying a home, he thinks of settling down; he wants something that is staunch, sturdy, homelike and comfortable.

HOMES BY MACY'S-Noteworthy building news was made last month when Macy's big department store in New York City opened a striking post-war home display, and started "Own Your Home" club savings accounts for prospective buyers. A number of six foot models of Homasote precisionbuilt houses were on display. At frequent intervals a demonstration of the ease with which the houses could be erected and demounted was put on.

Back of this Macy display is an ambitious post-war home building and marketing scheme conceived by ener-getic F. Vaux Wilson, Jr., of Homa-sote Company. A number of other large department stores are planning to set up similar displays. Department store owners realize that new homes offer a lucrative market for furnishings, and may enter the home field.

FOR PRIVATE BUILDING-It is apparent that top government officials have finally awakened to the fact that positive action is called for to encourage private war housing construction. NHA Administrator Blandford has gone out of his way to call upon private builders to resume work. Revisions in procedures, standards and methods have removed some of the worst obstacles. Additional priority has been granted. The government now says it wants private builders to provide 250,000 units this year, but it will take a lot of encouragement to get them to forget and forgive the troubles they have gone through.

News, Views and Comments

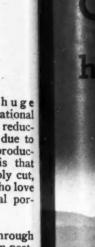
HUNGRY LOGGERS-The huge appetites of lumber jacks is a national problem. It seems that sharp reductions in lumber production are due to scarcity of workers. Lumber producers say an important reason is that their food allotments were sharply cut, and the lumber camp workers, who love their meat and beans in colossal portions, simply wouldn't take it.

BETTER AND BIGGER-Through all of the letters and comments on postwar from builders has run the theme that post-war houses will be better, bigger and more fully equipped than in the past. A definite reaction against small, flat roofed shack-like war housing has set in. The public will revolt against the standardized housing they have had in the war and will want individual, livable, well equipped houses.

SINGLE-LOT PROBLEMS-One significant fact often overlooked by post-war planners who talk about mass production of housing is that in almost every community there are large numbers of single lots with utilities already installed, which form the largest immediate market for home sites. In Detroit, for example, there are thousands of home sites already developed with utilities in. The houses that go on such sites must fit in well with the neighborhood-they cannot be revolutionary in design. Nor can they easily be "mass produced" in batches of 100 or more because the building sites are widely scattered.

FIFTY TO ONE-Since Pearl Harbor private builders have added more than 1500 family units in the city of Detroit through conversion or additions to old dwellings. It ought to be a lot more, and with the proper kind of a promotional campaign private builder could triple or quadruple that record. But what did the public agencies do? With all the money spent and all the hullabaloo and all the government employees on the public pay roll—only 31 family units were added by conversion of old structures.

That ought to be some indication to government officials that if they want to get a job done, the way to do it is to encourage, promote and assist private enterprise rather than to set up some complicated new government agency to do the work itself.



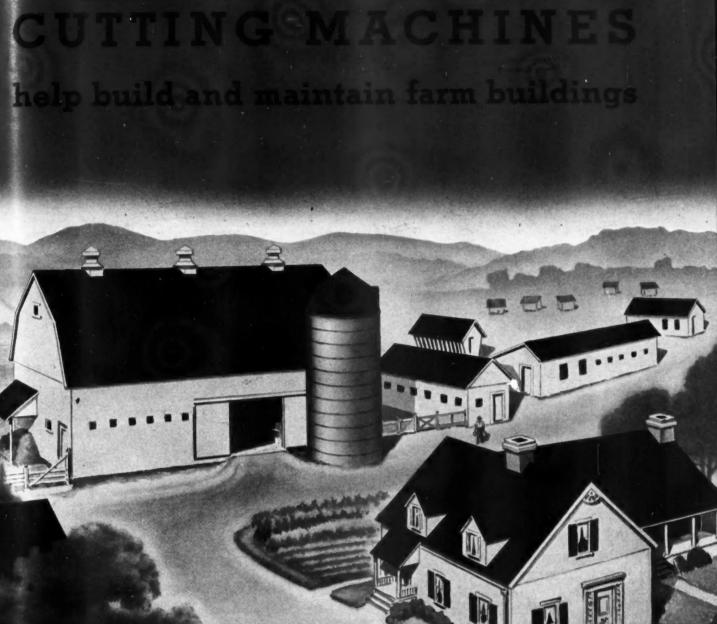
1943.

n posttheme better, d than against housrevolt g they ant inhouses.

-One -One red by t mass almost e numlready st im-In Deusands d with n such neighionary "mass more widely

Harl more city of addit to be r kind private le that agenspent e govc payadded

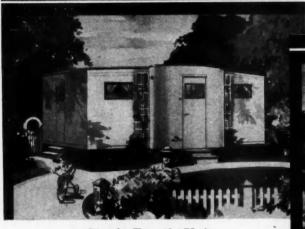
v want lo it is st priset up rnment



Today—when all farm production is so important to the war effort—it is essential that farm buildings be built and maintained efficiently. DeWalt Cutting Machines have long been *custom-cutting* farm buildings in quantity. To help relieve the critical situation in lumber, DeWalt again comes to the front by re-working any lumber into usable material. Sturdy, flexible, dependable—DeWalt Machines do their cutting with a precision heretofore unknown.

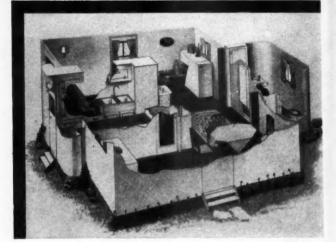
Amer

Two-Family Unit (With or without complete bath)



Single-Family Unit (With or without complete bath)





Expansible Dwellings and Utility Units!

AN OPPORTUNITY for Contractors and Builders!

If new war plants are being built in your locality, or if old plants are undergoing expansion, investigate the possibilities of this new low-cost housing plan.

Write for Complete Information

ace)

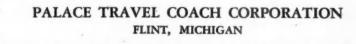
Factory-built, Factory-assembled and Factory-equipped

When emergency housing is needed at war production plants, Palace Expansible Dwellings and Utility Units quickly solve the building problem. Being completely factory-built, assembled and equipped, they can be delivered by motor truck direct from factory to building site.

With plumbing, wiring and electric fixtures installed at the factory, all that is necessary is to place the dwelling units upon previously prepared foundations and connect them with sewer, water and electric lines. Complete even to furniture, floor coverings and draperies when they leave the factory, they are ready for occupancy within a few hours after reaching their destination.

Two laundry and four toilet units are sufficient for every 100 dwellings. However, the dwelling units may, if desired, be had with private utilities installed, making separate utility units unnecessary.

Palace portable housing and utility units are now available for factory housing projects and subdivision building projects in war-production areas upon approval of the National Housing Agency.



RAVEL COACH CORPORATION

1943.

YOU'D WANT PERMA-GLOSS TOO!

ememoer me

look me and my convenience.

new homes.

who works with the equipment you install in the kitchen. I use the Perma-Gloss sink and tray. I clean them. I want them

to clean easily. I don't want to worry about chipping, cracking or staining. In specifying the 'Technical details' don't over-

"Take a tip and supply Perma-Gloss-it meets my requirements and if it meets mine, it will satisfy your other customers."

Through installations in Government housing units, dormi-

tories and camps, Perma-Gloss is making new friends by the

thousands. "After-the-war" customers are learning Perma-

Gloss advantages now-they will insist on Perma-Gloss in

If you worked in the kitchen

ng comoy motor

l that is tions and turniture, eady for

However, , making

housing



General Ceramics Co. GERAMICS COMPANY SANITARY WARE DIVISION

For detailed information send for our latest Perma-Gloss bulletin.

BUY MORE WAR SAVING BONDS

I'm the housewife

PERMA-GLOSS

is strong and durable-will not dunt or craze

is acid proof thruout, not merely acid resistant

has no enamel to peel or chip—no iron to rust

METUCHEN, NEW JERSEY

3796

is light weight—easy to install

will withstand thermal shock

is inexpensive

Amo



Traditional Style

Lansing, Mich.

To the Editor:

We believe the American public will cling to the traditional styles of architecture such as have been popular for quite a few years back. In our area the attempts at modern and extreme modern design houses were not successful.

If we were allowed to continue building now we would probably go ahead with the four and one-half room Cape Cod which we have found very acceptable in this area.

If other merchandise becomes as streamlined as magazine articles and other advance publicity would indicate, then probably a trend to radical changes in other merchandise would have its effect on house design .- WILLIAM J. PORTER, Jr.

"Dream" Home Will Stay

Dayton, O.

To the Editor: I can't see why anyone should expect very radical changes in people's sentiments when it comes to choosing their home. "Home" always meant more to prospective home owners than just a convenient pile of cement, timber, or brick, in which one merely eats and sleeps. These sentiments surrounding the word "Home" have not been born over night-they are the result of years and years of living. The majority of the post-war home owners are the people who would be building or buying their homes now, if the war had not intervened. Their "Dream Home" will stay with them in their minds, and I don't think it will be possible to impose anything upon them which doesn't closely resemble that same "Dream Home."—PAULINE HEIDELBERGER.

For Individuality

Arlington Heights, Ill.

To the Editor: In the majority of cases, a man building his home wants individual design, different from those of his neighbors. It must meet certain requirements that only he and his family can decide; therefore he employs an architect or reliable builder and his thoughts and wishes are developed in a plan.

It is our experience, that these individual requirements can be obtained only by building individual units. The pre-fabricated, or mass-built, similar homes, are satisfactory for war camps, group factory homes, and the like, usually built for emergencies.

We are planning, immediately after the present ban on building is lifted, to start the construction of twenty-five homes of various types and sizes, ranging in price from \$6500 to \$7950.-CARLTON A. SMITH.

Working for "Uncle"

Whittier, Calif.

To the Editor: My husband has joined the Army, and therefore cannot write you at the present time.

Mr. Colegrove has built over 900 houses. I am sure that what he intends to build after the war will be on the order of our pre-war houses. What was the matter with them? The house in your November, 1942, issue on page 50 is only a sample. They were all as good or better.

I am very sorry Mr. Colegrove isn't in a position to send you more material at this time, but working for "Uncle" is his big job now.—MRS. D. R. COLEGROVE.

Modernized Exteriors

Denver, Colo.

To the Editor: Our experience in house building is that the public prefers conventional architecture, but the exterior must be modernized and as one builder expressed it, houses must contain up-todate "gadgets."

Our construction in the past has been confined to residences costing \$10,000 and up, and when building is resumed, we doubtless will continue in this bracket although we have plans for a subdivision which we will endeavor to develop in houses ranging from \$6,000 to \$10,000.-VAN HOLT GAR-RETT.

Low Income Housing

To the Editor:

Denver, Colo.

If the cost is low enough, complete shop or factory fabrication may be used. Certainly pre-cutting of materials with power equipment will be used, After the war, I expect more variation in exterior design in homes built in large quantities at a comparatively low price for as low income brackets as can be reached with new homes. I hope to provide sound construction with minimum luxuries, making home ownership available to as many as possible.—FRANKLIN L. BURNS.

Plastic, Glass, Lighting

Chevy Chase, Md.

To the Editor: As my homes are traditional Colonial, I expect to adhere to somewhat the same construction after the war. Progress in home building will probably be reflected in improved lighting, most likely fluorescent indirect-kitchen and bathroom units that are part of the wall with no dirt-collecting space between-improved heating and air-changing units, maybe cooling-possibly plastic water tubing and glass partitions. — EVERETT A. R. SEARL.

Slow Change Best

Anderson, Ind.

To the Editor: Post-war housing, I believe, will radually adopt proven innovations. Radical changes are always dangerous and may not click. If they do click they may depreciate older properties too rapidly.-H. A. SMITH, Realtor.

Fireproof Construction

St. Louis, Mo.

To the Editor:

We believe post-war homes will tend toward fireproof construction. For the better grade of home there will be more electrical devices; extensive use of plastics, and brick exterior will prevail in this area.-ROBERT A. BURNS, Realtor.

Better, But Same Price

Weymouth, Mass. To the Editor:

We expect that post-war houses will be better equipped houses at the old prices due to better methods of building with power equipment and lower financing .-- L. ROBERT cost of ROLDE.

DIVISI 1130

Facts, Opinion and Advice Welcomed for This Dept. 1943.

used. riation nilt in ly low ets as nes. I uction home ny as RNS.

Md.

Coloninat the war. probaghting, --kitchpart of space d airc--posl glass A. R.

Ind.

e, will vations. ogerous o click operties ealtor.

Mo.

For the be more use of prevail URNS,

ce Mass.

the old f buildd lower OBERT

STRAN STEEL

1130 PENOBSCOT BUILDING, DETROIT, MICHIGAN

Through the Medium of Steel

In the prospect of America's post-war building there is an exciting challenge of new frontiers. Geographical limitations will be erased by the extension of air transportation, while boundaries of architectural thought and execution will be pushed back by new methods and materials.

Stran-Steel's wartime assignment has brought about farreaching engineering developments in the structural uses of light gauge steel. Today this knowledge is of military value, and is being applied entirely to military uses. When the war is won, it will provide new latitude, new freedom of expression, in varied fields of peacetime construction.

Flintkote 4-in-1 Utility Board

ding

product with many uses

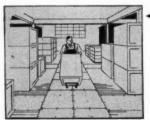
This versatile new product was developed by Flintkote as a wear-proof, weather-tight flooring for Army cantonments.

So effectively did Flintkote 4-in-1 Utility Board cover warped, "opened up" wood floors that it was tried on other hard jobs. As warehouse flooring, it proved very durable. As wall and floor lining in dairy barns, poultry houses, and other farm buildings, it proved an effective substitute for hard-to-get materials.

Easily applied even by unskilled labor...these large, rugged panels provide a quick and economical way to roof and side many temporary and portable buildings.

Flintkote makes this tough, versatile material from special felt...treated with stabilized bitumen...compressed onto asphalt-impregnated backing board. Standard panels are $3' \ge 4'$. Lengths up to 8' on special order.

Available in quantity for immediate delivery, surprisingly low in price, the new Flintkote 4-in-1 Utility Board effectively replaces plywood, wallboard, metal roofing or siding and other scarce materials. And you'll discover dozens of other uses for this adaptable newcomer in the Flintkote family of building materials.



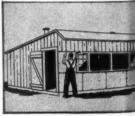
ale ac

• This illustrated booklet shows more than 40 uses for the new Utility Board. For your free copy, please write to the Flintkote Company, 30 Rockefeller Plaza, Flinthote 4-in-1 Utility Board in trucking aisles withstands destructive wear and tear ... and reduces noise.

-in-1 Utility Board peeds up repair and contruction of many types f farm buildings and ndustrial structures.



FLINTKOTE



Lining

New York. Branches located in Atlanta, Boston, East Rutherford, N. J., Chicago Heights, Ill., Detroit, New Orleans, Waco and Los Angeles. 1. Ge 2. Stinew n

PO

In decide
Sti
Ge

For i power

income tell yo people Trm serious and m to 1 ov tise. W

added have t And vertisi men ir

1943.

WILL that building balloon go TTP 2

"SOMBDAY I'm going to be a millionaire!"... "Boy, wait till I get going!"... Sounds like a small boy boasting to his best girl-doesn't it?

Well, that's what a lot of today's post-war talking sounds like. Realistic adults smile, mutter, "Maybe"

Fact is, when the war ends, there may be a great rise in the demand for new buildings-or there may not be. Certainly there will be a need for new housing. But you know from experience that need and demand are not always the same thing.

To help you turn the need into demand as soon as possible after Hitler is washed up, we offer this

PLAN FOR BUILDING POST-WAR BUILDING MARKETS

1. Get ready to make sales the minute peace comes. 2. Stimulate confidence in and acceptance of your new methods, materials, designs.

3. Interest both men and women, because they jointly decide when and how to build a house.

4. Stir up prospects for non-residential building.

5. Get the middlemen on your side.

You can do all five of these jobs in one magazine, TIME

For in TIME you can tap the dammed-up buying power of over a million families with 21/2 times the income of the average U.S. family...in TIME you can tell your story to America's most important people*people who set the pace of living for millions of others. TIME is one magazine both men and women take seriously-they add up to more than a million men and more than a million women, who prefer TIME 7 to 1 over all other magazines in which you can advertise. What's more, TIME's prestige gives your story dded weight with the bankers and executives who have the say on non-residential building.

And in TIME you back up your trade-paper advertising with extra impressions on thousands of top nen in construction and finance.

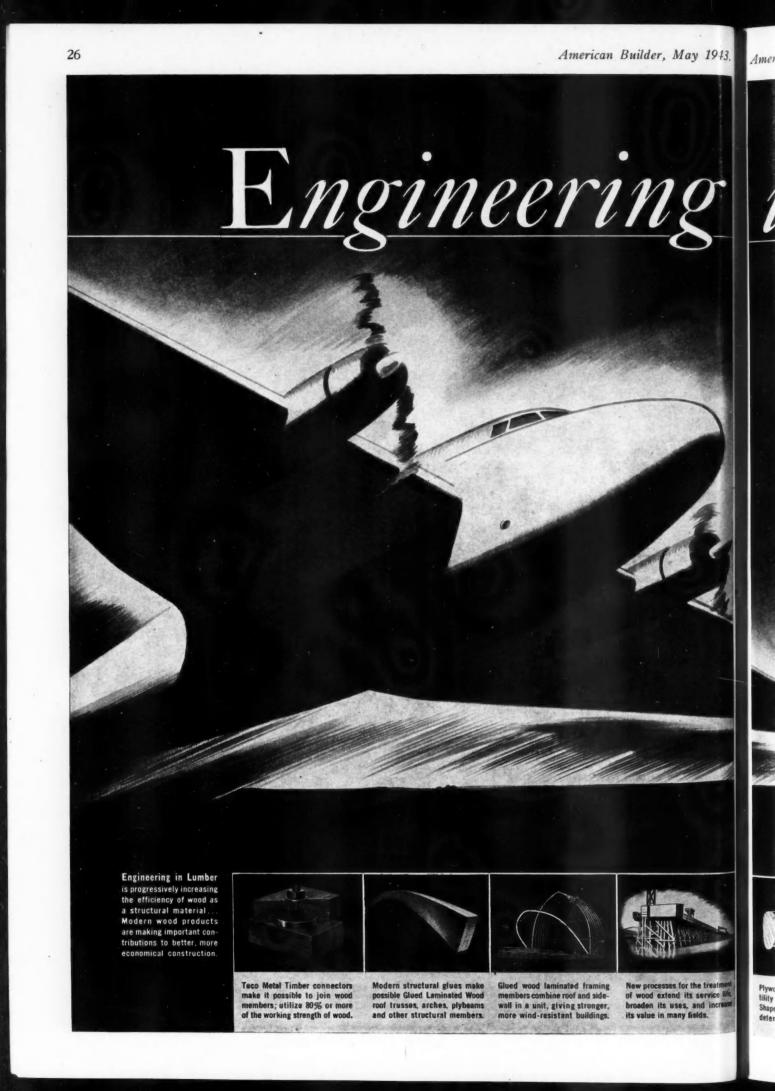
VILLAS SUSPENDED FROM BALLOONS. To solve the housing problem of London in the 1870s, Dickens-illustrator George Cruikshank did this tongue-in-the-cheek sketch to spur the hopeful do-nothings of his day into action.

*These people include executives and editors, congressmen and college presidents, government officials, mayors, radio commentators and 21 other groups of leaders - all of whom have recently voted "TIME is America's most important magazine.

s located in

st Ruther-

leans, Waco



1943.

Lumber

promises a greater future for wood

FOR THE NATION'S essential construction, the products of the forest were always at hand—and ready for use. Logs built the early cabins and stockades—hewn into timbers, they built bridges and boats—fashioned into dimension and boards, *wood built America*—its homes, churches, schools, factories, stores and farm buildings.

Under the mandate of each new necessity, the quality, the form, and the application of lumber improved. Wood constantly serves new uses, both urban and rural, *because wood is economical and easily workable*.

The rush of war needs for countless materials made demands on all our nation's resources. High on the list was lumber. From timber-line... to laminated arch rafters, and Teco trusses for modern factories and airplane hangars, to plywood shells, for air and water craft, wood accomplished in weeks what would otherwise have required months.

The record of wood in the war marks still further advancement in the development of lumber. Research freed wood from former limitations of the log. New ways of forming and shaping wood, new methods of joining and bonding it have given us such products as laminated wood rafters, various forms of plywood, and many other newer products.

As a result of the marked advance in Lumber Engineering, contractors who will erect the future homes, service, commercial, and farm buildings, will find in wood a new, improved, more economical material.

YOUR 4-SQUARE DEALER IS HEADQUARTERS FOR ENGINEERED 4-SQUARE BUILDING SERVICES

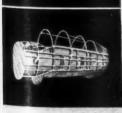
The 4-Square Home Building Service contains fifty designs of modern homes featuring convenience, comfort, and economy. The 4-Square Farm Building Service features farm buildings and equipment engineered for low cost, long life, and greater utility. Your 4-Square Lumber Dealer will be glad to cooperate with you in the use of these services, as well as providing modern Budget Payment Plans.

WEYERHAEUSER SALES COMPANY

FIRST NATIONAL BANK BUILDING . SAINT PAUL, MINNESOTA

opyright 1943, Weyerhaeuser Sales Co.





Plywood is proving its versatility in countless applications. Shapes and strengths can be predetermined for specific uses.



The Old Maestro...

YES, AND A NOTABLE CRAFTSMAN. He takes pride in the job he is doing —building the world's most satisfactory roof.

There are thousands like him throughout the land. Today they're doing a war job. They're drawing from their fund of experience and ability, are applying their craft toward the winning of the war. You'll see them perched on the roof-tops of hundreds of giant housing projects from coast to coast. They're re-roofing houses by the thousand in every section of the country. They're busy building roofs for grain bins, poultry houses, implement sheds, dairy barns—busy putting the nation's food factories in top working condition.

Today, as never before, America's shingling craftsmen are doing a vital job. And with Red Cedar Shingles they are building roofs of highest quality, durability and appearance.

KEEP ON BUYING WAR BONDS



RED CEDAR SHINGLE BUREAU SEATTLE, WASH., U. S. A., VANCOUVER, B. C., CANADA

America's post-war homes

BUILDER

These are the men who will build

T IS high time the builders of this country were heard on post-war planning and building. Everyone else has been sounding off on this sub-

AMERICA

ject-especially social planners, industrial designers, prefabricators, and revolutionary architects.

Yes, everyone has been heard-everyone but the experienced, private builders who in 1941 erected and sold 619,000 houses out of that year's pre-war recordbreaking total of 715,000.

Was home building a failure in 1941?

The record shows that more single-family houses were constructed that year than in any year in the history of this country. They represented definite progress in design, construction and equipment.

They know public taste

In order to build and sell these 619,000 houses, private builders had to have a keen understanding of public taste and buying habits.

Yet in all the wild, weird fulminations about postwar home building, hardly anyone seems to have given credit to builders for the understanding of public taste and public needs that this selling job required.

At least 45 per cent of the 1941 houses were built for sale-that is, they were substantially completed before the buyer saw them. They represented the advance judgment of the builder, who had to risk his own money in the purchase of land, utilities, equipment and labor.

The many thousands of men and firms involved in building pre-war houses are going to be back in business more strongly than ever in post-war. And they will be in there fighting.

American Builder has just completed an extensive survey among successful residential builders, reported in this issue, as to what they are planning for post-war. The reports are stimulating and encouraging. They show this industry is on the march. They promise the American public the best houses the world has ever seen. But they are far different from some of the frenzied forecasting of industrial designers, and super-modernistic architects who have never had to subject their pencil dreams to the harsh reality of public taste in the low-cost home market.

Post-war building must start first with land. The men who know how to buy land economically and soundly, how to build well, and how to judge local customs and buying taste will be out in front.

American Builder's survey shows that builders are expecting a host of new products, ideas, new materials, equipment and methods. They will adopt and use new ideas as fast as they can be tested and successfully sold.

Have the "know-how"

These builders have the land, the experience, the money and the "know-how" to permit them to start quickly, using the best products available. They do not expect to wait several years for the pencil dreams of industrial designers to go through the long process of production, field testing and distribution.

The million homes a year (or more) market of the post-war era will call for the services of small builders as well as large, and of lumber dealers, real estate men and sub-contracting trades. It should also not be forgotten that repairs, maintenance and remodeling of millions of existing homes will get under way first of all.

To make all this possible quickly, an adequate postwar finance program backed by an educational campaign will be needed. American Builder's "War to Peace Plan" announced in this issue is a first step in a campaign to this end, and more will be heard of this in later issues.

PRIME FACTORS BUILD	
CONTRACTOR BUILDERS	3 to 10 Houses on Con- tract or for Sale, Light Load Industrial, Com- mercial, Remodeling.
MERCHANT BUILDERS	10 Houses or More in Groups, Urban and Sub- urban. For Sale or for Rent.
CARPENTER BUILDERS	Maintenance, Repairs, New Farm Buildings, Rural Buildings, Small Homes.
LUMBER AND BUILDING MATERIAL DEALERS	Farm & Rural Build- ings, Houses, Remodel- ing, Yard Prefabrica- tion.
PREFABRICATORS	Low Cost Houses, Sheds, Wayside Stands, Tourist Cottages, Small Commercial.

he

ry.

15,

ry

ac-

in-

nd

ng

nd

American Builder Presents

A Private Enterprise Program For Post-War Home Building

A Plan to Bridge the Gap From War to Peace with Private Building

- Building industry groups should get together at once to lay out a private enterprise plan to build a million houses per year immediately after war's end.
- 2. The War Production Board's order L-41 restricting home building should be rescinded as soon as possible so that home construction can get off to an early start.
- 3. Congress should revitalize the Federal Housing Administration, charge it with energetically promoting home ownership and developing postwar plans.
- Private building loan and mortgage groups should unite on a broad national finance plan.
- **5.** A liberalized post-war FHA financing plan should be perfected now, incorporating any proven features of FHA Title VI relating to rental housing. Garden home projects should be encouraged, yield insurance studied.
- 6. Post-war finance plan should permit builders to sell houses up to \$10,000 on 10 per cent down payment with twenty-five-year amortized loans.
- 7. Post-war finance plan should consider lease-option alternative permitting occupants to lease houses (with proper safeguards) while accumulating enough equity to buy.
- 8. Better design, higher construction standards, larger homes, planned communities should be required to insure a sound backing for loans, prevent past abuses.

COMPELLING reasons why a private enterprise program for post-war home building should be adopted NOW are revealed in a survey of the prominent home builders of the country just completed by the editorial staff of *American Builder*.

More than 40 per cent of the merchant builders of the country own land ready to receive post-war houses. A large percentage are already drawing plans, perfecting new and improved construction methods. All of them say they expect to take advantage of new products, materials and equipment to produce the best homes the world has ever seen. These builders have the background, the experience and the "know-how." BUT—

LIBERAL LONG-TERM financing arrangements must be prepared and ready to function if private enterprise home building is to get an early start after the war.

