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SEPTEMBER 1953 75 CENTS

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●
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House page 28



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- A NEW way to frame a roof
- Two churches in contemporary design
- Build good will by x-ray methods

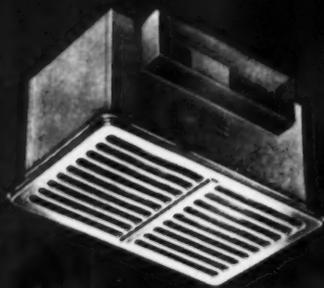
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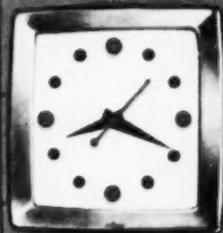
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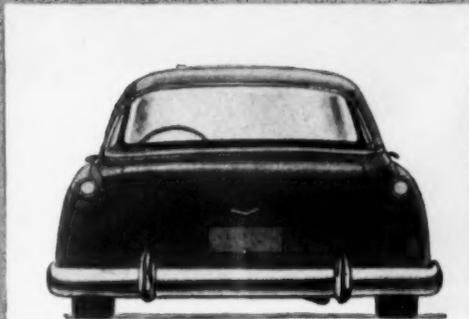
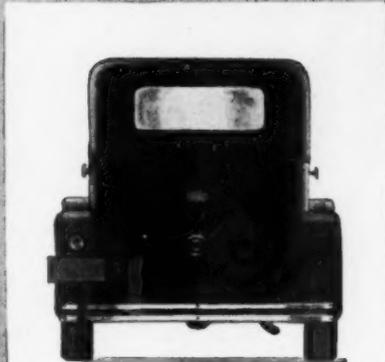
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on modern residential housing

ON THE COVER—Not an interior shot, as might at first seem, this photograph was taken from the outside looking into and through the terrace-dining room of one of the most unusual houses being presented during National Home Month.

This is the "Readers' Choice" house which readers of *Better Homes and Gardens* helped to create. What they wanted, in effect, was a two-story house with the second story sliced off and placed alongside the ground floor. So the house has an "H" plan, its two sections being joined by the terrace-dining room.

Thirty-eight builders, each in a different city, are showing this house this month, as listed in our box on page 32. Behind them is a big story, unique both promotion-wise and construction-wise. We give it to you with enthusiasm, pp. 28