A NATION-WIDE educational program in favor of home ownership and the private building of homes as contrasted with Government ownership must be started early.

ACTION MUST BE taken by Congress to revitalize the Federal Housing Administration which has done such a notable job in encouraging private enterprise home building through its national mutual mortgage insurance system.

AN END MUST BE called to the fantastic publicity regarding the post-war home which has been promising freakish and impossible things to the public. The result, builders say, may cause a hesitation on the part of buyers and may seriously retard the post-war building program.

In other words, the experienced, successful builders of the country say they will be ready, able and willing to embark on a post-war program the day the war ends that will quickly result in employment for millions of service men. A private enterprise program of a million homes a year, regardless of public housing, is a definite possibility if an adequate program is laid out now. Such a program would call for a united effort by building organizations and for constructive action on the part of Congress.

Since two committees of Congress are already embarked on an investigation of the National Housing Agency and of post-war housing, it is extremely important that action be taken promptly. Specific recommendations in the *American Builder* plan "to bridge the gap from war to peace" with private building are as follows:

1. Most of the principal organizations representing home building have headquarters in Washington. They should meet in the near future and formulate a program for private enterprise. Outlines of an educational campaign and a bond earmarking program to encourage people to build up down payments on post-war homes should be agreed upon. Advance sale of lots to prospective buy-

30

3

Ame

ers of ment ers of the H Natio Deal Esta Bank 2. how

now may of b actua hom be a

3. enter and statu The ordi will ente

2 2 0

*Ta: finar are

31

Builders Ready For Quick Start -Will Create Jobs For Soldiers Private building firms are now busy pre-

paring plans. They have the land, the knowhow and the initiative to get home building started quickly.

Jobs and homes for millions of returning service men can be created by a vigorous private enterprise program.

erprise uld be of the upleted

1943.

m

ng

ers of nouses. fecting em say tterials tld has he ex-

rangeif prily start

n favor homes ust be

to rewhich private mutual

ic pubas been the pubtion on ard the

uilders lling to ur ends ions of million definite . Such puilding part of

dy emlousing ely imrecomdge the as fol-

. They orogram al camge peoshould ve buyers should be developed and encouraged at this time. Organizations to head such a private enterprise movement should include the National Assn. of Home Builders of the U. S., the National Home Builders Assn., the Producers' Council, the U. S. Chamber of Commerce, National Homes Foundation, National Retail Lumber Dealers' Association. National Association of Real Estate Boards, U. S. Savings & Loan League, Mortgage

Bankers Assn. and others concerned. 2. It is important that thought be given now as to how soon WPB Order L-41 restricting home building may be rescinded. It may well be that certain classes of building should be allowed to resume prior to the actual conclusion of the war. The building of model homes which would enable builders to take orders would be a first step.

Need Liberalized Finance Plan

3. Congressional action may well be required if private enterprise is to be preserved. The congressional committees now investigating the National Housing Agency and post-war housing should determine what the future status of the Federal Housing Administration will be. They should determine whether under its present subordinated position in the National Housing Agency it will be able to conduct an adequate and energetic private enterprise program.

Congress should then appropriate funds to revitalize

Congressional Action Needed-Will FHA Exist After War? FHA's stati of architects, underwriters, tield men and building experts is rapidly dwindling_its educational work curtailed.

Congress may have to take steps to maintain and revitalize FHA, or set up another agency to encourage private enterprise housing and home ownership.

and enlarge the Federal Housing Administration, or a new agency, if deemed necessary, and charge it with energetically promoting home ownership. A special division in FHA should be set up to prepare detailed plans for post-war private enterprise building. FHA architects, valuation experts and field men know more about local building codes and building conditions than any group of men in the country. They are in a position to be realistic about a post-war program.

4. The key and core of a successful post-war private home building program must be a liberal, effective, private financing plan. *American Builder* recommends that such a plan be drawn up by both private lending groups and by the Federal Housing Administration. Until the advent of war and the submersion of FHA under the National Housing Agency, FHA had done a remarkably effective job for private enterprise housing. It had the confidence and support of building men and it had the field staff and organization to function effectively with private builders.

A liberalized post-war finance plan should be prepared incorporating the successful pre-war FHA experience and adding to it features of war housing finance—including rental housing—that have proved workable or desirable.

During the war many builders have acquired experience in building rental housing under Title VI of FHA.

(Continued to page 93)

	\$2800	\$4800	\$5800
	house & lot	house & lot	house & lot
Monthly Payment When Sold on 10% Down Plan (Includes interest, amortization and real estate taxes)	\$19.00 per month	\$33.00 per month	\$39.50 per month
Monthly Payment on Lease-Option or Contract Basis—No Down Payment	\$24.00 per month	\$41.40 per month	\$50.00 per month
Rent	\$26.00	\$45.00	\$55.00
	per month	per month	per month

*Taxes, sales methods, financing details vary widely. Above table illustrates national averages, must be adjusted locally. Basis is a financing plan including a 10 percent down payment, twenty-five year amortized mortgage, 4½ per cent interest. Local real estate taxes are included at 1½ per cent of actual value of house and land.



MERICA'S BUILDERS SPEAK On Post-War Home Building

By Joseph B. Mason, Editor

AMERICA'S builders are busy now planning the finest houses the world has ever seen.

But their ideas about the kind of houses they will build are far different from the strange looking, weird, and sometimes utterly fantastic pencil dreams of a few industrial designers and revolutionary architects who have been getting so much publicity lately.

With this brief introduction, let me say that American Builder decided to ask the successful home builders of the country what their post-war plans are. More than 700 were questioned with letters, questionnaires and personal interviews.

In tabulating their responses, we have relied almost entirely on the judgment of men who have built and *sold* at least 100 houses in the past five years.

These men will fight to hold their business. They have land, money, experience, and will not be "caught with their plans down."

LETTERS from hundreds of

successful builders declare

they will fight to retain

their markets, using all the

new ideas, materials, prod-

ucts or construction meth-

ods that prove practical.

They are open-minded about new products, methods and ideas. They expect great things to come in the way of better home equipment and materials.

The stirring, stimulating conclusion of our reports from builders is that this industry is on the march.

Improved production methods, factory-built units, air conditioning, plastics, improved wood and metals, will contribute bit by bit to the better home of the future. Along with the better built home will come better planning of communities, more sun, light and air in the houses through better orientation, improved architecture.

These things are realities; they are within the grasp of millions of Americans who desperately want a better home of their own.

Don't take my word for it—read what American builders say. In each of the following, the name and address of the builder are given, and at the end, the number of houses he has built in the past five years:

Plywood, Plastics, Aluminum

THE most important and interesting thing about post-war houses will be new materials, such as plywood, plastics, aluminum and steel, which will be used to a much greater degree than ever before. These will be combined with traditional materials and new methods to speed construc-

NEWELL & DANIEL

Lake Success

TRAFFIC

J. B. TIFFEY

Aneric A Bull r and Bulling Ac-105 W. Advess Street, Chie .0. 11.

Garden Oaks

loth addregaed to Mr. Grain on from the City and the fa-

HOUSIDS TELLS

Garrell-Bromfield

a man builting his house

105 Heat Ada

tion, t differe better We packag

heating

It h public will n functi or bat IEL, 1 New Y

"Hon THE the m

war, equips the ho constr

HEALY (

WHAT BUILDERS SAY ABOUT POST-WAR HOME PLANNING

- I. "We have the land, the plans, the know-how for a quick post-war start."
- 2. "Open-minded on new ideas and methods—will adopt new or approved materials, equipment, as fast as put on market and tested."
- 3. "Expect plastics, plywood, metals, synthetics, packaged kitchen and bathroom equipment to vastly improve houses. Will add them bit by bit in evolutionary process."
- 4. "Public will want bigger, better equipped, more 'home-like' houses-a reaction against wartime 'shanty-towns' and regimentation."
- 5. "Pencil dreams, fairy stories and freakish publicity about post-war houses are doing great harm by causing buyers to wait for miracles that probably won't happen—or at best will take years to develop."
- 6. "Thumbs down on flat roofs or extreme modern-or on radical or sudden changes in home design. Public won't accept."
- 7. "Site fabrication, pre-cutting, greater use of factory-assembled sections or 'packaged' units will enable builders to give more house for the money and produce the best the world has ever seen."

tion, to produce a house not much different in appearance but definitely better than any built previously.

We will have more and better packaged windows, doors, kitchens, heating, baths, prefinished floors, etc.

It has been our experience that the public likes something different, but will not go for strictly modern or functional designs except in kitchens or bathrooms.-PORTER O. DAN-IEL, Newell & Daniel, Lake Success, New York. (400)

"Home, Bleak Home"?

THERE will naturally come, from the mechanical tempo created by the war, a great number of gadgets, equipment and mechanical aids for the home of tomorrow. But the basic construction will not change appreciably. We expect 70 per cent of our houses will be Modern Colonial. ried by the Men

The American home represents the spirit and soul of America; it will never become "home, bleak home" that the production line suggests. There was character and warmth in the crudest Colonial cabin for it expressed something of the spirit of the man who planned or built it.--ROBERT M. WATKINS, College Park Homes, College Park, Md. (260)

Improved

Production Techniques

WE expect to apply improved production techniques; also use of plywoods, plastics and improved equip-ment. We plan use of most efficient



litor

K

new They n the t and nclu-

ers is arch. hods. ning. etals, better h the better e sun, rough archi-

they ns of ant a

-read each d ad-, and ses he :

III III esting

vill be wood, which legree ill be terials struc-

EL

34

How Builders Vote on 1 War Homes	
% That Vo Voted Yes	6 That ted some or Maybe
Do you expect a radical	
change in your post-war home as to:	
APPEARANCE 1.9	3.8
EQUIPMENT	26.0
METHODS10.6	17.3
Do you expect to use any	
of the following prefab-	
rication methods: COMPLETE SHOP OR	
FACTORY PREFAB-	
RICATION	11.5
PARTIAL, SUCH AS	
USE OF SHOP-	
BUILT PANELS 14.4	18.2
SITE FABRICATION OF STANDARD SEC-	
TIONS	16.3
PRE-CUTTING OF	10.0
MATERIALS WITH	
POWER EQUIP-	
MENT	19.2
OTHER	5.8
What architectural type or style do you expect to start	
foaturing	
TRADITIONAL	1.9
SOMEWHAT MOD-	
ERNIZED STYLE53.4	8.7
MODERN	4.8
OTHER15.5	-

TABULATED results of post-war questionnaires sent to residential builders who have sold at least 100 houses in the past five years and are preparing to resume building after the war are shown in the chart above.

room sizes—modules—so as to employ standardized materials and thus produce maximum home value.

Will give careful attention to architecture to secure individuality and character. In addition to Colonial styles, we expect to feature California Modern and Monterey.— DAVID D. BOHANNON, San Francisco. (1950)

Fairy Stories by Visionary Designers



J. McC. MOWBRAY

THE sooner the public quits listening to fairy stories put out by visionary designers and ill-informed magazines, the better off both the public and the building industry will be.

There will be, I am sure, advancement in certain types of equipment, but there is nothing in this section of the country to indicate any trend away from the Colonial type house.

During the war houses of a design and quality have been built that will not be accepted by the public when they have an opportunity to make a free selection. A good many of the low-cost Title VI houses will show unfavorable depreciation, and there will be a definite trend to a more expensive and better built house.— JOHN MC C. MOWBRAY, The Roland Park Co., Baltimore, Md. (200)

Will Build Servantless Houses

I EXPECT to build servantless houses which will have a strong appeal to thrifty purchasers. They will have automatic electric heat, complete laundries, dishwashers, garbage disposal units, vacuum cleaning systems and any other practical conveniences that become available.

I expect to build about the same size, type and quality house as before the war (Modern Colonial). Will prefab door and window openings, pre-cut materials with power equipment as we did before the war.— STUART FONDE, Fonde Construction Co., Nashville, Tenn. (250)

Gladly Compete with Prefabs

WE will use power equipment to cut labor costs and will gladly compete with any prefabricated houses, as we know we can build for less and have a better looking house.—L. W. GERLING, Gerling Realty & Bldg. Co., Pine Lawn, Mo. (400)

Evolution in Kansas City

I STRONGLY agree that post-war housing will begin where it left off before the war, and that the improvements that come will be by evolution and not revolution.—J. C. TAYLOR, President, J. C. Nichols Co., Kansas City, Mo.

Accelerated by Plastics

CHANGES in post-war housing will be accelerated by new plastics, synthetics, etc., and eventually a profound change will take place, though it will be slow and take a good many years. We will pre-cut with power equipment, feature modern Colonial. -J. R. ELLIS, Houston, Tex. (100)

Not Building for Architects

I BUILD to please people, not architects. Three or four years of war won't make much difference in people's tastes.

I have 71 houses under way, and am super of the Army Air Forces Technical Training Command from 3:35 P.M. to 12:35, so have little time to plan anything but winning the war.

But after the war, we will start 100 houses, a few at a time; 3-bedroom, about 1250 sq. ft. Will pre-cut materials, use prefabricated cabinets; etc.; perhaps some plastics.

Finance companies, lumber yards, and lumber producers are getting ready to build after the war, and I am going to tie in with some of these types of operators to reduce costs.— PHILIP NORTON, Los Angeles, Calif. (300)

American Builder, May 1943.

Sectional Prefabrication

WE expect lower costs due to better and more intelligent management, sectional prefabrication, and standardized floor plans with varied exteriors. We always have pre-cut our materials, and expect some site fabrication. Probably will see real production of \$3,000 houses.—HER-BERT TOBIN, Chilton Homes, Waltham, Mass. (100)

Screwball Publicity Harmful



FRITZ B. BURNS

CRACKPOT publicity about the radically different houses of the future may kill the very thing the building industry is expected to do, which is to take up the post-war sag. If this type of publicity continues

If this type of publicity continues it will upset people planning to build —will make them delay and will thereby delay post-war revival of business.

These radical structures will certainly not be ready to be built right after the war, whereas improved but successful housing of the traditional type will be. The screwballs won't be ready to build but they can do a great deal of harm by causing buyers to delay, thereby harming the business of those who are ready and able to go into production right away.— FRITZ B. BURNS, President, National Assn. of Home Builders of the U.S. (3,000)

Precipitron, Partial Prefab

NEW products like the Precipitron (an air cleaner), and new heating and electric equipment are bound to influence the interior design of postwar houses. Prefabrication of addi-

Whose Money Will Be Risked in Post-War Home Building?

IT IS the builder, of course, who has to put up hard cash to buy land, install utilities and build houses. He is the one who loses if the job goes sour. Is he a conservative? Only to the extent that a product, an idea, or a house plan must be THOR-OUGHLY TESTED before he can risk selling it to a public which, as concerns home building, is very conservative.

Let the industrial designers and revolutionary architects invest some of THEIR money in freak designs, they say. A little practical, costly experience would do them much good. IN t ties" lear buil tom tern mist pea of 1 ly-s don and mai boo tha gau for the son lyh

a n the

tiona

close nook Bu the H poten take. main thou ably I Chic pres

NEI stru Mid

coui

PE and idea

y 1943.

o better gement, i stand. ed extecut our site fabeal pro-HER. Homes



but the the fuing the d to do, war sag. ontinues to build nd will rival of

vill cerilt right ved but ditional von't be n do a ; bûyers he busiind able away. nt, Nars of the

ab

cipitron heating ound to of postof addi-

tisked ding?

e, who to buy build o loses a conextent , or a THORhe can which, ing, is

tigners ects inney in A little ience od. tional units, such as wardrobes, closets, complete baths, breakfast nooks, etc., can be used economically.

IN the "Terrific Twen-

ties" many lessons were

learned by the mature

builders of today and

tomorrow. They are de-

termined that the same

mistakes will not be re-

peated-row upon row

of uninteresting, poor-

ly-styled houses; over-

done period designs

and freaks; unproven

materials sold in a

boom market; financing

that didn't stand up;

gaudiness substituted

for practical values. If

they don't go along with

some of the current bal-

lyhoo they may foresee

a new wave of grief in

the making.

20'5

Builders who actually will fashion the houses of the future will have a potent voice as to what form they take. We feel exterior lines will remain more or less traditional, although new products may be profitably used to enhance the appearance.

I propose a clinic or school in Chicago where manufacturers may present their products, with a brief course in their application.—L. H. NELSON, V.P., E. E. Olsen Construction Co., Pittsburgh. (400)

Midwesterners Conservative

PEOPLE here are very conservative and very reluctant to accept new ideas. We vote for Colonial or Modern Colonial design, not modern. Pre-

Say most of the drafting board dreams, publicity stunts and scientific miracles will not be available till years after hostilities cease. Will be ready to start with best of last housing built, use proven new methods and add improvements when they are put on market and tested.

Forward Looking Fonties

"For Progress; Against Radical Change"-Builders

BUILDERS are not reactionary nor are they radical. As the most important group in the building industry, they are, first and last, good business men and, as such, are forward-looking "middle-of-the-roaders." Nobody is more anxious to improve their product—homes—but they must know how their customers—home buyers—will react to any proposed change before accepting the novel. These men will determine what will be done in the 40's.

PERHAPS the "Stratospheric Sixties" will see some of the most violent dreams of today be-come realities. But dreams can't be built and sold until sketchy ideas become working drawings and hopes become specified products. Builders well know that progress comes out of invention and research, but at the same time they fully realize that years are required to accomplish revolutionary change. In the 60's there may be rubber houses, circular igloos, and homes that fly to the site.

fabrication may be accepted if it can be done cheap enough. I would like to see plastics used for plumbing fixtures.—H. MOLLGAARD, Wauwatosa, Wis. (100)

Pencil Dream Illusions Debunked

R. P. GERHOLZ



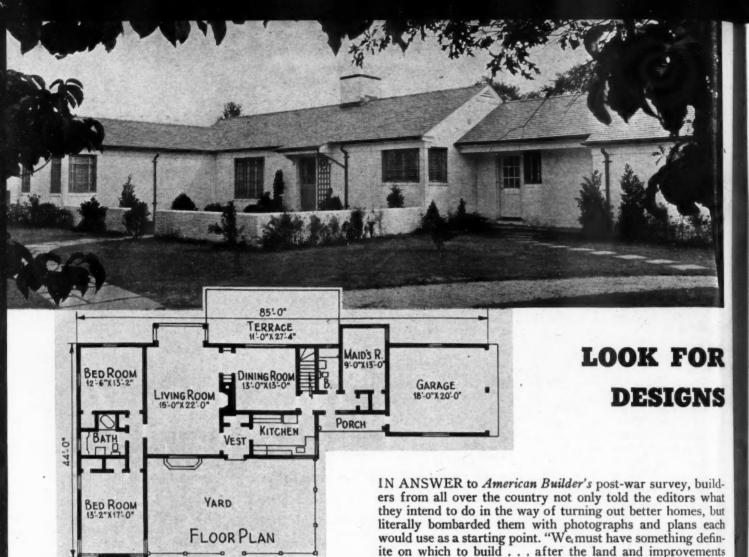
OUR post-war, low-cost homes will be project-built, using power equipment and partial site prefabrication. Essential saving will be done in the prefabbing of window and door We do not expect any radical changes in exterior styles, but expect considerable equipment improvement.

Pencil dreams of post-war housing now being spread through newspaper and magazine articles and, in some instances through advertising campaigns, should be debunked. Such designs will not become a reality for the mass market, if ever. until years after hostilities cease.

Unfortunately I am not one of the strange men whom God has endowed with a crystal ball brain, so it is difficult for me to plan trips to the moon or Mars via pen and paper.

Of course there will be changes in design and equipment—new materials—but these changes will be gradual.—R. P. GERHOLZ, Gerholz Healy Co., Flint, Mich. (250)

(Continued to page 64)



FORWARD-LOOKING STYLE. The trim appearance of the modern California bungalow above is in line with post-war trends; Henry W. Johanson. architect; it was built on Long Island by Walter Uhl.

ite on which to build . . . after the land and improvements must come plans that can immediately be turned into homes ... here are arrangements and styles found best among the last built . . . not frozen for the duration but are being revised to keep up with any current improvement." That briefs the comments; here are four homes from hundreds sent in. B

P

Sı

ni

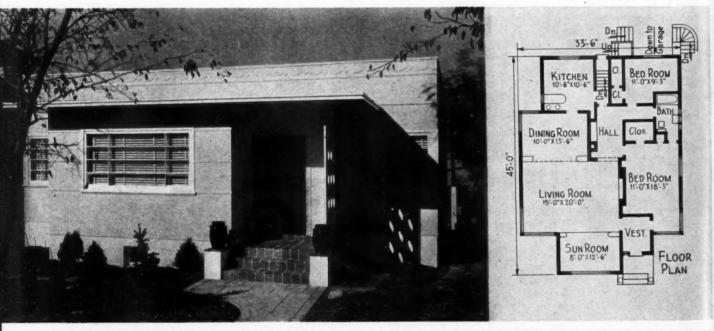
th th

ce in

st

th

te



EXCELLENT PLAN. From Regina. Saskatchewan, comes this very well arranged 5-room design—the work of W. G. Van Egmond, architect, as his own home. Note excellent circulation of the open plan; large window areas; house of dry-wall construction.

NORTH. EAST. SOUTH. WEST — BUILDERS VOTE FOR PROVEN HIGH QUALITY HOMES

DR

NS

build-

what

s. but

each

defin-

ments

es . . .

e last

sed to

is the

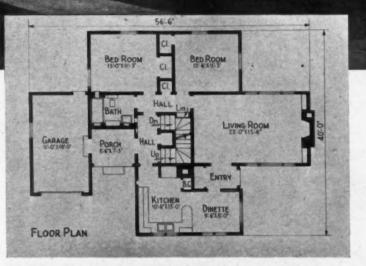
R

G. Van

truction.

BEST OF PRE-WAR PLUS IMPROVEMENTS

Survey shows that the home planning now being done by builders for the post-war market will be based on those designs that had been most successful. Latest developments are being carefully studied, as will those still on the way, to assure buyers that waiting years for good homes of tested merit will not be necessary.



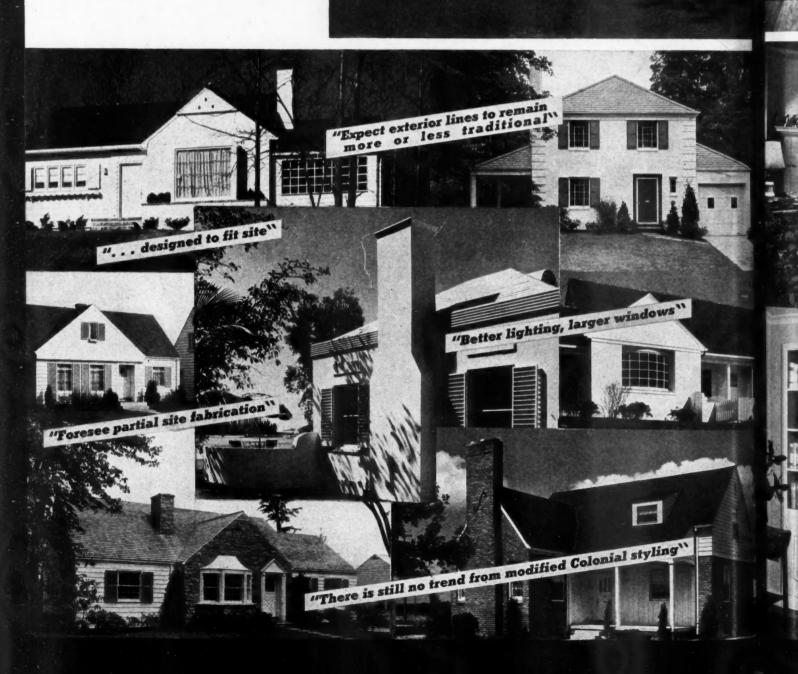
DIGNITY AND CONVENIENCE. This home in Ohio illustrates a two-fold objective ahead—clean-cut, simplified style and an up-to-date arrangement for post-war living. It was designed by E. L. Baker, and built by Fred Zarend. Highlights are the separation of living, sleeping and service portions of the house which are conveniently grouped around the stair hall; note the combination kitchen and dinette which can be closed off from the rest of the house; windows on two sides of the living room with traffic kept at one ends service porch connecting house and garage; ample storage.



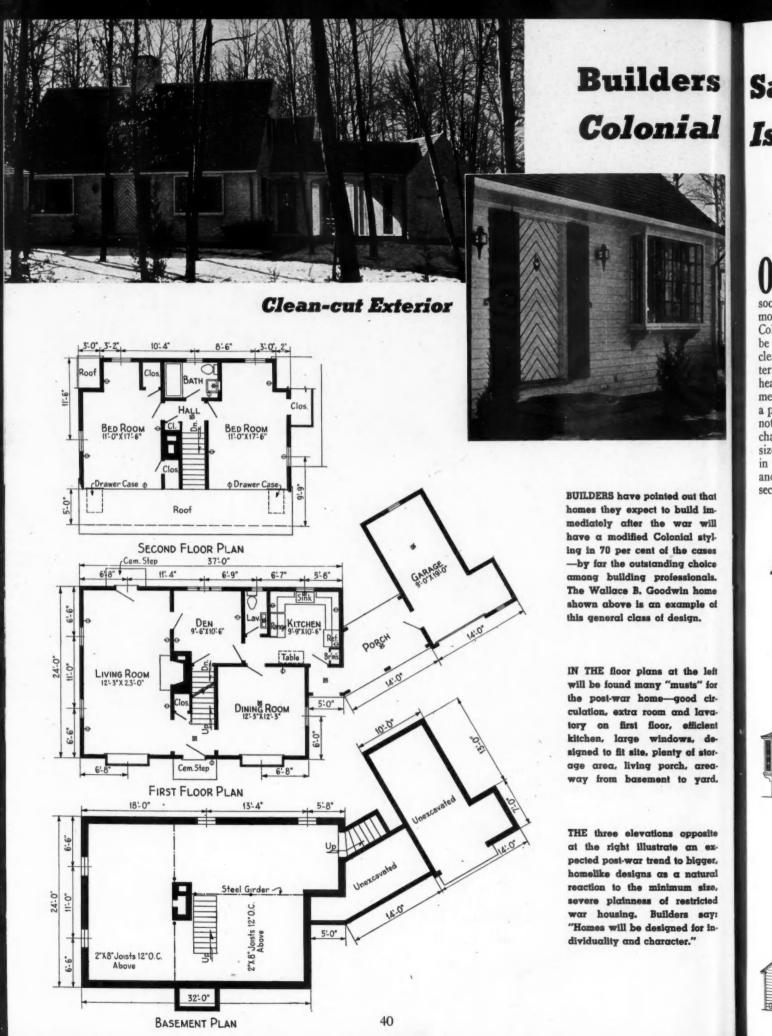
4

Crain's Garden Oaks subdivision, Houston, Texas, come these attractive small homes with a future. They are two of a group which combine variations of exteriors for a limited number of similar plans. These small homes are high in quality of design and construction and topnotch value; different materials are effectively used. BETTER LOOKING HOUSES WILL COST LESS

Builders'expect that, with the aid of new techniques and new products developed in these war years, they will be able to deliver a more attractive, better planned and better equipped home for less money. As a group, they do not expect pencil dreams to become immediate realities; a few years won't greatly change people's tastes, they say.







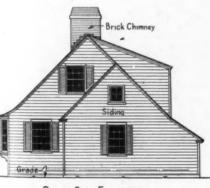
BE READY FOR THE HOME BUILDING WAVE OF THE

FUTU

Say: ``Modified Is Top Choice''

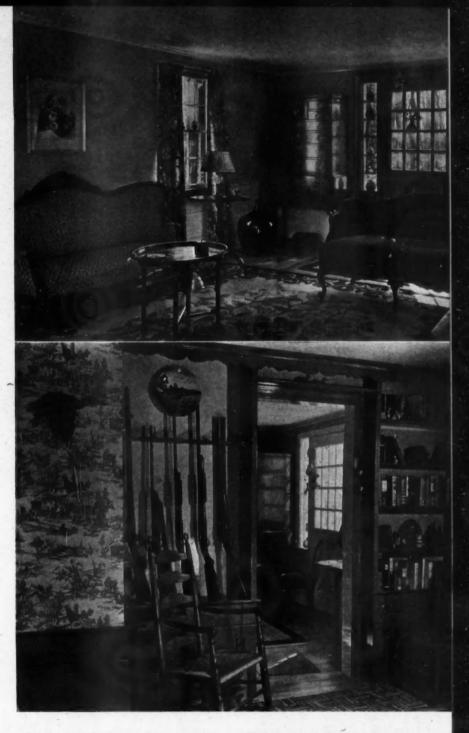
F ALL the various types of styling, builders are in agreement on the choice that will be most popular as soon as building can be resumed; the most salable basic designs will be of Colonial inspiration. Of course, this will be modified to allow larger windows, clean-cut exteriors, functional plans, interiors that are adaptable to the newest heating, ventilating and electrical equip-ment. Pre-assembly is expected to play a part in post-war building, but this will not necessarily call for radical design changes as floor plans can be of such sizes as to allow efficient use of modules in the form of pre-built panels for door and window openings, wall and roof sections, and larger units of wall finish.

Livable Interiors →



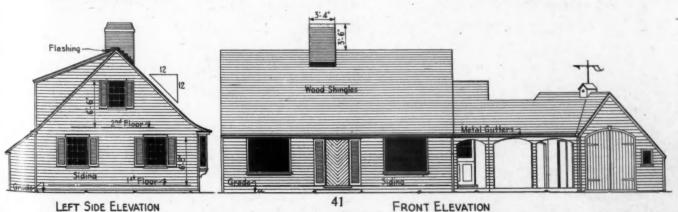
RIGHT SIDE ELEVATION

BUILD



ABOVE are two of the livable rooms in one of Wallace B. Goodwin's Woodridge homes near Hartford. Conn., showing how he has combined charm and individuality with a modernised Colonial styling. Note the horizontal wainscot, doorway to rear terrace from living room, built-in cases and attractive cornice board. Here are post-war ideas that are worth adding to your files.

OF POST-WAR DESIGNS



r will l stylcases choice onais. home ple of yn.

it that ld im-

rs

al

te left is" for id cirlavaficient i, deif storareayard.

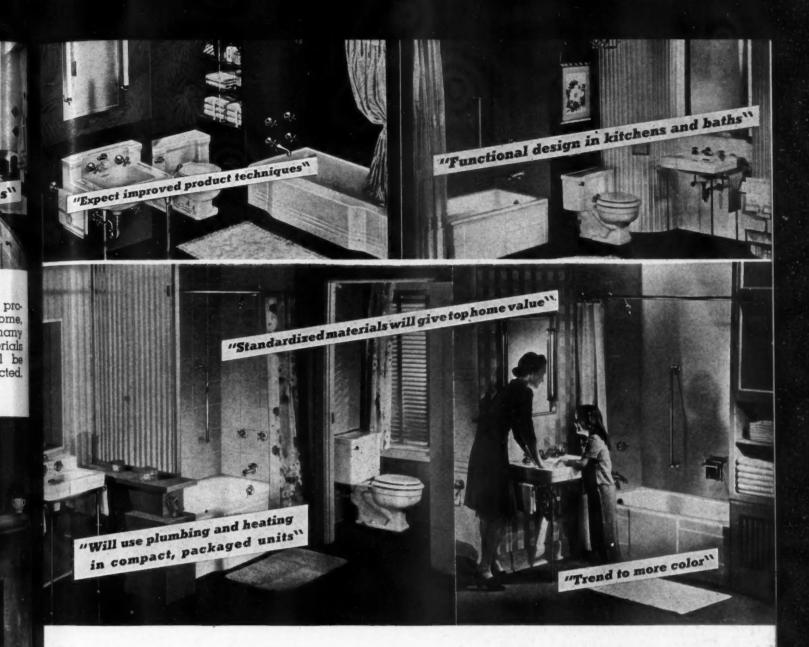
posite m exbigger, actural size, tricted say: for in-



KITCHENS—BUILDERS FORESEE:

"Kitchens as production centers in the home to be better planned and equipped, more livable, reduce work." The kitchen is scheduled for one of the most pronounced changes of any portion of the post-war home, according to the consensus of builders. Here many products of wartime research, including new materials and new items of finish and equipment, will be used. Standardized, factory-built units are expected



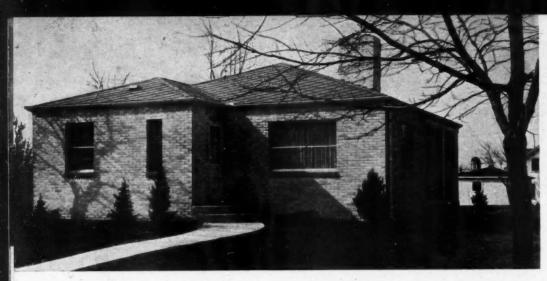


BATHS-A MAJORITY OF BUILDERS SAY:

"Baths will be designed for new materials, for greater convenience; we will install the best tested equipment." Plumbing and heating equipment design changes are also expected by builders. They anticipate preassembled, packaged units will be available to give greater convenience in the bath at reduced cost. Of new materials, including plastics and lightweight metals, many will find use in glamorous bathrooms.







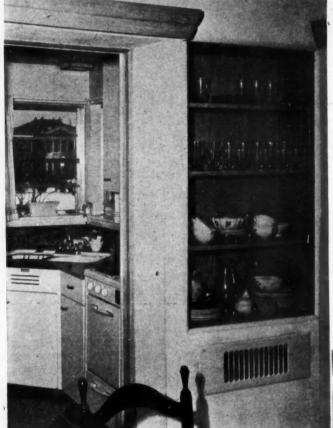
"OUR SMALL

Ameri

HO

44

Builders agree, small homes will have added comfort through improved quality in equipment



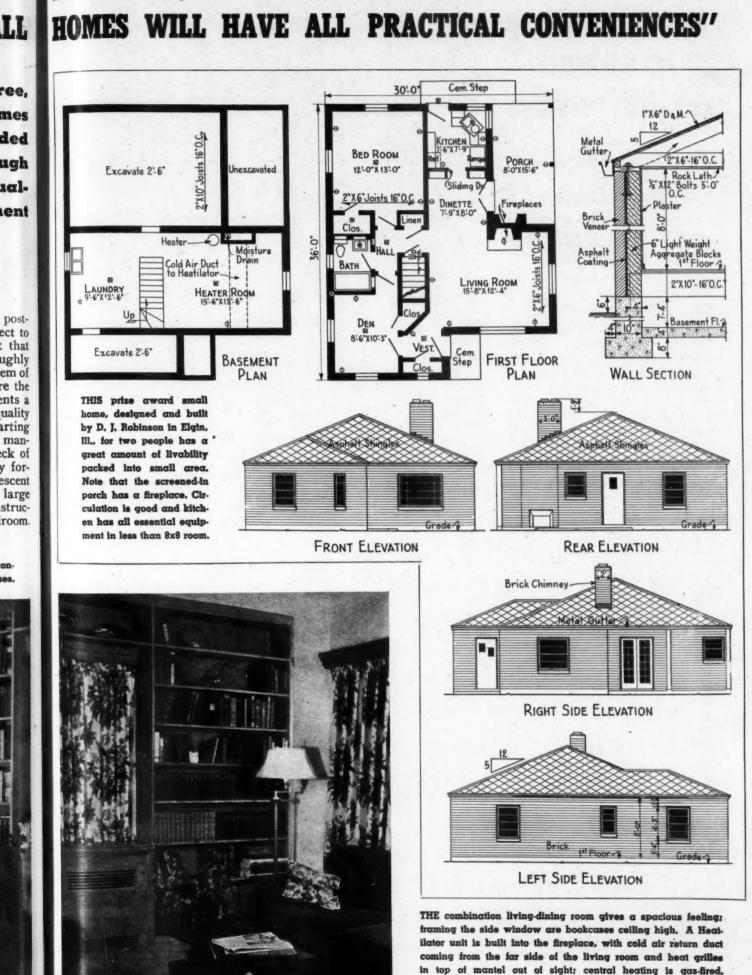
"Exterior Lines to Remain More or Less Traditional"

> ONE of the findings of American Builder's postwar survey was the fact that builders expect to install all practical convenience equipment that becomes available after it has been thoroughly tested and proven to have salability. This gem of a little home, designed and built just before the war by Don J. Robinson, Elgin, Ill., presents a preview of a typical small home with quality equipment which should be a post-war starting point. It is styled in a clean-cut modernized manner with a Swedish Modern flavor. A check of the illustrations and plans will reveal many forward-looking features: open plan, fluorescent lighting concealed in the valance heads; large aluminum double-hung sash; insulated construction, combination pine-paneled den and bedroom.

HIGHLIGHTS shown here include glass-enclosed cupboards, convector, space-saving sliding door, picture window, built-in cases.







45



BETTER planned home communities will play an ever greater part in the post-war building era.

Builders have come to realize that automobile traffic and changed living conditions require new and improved community planning. The lives of future generations of children are at stake. Experience has also clearly shown that unplanned, uncontrolled and inadequately restricted communities of the past have depreciated far too rapidly.

American Builder felt that rather than get the opinions of inexperienced, impractical or too idealistic land planners on this subject, it would interview the one man who has done more than any other in this country to perfect a thoroughly successful well planned community.

successful well planned community. This man is Hugh Potter, president of the River Oaks Corporation of Houston, Texas, and recently elected president of the Urban Land Institute.

Twenty years ago Potter set out to assemble 1200 acres of raw land in a city which had no building code and therefore no protection for community values.

Today River Oaks is almost complete—a beautifully landscaped, carefully laid out, fully protected community of schools, churches, apartments and houses in a wide range of prices. It has an outstandingly successful shopping center, which will be described in next month's *American Builder*.

A few years ago River Oaks added a carefully laid out rental housing project of garden type, as pictured above. This too has been most successful and has been 100 per cent rented. It may serve as a pattern of the future for private rental housing..

After 20 years of progress at



BIRD'S-EYE VIEW of River Oaks, Houston, Texas, with garden apartment project in foreground.

River Oaks, Hugh Potter is more than ever an advocate of sound community planning, land use regulations, architectural control and neighborhood maintenance. He points out that aside from the human sentiments and values involved, everyone benefits by stable realty and property values. River Oaks has been selected by the Urban Land Institute as the foremost example in this country of sound community planning and as a pattern for study by future community builders.

Listen to what Potter says about his experiences at River Oaks:

Land Use Regulations

"We were able to accomplish good land use regulations through deed restrictions. The public desired this kind of protection and our deed restrictions, contrasted with the absence of zoning in Houston, gave us a potent sales argument. With the development of each new section of River Oaks we have revised the deed restrictions and each time we have improved them.

"Land developers would be unwise to depend upon zoning alone, for the net results in worthwhile land use regulation under zoning ordinances are not as considerable as the control brought about through deed restriction.

Architectural Control

"Our deeds provide for architectural control in very general language. I can say from experience that this type of control is exceedingly difficult to establish and exceedingly difficult to administer, principally because architects are inclined to disagree with each other.

"We began by establishing a committee of three architects to approve plans, and this resulted in undue delay. Invariably the architects would not agree on what constituted good architecture. The method was revised by creating a committee composed of one architect, one engineer, and one so-called "practical mind" to make the decisions. Difficult as it may be, architectural control is essential to good neighborhood building.

"The River Oaks Corporation has established a maintenance fund which provides for the upkeep of streets, parks and other public property within the development. The pears at

SHOPPIN

HUGH P Corporati

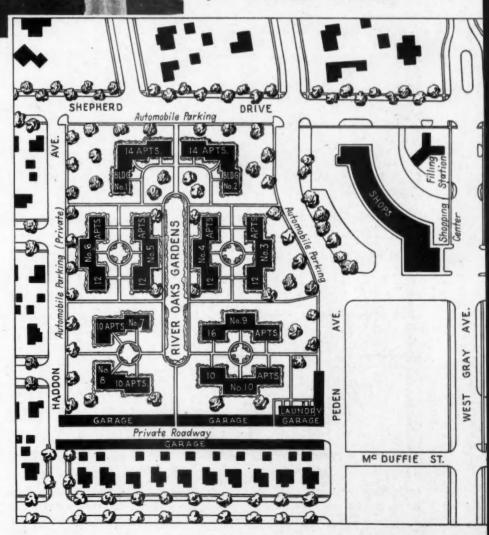
provisio and is a The fu garbage parks, o plement police o "The \$50,000 tered b staff. makes propert not pr dwellin improv.

WILL POST-WAR COM-**MUNITIES** be safe for children—protected against deterioration -planned for modern living, modern traffic?

47

Here is a practical pattern for the future -**River Oaks of Houston.** the result of 20 years of orderly growth in a city without zoning laws.

SOUNDLY PLANNED and carefully drawn restrictions set up 20 years ago have resulted in this beautiful, livable, home community where property values are highly stabilized. The garden type apartment project in center has been highly successful and also the skillfully laid out shopping center at right. Homes on broad, well landscaped streets, range in price from \$8,000 to \$50,000.



SHOPPING center with ample parking apears at right in the above illustration.

oning ble as rough

chitec-1 lanrience eding-



1 conghborration fund ep of prop-The



HUGH POTTER, president of River Oaks Corporation and of Urban Land Institute.

provision is written into every deed, and is secured by a lien on the site. The fund is also used to collect garbage and refuse, to maintain parks, clean the streets, and to supplement the work of the Houston police department.

"The fund now amounts to about \$50,000 annually and is administered by a capable engineer and his staff. The developing company makes its annual contribution on property that it still owns. It does not provide for maintenance of dwelling structures and other like mprovements.

48

ENTRANCE TO River Oaks garden apartments is through this arched opening, framing a view of broad, well landscaped areas between buildings.

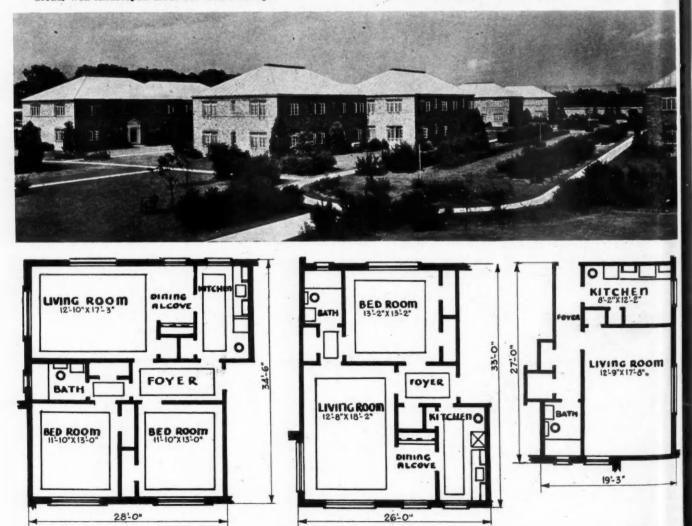
American Builder, May 1943.

NEXT MONTH—An article on River Oaks shopping center, as part of a leading editorial feature "Commercial Buildings of Tomorrow."

The Metropolitan Area Problem

"There are about 15,000 people in what is known as the River Oaks area. When the development of the original 1200 acres got under way, other developers, seeing that it was succeeding, came into the territory and built around the edges. The population of River Oaks proper is over 5,000 people. As the property has been developed it has been taken into the city limits. We developed about fifty acres at a time, installed the utilities, and when the work was completed the area was annexed by Houston. Thus no metropolitan area problem was created. River Oaks is not only a part of Houston socially and economically as are other suburban communities, but it is also an integral political part of the City as many of the other subdivisions you study are not.

"Annexation is probably not the answer to the metropolitan area problem of some communities. In some situations it undoubtedly is the answer. The existence of numerous municipal units within a single urban community, operating as they do without coordination, has given the country one of its most severe urban problems. A high degree of unity of the metropolitan area is basic."



FOUR AND ONE-HALF, three and one-half and two room apartments are featured in River Oaks Gardens, with rentals ranging from \$37.50 to \$75.00 per month. Buildings are grouped around attractive landscaped courts. Garages are grouped in one end of project. Project has been 100 per cent successful; indicates a workable pattern for post-war private rental housing.

DLHBW

Am

Ai ec W Po or Fo

> iti Re

ers, its hou val man thr the the exa sho the F tive Bir dou tha

> Titl bui what a r dev city ord hou not con mo

vid

car the an 1943.

pping Com-

as the riginal that it tround s over it has at fifty work Thus Oaks nically an iner sub-

metrosome ence of n comon, has oblems. basic."

n

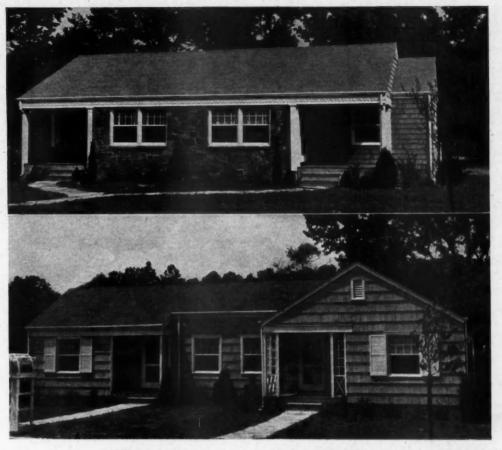
mod

ging from of project.



American Builder, May 1943.

Attractive ProjectsDevelopedfor War Housing Point Out Economies of Two-Family Construction and Possibilities as units for Rental Housing

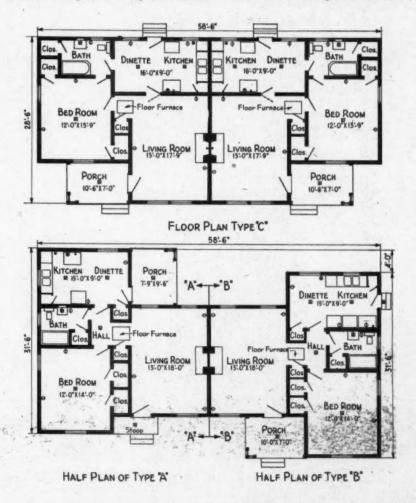


UNDER the twin pressures of the various war restrictions and the constant demand for houses to rent to war workers, the two-family unit has redemonstrated its possibilities as an economical means of housing. That charm, variety and high value appearance have been designed into many of the groups of such units scattered throughout the country calls attention to the careful study which has been given to the duplex in the past few years. A typical example of this progress is the type unit shown here; it will undoubtedly be part of the pattern of post-war housing.

As on other similar projects, two objectives guided Shepherd-Sloss Realty Co., of Birmingham, Ala., in their recent 36-unit double bungalow apartment development in that city. First, there was a desire to provide an acceptable housing project under Title VI for war workers. Second, the builders were actuated by a desire to create what would prove a sound investment from a rental standpoint after the war.

To comply with the first objective the development was located on the side of the city most convenient to workers in an ordnance plant some 35 miles away where housing for the better paid employees was not available. The houses rented as fast as completed to these workers at \$50 per month per apartment.

To meet the second objective the utmost care went into the design and location of the houses. They occupy the grounds of an old riding academy and are adjacent to (Continued to page 94) THE two duplex units above were built under Title VI to rent to war workers by Shepherd-Sloss Realty Company of Birmingham, Alabama. There were 36 units in the project, using combinations of three basic floor plans, below.



49



New Procedures, Standards Speed Up War Housing; Ask for 250,000 Units This Year

JAMES H. MARCH, Tacoma, Washington, is building for rent under WPB regulations. He is a Director of National Home Builders Ass'n.; believes builders still have job to do.

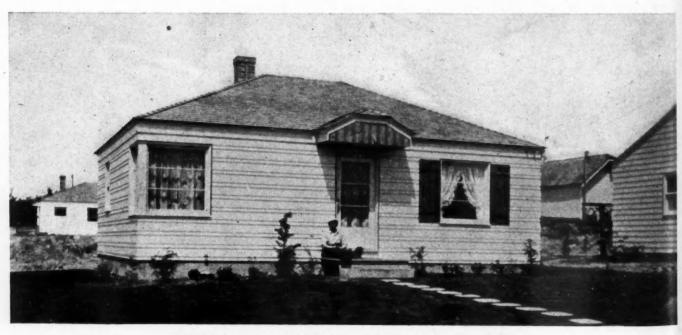
EVER since WPB restrictions of last October curtailed private war housing, builders have been doing their best to adjust their operations so that the job might continue. However, there have been revisions and additional priorities, particularly recent ones, which have gradually made conditions more favorable (see news stories in this issue). Some builders who may have temporarily been out of the field will probably want to start again this spring, while others who stayed on the job can now proceed with more assurance.

One of this latter group is Jim March of Tacoma, Wash., head of the March Construction Co., Inc. Up to last fall he had been actively engaged in building good little homes for sale in the up-to-\$6000 class, and they had been promptly snapped up by the higher type of war industry workers in the Tacoma plants.

With a population jump in the past two years from around 100,000 to a recent count of 160,000, the city was full to overflowing and the housing need was really critical. Public housing in quantity was threatened—and undertaken. New regulations and restrictions were making it constantly harder to carry on private building.

Still, patriotism and a fighting spirit to stay in business urged March ahead. He consulted with FHA and WPB local directors and developed a plan for building small homes for rent; and a total of 108 units has been scheduled, with a number already built and occupied. They are located in various parts of Tacoma on lots previously developed and lost for taxes, now available on reasonable terms from the tax foreclosure authorities.

The construction of these rental houses had been of the simplest, conforming to WPB standards, both as to square foot floor area and use of materials. They are 4-room, 2-bedroom and bath houses, in size 30 by $23\frac{1}{2}$ feet; floor area 705 square feet. By making the house width $23\frac{1}{2}$ feet instead of 24 feet, March explains, 12-foot 2x8'' joists, 16 inches on centers, can be used, lapping 6 inches on the center girder.



and e indica

TWO

POW

Ameri The

are strinclud with to over the is of

nailed center Ceilin inch

or so 15 po

The

943.

ar

tric-

on

HA

for

nits

and

oma

now

been

1 as

are

31/2

ouse

ins, sed.

in in

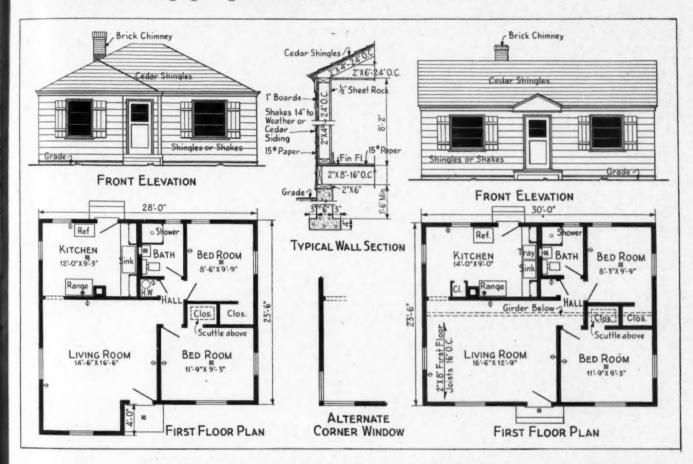
These houses are without basements; outside walls are stud framed, 2x4's on 24 inch centers. Inside finish, including ceilings and partitions, is $\frac{1}{2}$ -inch Sheetrock with taped joints; outside finish is wide cedar siding over 15 pound building paper and wood sheathing, or is of red cedar shakes laid 14 inches to the weather, nailed to 1 by 3 inch horizontal strips, 14 inches on center and covered with 15 pound building paper. Ceiling joists are 2x6's, rafters 2x4's, both set on 24 inch centers. Roofing is of red cedar shingles laid 5 inches to the weather. Flooring, either of hardwood or softwood, is single thick laid on floor joists over 15 pound building paper.

The March construction gang is organized into crews

to handle definite parts of the work on each house. All framing lumber is cut to length on a power saw set up at a convenient location. A light truck is kept busy taking the cut-up framing lumber from the saw to each building site.

These little homes are stove heated, the tenant furnishing stove and fuel. A kitchen range is, however, provided. Kitchen also has built-in sink and laundry tray, backing up to bathroom plumbing of toilet, lavatory and fiber-walled shower cabinet.

Construction costs figure close to \$3,000 for each house on a 50 by 120 foot lot. Rental is \$37.50 per month. Financing for these March houses is FHA insured under Title VI.



TWO STANDARD plans are used and exterior details are varied as indicated in the elevations above.



POWER SAW and one man cut all framing lumber to length on the job.

.

This Little House Goes to Market?

Developed as a prefab method for war structures by the famous research engineer, William B. Stout, Thermal Unit Housing System may fill post-war market needs for small houses, farm buildings, small stores, garages, etc.

WITH many systems of pre-assembly and special construction having been developed as tools of war to meet the housing and production problems of both the armed forces and civilian life, the question arises as to what will happen to these developments after the war. Many of the manufacturers and designers of these war-born systems look to the vast post-war market for purchasers of low-cost housing, farm buildings, commercial and industrial structures.

One of these is the producer of a prefabricated, climate-proofed, demountable dwelling that is now being built by Stout Houses, Inc., Detroit, for war workers. They are delivered completely equipped and ready to be set up for instant use. At any time they can be demounted for re-erection in a new location. Designed by William B. Stout, noted research engineer and designer of airplanes and automobiles, these dwellings were first developed for United States armed forces. They've proved their all-weather adaptability in Uncle Sam's service. These Stout Thermal Unit houses withstood temperatures ranging from 73 degrees below zero to those of tropical climates.

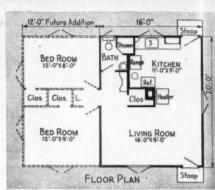
For post-war use new possibilities are being worked out for these assembly-line homes. Their all-weather design features a patented thermal panel as a barrier against temperature extremes.

Panels, packed like slices of bread for delivery, are made of double-thickness insulite with dead air space in between, permanently sealed in a rugged wooden frame. In construction they're locked together with a special joint to assure absolute weather-tightness.

A braced insulite roof capable of withstanding 42



BUILT by Stout Houses, Inc., Detroit, the above model was demonstrated as a war housing unit. Basic plan indicates how a bedroom extension can be added on later.



THE bath in these compact little prefabricated and demountable units is equipped with a Weisway shower. Below, is an interior view of the combination living room and kitchen; Stout expects to turn out these compact lowcost housing units for \$1,000 after war.



STOUT wall sections being built in the M & O Paper plant showing Insulite being attached to both faces of the built-up panel frames.





Ame

with oil of as eas

Th of 16 at a extra In in v

> built sink lavat roon W are

> > sign Hou Fi war are Si moo mill

1943.

pounds pressure per square foot, more than double normal requirements, adds strength to the house.

Weighing slightly more than 3,000 pounds, complete with gas stove, ice refrigerator, automatic hot water heat, oil or coal heating unit, cupboards and electrical wiring, the dwelling can be set up in a few hours. And it's just as easily taken down and packed for transportation.

The Stout house is built in an original basic unit size of 16 by 20 feet. It is so arranged that one or two rooms at a time can be added as family needs increase, at little extra cost or inconvenience.

Interiors feature compactness and livability. Finished in various shades of insulite, the dwellings, now being built for war workers, contain a kitchen, complete with sink and other necessities, a bathroom equipped with lavatory facilities, including a shower bath, a dressing room and a 9 by 16 foot living room.

Well-ventilated, with plenty of window space, the floors are of hardwood, also insulated. The dwellings are designed to gain a maximum of living space and efficiency. Housework in these homes is cut to a minimum.

Further innovations and refinements now impossible in wartime will be added when peace comes. Now the houses are completely constructed of non-critical materials.

Shown for the first time at the Detroit Builders Show, a model home attracted wide attention from lumber dealers, mill representatives, building contractors. Thousands of



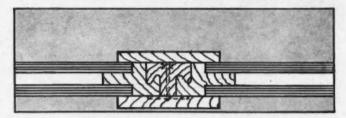


inquiries also were received.

This type of post-war housing may open many possibilities in the building field. It is easily adaptable for farm buildings, g a r a g e s, small stores, tourist cabins, summer cottages, club or guest houses and e m p l o y e e housing.

THE corners are preassembled and fit into place on the sill, as shown in the upper illustration at the right. Metal clips attached to base member to hold panels to sill and together at the joints.





PARTS of a Stout thermal unit house ready for erection (above) and detail of panels showing how they interlock at joints.

More than 7,500 Stout units have been constructed for the armed forces, ranging from 180-foot barracks, large headquarters buildings, hospitals, warehouses and airplane hangars, down to small portable two-man hutments.

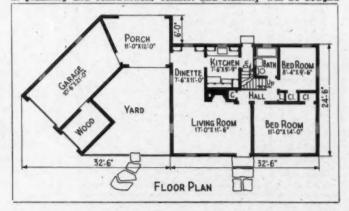
Already proved thoroughly practical from a standpoint of weathertightness and efficient construction, future of these houses presents a new avenue in building.

FRONT COVER HOME





THE insulite surfaced panels are easily slipped into place; workmen here are starting at the corner with the first wall panel. (Note how bottom fits into grooved, built-up plate.) THIS peaceful Lexington, Mass., home designed by the well-known architect. Royal Barry Wills, is typical of expected post-war quality in planning and construction; comfort and stability will be sought.



53

Am

F

m



Maintenance, Repair Are Top Jobs Today

Here is a collection of craft pointers that will come in handy on a wide range of work.

shown below, or a new wood sash ventilator used. Only a

minimum of critical materials is usually required on such

replacements, as the chases can be built up of almost any lum-

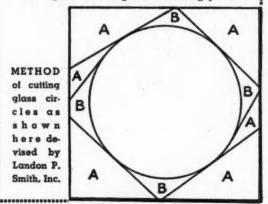
How to Replace Industrial Sash with Glass Block Panels

WARTIME replacements of metal sash are generally difficult, and glass block panels can frequently provide ready, economical substitutes. In some cases the ventilating sash member can be salvaged from the original, and inserted as

IN installing glass block replacement panels, after the old sash has been removed, the block is laid up as shown at the right. Before starting the base course, the height of the opening should be carefully measured to make sure courses will come out right at the head. If adjustment is necessary, the sill can be built up with brick or channeled out of existing masonry. Adjustments in width of the panel are most easily made in the chases which hold the panel in place.

How to Cut Circles in Glass

IN these days of shortages of specialists it is sometimes necessary for the average craftsman to replace a piece of circular glass; here's how you can cut one. After making a clean, even cut with a Red Devil circle cutter, use a regular cutter to make the straight cuts shown in the diagram below. No straight cut should meet the circle cut at angles greater than 23 degrees, or run into the circle. Break away the pieces starting from the upper right corner, and continue counter-clockwise until all "A" cuts are broken off. Then follow with the first "B" section, and continue in the same way. Tapping glass under cuts until it cracks lightly and using breaker notches in cutter will insure against breakage in the wrong place.



How to Surface Concrete and Salvage Form Lumber

ber if metal is not available.

IN converting factory buildings and basements to war use, it is frequently necessary to prepare concrete walls for direct application of finish, such as cement, casein or oil paint. If the concrete has been poured, rough projections were probably left when the forms were stripped. One of the easiest ways to obtain a smooth surface is to use a power grinder, as shown at the right. This saves much hand work and time.

With lumber as scarce as it is, there is a salvage possibility right in line with the above described operation. The same tool fitted with a circular sanding pad can be used to resurface and salvage old concrete forms.

IN the illustrations to the right, workmen are using a Mall Jack-of-all-Trades units to surface concrete and form lumber.



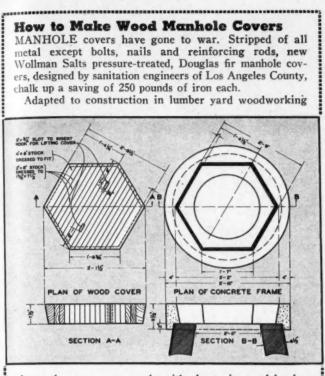
43.

r

ft

in

k.



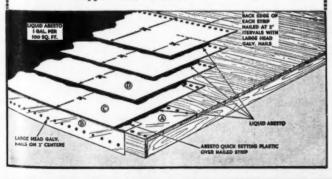
shops, the covers are made with short pieces of lumber that normally would be discarded. Covers may be fashioned in either hexagonal or circular shape depending on the kind of shop machinery available. Plans call for nailing 2-inch by 8-inch laminated strips with four 20 penny nails to each strip and running at least two 3%-inch bolts through all members, countersinking both bolt ends. Where it is difficult to secure nails and bolts, wood dowels and waterproof glue may be used.

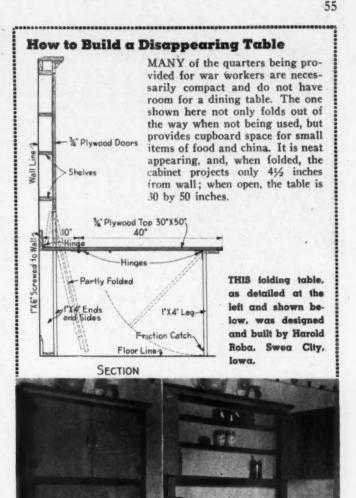
Circular covers of laminated wood can be turned out in one operation on the tilted table of a bandsaw. Hexagonal covers may be fabricated with a more limited amount of equipment. Cost of covers varies locally.

The hexagonal cover detailed above is $37\frac{1}{2}$ inches overall diameter and is $32\frac{1}{2}$ inches between opposite faces. Faces are $18\frac{3}{4}$ inches. Two lifting slots, each 3 inches by $\frac{3}{4}$ inches, are set in 8 inches from the opposite corners. Weight of the metal-bound cover is approximately 130 pounds; dowel cover weighs slightly less.

How to Put on a Cold Application Built-up Roof

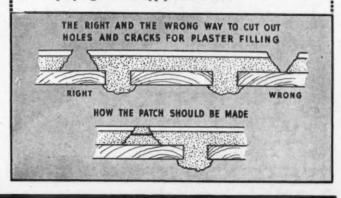
IN THE illustration below is shown the Abesto method of putting on a built-up roof when the outside temperature is above 60 degrees. The rolled roofing to be used should be unrolled and cut into 12-foot lengths, turned over and allowed to flatten prior to application, then re-rolled in the opposite direction. After material is put on as shown, with an in-between layer of this asphalt product, the entire surface should be rolled to insure a firm bond. Then with a squeegee as a spreader, the top coat is put on by spreading the necessary amount of this cold application surfacer.





How to Patch Plaster Properly

TO patch plaster properly for painting, the procedure is very simple but all too frequently cracks are merely widened on the surface and a little patching plaster knifed into place. Below is shown how a crack is properly patched. After being cleaned out to the wedge shape illustrated, the opening should be soaked with water and filled with patching material to within an eighth of an inch of the surface, and allowed to set for a while. Groove this plaster with a knife to form a key for the finish coat. Spray, and allow to stand overnight, then spray again and apply finish coat.



HOW TO DO IT . HOW TO DO IT

56

HOW TO DO IT

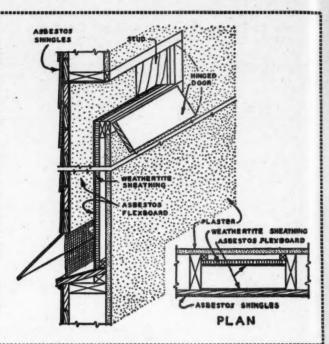
Farm Building Ventilation

In the old days barn ventilation was automatic through the cracks of the boards in the barn, but where tighter construction is being used to create warm buildings in which increased farm animal production can take place, ventilation has to be provided. Many barns troubled with moisture condensation and rotting sills can have their difficulties eliminated by the construction of proper ventilating intake and exhaust units.

The illustration at right shows the construction of such an exhaust unit, as recommended by the agricultural engineers of Johns-Manville. As heat is the element upon which ventilation systems are dependent for proper operation, it will be noted that the construction of the natural draft intake ventilator shown has the outside opening lower than the opening on the inside. As the warm air rises its forces a natural draft to be created which brings the colder fresh air in from the outside.

When insulating a barn, or where barn insulation is causing condensation trouble, such a simple unit or a group of such units will eliminate trouble.

Flues should be as straight as possible, sharp bends avoided, but all flues should be equipped with fireproof dampers that can be closed quickly in case of fire, as these intakes act very much as chimneys.



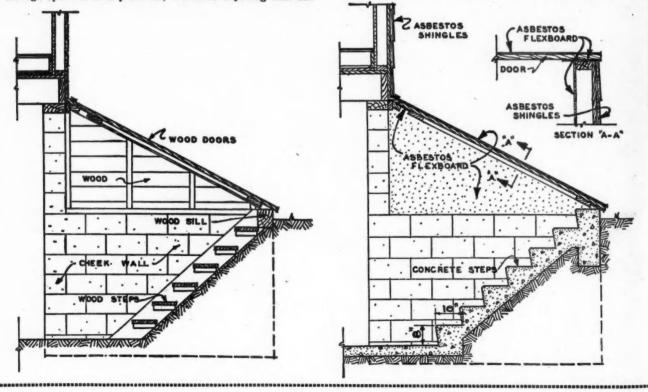
HOW TO DO IT • HOW TO DO IT • HOW TO DO IT • HOW TO DO IT

Ratproofing Cellarways

Below are shown two illustrations of cellarways which are similar. At the left is the conventional cellar construction showing no protection against rats and at right is the rat-proof permanent type of cellar. Cellarways with wooden steps, sills and earth floor are usually a source of rodent trouble that results in heavy losses to produce stored in the cellar. The sill soon rots or the rats burrow under it to gain entrance. The remedy is to construct the cellarway and floor from concrete.

Since labor has been a problem on the farm, a job for contractors is rebuilding cellarways as detailed at the right. Wooden stairways are not unusual on a farm and storage space is at a premium, therefore anything that can be done to prevent rodents from stealing the food stuff stored, is a patriotic effort.

Cellarways are just one of the ratproofing possibilities on a farm. Rat breeding places are usually beneath wooden floors in barns, stables, corn cribs, granaries, poultry houses, in piles of fuel, wood, lumber and refuse, beneath concrete floors without curtain walls; inside double walls of buildings and in hay and straw piles. The first step in ratproofing the farm is to clean up possible harboring places, and then pay special attention to each building. An incinerator for burning all trash, as well as deep covered pits to take non-combustibles; a tightly covered garbage can for the kitchen, is a big help. Ratproofing our farm buildings is a job that must be done by someone familiar with construction.



Amer

White On The BOND WAGON NOW

HOME PLANNING FILE

1943.

NG

IT

uff

on

en es,

ete

gs he

ay n-

m-

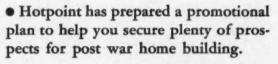
is

a BOND WAGON Drive for Builders

BUY WAR BONDS TODAY—and save for home building tomorrow—is the theme which keynotes Hotpoint wartime advertising. It is making millions of Americans want new homes after Victory—truly modern homes with Hotpoint Electric Kitchens.

a Plan to Create "POST WAR" Prospects

AL ADVERTISING



57

The entire activity is outlined in the "Bond Wagon" Plan Book, especially prepared for the building industry. Included as part of the program is the unique Home Planning File, which has proved eminently successful as a prospect getter.

Get all the facts about this forwardlooking wartime program now. Send the coupon below for your copy of the "Bond Wagon" Plan Book and free sample of the Home Planning File. Edison General Electric Appliance Company, Inc., 5641 West Taylor Street, Chicago, Illinois.



For outstanding 1) achievement in War Production



GET ABOARD TR

REFRIGERATORS • RANGES • WATER HEATERS • WASHERS AND IRONERS CLOTHES DRYERS • AUTOMATIC DISHWASHERS • ELECTRASINK • STEEL CABINETS

A MAIL THIS COUPON FOR FREE SAMPLE

This coupon attached to your business letterhead will bring you a copy of the "Bond Wagon" Plan Book and a Free Sample of the Home Planning File. Mail to: Edison General Electric Appliance Company, Inc., 5641 West Taylor Street, Chicago, Illinois.

NAME

TITLE



58



PRIVATE CONSTRUCTION. In spite of the unsatisfactory current status of new construction being started by private enterprise, and applications received by FHA, the administration maintains an optimistic attitude. This is evidenced by the size of the program assigned to private builders for the fiscal year 1944, as outlined by Administrator Blandford in his request for critical materials for the third quarter. Although we are not permitted to disclose the extent of the construction which private industry must undertake, we can say that it is substantial in volume.

LET'S CURTAIL CONFUSION. While it is true that the curtailment of general construction for the duration has forced a considerable number of builders out of business, there still remain thousands of builders who have complete building organizations and are ready and anxious to do the job assigned to them if some of the obstacles impeding the program can be removed. Chief among these are: (1) The frequent and confusing changes by the government in standards, policies, and procedures; (2) The imperfect planning by NHA in the assignment of priorities in metropolitan areas to FPHA where the private builders could have done the job, and con-versely, the assignment to private builders of priorities in isolated war production areas where only publicly financed construction is feasible; (3) The failure on the part of FHA to interpret Title VI as an emergency measure and to relax their requirements in line with wartime construction necessities. If this situation is to be corrected in time to permit private builders to accomplish the goal set for them this year, immediate action will have to be taken.

WHAT PRICE HOUSING? In retrospect, it is clear that new housing should have been planned and constructed, in large part, as a corollary to the planning and construction of new war plants. The simultaneous accomplishment of this would have prevented much of the delayed production of war materials which has occurred in areas such as Detroit, Norfolk, Mobile and Seattle. The cost in absenteeism and labor turnover will not be a complete loss if a more realistic approach is taken from now on.

MINIMUM CONSTRUCTION. In view of the really critical situation in

metals and lumber, it is imperative that builders approach new construction determined to design their projects upon a minimum basis. Mortgagees are naturally unwilling to finance projects likely to result in foreclosures. Agencies of Government must recognize that even beyond the FHA minimums, private housing must have reasonable postwar acceptability to interest the investing institutions.

LUMBER SHORTAGE. Builders are urged to effect economies in the use of sub-flooring, sheathing, and wherever one-inch lumber is used. In this way they will not only be making a substantial contribution to the overall war effort, but will be protecting themselves against the problem of securing an adequate supply of lumber at a later date. Eleven billion board feet for boxing and crating will drain off much of the lumber home building requires. The Lumber Division of WPB has requested that readers write us, sending supporting data, as to ways and means by which economies may be effected. If standards can be properly reduced, and lumber saved. revisions will be made.

LAND PLANNING. FHA's Landplanning Division has suggested that our readers submit specific instances of delayed or unreasonably meticulous procedures in the field offices. In a sincere effort to increase the effective function of the Agency, Commissioner Ferguson's staff has assured us that they will revise and correct conditions which are hindering builders unnecessarily.

TENANT REGULATIONS. At last NHA has seen the wisdom of the argument that present regulations in respect to tenant eligibility for newly constructed war housing do not give many war workers a fair break. Many of the early and ablest workers have been forced to put up with the worst makeshift type of housing accommodations. As modified by a recent executive order, the NHA regulations will now permit those whose occupations are vital to the war program to qualify as tenants if they have come into the communities since July 1, 1941, and if they can show that their accommodations are so unsatisfactory that their efficiency is impaired.

DEFERMENT. "Residential building construction (for war workers only)" and "maintenance of facilities American Builder, May 1943.

and services necessary for civilian health, safety, morale, and security" have been listed by the Selective Service System as "essential activities" and will be subject to general draft deferment policies.

CMP DELIVERIES. Sequence in which deliveries will be scheduled on purchase orders up-rated by the application of an allotment number under CMP Regulation No. 3 will be determined by the date of the assignment of the original rating, the same as if the higher rating had been assigned on that date.

P-55 AMENDED. Purchase orders bearing preference rating under any P-55 order—old or new—will no longer require countersigning by FHA officials. Since the issuance of Amendment No. 1 to Preference Rating Order P-55, however, periodic check-ups will be made by FHA officials to make sure only materials on the approved list are being used in the construction of war housing.

LUMBER CEILING. OPA officials are meeting this month with retail lumber dealers in the New England, Middle-Atlantic, and Great Lakes States to discuss interim price ceilings for retail lumber and lumber products, pending issuance of permanent price regulations to be based on cost studies currently being made.

COORDINATION. In a move to bring about coordination of federal programs relating to such activities as housing, community facilities, health and welfare, and other essential services, the President has issued an administrative order creating a committee for congested production areas. This committee will represent the NHA, the War and Navy Departments, the War Manpower Commission, the Federal Works Agency, and the Budget Bureau.

RESTAURANT FACILITIES. We have received a communication from C. E. Reinholt, Acting Chief, Office Buildings, Hotels and Restaurants Section of WPB, in which he states that the Government is most anxious thal restaurant facilities be arranged for in many war production areas. He has assured us that applications on PD-200 for such construction, where present facilities are inadequate, will receive their immediate and sympathetic attention.

CONVERSION. Since the NHA has made it clear that it will insist on making the maximum use of existing houses before new construction is authorized, the status of the conversion program is of more than usual interest to builders. After a slow start, this phase of the program under which the government leases or purchases existing

(Continued to page 74)

...(

with

Amer

A rapi cond time ing r It sa can of 3 requ

by

over

civilian curity" e Serv. I draft

nce in uled on e appliunder e determent of s if the ned on

orders ler any vill no y FHA Amendng Oreck-ups to make ved list ction of

officials ail lumd, Midtates to for res, pende reguies cur-

ove to federal ities as health al servan adcommitareas. ent the Departommiscy, and

S. We n from , Office nts Sectes that us that d for in He has PD-200 present receive c atten-

IA has on makhouses horized, rogram o buildhase of governexisting)

SAVE TIME IN WARTIME WITH **Atlas High-Early Cement A UNIVERSAL ATLAS PRODUCT**

Birmingham, Waco.

For all types of wartime "Rush" jobs...housing, factories, airports, cantonments, access roads ... you can depend on Atlas High-Early cement to give you serviceable, durable concrete . . . FAST. Universal Atlas Cement Company (United States Steel Corporation Subsidiary), Chrysler Building, New York City.

OFFICES: New York, Chicago, Albany, Boston,

Philadelphia, Pittsburgh, Minneapolis, Duluth,

Cleveland, St. Louis, Kansas City, Des Moines,

... 14 DAYS QUICKER

HOW THE LITTLE PER DEE RIVER

WAS BRIDGED

For construction of the Potato Bed Ferry Bridge over the Little Pee Dee River, Atlas High-Early cement was apecified for piling. Why? South Carolina Highway Specifications state, "No pile shall be driven until it is at least 24 days old and in cold weather for a longer pe-riod as determined by the engineer. This period may be reduced to 10 days if high-early strength is used"—a saving of 14 days!

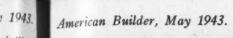
Atlas High-Early cement provided other advantages, too. Forms were stripped and reused . . . saving time, materials, and manpower. AB-H-53

Whether it's to help the war effort ... or to get civilian traffic through ... there's one way to help assure a faster construction job

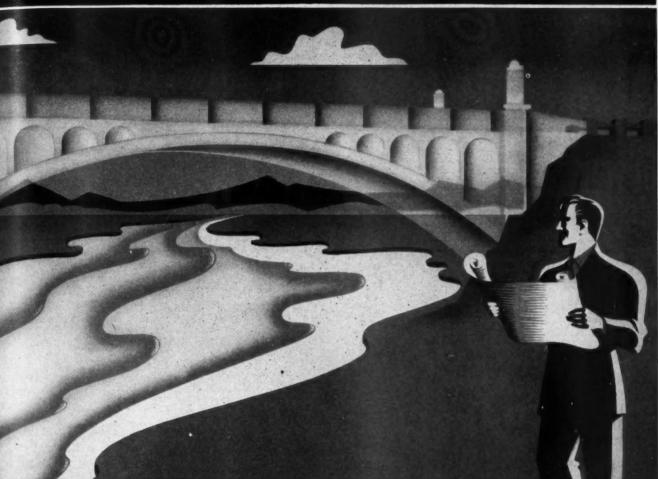
WHEN wartime transportation calls for a bridge...in a hurry ... one way to help speed the job is with Atlas High-Early cement.

Atlas High-Early gains strength rapidly. It produces serviceable concrete often in one-fifth the usual time. It saves manpower by releasing men for new jobs more quickly. It saves lumber because forms often can be stripped in 24 hours instead of 3 to 5 days. It shortens the time required for protection and curing by as much as 70%. It reduces overhead by saving time, man-

power, and equipment.



How to turn a blueprint into a bridge ... QUICKLY





How to Figure Painting Jobs Quickly

TABLES on this and following pages give selling prices for applied finishes on old or new work—both interior and exterior.

Coverage: The indicated spreading capacities of the various finishes over many surfaces have been carefully tested and checked by several nationally prominent paint manufacturers and may be considered conservative.

Labor Production: Labor cost figures are based on national surveys conducted by these manufacturers and are the broad averages of master painters in many cities covering thousands of actual jobs.

Windows, Doors, and Other Irregular Surfaces: To compensate for the added labor required for irregular surfaces, an additional labor allowance of 25% for the door and trim group and 40% for the window, stairs, and cabinet group has been added to the square foot selling prices.

Material Prices: Material prices per gallon as given in the tables represent the *base prices which apply to first quality, branded prepared paints. To adjust material prices for each coat, divide cost of material per gallon by (Continued to page 92)

1	*Labor Prices @	1			One Co		1	1		17-	Coats	.		1	m	ee Co	-	1	-
-		Cal	-	Mat.			Taral	Cov.	3.5.4		Tot.	2 Ct.	Local	Cov.	Mat. 1				
in.	Product and Surface		Cov. S. F.	Pr.	Pr.	Tot. Pr.		S. F.	Mat. Pr.	Lab. Pr.	Pr.	Price		S.F.		Pr.	Tot. Pr.	3 Ct. Price	Pric
1	Varnish Plain Wood and Hard Bd. Doors and Trim Wds., Cab., Stairs	\$4.00 4.00 4.00	(New 600 600 600	\$.67 .67	\$.97	r Old W \$1.64 1.89 2.03	/ork)	600 600 600	\$.67 :	sh \$4. 5 .97 1.22 1.36	\$1.64	\$3.28 3.78 4.06		700 700 700	.57	h \$4. .97 1.22 1.36	\$1.54 1.79	\$4.82 5.57 5.99	
2	Varnish and Filler Wood and Hard Bd. Doors and Trim Wds., Cab., Stairs	4.00 4.00 4.00	600 600	1.17	Grain 2.70 3.38 3.78	3.87 4.55 4.95	woods)	600 600 600	(Fille .67 .67 .67	r \$3.0 .97 1.22 1.36	0) 1.64 1.89 2.03	5.51 6.44 6.98	*******	700 700 700		sh \$4. .97 1.22 1.36	1.54 1.79	7.05 8.23 8.91	
3	Varnish and Stain Wood and Hard Bd. Doors and Trim Wds., Cab., Stairs	4.00 4.00 4.00	600 600	1.42		3.36 3.86 4.14		600 600 600	(Filler .67 .67 .67	\$3.00) .97 1.22 1.36	(Stain 1.64 1.89 2.03	\$3.75) 5.00 5.75 6.17		700 700 700	.57	ish, \$.97 1.22 1.36	1.79	6.54 7.54 8.10	
4	Filler, Stain and Varnish	4.00	Varn	Varnish, \$3.00 Filler, \$3.75 Stair (Filler, Stain, Varnish)					2nd coat varnish					3rd coat varnish					
	Plain Wood Doors and Trim Wds., Cab., Stairs	4.00 4.00 4.00	600	1.92	3.67 4.60 5.14	5.59 6.52 7.06	**********	600 600 600	.67 .67 .67	.97 1.22 1.36	1.64 1.89 2.03	7.23 8.41 9.09		700 700 700	•.57 •.57 .57	.97 1.22 1.36	1.64 1.89 2.03	8.77 10.20 11.02	
5	Filler, Stain, Wax	3.00	Filler, \$3.75; Stain, \$3.6 Liquid Wax (Filler, Stain, Wax)						2nd coat wax					3rd coat waz				-	
	Plain Wood Doors and Trim Wds., Cab., Stairs	3.00 3.00 3.00	600	1.55	4.31	5.86		1200 1200 1200	.30 .30 .30	.74 .93 1.04	1.04 1.23 1.34	6.03 7.09 7.71	*******	1200 1200 1200	.30 .30 .30	.74 .93 1.04	1.04 1.23 1.34	7.07 8.32 9.05	
6	Stain, Shellac, Wax	3.75	Stain, \$2.00 Shellac, \$3.60 Liquid Wax (Stain, Shellac, Wax			E			2nd c	oat wa				3rd	coat	wax			
	Plain Wood Doors and Trim Wds., Cab., Stairs	3.75 3.75 3.75	500	1.50	3.09	3.95 4.59 4.94		1200 1200 1200		.74 .93 1.04	1.04 1.23 1.34	4.99 5.82 6.28	******	1200 1200 1200	.30 .30 .30	.74 .93 1.04	1.04 1.23 1.34	6.03 7.05 7.62	
7	Varnish and Wax	4.00	Varnish, \$3.60 Liquid W 1st coat varnish				Wax,		2nd coat varnish					1	coat w	ax			
	Plain Wood Doors and Trim Wds., Cab., Stairs	4.00	600	.57	1.22	1.89		600 600 600	.67	.97 1.22 1.36	1.64 1.89 2.03	3.28 3.78 4.06		- 700 - 700 - 700	.30 .30 .30	.74 .93 1.04	1.04 1.23 1.34	4.32 5.01 5.40	
8	Shellac Wood Doors Wds.	2.00 2.00 2.00 2.00	0 450 0 450	.45	i 1.22	1.19 1.67 1.81	*********	500 500 500	.40		1.62	2.33 3.29 3.57		- 550 - 550 - 550	.37 .37 .37	.74 1.22 1.36		3.44 4.88 5.30	
9	Liquid Wax on Wood	3.6	0 1200	.30	.74	1.04	*******	. 1200	.30	.74	1.04	2.08		1200	.30	.74	1.04	3.12	
10	Flat Wall Paint			(1s	t coat	primer	\$ 2.50)		(7	lat Wa	all Pain	t \$2.50			(Flat	t Wall	Paint	\$2.50)	
	Ins. Bd. Glaze Ins. Bd. Std. Flexbd. Plaster—New	2.5 2.5 2.5 2.5	0 150	1.6	7 1.18	8 2.85 5 1.47	*******	- 500 - 400 - 600	.63	.97 1.05 .97 .97	1.68	4.53	*******	600 400 600		.97 1.05 .97 .97	1.39	4.54 6.21 4.25 4.25	
10	Flat Wall Paint	1		(Fla	at Wal	Paint	\$2.50)	(F	lat Wa	ll Pair	at \$2.50)		(Flat	Wall	Paint	\$2.50)	-
	Concrete Brick Wood and Hard Bd. Doors and Trim Wds., Cab., Stairs	2.5 2.5 2.5 2.5	0 50	0.5	0 1.1	8 1.68 8 1.98		- 25	.46	.97	1.43	3.11			.46	1.18 .97 1.22 1.36	1.43	4.54	

IT

PEO thi venien always home

Tha bathro Carran this n any b

design

bathro

4.

es cov-

s: To ar sure door s, and selling

iven in to first aterial llon by

cal

.....

.....

.....

IT WILL PAY YOU TO USE ,arrara THE BATHROOMS OF TOMORROW

DEOPLE will always like the same things in a house. Comfort, convenience, good looks. And they'll always be prejudiced in favor of a home with a handsome, practical bathroom.

That's why they'll always prefer bathrooms finished in good-looking Carrara Structural Glass. Walls of this modern structural glass make any bathroom, whatever its size or design, a better, more practical, more durable, and more attractive room.

Carrara walls are smart in appearance with their smooth, reflective surfaces and soft, eye-catching colors. (There are ten Carrara colors to choose from.)

Carrara walls won't check, craze, fade, stain or absorb odors. They're



easy to clean with a damp cloth.

In your post-war home-planning, remember that Carrara Structural Glass can be used in homes of every price class . . . not only for complete bathroom and kitchen walls set on the job, but also in prefabricated sections ideal for low-cost homes.

Send the coupon for interesting data on this structural glass which will help you put "buy-appeal" into the bathrooms of tomorrow.



IN

-	
	ttsburgh Plate Glass Company
	51-3 Grant Building, Pittsburgh, Pa. ease send me, without obligation, free literature
	Carrara as follows: (Please check)
	and Kitchens Better Looking."
-	Complete facts about Ready-Built Carrara
	Glass Panels.
-	Data on Utility Carrara Glass Tubs. Data on Prefabricated Glass Showers.
N	ame
A	ddress
C	tyState

American Builder, May 1943

nerican

"Here's Why I'm PLANNING HOUSES FOR THE FUTURE

... All With Coleman Floor Furnaces!"...



I've Been Catching Up On My Post-War building plans... and believe me, the hottest news — for the future — deals with Coleman Floor Furnaces! Their flexibility gives them such a big advantage over other types of heating equipment!...



I've Seen For Myself The Remarkable performance of these Colemans — both gas and oil—in thousands of government housing installations. They've been proved in war-time for real expansion in all types of homes after the war!



And it's So Easy To Sell Coleman's ad vanced automatic circulating furnar heat – at much lower cost than an averag basement furnace, completely installe with thermostat controls. My post-war prospects are really excited!



How To Get Off To A Fast Start In The Home-Building Wave of The Future

See for yourself the flexibility—and saleabilityof Coleman's "Furnace-of-Tomorrow"...the a vanced type of automatic circulating furnace heat for post-war homes—with or without basements

Here is warm-air heating at its best—warm floors uniform temperatures, health-conditioned air—a much lower cost than an average basement furnace completely installed with thermostat controls.

With the Coleman Floor Furnace no basement in needed. Where a basement is used the Coleman up at the ceiling out of the way. This leaves a basement floor space available for laundry, recreation or hobby rooms. There is a size for eventype of installation.

Coleman gives you new and exciting advantage in keeping with the "Home-of-Tomorrow!" Ge full facts for yourself now! Write for Catalog!

FREE! Write us today on your letterhead for Builders' Catalog and typical floor plan ideas of the Coleman "Furnace-of-Tomorrow!" Please ad dress your inquiry to Dept. AB-7.

THE COLEMAN LAMP AND STOVE CO. Wichita, Kans. Philadelphia, Pa. Chicago, III. Los Angeles, Calif. PFDJ

ALVES

NATIO

ay 1943 merican Builder, May 1943.

man's ad

n averag installe

post-wa

t In Th

Future

leability-

... the ad

asement

arm floors

ed air-s

t furnacentrols.

sement i

Coleman

leaves al ry, recrea for even

dvantage ow!" Ge Catalog!

erhead for ideas of Please ad-

DVE CO.

FFD.J

RANE CO

NATION

furna

What Will Home Owners Want

then the War is Won?

> This colorful book packed with stimulating ideas on bathrooms, kitchens and beating in tomorrow's bomes is being sent to thousands of bome owners and prospective bome owners the country over.

63

This questionnaire is being sent with the booklet shown above. Filled in by tomorrow's bome owners, it will give an excellent cross section of what they want in plumbing and beating after the war. WHAT are home owners and prospective home owners expecting in plumbing and heating in their new homes after "V" Day? The answer to this question so vitally affects the market for homes of the future that we are seeking the answer.

A nation-wide investigation is being conducted covering the men and women who will be your market for homes after the war. This investigation is designed to learn what the preference of tomorrow's buyers will be for plumbing and heating. A colorful book filled with interesting suggestions on bathrooms, kitchens and heating systems is being furnished with a questionnaire to stimulate interest in new homes after the war. This book and questionnaire are being featured in national advertising reaching millions of prospects, and already thousands of inquiries testify to the interest of Mr. and Mrs. America in planning their new home.

The Crane line of the future will be built on the basis of the preference expressed in this investigation.

We would also like to know what Builders think about plumbing and heating for tomorrow's homes. A copy of this questionnaire and booklet will be furnished to anyone interested. Mail the coupon below.

RANE	CRANE CO. AB 5-43 836 S. Michigan Ave., Chicago, Ill. Please send me copy of booklet "V" Day and questionnaire.							
FITTINGS • PIPE • PLUMBING • HEATING • PUMPS	Address							
-WIDE SERVICE THROUGH BRANCHES, WHOLESALERS,	PLUMBING AND HEATING CONTRACTORS							

BUILDERS SPEAK ON POST-WAR

(Continued from page 35)

Bugs Must Be Ironed Out

64



M. Y. COOPER

THE buying public will demand investigation of the marvels they have read about, and only when convinced the bugs are ironed out will they become boosters. More standardization of equipment to overcome custom-built prices is ahead. Houses of the better class require so much in mechanical equipment and individuality that "stock methods" will have hard sledding.

The approach to all the better designs will be modern in the best sense of the word—revealing the designer's ingenuity in adapting motives and principles from many sources. Simplification should be the keynote in plan and design. A building boom is in the making for free enterprise.—MYERS Y. COOPER, Cincinnati, Ohio (250)



Constantly— So Do Plans

Life Changes

C. C. WILLMORE

THERE will be many changes after the war—but not immediate. It will take time. The house of 1941 did not look much like 1921.

All post-war houses will have automatic heat, better lighting, better ventilation, larger windows, more color, wider sites, Colonial and Modern Colonial styles. No modern.

Life changes constantly, and so do plans and methods.—CYRUS CRANE WILLMORE, St. Louis, Mo. (250)

Public Wants Homelike Design

J. W. BAKER



THE enclosed folder, "Colonial Farms," expresses our ideas about the post-war houses, which will be planned in line with public demand. We have built over 600 houses in the past few years, and at present are completing a 130-unit war housing job.

Home buyers of the post-war era will not be much interested in the factory or box type of house that some of the crackpot planners are trying to put across. They will want something more homelike and custom-built, in the traditional Early American manner, together with practical improvements that are, or will be, developed from time to time.

will be, developed from time to time. We might add, American Builder has offered more interesting and constructive reading matter during the past twelve months than at any time in the past.—J. W. BAKER, Cox & Baker, Detroit. (600)

Selling Lots Now for Post-War

G. W. MILLER



I HAVE purchased two subdivisions containing about 1,000 sites, and am setting up a program using experienced salesmen to sell the land sites now and build the houses when the war is over.

The point I wish to make is that the properties we are selling to these people today are the houses contained in the book enclosed. This represents the *exact spot* where we have left off, and where we will start to develop new types and designs after the war.

In the lower brackets of post-war homes, there will be a tremendous experimentation; I very much doubt that prefabrication will lead any further than to the making of panels, cupboards, doors, windows, etc. The labor unions intend to unionize these shops, and with equal labor cost in the shop with that in the field, the shop method cannot hope to compete; especially with production methods where we set up our saws in the field and build houses down a line.

In the very small house of the trailer type, I would not be surprised to find realty developments in the big industrial centers catering to renting land sites to movable homes.

Above \$6,000, we will find a continued lessening of prefabrication up to the higher type—almost entirely custom-built. These must be individually designed to fit the site, the sun and wind facings, the view, etc.

Therefore, there is no one answer to post-war building, but instead, a multitude of answers stretching all the way from complete prefabricated and movable small homes up to the fine type of exclusive residence in a carefully restricted neighborhood.

I will have two, or possibly three, separate companies, one of which

American Builder, May 1943.

Ameri

will merchandise houses much the same as you sell an automobile. Another will build standardized homes in quantity on adjacent sites. The third will be the Miller Quality Home, and in this case the customer's needs will be carefully analyzed, and the house and site carefully prepared to suit the needs and personality of the family, with all the protection that a carefully restricted realty can give.—GEORGE W. MILLER, President, Miller Homes, Inc., Detroit. (2,600)

Build to Sell Quickly



W. T. RICHARDSON

WE expect to use panel or site fabrication methods, but expect little change in post-war house appearance.

I once spent a lot of time and money preparing plans that *l* thought perfect. Disposition of them was almost impossible and at a loss. Now we build houses that sell quickly.—WM. T. RICHARDSON, Los Angeles, Calif. (500)

Fads Come and Go

FOR the more than thirty years I have been engaged in the building of houses in Washington, I have seen fads in architectural design and materials come and go. But the traditional Colonial, English and French built in proper locations in neighborhoods where protective covenants are established retain their attractiveness and intrinsic value.— ALLISON N. MILLER, W. C. & A. N. Miller Development Co., Washington, D.C. (300)

More Glass— Monterey or Florida Type

J. W. DAVIN



WE expect to use site fabrication and pre-cutting of materials and power equipment, but no radical change in appearance of our postwar houses. We will feature Modern Colonial and the Monterey or Florida types. We expect better planning in the very low-cost houses, better equipment in the middle priced houses, and more glass in all types. — JOSEPH W. DAVIN, Whatley, Davin & Co., Jacksonville, Fla. (350)

(Continued to page 66)

roads ing the American speed In perimpo way into the answ

T

BE

a der In ev

and

ice st

LEH

1943.



te fabt little ppear-

hat 1 of them a loss. quick-N, Los

vears I uilding I have gn and the tran and ions in ve covn their value.--7. C. & the Co.,



rication als and radical ir post-Modern rrey or better houses, middle SS in all DAVIN, sonville,

ALL ROADS LEAD TO ROME...AND TO TO ROME AND TOKYO, TOO BERLIN AND TOKYO, TOO

It's an old saying that all roads lead to Rome . . . and we amend that by adding that they lead to the other Axis capitals, too. America's far-flung network of concrete roads is speeding the transport of vital war supplies.

In peace and war, Lehigh Cement has played an important part in the building of America's highway system. And when the concrete had to be put into use in a *hurry*, Lehigh Early Strength Cement answered the need. It saves time by coming to service strength in $\frac{1}{3}$ to $\frac{1}{5}$ normal curing time. It makes a denser, finer concrete, too.

In every type of concrete construction, for war work and private work alike, Lehigh Early Strength Cement can contribute precious savings in time. It may be the answer to your own special problem. The Lehigh Service Department will gladly supply full details.

LEHIGH EARLY STRENGTH CEMENT for service-strength concrete in a hurry

LEHIGH PORTLAND CEMENT COMPANY . ALLENTOWN, PA. . CHICAGO, ILL . SPOKANE, WASH.

CEMENT

BUILDERS SPEAK

(Continued from page 64)

Open Minded and Receptive to New Ideas

WE are both open minded and receptive to any plans or ideas that will make it possible to reach buyers in the lower brackets; but we have seen nothing yet to justify the opinion that conventional methods will be scrapped.

The ideas of the operative builder are shaped by close contact with purchaser, and hard-earned knowledge of what the public will or will not accept.



There is a good deal of moonshine

in the talk about innovations after

the war. While the architect has his legitimate place in higher class resi-

dential construction, he is of very

little assistance in a small house except to give architectural form to

the ideas of the operative builder.— JAMES W. FARRELL, Fred'k A.

INTEND to go slow and see what

various manufacturers bring out in

new ideas. Have been subscriber to your magazine for years—like it fine. —P. S. BAMBERGER, Modesto, Calif. (150)

Schmidt, Inc., Cincinnati.

Like It Fine

BARCOL OVERdoors

MEET UNUSUAL REQUIREMENTS

G. F. NIXON

Better Land

Planning

MUCH improvement will continue in post-war housing and land planning. Higher priced houses will continue to follow traditional trends. This area is becoming educated to row housing for low-cost. We expect site fabrication and pre-cutting of materials. Changes in post-war construction methods will be subject to union regulations. - GEORGE F. NIXON, Chicago. (200)

Add Bit by Bit

OUR builders know the people, who are conservative, and who will people, cling to the best of the old, acding bit by bit the best of the flood of new gadgets, ideas, designs and devices which may come on the market.

I expect greater use of plastics, greater installation economies, use of coal stokers, trend to larger sites. more careful land planning.

We probably will have more factory-finished materials such as flooring, bathrooms and kitchens, and other factory-prepared features and equipment. But no great housing revolution for us !- RALPH J. BLANK, President, Wagg Inc. Wagg Inc., Schenectady, N.Y. (500)

What the **Buying Public** Wants



C. S. WANLESS

WE have been using some factory prefabrication for five years, also pre-cutting and power equipment, and expect to continue about the same. We will feature Colonial and Cape Cod Colonial designs; expect no radical changes.

We will continue to build and improve as to plans and equipment, according to our judgment as to what the buying public wants.-CHARLES S. WANLESS, Springfield, Ill. (500)

Public Becoming Confused

THE public is becoming confused as to what they should do, and in our lot sales at the present time we are encountering this resistance. I do not agree with all I read and hear about radical changes in post-war houses. This company has long given special attention to the planning of small homes, and architectural study and supervision. We constructed 300 houses in one section alone using (Continued to page 68)

Amer



J. Am wea T

hav

con



GET THIS MANUAL Includes data on the princi-pal features of Barcol OVERdoors, and detailed description of the various types of Electric Operators for Doors and Gates. Write for INDUSTRIAL MAN-UAL F-1298

Factory-Trained Sales and Service Representatives in Principal Cities

Barcol OVERdoors of various types in hundreds

of war production plants are giving long-lived

trouble-free service necessary to efficient plant

operations. This picture,

for instance, shows a

Motor-Operated Barcol

OVERdoor of the hi-lift

weight-counterbalanced

type, specially arranged

for a rairoad track ent-

rance and to clear a trav-

elling overhead crane.

For new installations,

and to replace existing

unsatisfactory doors, spe-

cify Barcol OVERdoor.



1943. Id

ON

tinue planl conrends. ed to expect ng of r conect to E F.

eople, o will adding od of nd denarket. lastics. s, use r sites. re facfloors, and es and ousing H Inc.

factory

s, also ipment, out the

ial and

expect

and im-

ipment,

as to

Spring-

onfused

d in our

we are

nd hear ost-war

g given ning of al study

tructed e using

1

. I do

AS EASY TO APPLY AS AN ASPHALT STRIP

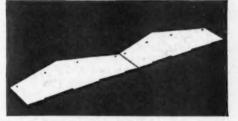
Yet J-M Asbestos Shingles are built to last 30 years plus* and they cannot burn!

WHEN you recommend Johns-Manville Asbestos Shingles to a home owner for necessary reroofing during wartime, you are recommending one of the most durable and permanent types of roof he can buy—and at the same time, one of the most simple and economical to apply. The new J-M American Colonial Shingle is fabricated as an asbestos strip—5 shingles in one. It is easy to handle and is selfaligning on the job. There are no trick fasteners, just nails. And the nail holes are already punched. Any carpenter or roofer can lay them up rapidly even without previous experience.

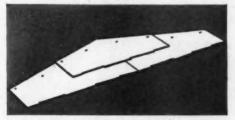
J-M American Colonial Shingles provide a beautiful roof of American method appearance. They have the pleasing texture of weathered wood and come in several attractive blended colors.

They are built to last, too! *Thousands of J-M Asbestos Shingles have been in service 30 years or more and are still in excellent condition. For details, write Johns-Manville, 22 E. 40th St., N. Y. 5 Shingles in One!

5



EACH SHINGLE lines up automatically with the one next to it when the ends are placed together.



NEXT COURSE is lined up by placing shoulders over points of shingles on the preceding course.



67



(Continued from page 66) slab foundations. Every one was sold prior to completion.

We plan to prefabricate our cabinets, closets, etc., and pre-cut framing; also possibly some use of shopbuilt door and window sections. We do not expect a radical change in appearance or methods. — C. R. BRACE, Garden Oaks Co., Houston. Tex. (400)

Will Use the New

WE will use the new to the extent that we feel the public will want and will buy, as we always have. We do not believe they will stray far from traditional basic designs.—ROBERT P. TIFFEY, J. B. Tiffey and Son, Washington, D.C. (250)

Mass Psychology Moves Slowly

D. T. POMEROY

THE whole psychology of housing in the individual mind is for permanent and secure shelter. People buy



You'll Need White Cement in TOMORROW'S BUILDING

What will tomorrow's buildings look like? Frankly, we don't know, but to be sure, there will be many changes from presentday construction. New designs and new materials will bring greater beauty and utility. In accomplishing these changes, we believe MEDUSA WHITE, the original White Portland Cement, will take a leading part. For example, you as a contractor will depend upon this material for white and colored effects in stucco and for making white floors for industrial plants where high light reflecting qualities and sanitation are needed.

Concrete products manufacturers will use it for white and colored facings on concrete masonry units . . Terrazzo contractors will use MEDUSA WHITE for terrazzo floors, stairways, wainscoting, recreation room floors . . . Those who use cement in brick, tile, cement asbestos shingles

and cement as bestos boards, will rely upon the advantages of MEDUSA WHITE for their products.

You'll use it tomorrow, so get complete information on this versatile, widely used material today.

MEDUSA PORTLAND CEMENT CO. 1002 Midland Bidg. • Dept. B • Cleveland, Ohio Also made by Meduca Products Company of Canada, Ltd., Paris, Ont.

American Builder, May 1943.

homes for reasons rooted in the habits of their youth. Many changes will be brought about, but they will evolve as a gradual transition. No one has yet discovered any design that could command quite so much ready acceptance among buyers as the Colonial home.

While larger builders may benefit by certain prefabrication techniques, small builders should also benefit. To a limited extent, building supply dealers are going to help small builders by doing some shop prefabrication. They will supply an even more complete assembly of window openings, exterior and interior door openings and casings, ready-built plywood coat closets and many similar items.

Thus the small builders will be able to compete favorably with the larger contractor.

Co-ordinated planning and direction must be taken over by a community developer who will be neither a contractor nor a realtor. The small builder and the realtor must organize their joint efforts to meet competition from large contractors entering the field of residential building for the first time.—DONALD T. POMEROY, Pomeroy Organization, Inc., Syracuse, N.Y.

"Prelabricated" with a Sneer?

THE use of prefabricated units around defense plants has given, and will continue to give, the prefabrication industry a black eye that it will take a long time to live down. Anyone wanting a home will say "prefabricated" with a sneer.

We will be able to build traditional houses more economically with improved construction methods, power equipment, and possibly with package units of plumbing and heating. --WM. BARNES HALL, Baltimore, Md. (150)

Wild-Eyed Talk

WE have been most conscious of the wild-eyed talk about post-war homes. At present, we are endeavoring to supply war housing, and it is our opinion that we will be able to deliver a quality house \$3500 to \$5000 for post-war; Modern Colonial or California type bungalows.—L. G. CARPENTER, Small Homes Co., Denver, Colo. (500)

Classic and Popular Taste

IF you should ask the head of a college to suggest reading for the masses. he would unquestionably prescribe many of the classics, while he himself perhaps indulges in modern detective fiction.

Precepts and practices often differ. While many builders lack aesthetic qualities necessary to good architecture, they more than make up for this lack by humanizing small houses with warmth, color, comfort and hu-

(Continued to page 70)

MEDUSA WHITE The original white Portland Cement

CERTAIN-TEED WAYS TO HELP YOU MAKE MONEY IN MAY!



1943.

anges y will . No lesign much ers as

eenefit iques, fit. To supply buildbricaopenopent plyimilar

vill be th the

direccomneither The must actors build-LD T.

ganiza-

units en, and abricait will . Anyy "pre-

litional ith impower packneating. Balti-

ious of ost-war deavornd it is able to to \$5000 nial or -L. G. nes Co.,

e

ad of a for the tionably s, while in moden differ.

aesthetic 1 archie up for 1 houses and hu-)) 69

BUILDERS SPEAK

(Continued from page 68) man needs.

I like architects and recognize their value, but for many of our small popular houses they have many things to learn.—WALTER H. LEIMERT, Los Angeles. (500)

Streamlining of Job Operations

WE expect some change in appearance but not radical; equipment will progress most. We expect the streamlining of job operations—do as much assembling as possible for each specialized trade, such as wiring and plumbing, etc., in one set-up. Modern Colonial houses built with power equipment and site fabrication.—C. TAYLOR BURTON, Burton Lumber & Hdwe. Co., Salt Lake City. (350)

Fluorescent Lighting

WE expect to deliver air conditioned homes, gas or oil heating, fluorescent lighting, possibly plastic decorations or plumbing fixtures. No radical changes in design; Colonial for single-family, semi-modern for two family.—LESLIE MARKOVICH, Pioneer Builders, Inc., Milwaukee, Wis. (160)

Milwaukee

AIR CONDITIONING



AND

Expects Some Modern



D

y

L

th

w

CC

he

01

B

b

sa

Fe

sy

fle th

m

tu

E

b

er

si

E

Fe

to

h

p

h

b

In

di

w

R

(1

fo

0

C. E. JOERN

THERE will be some modern architecture in post-war—very radical compared with modern as we know it now, utilizing sun rays, bright colors, new heating methods and extensive use of plastics.

But there will not be any radical change in the appearance of the large majority of houses built after the war. Changes will be mostly in kitchens and heating, and in air conditioning. Colonial type homes will find the best market. Use of factoryfabricated sections will not be successful due to labor conditions.— CHARLES E. JOERN, Wm. Joern & Sons, Chicago. (125)

Officers Want Colonial

SINCE I received your letter, I talked with 27 U. S. Army officers now renting our Title VI houses, and they all advised they want the "Modified Colonial" with lots of labor-saving devices. Greatest post-war progress will be

Greatest post-war progress will be in package selling—house all complete, standard list price including all fees.

A \$7,000 property that could be sold for \$800 down and \$50 per month (25-year loan) would permit 80 per cent of the people in this city of 80,000 to step up their standards of living. Then the worn out, dirty, dark, houses can be torn down.— CHARLES R. MALOWNEY, V.P., Malowney Real Estate Co., Inc., Springfield, Ohio. (400)

Good to Look at Pleasant to Live in

SOMETHING should be done to counteract the lunatic fringe of designers who have been building paper houses in the magazine. It is necessary, not only as a protection to builders who desire to carry on with sound work, but also as a protection to the buying public.

I expect to specialize in Modern Colonial homes with all possible conveniences. They must be good to look at and pleasant to live in. I hope financing will be carried on through FHA. — THOMAS V. ALBERT, Cranford, N.J. (160)

Looks for Plastic Trim

I DO not expect a radical change in post-war house appearance, but do in equipment and methods. Interior trim will largely consist of plastics. Heating equipment and ventilation will be different, with air conditioning and possibly heating plants installed in the attic, thus eliminating cutting up studs and plates. I expect

(Continued to page 72)

POST-WAR

HOUSING



hiical ow ght and ical the

iter in onwill oryucs. ern

, I cers ses, the la-

om-

Designed for

your new markets

other part of the structure.

satisfy their own tastes.

turally sound house.

sign-or on salability.

Engineered housing

with assured profits.

of prefabrication;

tem which:

Low-cost housing will be a large part of

the residential building industry's post-

war volume. Successful builders of low-

cost housing pay close attention to design

-studying each part that goes into the

house from the standpoints of (1) waste,

and (2) that part's relationship to every

Builders of homes in all price classes

depend on design for salability. People

buy homes to meet their own needs and

For these reasons it is essential that a

system of construction permit complete

flexibility of design. At the same time, the system must possess a high degree of manufacturing efficiency, produce a struc-

Engineered housing is the answer. Partly

because it is decentralized prefabrication,

engineered housing sets no limit on de-

For seven years and at a research outlay

to date of \$300,000, Homasote Company

has been applying sound engineering

principles to the problem of building a

home. Homasote's purpose: to help the builders who use Homasote Building and Insulating Board (and the dealers who distribute it) sell more and better houses,

Result of this thorough study is Homa-

sote Precision-Built Construction-a sys-

(1) enables the local builder to achieve

for himself all the engineering economies

be per mit city ards irty, n.— 7.P.,

Inc.,

ounners uses not who ork, ying dern

cond to n. I l on V.

ge in t do erior stics. ation tions inating cpect (2) produces a machine-perfect house at lower initial and operating costs; (one benefit of decentralized prefabrication is lower transportation expense);

(3) is based on the use of Homasote Board—oldest and strongest building and insulating board on the market—and other *standard* materials readily available in the local area;

(4) eliminates guesswork and the profit hazards of inexact estimating;

(5) is adaptable to any style, any size of house.

HOMASOTE

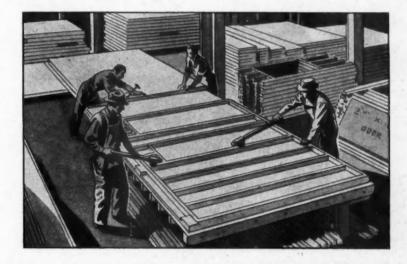
\$36,000,000 experience

The soundness of Homasote Precision-Built Construction has been proved in \$6,000,000 worth of pre-war, private homes erected by independent builders all over the country—and in \$30,000,000 worth of government war housing.

To the foresighted independent builder, Homasote Precision-Built Construction is the key to new post-emergency markets: low-cost housing projects constructed at a profit, large realty developments, machine-perfect homes in all price classes.

HOMES

For more details, write HOMASOTE COMPANY, Trenton, New Jersey



Precision-Built

BUILDERS SPEAK

(Continued from page 70)

compact heating plants, with boilers carrying 500 lbs. of pressure and requiring only 5 qts. of water.—E. G. B. BARK, Bark Building Co., Chicago. (100)

More Air Conditioning

WE expect post-war houses will have pre-war design with important improvements, such as increased glass area and air conditioning, which will come about as a result of the wide use of warm air furnaces during the war, and greater lot areas

-a result of the war Victory gardens. We expect some site fabrication, use of power equipment to precut materials, and use of the Modern Colonial design .- IRVING STICH, Springfield Homes Corp., Springfield, Mass. (424)

Factory-Assembled Units Plastic Trim Expected

WE expect to have factory-assembled windows and inside doors, improved and more economical heating units, better insulation, better cooling and lighting, and plastic trim; Colonial row and group houses.— JOHN L. TREGELLAS, Baltimore, Md.



ACRES OF ARCHES! Laminated with Laucks Glues

VAULTING into national prominence through speedy, large scale production of vitally needed arches, beams, columns, is Timber Structures, Inc., Portland, Ore.

Included in the impressive list of Timber Structures laminated products are giant arches spanning 200 feet, wood beams 2'x 3'x 120' and larger, glued-up ships knees, built-up keelsons, monolithic gunwales, wide deck planking, etc.

Here – as in hundreds of other new-day uses - Laucks Glues serve with distinction in America's engineering battle to house, transport and supply our troops efficiently.

Why? Twenty years of leadership



in the glue field finds Laucks prepared with products, personnel and procedure to give patrons a "head start" in applying glues to new or unusual uses.

If wood and glue is a problem with you - won't you write or wire now? No obligation, of course.

I. F. LAUCKS, Inc.

Lauxite Resins - Lauxein Glues

In U. S. Address Inquiries to-SEATTLE-911 Western Avenue LOS ANGELES-859 E. 60th Street CHICAGO-6 North Michigan Avenue Factories: Seattle, Los Angeles, Portsmouth, Va., Lockport, N. Y.

In Canada Address Inquiries to— I. F. LAUCKS, Ltd., Granville Island, Vancouver, B. C. HERCULES-LAUX-MERRITT, Ltd., Stanbridge, Quebec

• Don't forget, LAUX REZ, the pioneer resin sealer and primer, protects wood as rust-proofing protects metal.

LAUCKS CONSTRUCTION GLUES **Consult LAUCKS—America's Glue Headquarters**

People Want Individuality

PREFABRICATION can only reduce costs by mass production, and that means a stereotyped product which, in my opinion, the American public will not accept. A man, or particularly a woman, may buy a car or a washing machine like the neighbors, but when it comes to a house or a hat, it must be distinctly individual.

I will use any improvements in materials and mechanical equipment, such as heating and plumbing, that come on the market, after I find them to have real merit and public acceptance. -FORREST W. TRUMPF, Milwaukee, Wis. (100)

Assembly Line Methods

WE believe we will be able to deliver better houses, in planned developments where values will be protected, at much less cost than governmentsubsidized houses. We expect to use assembly line construction, standardized plans whereby some prefabricated parts can be used.

Publicity now being run on postwar building is entirely too radical. Our opinion is based on present inquiries plus our experience in the past five years building more than 400 houses. - D. C. JOHNSON, Newlin-Johnson Co., Terre Haute, Ind. (400)

More Conveniences-**Traditional Lines**

MANY new conveniences will be worked into post-war plans, such as taking the laundry out of the basement; more glass and glass blocks to let in light. Also items such as milk chutes, incinerators, garbage dis-posal units, built-in refrigerators, built-in electric ironers, streamlined, condensed heating facilities.

Through years of practical experience, the builder learns the wants and needs of the average buyer in his community. Tradition will be hard to break.—N. P. NINNEMAN, Camp Hill, Pa. (400)

Basement Furniture

THE main change I will make in my post-war homes is to improve the appearance of basements by finish-ing them with knotty pine and also by building furniture out of the same wood. I also plan to improve layouts of kitchen cabinets and to pre-cut materials with our equipment.-NATHAN D. MICHELE, Chicago. (150)

Radical Changes Are Nightmares

IF Government regulations remain, the progress or improvement will be NONE. However, if conditions approach normal, I intend to go back to past construction methods, feeling that so-called streamlined construction and great change in architectural design are just nightmares of men without practical experience.-JOHN B. MARTIN, Oklahoma City. (300)

A

b

43.

reand uct can or car ghuse inin ent, hat find blic W)

iver lopted, ent-

use andfabostical.

the than ON,

l be

h as

ase-

ks to milk

dis-

tors,

ined.

peri-

ants er in

1 be

IAN,

n my

e the

also same

e-cut ent.-cago.

main, rill be is apback celing struchitecres of nce.—

City.

4 Houses like this -

built to find the truth about insulation



Checking wind velocity by timing period between flashes of lamp activated by electric cup anemometer.

What will insulation do? How much fuel will it save? What thickness is required? These are questions that cannot be answered completely by laboratory tests and slide rule calculations.

The real truth can be obtained only by accurate tests in actual houses-on the job.

To get this exact proof, the Wood Conversion Company built four identical houses, each completely equipped with the most elaborate of testing devices and conducted the most complete testing program on insulation ever attempted.

No factor was overlooked by trained engineers who compiled test data night and day making up to 1,200 readings each twentyfour hours during certain periods throughout the entire heating season. No effort was spared in making these tests authentic and as exact as humanly possible.

Today the results of these tests are available to architects without cost or obligation. Here are new findings—exact findings—new data on insulation efficiency—facts that will help you to judge insulation values better. Mail the coupon today for your copy of the study as presented to the American Society of Heating and Ventilating Engineers.

Balsam-Wool

SEALED INSULATION

WOOD CONVERSION COMPANY	
Dept. 119-5, First National Bank	Bldg.
St. Paul, Minnesota	
Please send me complete scientific o insulation tests.	data on the Wood Conversion Company
Name	
Address	
City	State

N O CRYSTAL GAZING NEEDED!

ARCHITECTS need no seer to prophesy what people will want in their dwellings of tomorrow. Factual information is available. Recent surveys show two major wants for postwar housing: better fenestration, and better use of space. For a full treatment of both subjects—with dozens of illustrations—you'll want the New "Open House"—a carefully planned 32-page booklet available to architects without charge. For example...

LARGER WINDOW AREAS will make postwar homes more cheerful, more attractive. Note the modern arrangement of the weather-tight windows at right. For such windows, durable toxictreated Ponderosa Pineis the ideal material to withstand variation in temperature.

TOMORROW'S IDEAS of economy are fully met by assembled stock window units of Ponderosa Pine. Such windows are precisionmanufactured to cut down installation labor and cost provide greater weather tightness—assure easy operation.

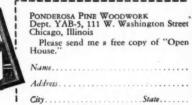
SPACE WILL WORK HARDER in postwar houses. In this photo, notice how the French doors of Ponderosa Pine create extra living space and permit maximum access of sunlight and fresh air. Ponderosa Pine makes such effects possible at low cost.



Ponderosa Pine WOODWORK

111 West Washington Street + Chicago, Illinois

You'll want to use the New "Open House" as a source book of ideas for postwar bousing. A copy is yours without cost or obligation. Just mail the coupon.



War Housing Items-Cortright

(Continued from page 58)

property and converts it into facilities for war workers, appears to be making progress. Leases have been signed for houses and buildings to provide living quarters for 4,000 war worker families. About 5,000 additional family units are expected to be placed under lease in April. At least 20,000 more should be supplied through applications on file, according to a recent announcement.

HOME OWNERSHIP. "OUR CIVILIZATION IS BASED ON HOME OWNERSHIP. THE GREATER THE NUMBER OF HOME OWNERS, THE GREATER THE STABILITY OF A GOVERNMENT AND THE DETERMINATION OF ITS PEOPLE TO PROTECT IT."

These words of the late Arthur Brisbane succinctly express our belief in the importance of home ownership. In opposing the directives of OPA, NHA and WPB which have consistently militated against the purchase of homes during the war years, we have carried on this fight with a deep conviction of its absolute essentiality to our economy and our democratic form of government.

PROBLEMS WITH OPA. Our Washington Committee continues to urge that OPA revise its ruling that homes may not be sold to other than the tenant unless a 1/3 cash downpayment is made. During the last six months innumerable conferences have been held on this subject, and a sympathetic attitude is now shown by Prentiss Brown and Paul Porter. If this payment is substantially reduced, it will relieve the pent-up condition now existing, permitting many people to acquire homes and invest a portion of their war earnings.

FOR LANDLORDS. Of greater interest to builders is our current appeal to OPA that they permit a second month's payment in the rental of war housing. We have held that such a deposit to insure performance of the contract, and proper usage of the housing, can by no reasonable interpretation be considered as raising the rent level. Such deposits have been a general practice in the past, and there is no good reason why they should not be permitted during the war years. Builders have no assurance that they will not abuse the premises and move without notice, as they are already doing.

HOUSING VS. ABSENTEEISM. The effect of improved housing conditions in certain industrial areas is now being reflected by a decrease in absenteeism with a corresponding increase in production. Employers in the copper mining and smelting areas of Texas and New Mexico report a decrease of 8% to 10% in absenteeism since the completion of the NHA programmed war housing in those areas. Production during this period has increased as much as 35%.

BATTLE OF WASHINGTON. Our readers should understand the function of coordinators. The latest definition is "A coordinator is one who tackles disorderly confusion and creates regimented chaos."

HUMOR. To prove that Government officials are not lacking in a sense of humor, we give you the phrasing of a sign now appearing on many desks—"The difficult things we do immediately, the impossible takes just a little longer."

RATIONING. A prominent official was observed being pushed in a wheel chair through Union Station one morning last week. The taxi driver (who told the story), thinking him a cripple, was surprised to see him walk from the chair to the cab in his stocking feet. He explained that his shoes had been stolen on the train. After waiting an hour for the nearest shoe store to open, he tried to purchase a pair of shoes. However, we have heard he is still in the store, or walking the streets in his bare feet, as his wife had already used his No. 17 Ration Coupon. Thu two the t is c hold

expla lign: fiber of va Th

so as

, ap-1 for 4,000 units 0,000 cord-

943

IS TER TER THE ECT y ex-

have uring cond our

mittee s may downerable thetic orter. ve the ple to nings.

is our 's paysuch a proper ion be e been reason years. se the doing.

proved being onding ng and ecrease of the luction

ld unition is on and

ot lacka sign we do r."

being norning hinking he chair is shoes for the pair of tore, or already THE secret of Presdwood lies in the two basic elements of natural wood: the tiny *cellulose* fibers, of which wood is composed, and the *lignin* which holds the fiber together.

STORY OF A 9-YEAR BATH

The Masonite process starts with exploding wood, neither removing the lignin nor damaging the cellulose fiber. The result is a mass of fiber of varying degrees of plasticity.

The next step is to interlace the fiber so as to provide equal strength in all directions, and then weld it together under varying heats and pressures, using lignin's own great bonding power.

The Right

MASONITE

Masonite Presdwoods—made in this way from ligno-cellulose fiber of varying degrees of plasticity in different weights and densities — are suitable for many special purposes and uses.

Today in America's War Program, Presdwoods have more than 500 uses — saving steel, aluminum, rubber,

.

and other critical materials, and are not readily available for civilian use. After Victory they will again be ready to provide the homes you build with sturdy exteriors, beautiful walls and ceilings, built-in furniture, kitchen cabinets and counter tops, and many other attractive features. Masonite Corporation, 111 West Washington Street, Chicago, Illinois.



⁴Trade-mark Reg. U. S. Pat. Off. ⁴Masonite⁴ identifies all products marketed by Masonite Corporation. Copyright 1953, Masonite Corp.

• It started in 1934 — when a ligno-cellulose hardboard was submerged in water. It ended the other day.

• What had happened in that 9-year bath?

• This remarkable material, known as Masonite* Presdwood,* had retained 80% of its original strength.

• The board, when dried, was within 10 one-thousandths of an inch of its former dimensions.

• Its appearance was practically the same as when submerged.

THE LIGNO-CELLULOSE HARDBOARDS

MASONITE PRESDWOODS

E

Am

See Your MINERAL WOOL Supplier without delay...



Develop Your Insulation Business NOW!



To encourage insulation...this spring and summer...FHA will insure loans with first payment deferred until November first

Ease of application (batts, rolls or pneumatic), availability, wide acceptance, economy . . . plus the above U. S. Government Cooperation . . . make mineral wool your number one profit consideration.

Army cantonments, planes, ships and tanks are using mineral wool for protection against cold *and* heat. War demands will continue heavy, but this year there will be an ample supply for the early buyer of home insulation.

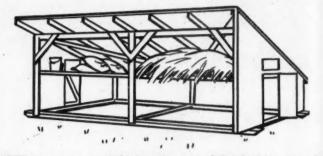
NATIONAL MINERAL WOOL ASSOCIATION

1270 Sixth Avenue New York, N. Y.

Build Farm Structures

FOR contractors in rural areas, and for builders with facilities to shop fabricate and ship to farmers, the utility multi-use hog house is a practical line production building.

One of the advantages in building such a farm structure is the fact that it can be used in so many ways, as is illustrated by the drawings accompanying this article. Further, this structure is easily built and can be trucked to any farm and sold to farmers without taking into consideration the \$1,000 limit imposed by L-41 on farm construction. Inasmuch as the building is on skids and can be moved from place to place, a number of WPB regional officials have held that this type of building need not be considered new construction in the

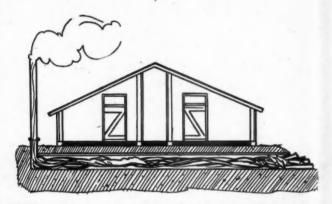


OPEN in summer, sunlight has chance to kill infection; space for feed and equipment out of the way.

sense used in L-41. As farm labor is short and the farmer extremely busy growing crops there is no one to make or repair buildings for the farm. Therefore, this situation has created a wide open market for the carpenter, contractor or builder.

Buildings such as these are not innovations, but have actually been tested under farm conditions by the Doane Agricultural Agency which has created them. Their practicality has been proved.

Any contractor with a crew of carpenters that he want to keep busy can very profitably engage in this work be-



CLOSED in winter; easily heated using trench to bring in heat from outside the building.

cause of the ready sale farm buildings have today.

If you are located in a rural area, one of the simplest ways to merchandise such buildings is to advertise in the local papers, using copy similar to that which H. E. Kennedy used in Litchfield, Illinois. A sample of one of the ads he ran accompanies this article and he has reported that the results he is obtaining from advertising are keeping him (Continued to page 78) ADV ING the belo in b tract

943.

Ig.





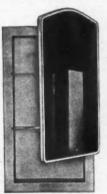
Showing Carey Cabinet No. 640 and Soap Holder No 4022 Photo courtesy Henry Weis Mfg. Co. (Weisway Showers)

BATHROOM CABINETS and ACCESSORIES "Reflect Good Taste"

Production of Miami *metal* cabinets and accessories has been discontinued for the duration, but some models are still available from Distributor's stocks.

Architects have long looked to Miami for the ultimate in modern bathroom cabinet design and conveniences, and after Victory is won, these fine metal cabinets will again be available in the most advanced designs.

ATTRACTIVE WOOD CABINETS



No. 103W

Meanwhile, Miami Wood Cabinets are doing a good job of "pinch-hitting" in war housing and wherever replacements are necessary. These units, now in production, are available in quantity, and are equipped with convenience features that are standard in Miami metal cabinets.

Complete details and catalog sent on request.

Write Dept. AB

MIAMI CABINET DIVISION The Philip Carey Mfg. Company-Dependable Products Since 1873 MIDDLETOWN, OHIO

WESTERN PINE ADVERTISING

is encouraging people from Coast to Coast to plan

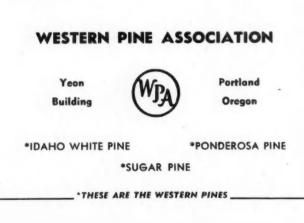
NEW HOMES

An analysis of the letters received in response to our national magazine advertising indicates that thousands of people are not only planning to build new homes after the war, but are saving money for this purpose. Alert builders, contractors, and lumber dealers will find it pays to constantly keep in contact with these prospects.

WESTERN PINE CAMERA VIEWS HOME BUILDERS



FREE! You should have a copy of "Western Pine Camera Views" to see how it stimulates interest in postwar building. This profusely illustrated book shows exteriors and interiors of all kinds of homes. Sample copy is free—just write on your business stationery to Dept. 5 B.



Build Farm Structures

(Continued from page 76)

busy. Although all the advertising he runs is not on farm structures, he has stated that his advertising in general is keeping men busy in about five places.

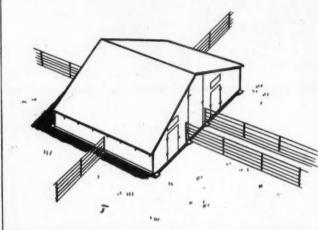
Some of the uses to which this farm structure can be put are explained below.

The utility multi-use hog house might better be called a utility animal production house, for this particular structure serves many purposes at a designed low cost of construction.

This unit includes the sanitary advantages of the portable hog house with the central control features of the centrally located house. It is built in two sections, each with two pens.

During the winter the house forms a tight, gable-roofed building, easy to heat, with a central passage for the convenience of the farmer.

The house, however, divides at the ridge of the roof for use in summer. Each section can then be opened to the sun, protected from rain by the overhanging roof, providing a healthful housing for two sows and their litters. Each section



Als

FOR c air to

can be is a bi on a i meet cost. The tion c

I

FOR to

They o

land this need

of ma Poi house

-San

farrow

as con

winter

pen w

house

placea

mer s (10.)

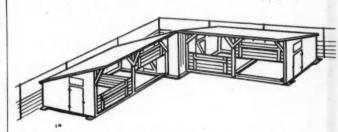
poultr

ONE method of using a fence so that each sow and her pigs have separate pens for first six weeks.

is mounted on two skids with replaceable skid shoes, and is individually portable.

In the winter a stove may be placed in the alley way out of reach of the sows and pigs and not in contact with the bedding straw. However, a trench similar to the one shown in the accompanying sketch can be used to bring heat in from outside the building.

As sunshine is the best infection killer known, the building



THIS arrangement is suggested for sheep raising. Place at right angles within a fenced enclosure.

has the advantage of coming apart in two sections so that the area can be flooded with sunshine. For coolness each unit can be raised up 10 to 15 inches on blocks to permit air to circulate around the hogs while it still acts as a shade and protects them from rain. A few loose boards laid across the top of the pens will provide plenty of space for all the feed and equipment needed for the hogs and while these are out Amen of the

without As of to rail while One the skew

as to own p pigs e Thi shelter a fend

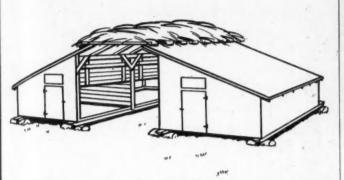
79

of the way and take up no floor space they can be reached without getting into the pens.

As can be seen from the illustration this building is designed to raise a maximum number of hogs in a healthful way while keeping the loss per sow down to the minimum.

One useful arrangement for growing hogs is illustrated in the sketch showing the house placed on the fence line so as to provide separate outside pens for each sow and her own pigs. Some farmers prefer to keep a sow with her own pigs exclusively for from four to six weeks.

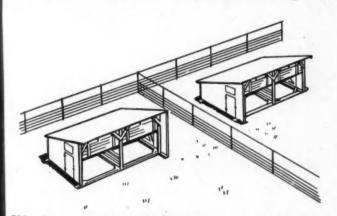
This same building, however, makes an excellent sheep shelter, and lambing pen, when placed at right angles within a fenced enclosure.



FOR coolness raise each unit 10 to 15 inches on blocks to allow the air to circulate around the hogs.

Also in growing turkeys the open halves make good turkey range shelters because they are easy to move. They can be moved to any part of the turkey range quickly. This is a big advantage for turkey farmers who run their turkeys on a range that has little natural shelter. Also these houses meet the most important requirement of rain shelters, low cost.

The portable feature of the house permits feeding on rotation crop land which is desirable in modern farming. The



FOR turkey range shelters, the open halves can be used as shown. They can be moved from one point to another.

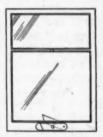
and thus receives the full benefit of the manure where it is needed without the cost of labor for hauling and the use of machinery.

Points worth considering in connection with this hog house are as follows: (1.) Low cost per sow. (2.) Portability -Sanitation plus the labor saving facilities of a central farrowing house. (3.) Less outside wall exposed to weather as compared to single unit houses, making warm quarters for winter farrowing. (4.) Place for stove without being in pen with sows. (5.) Straw loft if desired. (6.) Place for feed buckets, troughs in each unit. (7.) Room to work in the house without being in the pens with the sows. (8.) Replaceable skid shoes, protecting the skids. (9.) Provides summer shade and spring and fall quarters for sows and pigs. (10.) It may be used for calves, sheep or range shelters for poultry. (11.) Is movable through any 10 ft. gate.



FOR STANDARD 2 x 4 FRAME, THIN WALL OR MASONRY CONSTRUCTION

Units are completely assembled. No fitting is necessary on the job. Sash and frame are of white pine, toxic-treated with water repellent "Woodlife." Windows are set right in studding, requiring no frames, sash weights or balances. Flush-type lock handle is an exclusive design feature. Standard sizes: 2 to 4 lights wide by 2 to 4 lights



Inside storm sash easily removed for extra ventilation and window washing.

high. (1'-111/2" to 3'-31/2" wide by 2'-57/8" to 4'-77/8" high.) Units can be glazed with standard size lights. The Pella Awning Window complies with Federal Housing Authority Specifications. Sizes can be readapted to your specifications if guantities warrant.

Rush your request for FREE, full size details to the Rolscreen Company, Dept. 353, Pella, Iowa



943.

farm ral is

an be

lled a struccon-

rtable ntrally pens. oofed r the or use

e sun, ling a ection

is have

and is

av out

ith the shown

heat in

uilding

at right

so that ess each rmit air a shade d across the feed are out



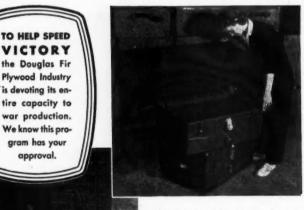
• The Army has ordered 5,000,000 of these rugged, lightweight plywood foot-lockers for soldiers' clothing. Each foot-locker requires 25 square feet of Douglas Fir Plywood. Among the firms manufacturing them is Seattle Luggage Corp.



We're "chesty" about CHESTS!

Douglas Fir Plywood is being used to build millions of them for the Army!

• We're proud that Douglas Fir Plywood's light weight, great strength and durability make it a preferred material for Army chests. We're also proud that this Miracle Wood's many advantages are enabling it to do hundreds of different war jobs. For the more ways Douglas Fir Plywood serves now, the more useful it will be to you after the war is won.



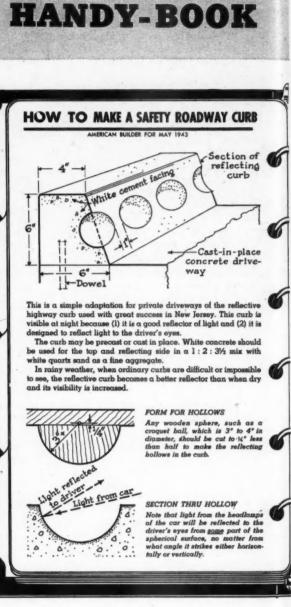
• More than 100,000 of these chests for Army Signal Corps communica-tion equipment are in use on various battlefronts and outposts. These sturdy chests are built of ½-inch Douglas Fir Plywood faced with plastic sheets. (*left*) Even the trays which fit in these chests are plywood.

SEND FOR OUR FREE WAR USE FOLDER

Dozens of actual photographs show you how Douglas Fir Plywood is aiding the war effort. Write Douglas Fir Ply-wood Assn., Tacoma, Wash., for your free copy.

DOUGLAS FIR

Peal Lumber MADE LARGER, LIGHTER SPLIT - PROOF STRONGER



American Builder

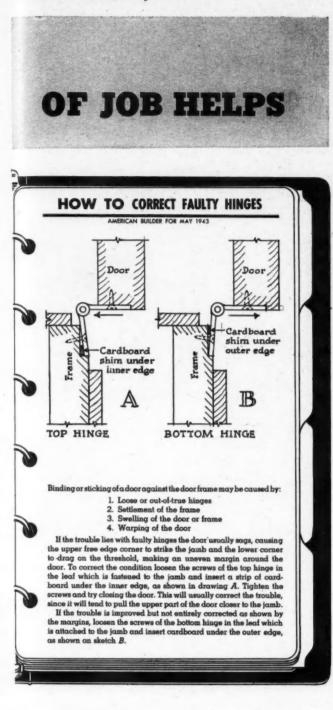
Short Cuts & Time Savers

American Builder's Job Helps appear each

American Builder's Job Helps appear each month as part of an editorial series begun in the January issue. The purpose of this series of articles is to provide builders with practical "how-to-do-it" data for office or on the job. Subjects covered in the series thus far are: How to Find Volume of a Pile, How to Make a Secret Door, How to Estimate Roofing, How to Finish a Damp Cellar, How to Estimate Roll Siding, How to Find Slope of Valleys, How to Estimate Painting, How to Specify Backwards, How to Estimate Painting Labor, How to Plan a Closet, How to Make a Batten Door, How to Estimate Cement in Mortar, How to Make a Door Closet, How to Prepare Plaster for Paint.

1943.

¢/s



A Continuing Editorial Service

"Job Helps" is a continuing editorial service feature appearing in serial page form monthly. The information is arranged in convenient 3 x 5 notebook page size so that it may be filed or used on the job. The sheets are not for sale or available from any other source than the editorial pages of American Builder.

Additional Job Help sheets appear on the following pages.

Among numerous letters commenting on this 'Job Helps" department have been requests from builders for notebooks in which to file the sheets, American Builder does not have notebooks for sale.



a sharp angle . . . no tendency for the safety guard to clog even when you push the saw hard.

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

+

You'll use it in all the tough spots, and particularly where you want to finish a job fast with a minimum of man power. It's a sturdily-built, all-around saw that's actually cheaper in the long run. In fact, you're losing money every day you don't own one. Find out today. Ask your local dealer or Porter-Cable representative (name in classified 'phone book.) Or drop a postcard for full details.

PORTER-CABLE MACHINE CO. 1721-5 N. Salina St., Syracuse, N.Y.

Being an American Builder in Wartime



AMERICAN builders in wartime must concentrate on jobs which further the war effort and save critical materials and transportation. Such jobs include essential improvements in factories, on farms and for war housing.

Modern concrete construction methods get essential work done with minimum use of steel or other critical materials. Because the bulk of concrete ingredients are usually found locally, there is little burden on transportation.

WAR INDUSTRIES—Concrete loading yards, floors, platforms, ramps, machinery bases, anti-sabotage walls, factory additions and repairs are urgently needed in many places.

FARMS—Weatherproof, firesafe poultry houses, dairy barn floors, hog or cattle feeding floors, paved barnyards and ratproof granaries save labor and help farmers to raise and preserve more food for war.

WAR HOUSING—War housing requires concrete for walls and floors, walks, driveways, steps, porches, retaining walls, streets, gutters and curbs.

Helpful literature on uses of concrete is available on request.

PORTLAND CEMENT ASSOCIATION Dept. A5-3, 33 W. Grand Ave., Chicago, III.

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

BUY MORE WAR BONDS ... SUPPORT THE RED CROSS

American Builder HANDY-BOOK HOW TO EXPOSE WOOD SHINGLES NUNDER FOR MAY 1943 4 Layers 3 Layers 412 21 SHINGLES 18, NGLES -Aun Roofs having a slope of less than 6" per foot of run not only require heavier framing to carry the load, but also must have a smaller exposure. For these reasons, the flat slopes are not generally used, exposure. For these reasons, the flat slopes are not generally used, although in the South where no snow load has to be provided for, the flatter slopes are sometimes employed with wood shingle covering.

New FHA Finance Plan To Aid Fuel Saving Jobs

TO assist the national drive for fuel economy, the Federal Housing Administration has established a delayed payment plan for loans insured under its Title I program which finance fuel conservation installations this spring and summer, Federal Housing Commissioner Abner H. Ferguson announced April 24.

The FHA has notified the 5,000 private lending institutions authorized to operate under its Title I program that initial payments on loans made between April 20 and September 1 may be deferred until November 1, 1943, if the entire proceeds are used for the conversion of heating equipment to the use of other fuels, for application of insulation within existing structures, or for installation of storm doors, storm windows, or weatherstripping.

In making this liberalization of its Title I loan terms, the FHA's objective is to encourage home owners to underAme

tak

son

nex

fue

cla

ass

Sur

def

ava

and

mo

Sy

res

in

of

str

wi

ł

43.

eral Day-

nich

um-

son

itu-

that

em-

tire

thin

orm

ms.

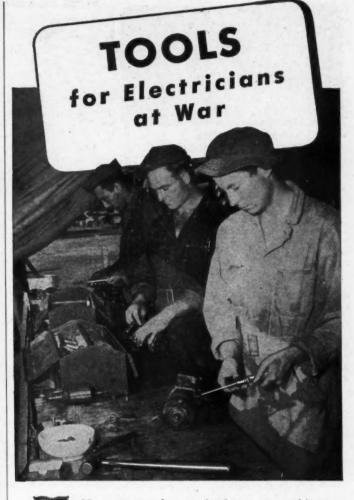
ler-

	Viena .	-	1. Secol
			. DAINT
HOW TO M			L PAINI
*	MERICAN BUILDER	FOR MAY 1943	
3 60	ATS ON N	EW WOOD	
Ingredient	Primer	Body Coat	Finish
White Lead*	100 lb.	100 lb.	100 lb.
Raw Linseed Oil	21/2 gal.	l gal.	2 gal.
Turpentine Drier	2¼ gal. 1 pint	1% gal. 1 pint	% gal. 1 pint
GALLONS PAINT	8% .	6%	6
2. CO	DATS ON N	EW WOOD	
Ingredient	P	rimer	Finish
White Lead*		D lb.	100 lb.
Raw Linseed Oil Turpentine		l gal	2 gal
Spar Varnish		i gal.	% gal.
Drier		1 pint	1 pint
GALLONS PAINT	55	6	6
2 COATS	REPAINT	ING ON WOO	Ð
Ingredient		lody	Finish
White Lead*		0 lb.	100 lb.
Raw Linseed Oil Turpentine		4 gal 2 gal.	2 gal
Drier		l pint	% gal 1 pin
GALLONS PAINT	65		6
High quality paint co thru a considerable r			
formulae, reducing to proportion slightly, o	he quantity of	oil, increasing the	white lead
means of saving app Paints made accor	reciable quant	ities of oil.	
greater hiding powe			
entirely safe in detern that the paints will h	nining amount	needed for a job.	
	ave a catalace	ory consumery	

take fuel conservation work during the warm weather season and thus prevent a heavy congestion of this type of work next fall, Mr. Ferguson said.

Home owners having funds available should undertake fuel conservation work on a cash basis, Mr. Ferguson declared. The Title I plan, he pointed out, is available for the assistance of those unable to pay for such work in one lump sum. The new delayed payment plan will permit them to defer payments until the start of the next heating season.

Under Title I, loans for heat conservation measures are available through lending institutions in amounts up to \$2,500 and are payable in monthly installments over as long as 36 months. The Board of Governors of the Federal Reserve System have exempted loans for these purposes from its restrictions on consumer credit. Similarly, the construction involved in converting oil or gas burning furnaces to the use of other fuels or in installing inside insulation, weatherstripping, storm doors, or storm windows may be undertaken without authorization from the War Production Board.



Nerve centers for our intricate war machine are the electrical systems ... motors, generators, and accessories of every size and type ... from midgets concealed in automotive equipment, to giant portable power plants that serve a roving army.

In the busy plants that build them, and the thousands of field shops that keep them in repair, the demand for *Tools* is by far the largest in history.

To supply the Stanley Tools necessary to meet this, and other needs of both the war plants and fighting forces, requires our utmost production effort. While the war demand continues, few Stanley Tools will be available for normal needs.

Tools are vital to Victory. Buy only for essential use. Stanley Tools, Division of The Stanley Works, New Britain, Connecticut.





ABESTO IS NOW BEING USED FOR NEW ROOF CONSTRUC-TION BY LEADING ROOFERS ALL OVER THE COUNTRY

ABESTO eliminates hot kettles and hot mopping. It is a cold process application with an exclusive Viscoroid base. Its endurance is proven for built-up roofing and damp proofing.

ABESTO is lower in cost, easy to apply, and requires less labor.

ABESTO means better roofs and gives the contractor a better margin of profit.

Write today for full particulars and specifications.

ABESTO MANUFACTURING COMPANY

131 WABASH AVENUE Michigan City, Indiana

WPB Releases Items (Continued from page 13)

not permitted, WPB recently released for civilian purposes a quantity of such bases and accessories held in inventory. The bases released cannot be used in any other way in war production.

Likewise, restrictions on the sale or delivery of completely fabricated metal windows were removed by amendment of order L-77 on March 19th. It is estimated that about 150,000 of these windows, most of them of the residential type, have been made available for general use.

In connection with the release on metal lath and plastering accessories it is stated that lumber is now so critical that it is deemed wise to substitute metal bar joists for wood joists. This in turn requires ribbed type metal lath for combination forms and reinforcement for concrete slabs over the bar joists. The manufacture and sale of ribbed type metal lath is expressly permitted under the amendment.

War Housing Occupancy Requirements Broadened

Eligibility requirements for occupancy of war housing have been broadened by the National Housing Agency to include otherwise qualified war workers who have moved into critical housing areas since July 1, 1941, and whose efficiency is impaired by temporary or makeshift living conditions, NHA Administrator John B. Blandford, Jr., has announced.

Previously, eligibility has been limited to those workers in this category who had moved into the locality within 12 months of the date of their lease or purchase of war housing facilities. The NHA's present action therefore extends eligibility to workers whose in-migration occurred between July 1, 1941, and April, 1942, and who are not now adequately housed.

New WPB Head Appointed For Civilian Requirements

Donald M. Nelson has announced the appointment of Arthur D. Whiteside as Vice Chairman in charge of civilian requirements. Mr. Whiteside will report direct to Mr. Nelson. The details of the way in which his office will be organized will be announced later.

Title I and Title VI

(Continued from page 13) maintenance of existing structures, loans may be made for amounts up to \$2500 for the maximum term of three years.

Most loans, however, are subject to the Federal Reserve Board's regulation W which limits the maximum term to twelve months. This does not affect loans for insulation or storm sash jobs for example.

HUTTIG Chemical "TREAT"

GIVES WOODWORK Longer Life....

This remarkable combination of water repellent and wood preservative, originated and developed by Huttig, completely impregnates the cells of the wood thus preventing absorption of excessive moisture and preserving its natural grain, texture and beauty. Painting costs are also reduced because this special Huttig "Treat" serves as a preliminary priming coat.

DOUBLE PROTECTION!



The tested toxic wood preserving ingredient gives protection against black mold, blue stain, mildew, termites, fungus, rot and decay.

The genuine water repelling ingredient gives protection against excessive swelling, shrinking and warping from exposure to high humidity, wet plaster, damp, rainy weather or other climatic changes.





This brand identifies the original and genuine Huttig Red-E-Fit "Treated" window . . . the only window that's guaranteed for 25 years against rot and decay. Demand it when you buy.



Specify this Huttig special "Treat" brand on all plain rail windows, sash, doors, frames, blinds, screens and other woodwork that you order.

WRITE TODAY!

Get the full story of this special "Treat" approved by the National Door Mfrs. Association and furnished exclusively by the HUTTIG MANUFACTURING COMPANY, MUSCATINE, IOWA. An

A

of

Sa

the

pu

sal

lan

to

in

to

Restyled Saws on Fighting Fronts

ANOTHER illustration of the stimulating effect the war is having on American industry is given in the account of the restyling of the line of equipment of the American Saw Mill Machinery Co., Hackettstown, N.J.

Saw Mill Machinery Co., Hackettstown, N.J. The output of this company has been in demand since the beginning of the war for a wide variety of war purposes. The Army, for example, is sending complete sawmills with troops, crated and boxed so they can be landed under fire, and yet ready to set up in short order to cut lumber for use in housing and other purposes.

There has been a demand for woodworking machines in all theatres of war. Every air field, for example, has to have one for use in repairing wood parts of airplanes.

n in Mr. Mr. Mr. ay in d will

1943.

eshift istra-

s an-

been

cate-

cality

their

using

ction

vork-

urred

1942, ately

nted

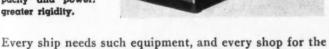
tures,

rm of

ubject reguimum does on or



appearance of oldstyle radial saw (above) is shown at right. New product h as increase capacity and power, creater theidity



repair of truck bodies and other equipment of wood. As part of its program to speed up and improve its products for the armed services, American Saw Mill Machinery Co. decided to restyle and rebuild its line. This resulted in increased capacity, greater power and greater adaptability to many uses, but at the same time it also effected a remarkable transformation in appearance.

Illustrated with this article in one typical example—the Monarch radial saw which was redesigned by Francisco Collura, a New York industrial designer. The restyled product has a substantial streamlined appearance; it actually has a greater capacity and wider range of use, but what is equally important—it looks much more powerful and up to date. The solid base provides rigidity, and at the same time a place for the storage of tools. Working parts are carefully enclosed and protected.

The result is a streamlined product that is already serving on numerous battle fronts, and in the post-war period will be providing builders of the country a more powerful, versatile type of equipment than they have ever had before.

Vento Planning for Post-War Market

THE management of Vento Mfg. Co., Muskegon, Mich., manufacturers of steel sash and specialties, has been improving production technique and making changes in its line of products. With the post-war market in mind, additional items are also being planned to round out the company's group of building products. The management, which changed recently, hopes to be able to make an announcement of these developments within the next two or three months. The new Vento personnel includes Thomas J. Reid of Chicago, president, R. B. McWebb, vice president in charge of sales, and W. C. Krause, vice president in charge of production.

SKILSAW SAWS FASTER!

... SAVES HOURS ON WAR CONSTRUCTION TO SPEED THE DAY OF VICTORY!

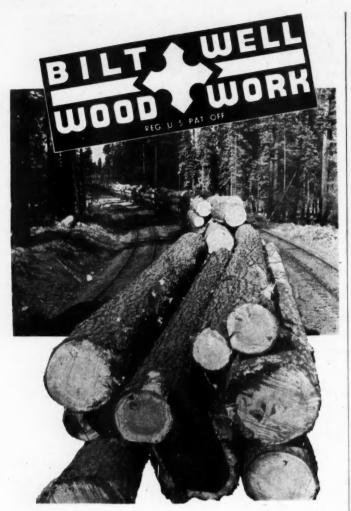
SKILSAW-Sizes plywood for concrete form work · · · faster, better, Makes every cut in wood, metals, compositions.

You'll finish War Projects sooner with SKILSAW because SKILSAW speeds all sawing from start to finish on every job! SKILSAW sizes plywood faster for concrete form work... cuts structural beams and timbers quicker... notches rafters, trims floor and roof decking in less time! On every sawing operation SKILSAW saves minutes that mount up to weeks saved on vital War Construction!

SKILSAW saws faster because it is more powerful . . . yet it's lighter, more compact for easier handling . . . more rugged for longest service without time-wasting breakdowns for repairs. Ask your distributor to demonstrate SKILSAW . . . today! 9 POWERFUL MODELS.

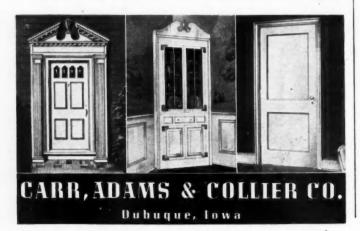
SKILSAW, INC., 5031 Elston Ave., Chicago New Yerk • Boston • Buffalo • Philadelphia • Cleveland • Detroit Indianapolis • St. Louis • Kanasa (Sty • Alanta • New Orleans Dallas • Loc Angeles • Oakland • Portland • Seattle Toronto, Canada





FROM FOREST TO MILL TO AMERICA'S HOMES

Bilt-Well Woodwork products are always made of the best materials obtainable, carefully selected and prepared; carefully designed and fabricated ... a service that only an organization such as Carr, Adams & Collier Co. is qualified to render-



Drills with Plastic Housings

THE Black & Decker Mfg. Co., Towson, Md., has designed practical housings for the ¹/₄" standard drill and the new ³/₆" standard drill, using a new plastic material called "Drillite."

terial called "Drillite." This plastic is made with a shredded cotton duck base, which gives it a high impact resistance, and enables it to withstand considerable abuse and wear. The plastic is also heat resistant, and a perfect insulator against di-electric shock. The housings are smooth and easy to handle, and the lustrous black finish maintains the appearance of the tool.

For long, productive life, steel inserts have been cast into the plastic housings to carry all ballbearings, and threaded steel inserts in the field housing for housing assembly screws. Steel air



ONE-QUARTER-inch standard drill with plastic housing.

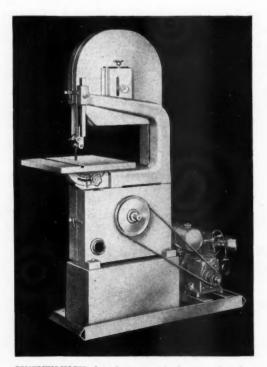
vents in the commutator end housing insure ample motor ventilation. In addition to these marked advantages, the use of Drillite plastic housings makes a definite contribution to the conservation of critical aluminum. Both units are offered with either end handle or side handle control, equipped with the famous "Pistol Grip and Trigger Switch"; and with Universal motors, operating on either alternating or direct current.

Band Saw for Use on Construction Site

THE C. H. & E. Manufacturing Co., 3862 N. Palmer St., Milwaukee, Wis., has just put on the market a 20-inch band saw with 1½ H.P. engine mounted, for on-the-job work.

The entire machine is enclosed with sheet metal guards, has a tilting table, and the saw frame is of cast iron.

The unit can be furnished without power for belt drive, or with electric motor.



TWENTY-INCH band saw which can be furnished without power, or with electric motor.

ca: do

3.

ill a-

ł

١.

tor es, on-

oth dle ind ing

St.,

nch job rds. ive,



Sit in the Pureaire-equipped room where a modern housewife is cooking dinner, and you'll get not a single whiff of kitchen heat or odor. Pureaire's patented ventilation whisks all that away into the outer air.

That's why Pureaire is the ideal kitchen for the small post-war homes-separate or multiple-which you're expecting to build in such

big volume. Every kitchen facility in less than eight square feet of floor space! That's Pureaire.

And at no price penalty too! Investigate — today! But remember — none for sale till after Victory.

TRAVERSE BAY MFG. CO. (Affiliated with The Parsons Co.) 15000 Oakland Detroit, Mich. .

One man fits 75 Doors a Day!

Good carpenters are hard to find, but the men you now have can turn out perfect work, and do it six times as fast with this Carter door-fitting set. One man can handle up to 75 doors and jambs a day!

In the circle, the Carter T3 Templet is shown mounted on the jamb, guiding the Router for hinge recesses. Below, the Templet is shown reversed and mounted on the door, for cutting mortises that match

Qureaire

CARTER HINGE BUTT ROUTER and DOOR and JAMB TEMPLET

Cuts accurate mortises for butts six times faster than by hand. The high speed Router (18,000 R.P.M.) leaves a smooth, flat, accurately fitting mortise. The motor housing screws into the base, permits extremely accurate depth adjustment. Recutting, shimming, or driving hinges are eliminated.

Get the complete details of this important Time-saver. Write for specifications today. **R. L. CARTER DIVISION, The Stanley** Works, 133 Elm Street, New Britain, Conn.

CARTER SAVING TOOLS



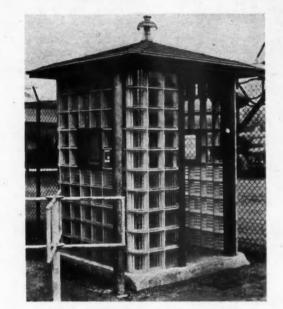
New Products and Ideas

Non-Critical Gatehouse

WITH so many industries engaged in secret war work today, the need for sentinel houses is on the increase. One practical and ingenious solution is the glass block gatehouse that guards the entrance to a midwestern manufacturing plant.

Non-transparent, light-diffusing Insulux glass blocks form the lower halves and corners of the walls of the gatehouse, while inserted panels of clear blocks in the upper portions give the watchman clear vision.

Înside, electric lights and a telephone serve as a control station for guard activities twenty-four hours a day.



GLASS block gatehouse for sentinel duty.

A small electric heater has sufficed to keep the guards warm and comfortable in their glass house on the coldest days of winter, due to the high insulating capacity of the glass walls. The roof is covered with asphalt shingles.

Not only is the glass block gatehouse workable and good looking in itself, but it blends in with the rest of the plant building where glass block is used throughout. With so many industrial plants turning more and more to the use of glass blocks for greater light, privacy and as a replacement for critical metal sash, this new type of sentinel "shack" makes a harmonious addition and can be built with a minimum of critical materials.

Asbestos Cement Conduit Flexible Coupling

A NEW asbestos cement conduit, intended principally for cable installation, is now being produced by The Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio. An outstanding feature of this conduit is the "Flexcaulk"



WOREMAN applying joint sealing compound to asbestos-cement conduit.

and with adva late T fabr to th larg

88

Am

coup

tou

is b com

peri

T

the

peri

in i

for

Onl

Ree A P

is the second

ene

run

T of a

with

surf

Rol

A N now Isla tape over

66]

coupling, which is made for and supplied with conduit. "Flexcaulk" coupling consists of a tubular housing of tough, rigid, blow-resisting asbestos-cement, to which is bonded a liner of time-resisting mineralized asphalt compound, formed into a barrier-type, tapered liner. It permits a flexible, self-aligning, water-tight joint when properly assembled with a joint-sealing compound.

The conduit itself is tough, hard and dense, and meets the demand for an earth enveloped duct system that is permanent, trouble-free, and proportionately inexpensive in its initial installation. It is made in two thicknesses, for installation with or without concrete encasement, is assembled rapidly and cheaply and easily cut on the job. Only unskilled labor and simple tools are required.

Ready-to-Use Concrete Floor Patch

A NEW material for laying a quick, inexpensive, resilient, waterproof floor or patch, over any surface, is the Hercules Speedy Patch made by Evercrete Corp., 19 W. 44th Street, New York City. It is emery strengthened, and may be used for industrial plants, sidewalks, runways, driveways, pointing brick, as well as for basement floors.

This Speedy Patch, which can be used on a surface of any material, damp or dry, fills in all ruts and holes without the necessity of chopping or tearing up the old surface. It comes in red, green, brown, black and gray.

Rolling Wood Grille

ANOTHER new product which has been designed to conserve critical materials is the rolling wood grille now being made by the Cornell Iron Works, Inc., Long Island City, N.Y. It uses wood bars strung on light steel tapes, operating up and down in wood guides, and coils overhead on a horizontal counterbalancing shaft. No wall or floor space is taken up, as the coil is entirely overhead

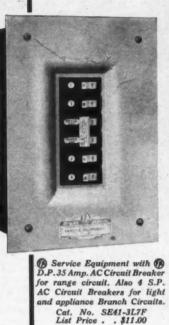


NEW rolling wood grille or barrier which uses a minimum of critical materials.

and out of the way. The grille locks into the side guide with a padlock and hasp on the bottom bar, and offers the advantage of being replaceable with a rolling steel grille later, if desired.

This wood grille makes a substantial barrier, and can be fabricated for opening widths up to 19 feet, with no limit to the opening heights. Operation is either push-up or, for larger sizes, by hand chain or electric motor.

Modern Protection Assured



AND LOAD CENTERS are especially suitable for war housing. With the thin wall wire, which permits additional circuits in the same size conduit, they are particularly desirable, because they afford more circuits in the space occupied by old type equipment. Besides, they afford modern protection. Reasonably priced, the main-

SERVICE EQUIPMENT

TYPE AC

CIRCUIT

BREAKER

tenance cost is negligible. There is a Wholesaler Near You

who carries () Service Equipment and Load Centers in stock, ready for quick delivery. Write us, for his name and address and for Bulletin 63.





FUTURE PREFABRICATION IN OUR SOUTHLAND



We have built more than 10,000 homes in 25 years; we were in the vanguard in giving validity to the prefabrication principle; our credo time is what we make—speed

is what we deliver—quality is what we provide.

Our plant is now in full production, serving industry in its war requirements; after VICTORY we'll be on the alert to serve again civilian needs.

Buy a home in the peace to follow — with the Bonds you buy today.



ase. ock ern ocks the the

trol lay.

ards ldest f the

and

st of 10ut. more

and type

and

pally

The

An aulk"

43.

S

ork

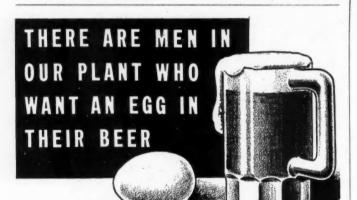


METAL TRIMS Trademarked CHROMED

In the "Chromedge" line you'll find the right metal trim for every floor and wall covering job. It includes a wide variety of types, sizes, and designs, from distinctive, plain-metal edgings to beauti-ful curved-face panel trims and color-insert nosings.

Chromedge trims are designed and manufactured by people with years of special-





The B&T METALS COMPANY

Columbus, Ohio

As the outstanding manufacturers of home ventilators, Victor naturally has more than passing interest in tomorrow's home makers. One thing we know about these folks we can see right in our own plant, and we're convinced it's the same all over. It's the demand for something better - something extra.

One of the things the war has taught us all is a taste for the increased precision in manufacture that is reflected in finer products. When tomorrow's ventila-



tion is ready, we promise it will please the folks who want an egg in their beer.

VICTOR ELECTRIC PRODUCTS, Inc. Dept. 1B-133 Robertson Rd. Cincinnati, O.

An Air Minded Nation ... Victor Ventilation !

CATALOGS AND HOW-

American Builder, May 1943.

37-HOW TO REPAIR FARM BUILDINGS-A timely book prepared by the Agricultural Engineering Department of Johns-Manville entitled, "Repair and Maintenance of Farm Buildings," gives information as to how farm buildings can be made to produce more under wartime conditions, points out the critical parts of buildings, and suggests the repairs that will make them last longer. It also provides examples where non-critical materials can be used to protect and make buildings more productive. The chapter headings are as follows: Bracing of Farm Buildings to Protect Against Damage from Wind and Snow; Hints on Chimney Maintenance and Construction; How to Repair and Rebuild Worn Out Flashings; Repairs to Roof Coverings; Practical Fire Protection; Ventilation and Insulation; Effective Protection, Venna Rodents; Temporary Silos That Can Do a War Job Inexpensively; Some Rules on the Maintenance of Fences and Fence Posts; and Materials Recommended for the Repair and Maintenance.-Johns-Manville Corp., 22 E. 40th St., New York City.

38-HOW TO MAINTAIN ELECTRIC TOOLS-A new 20page, pocket size manual, Booklet No. JE-199, detailing how to obtain maximum service from portable electric tools, has just been published by the manufacturers of Thor electric tools. It contains complete and brief instructions on the proper operation and care of all types of tools, and special attention is given to the more common and simple problems in connection with the maintenance of the motor, cable, switch, and brushes. "Right" and "Wrong" operating methods are clearly stated and pictured with simple instructions. Full information on what to do when a tool fails to operate is also covered.-Independent Pneumatic Tool Co., 600 W. Jackson Blvd., Chicago, T11.

39-NEW FINISHING MANUAL-A 16-page booklet entitled "Architectural Specifications for Painting, Varnishing and Finishing" has just been issued by the Department of Architectural Service of the Sherwin-Williams Co. It is illustrated with black and white photographs, and two pages of color chips cover finishing of exteriors and interiors of private and commercial properties and of structural steel and ornamental metal work .- The Sherwin-Williams Co., Cleveland, Ohio.

40-PLUMBING FIXTURES-The Eljer Co. has recently put out a large wall chart which presents its line of vitreous china fixtures for war housing, industrial installations, and cantonments, feeling that the dealer is anxious to know what is still available in the plumbing fixture line for him to sell. Many types of bathroom fixtures are included.-The Eljer Co., Ford City, Pa.

41-WOOD FINISH TO REPLACE SHELLAC-V-Lac is the name of a new product which has been developed to take the place of shellac, now a critical material. It is described in a small 4-page folder, and gives information as to its use on floors, linoleum, furniture, Venetian blinds, and boats.—20th Century Paint & Varnish Co., Brooklyn, N.Y.

42-WALL CHART OF EXPANSION BOLT AND SCREW ANCHORS-A broadside has been issued by The Rawlplug Co., in which is described and offered a 14" x 20" handy, ready-reference wall chart covering "Expan-sion Bolt and Screw Anchor Dimensional Chart." The Company offers to send one of these charts to any user of expansion bolts requesting it on his busiAme

ness the Lafa

43-9 by th the not but y ertie dust purp Wes ably with but v for a tory ladd blon sidin

44-0 plete folde kitch to in and Com sons

Bldg

45-1 new brick mati Ans Aqu and appl Sixt

46-0 cou duce trati show -TI

SE

Read Amer 105 1 Pleas items

Num Name

Stree

City. 000

*Pleas

943.

N-

book partinteas to more parts make here make s are otect s on w to rs to ntilaainst Job ce of comohns-

20letailtable anuplete and given nnecvitch, nethe inien a ident cago,

t eniting, d by the black chips rivate and s Co.,

cently ne of ial inler is umbiroom y, Pa. s the ed to al. It inforiture,

int & CREW

Rawlx 20" xpan-

rts to busi-

hart."

American Builder, May 1943.

TO-DO-IT INFORMATION

ness letterhead. The broadside explains and describes the chart in detail.—The Rawlplug Co., Inc., 98 Lafayette St., New York City.

13-STORY OF WEST COAST HEMLOCK-A catalog issued by the West Coast Lumbermen's Association presents the story of this particular wood, which was once not highly thought of by the Douglas fir industry, but which, after a thorough investigation of its properties by government technicians and the lumber industry, has been found to be an ideal wood for many purposes when properly manufactured and seasoned. West Coast hemlock has long been used interchangeably with Douglas fir in ordinary construction and with spruce for boxes and other shipping containers, but when spruce was unable to meet the war demands for aircraft lumber, it was tried and found satisfac-tory in every respect. It is also much in demand for ladder stock, is being used in the manufacture of blonde-finish furniture, and in flooring, paneling and siding.—West Coast Lumbermen's Assn., 364 Stuart. Bldg., Seattle, Wash.

44—COMPLETE KITCHEN UNIT—A compact but com-plete kitchen in eight square feet is described in a folder issued by the Parsons Co. This "Pureaire" kitchen is fully illustrated, showing how it is possible to include a range, sink, oven, refrigerator, work space and storage space in such a small piece of equipment. Complete specifications are also offered.-The Par-sons Co., Detroit, Mich.

45-WATERPROOFING PAINT-Aquella is the name of a new paint for waterproofing concrete, cement and brick walls, and a small folder gives complete information through use of the popular Question and Answer form. Some of the points covered are what Aquella is, where it should be used, how it is applied and prepared, and how to prepare the wall before applying it.-Modern Waterproofing Paint Co., 1270 Sixth Ave., New York City.

46-CAREY ASBESTOS CEMENT CONDUIT WITH FLEXCAULK **COUPLINGS**—A 12-page catalog, with covers, intro-duces this new product, giving specifications, illus-trations and results of typical tests, photographs showing its installation, and several detail drawings. -The Philip Carey Co., Lockland, Cincinnati, Ohio.

Readers Service Department, American Builder, 105 W. Adams St., Chicago, III. Please send me additional information items, or the catalogs, listed in this de	(May, 1943) on the following product partment:
Numbers	
Name	
Street	
City	State

*Please note that occupation must be stated if full service is to be given.

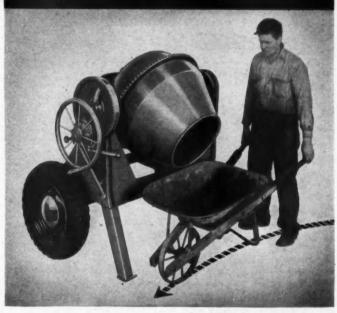
A PRODUCTION MACHINE

for Production-Line Housing!

To successfully turn out the volume production necessitated by ically. One man, operating a war housing developments, you need the time-saving, labor-saving Walker-Turner Radial Saw. Walker-Turner Radial Saw. Busy. Sliding Ram design elimetratives of builders, holding iminates overhanging arm, affords to builders, rate this clear view of work. Patented, geared, shockproof motor permits deep cuts with smaller blades. Priced at only \$354.50 it is promptly available for war work. Get literature. Walker-Turner Co., nous and tenons . . . on wood, metals, transite, tile and plastics

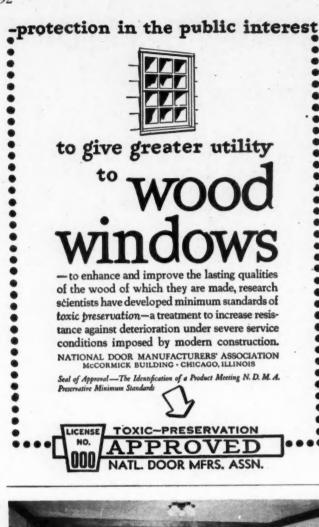


31/2-S TILTING KWIK-MIX



End discharge Air-cooled engine **Light weight** Welded construction Anti-friction bearings Spring mounting High speed trailing Write for Bulletin AB

KWIK-MIX CONCRETE MIXER CO. PORT WASHINGTON . . . WISCONSIN





Keep busy with

Low in first cost—easily and quickly installed, Tile-Tex falls well within the limitations placed on residential remodeling. For example, it costs less than \$200 to install the average basement play room with Tile-Tex or to cover the floor of a residential kitchen. Tile-Tex is non-critical and highly practical for installation on concrete sub-floors at or below grade. Here's your opportunity to keep busy during this period of restricted construction. Tile-Tex is still available promptly in a good range of colors and sizes. Write today for our attractive, full color catalog, "Floors That Endure."

The Tile-Tex Company Chicago Heights

How to Estimate Painting

(Continued from page 60)

the square foot covering capacity for each coat. Blank columns for price adjustments are provided in the tables, and local prices should be entered in pencil to permit erasures for future price changes.

Estimating: The tables give *selling prices for 1, 2 or 3 coats per 100 sq. ft. By moving the decimal two points forward, the 100 sq. ft. figure becomes a price per sq. ft. Example: Varnish on wood 3 coat price 100 sq. ft. = \$4.82, 1 sq. ft. = .0482 or 4-4/5c.

Combination Surfaces: For items such as stairs where two or more finishes are used, prices may be developed by adding the price of each finish used together and then divide by the number of finish prices to obtain an average. For example: a flight of stairs requires: risers, stringers and balusters in enamel finish. Treads and hand rail in stain, filler and varnish finish:

Enamel-3 coat finish (Stairs) \$ 6.70 Varnish, Stain and Filler (Stairs) 11.12

.

•

.

.

.

Total:... \$17.82 \div 2 = \$8.91 = .0891 or 9c sq. ft.

Caution: Use a workout sheet; place all items on it, price them carefully. Remember that a three-coat job means three trips for the painter, and that the minimum charge on a small job must be adequate to enable the mechanic to charge at least 1/2 day and preferably a full day, otherwise any profits will disappear.

Editor's Note: Additional estimating painting tables will appear in the June issue.

Interior Paint Labor Costs and *Selling Prices Including "Make Ready" *Compensation Insurance and *Profit Wit Price Adjustments for Special Surfaces Basis							fit With	
			Des	3				
*Labor at \$1.00 per hour÷ by square feet production = cost p foot.							r square	
Cost Sc	hedule	Base Rat	tes for Fl	at Work	Extra for Special Surface			
1	2	3	4	5	6	7	8	
Sq. Ft. Produc- tion per man hour	Sq. Ft. Less 10% "Make Ready" Allow- ance	Base Cost Price sq. ft.	Add 10% to Col. 3 Comp. Ins. sq. ft.	Add 20 % to Col. 4 Lab. Profit sq. ft.	Add 25 % to Col. 5 for drs. etc.	Add 40% to Col. 5 for wds. etc.	Col. 5	
100 105 110 125 130 135 140 155 150 155 160 165 170 175 175 185 195 200 205 215 220 225 220	90 94 99 104 108 112 122 126 131 135 135 135 135 135 144 148 153 158 162 167 167 176 180 185 189 4 194 194	.0110 0106 0101 0096 0085 0085 0085 0085 0085 0072 0074 0072 0074 0072 0069 0065 00663 00663 00663 00665 00663 00655 00663 00552 0055 0055 0055	.0121 .0117 .0111 .0106 .0102 .0094 .0094 .0094 .0087 .0084 .0087 .0084 .0079 .0076 .0076 .0076 .0065 .0063 .0065 .0065 .0057 .0056 .0055	.0145 .0141 .0133 .0127 .0122 .0118 .0109 .0105 .0101 .0097 .0095 .0095 .0089 .0085 .0089 .0085 .0083 .0081 .0080 .0078 .0072 .0071 .0067 .0067	.0181 .0176 .0167 .0159 .0152 .0148 .0131 .0126 .0122 .0119 .0110 .0102 .0109 .0100 .0104 .0101 .0100 .0098 .0095 .0093 .0090 .0087 .0084 .0084	.0203 .0197 .0186 .0178 .0178 .0178 .0158 .0153 .0147 .0142 .0133 .0129 .0133 .0129 .0133 .0129 .0112 .0114 .0114 .0110 .0104	.0218 .0212 .0200 .0191 .0183 .0177 .0170 .0164 .0152 .0146	

*Any reference to base prices for material and labor of percentages added for labor profit, compensation insurance and sales commission, etc., are illustrative only and have been used in order to illustrate the method of estimating and are not intended to suggest in any way resale prices. All base prices for material and labor and percentages added for labor profit, compensation insurance and sales commission, etc., must be adjusted to meet your local conditions and the standards of your business practice.

Amer Priv

This the ba plan f of yiel

Am plan y housin makin of the

Mar

also pe option with 1 ing t large of ye toap A sma and va the fiv the re gage, his do

for en would of the time 1 built 1 the m The

a sou would job h down guard Am

plan h \$10.00 morte low b 5 per A11 perier

to the work wav will h priva will a not o sailor

Hi

war libera Hous struc shoul finan requi hous dust great undo ects quate Pr ards will

F best bette draw level with

Private Enterprise Program

(Continued from page 31)

This experience should be carefully studied and used as the basis for drawing up a truly workable rental housing plan for private enterprise. In this connection the principle of yield insurance might well be considered.

American Builder recommends a post-war finance plan which will encourage well laid out garden rental housing projects by private enterprise. Garden type projects making up well planned communities are a definite pattern of the future and should be encouraged.

Many builders feel that the post-war finance plan should also permit private builders to sell houses on the flexible leaseoption plan—a method that permits them to provide houses with little or no down payment. Under Title VI war housing the lease-option method has been tried out on a large scale, but has not yet been proven over a period of years. Instead of a house being sold, it is *leased* to a prospective buyer for a term of from three to five years. A small sum guaranteeing the lease is required as a deposit, and varies with the credit condition of the customer. During the five-year lease period the occupant of the house carries the regular amortization and interest payments on the mortgage, and in addition an extra sum each month to apply on his down payment. If the usual FHA down payment is \$300, for example, and the lease period runs for five years, he would merely pay an extra five dollars a month. At the end of the five years he takes title to the property. During that time he has not only accumulated his down payment but has built up an equity, because each month he has been reducing the mortgage.

The lease-option idea should be reviewed to see whether a sound system can be worked out for low cost homes. It would make home ownership possible for millions of stable job holders who are never able to save enough for the usual down payment. Obviously it would require special safeguards as to credit and construction standards.

American Builder also recommends that the post-war plan be set up to permit the private financing of houses up to \$10,000 with a down payment of 10 per cent and an amortized mortgage running for twenty-five years. For houses in very low brackets the down payment might further be reduced to 5 per cent.

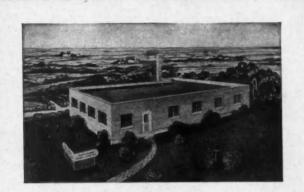
All of the above features have been tried in actual experience. They should be thoroughly reviewed and adapted to the expected post-war conditions. If complete details are worked out in advance and a few test projects gotten under way before the war's end, many months of valuable time will have been gained. If a large home building program by private enterprise can get under way quickly after the war, it will contribute enormously to preventing a slump. It will not only provide homes but jobs for returning soldiers and sailors.

Higher Standards Expected

Higher standards of planning and construction in postwar houses can and should be insisted on in return for more liberal long term financing. In pre-war days the Federal Housing Administration contributed greatly to better construction and better planned home communities. This work should be continued and expanded. In return for liberal financing features the post-war construction standards should require better architectural design, better built and equipped houses, well planned garden communities. The building industry realizes that community deterioration has been the greatest threat to property values and to decent living. The undoubted post-war trend is toward garden type home projects laid out with winding streets, proper landscaping, adequate traffic controls and provision for playgrounds and parks.

Private enterprise builders will benefit by higher standards, the public will benefit and the communities themselves will provide sounder backing for long term financing

will provide sounder backing for long term financing. Forward-looking builders feel that private enterprise's best answer to public housing is to provide better homes and better communities. Through the medium of a properly drawn and executed national financing plan, the whole level of private building can be raised without coercion and without interference with the rights of any individual.



Modern Plant Built to Manufacture Serviceable Portable Electric Tools

FRED W. WAPPAT Portable Electric Hand Saws are now being produced in our new plant at Mayville, N. Y., on Chautauqua Lake. Increased operations, resulting from our improved facilities, are important because all Wappat Saws being made here go to vital

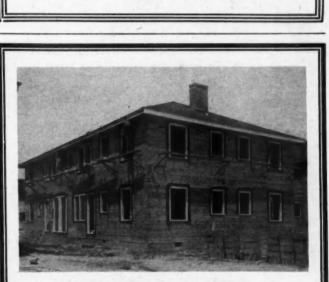
Fred W. Wappat MAYVILLE, N.Y.

wartime construction jobs.



Service to our customers will be as prompt and complete as before. Requests for replacements or accessories for Wappat and Alta Tools will have immediate attention,

★ When they are available without priority, Fred W. Wappat Portable Electric Hand Model A-9" Saws will again be delivered for free trial.



IS THE JOB "ESSENTIAL"?

Then you can get many stock items from our line of "Trouble Saving" units which save you time, labor, and money.

The illustration above shows "Trouble-Saver" Studding Brackets in use on a defense project. Brackets like these fold compactly; last for years; eliminate accidents; and often pay for themselves out of savings on the first job.

The Steel Scaffolding Company, Inc.

1101 North Governor Street

Evansville, Indiana

Blank ables, ermit

1943.

, 2 or points sq. ft. \$4.82,

where eloped I then erage. ingers rail in

= 1. ft. on it.

at job limum ne mell day,

tables

Vith

uare

aces

dd % to 1. 5

tc.

183 177 170

ages added etc., are method of prices. All bor profit, djusted to ctice.

94



American Builder, May 1943.

Duplexes—Low-Cost Housing for Better Post-War Living

(Continued from page 49)

high class residential property. A shopping center, school, and bus transportation are also within two blocks. The grounds are carefully landscaped and include a park area with tennis courts and play equipment for children.

The two apartments in each duplex have four rooms. Three basic floor plans were worked out by Architect James L. Gatling; variety was achieved by varied use of brick, stone and wood siding and by changing the front elevations and color trims so that no two are alike. The houses are $58\frac{1}{2}$ feet long in front and have every appearance of residences valued at \$8,000 to \$10,000. Lots have an average frontage on paved streets of 85 to 90 feet.

In the design of the houses, front porches are provided for some apartments and rear porches for others. This was not only for the sake of variety but for greater privacy for the occupants. Thus in the same house one apartment may have a front porch and the other a rear porch, this being achieved by using floor plan A for one half of the house and floor plan B for the other half.

Heating is provided by means of a Coleman gas floor furnace in the hallway in front of the bath, but for a more homey atmosphere a Humphrey radiant gas burner is also provided for the living room fireplace. Another convenience the men will like is double closets in the bedrooms.

Interior walls are of "dry wall" construction, the wallboard being either papered or painted. Rock wool insulation is provided for the attic. Modern kitchen equipment includes a Westinghouse electric range and electric water heater, a metal cabinet sink and other built-in features. The tile bathrooms are equipped with showers as well as tubs. All the houses have Carey composition shingle roofs. There are no garages, but drive-ins, so occupants may get their cars off the street.

'We did not go into this development just to provide



EQUIPMENT and typical kitchen includes steel cabinet sink, electric range and hot water heater (just out of view).

STREET T

housing said Ev is a pa which v though plished in desi discrimi

Indust Stand

CHAN tiona industria America report of recently Hund

ning profull emp and bett is based views.

"Man employm bility is war plan or world Indus

> who exp war. Jo from th accordin "Man sold on

sold on life as a relativel



Americ

1943.

school, s. The

a park

hildren.

rooms.

chitect

ied use

ng the

e alike.

e every

0. Lots

90 feet.

rovided

s. This

greater

use one

a rear

for one

as floor

t for a

burner

Another

in the

ne wall-

rool in-

kitchen

ge and

d other ed with

ey com-

rive-ins.

provide

sink,

alf.

American Builder, May 1943.



STREET view of Shepherd-Sloss project showing arrangement along surved street; landscaping and park area make them easy to rent.

housing for defense workers, as important as that is," said Everett Shepherd, who with A. Page (Pete) Sloss is a partner in the business. "We wanted a project which would prove thoroughly sound after the war, even though the rent may be some less. We believe we accomplished that in the design and location of the houses. In design and appearance they are all that the most discriminating home owner could desire."

* * *

Industry Sees New High Living Standards After War

HANGES in post-war products and services of an evolutionary rather than revolutionary nature are expected by industrial management to lead to the highest living standards America has ever known, according to a cross-sectional report of post-war plans of industrial companies published recently by the National Association of Manufacturers.

Hundreds of companies have launched peacetime planing programs, embracing the study of means of providing full employment, developing new products, new methods, and better distribution, according to the NAM report which is based on responses to a questionnaire, letters and inter-

"Manufacturers recognize their responsibility for remployment of former workers, and fulfilling that responsiwill be a solution of the major objectives in every company postwar plan, as well as it is of an industry-wide, country-wide or world-wide plan," said the report.

Industrial management is skeptical of post-war planners who expect the world to be spectacularly different after the war. Jobs, manufacturers say, must come as they always have from the sale of goods that the public is willing to buy, according to the opinions expressed to NAM.

"Many manufacturers fear that the public has been oversold on the prospects of revolutionary changes in post-war life as a result of plastics, light metals and other new or relatively new materials and new designs."





MODEL 85 Cutting Capacity 23/4"

Faster, accurate cuts with a MALLSAW reduce sawing and fitting time and save man hours on concrete form construction, framing and trim work. Additional time, labor and lumber can be saved by ganging like members and cutting them at one time.

MALLSAWS also speed up cutting of metal, cutting and scoring concrete, tile and stone. MALLSAWS are packed with power . . . ruggedly constructed for long continuous service . . . are light in weight, easy to handle . . . and perfectly balanced for safe onehand use.

Available for VICTORY Construction with 8". 8½", 9" and 12" blades. Cutting capacities 2½", 2¾", 3", 4¾".

Literature and prices mailed upon request



Kinnear Motor Operated Wood Rolling Doors open or close quickly at the touch of a button. The heavy-duty motor does the work, saves time and labor.

MALL

And coiling upward action saves floor, wall and ceiling space! The doors open out of the way, safe from wind or traffic damage.

Kinnear Wood Rolling Doors also assure highest economy of war-wital metals! Strong interlapping wood slats form a rugged



TOOL COMPANY 7737 S. CHICAGO AVE., CHICAGO, ILL.

> curtain that blocks out wind and weather, yet presents a neat appearance.

> Any size, for old or new buildings. Manual control only, if desired. Write for details today! The Kinnear Mfg. Co., Fields Ave., Columbus, Ohio.



96



American Builder, May 1943.

INDEX TO **ADVERTISERS** MAY, 1943

Abesto Mfg. Co	84
Adam Electric Co., Frank.	89
Allied Chemical & Dye Corporation	14
American Builder	97
American Floor Surfacing Machine Co., The	96
American Roof Truss Company	97
American Saw Mill Machinery Co	3
Arkansas Soft Pine Bureau	4

B B. & T. Metals Co.. Barber-Colman Company.... 66 Barrett Division, The Bennett Fireplace Co... 88 Bruce Co., E. L.... 11

C

C. H. & E. Manufacturing Co	94
Carr, Adams & Collier Co	86
Carey Mfg. Company, The Philip	7
Carter Division, R. L.	8
Celotex Corporation, The	1
Certain-teed Products Corporation	6
Coleman Lamp & Stove Co., The	62
Consolidated Machinery & Supply Co., Ltd	9
Construction Machinery Co	9
Crane Co	6

D	
Detroit Steel Products Company	5
DeWalt Products Corporation	
Douglas Fir Plywood Association	
E	
Edison General Electric Appliance Co., Inc	57
F	
Farley & Loctscher Mfg. Co	96
Flintkote Company, Inc	
G	
General Ceramics Co	21
General Electric Home Bureau	16
Great Lakes Steel Corporation	
н	
Homasote Company	71
Houston Readycut House Co	89
Huttig Manufacturing Co	
Ι.	
Insulite	98
J	
Jaeger Machine Co., The94	-97
Johns-Manville	67
K	
Kawneer Company, The	15
Kinnear Manufacturing Company, The	95
Kohler Company	10
Kwik-Mix Concrete Mixer Co	
L	
Laucks, Inc., I. F	72
Lehigh Portland Cement Company	65

Ame

00

Mall Tool Company	95
Masonite Corporation	75
Mayes Brothers Tool Manufacturing Co., Inc	97
Medusa Portland Cement Co	68
Miami Cabinet Division	77
Mueller Furnace Co., L. J.	70
Mullins Manufacturing Corp.	17

Nat	ional Brass Company, Mfrs	
Nat	ional Door Manufacturers Assn	
Nat	ional Gypsum Company	
Nat	ional Manufacturing Company	4th Cover
Nat	ional Mineral Wool Association	
Nat	ional Steel Corporation	

Overhead Door Corporation. 3rd Cover

P

Paine Co., The	96
Palace Travel Coach Corporation	20
Parsons Co., The	87
Pittsburgh Plate Glass Company	61
Ponderosa Pine Woodwork	74
Porter-Cable Machine Co	81
Portland Cement Association	82

Red Cedar Shingle	Bureau	28
Rolscreen Company	·····	79

Samson Cordage Works Skilsaw, Inc	88
Smith, Inc., Landon P.	95
Stanley Works, The	83
Steel Scaffolding Co., Inc., The	-93
Stran-Steel Division	23

T

Tile-Tex Company	, The	92
Time, Inc		25
Traverse Bay Mfg.	Co	87

υ	
United States Steel Corporation Subsidiaries	59
Universal Atlas Cement Co	59
Upson Company, The	6

V

Victor Electric Products, Inc.

W Wagner Manufacturing Co.

Walker-Turner Co., Inc.	
Vappat, Fred W	
Western Pine Association	78
Veyerhaeuser Sales Company	
Wood Conversion Company	73
Y	
Youngstown Pressed Steel Division	17



FREE ESTIMATES

For free estimate give number of trusses needed, span, spacing between trusses, loading condition and location of job.

> AMERICAN ROOF TRUSS COMPANY Engineers and Constructors of Roof Trusses 6852 Stony Island Avenue, CHICAGO, ILL.

BOOKS ABOUT BUILDING Authoritative information about the designing, construction and financing of buildings can be found in up-to-date books. We will be glad to recommend suitable books on any subject you are in-terested in. BOOK SERVICE DEPARTMENT

AMERICAN BUILDER AND BUILDING AGE 30 Church Street New York, N.Y.



WRITE US

TODAY

.

1-97

TALL TIMBER ... invaluable in War as in Peace

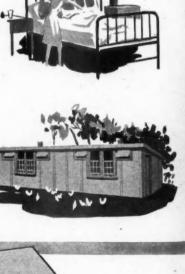
★ A few short years ago, the use of trees was confined mainly to the manufacture of a few products—lumber, pulp and paper. Today, from the natural wood fibres of trees, modern science has developed products of wider usefulness than wood as nature made it.

One of these products is INSULITE. > In the vast Insulite mills at International Falls, Minnesota, in the center of the northwoods, logs are placed into giant machines that grind them to pieces-reducing them to sturdy natural wood fibres.

Insulite has many uses. For example, the lightness and rigidity of Insulite make it a very important material in the construction of certain types of oxygen tent equipment.

✓ Insulite has many structural advantages. Speed in building is important today. It has been used in the construction of many of the nation's war buildings. The large panels of Insulite are rapidly applied. The saving in time is apparent when you consider the many square feet of surface one panel of Insulite covers in one operation.

On farms, Insulite has many uses. Hog houses, brooder houses, laying houses, are quickly built with Insulite, which provides insulation and weathertight construction . . . cattle and poultry are healthier . . . require less feed . . . produce more.



LOOK FOR INSULITE IN THE RED PACKAGE Division

IIIITE

INSULITE Division of Minnesota and Ontario Paper Company, Minneapolis, Minn

98

THE ORIGIN

NOOD

BRE STRUCTUR

ING BOARD

LASTING SERVICE:

943.

Minn.

T

5

OVERHEAD

Quality materials and expert construction are responsible for the unvarying performance of The "OVERHEAD DOOR". Each door is built as a complete unit in any size to fit any opening. With its fast, easy operation, The "OVERHEAD DOOR" provides a weathertight, tamperproof closure, and saves space and valuable man-hours in army, navy or marine structures and war production plants. Nation-Wide Sales-Installation-Service.

> Electric operation is provided for any "OVERHEAD DOOR", the motor size always in proper relation to door size.

> > TED KAUTE 5

X

E WEDGE

Hartford City, Indiana . U.S.A.

DOOR CORPORATION



The appearance of the homes of tomorrow may change—their comforts increase—their livability expand. Regardless of these changes, they will need good hardware. Easy operating garage doors will be a *must*. Reliable hardware for windows, doors and cabinets will be required.

National Hardware will be first choice for thousands upon thousands of builders from Coast to Coast. Our builder friends know National's quality and long life—they know how easily National Garage Door Sets are installed—and they know they can guarantee satisfaction wherever they use National Hardware.

BUY BONDS NOW-TO BUILD HOMES TOMORROW

on P

CO

National

HARDWARE

.

P

p

Sta

WPB

NATIONAL MANUFACTURING CO. STERLIN

CATALOG FREE

Willer

Builders' Hardware

eed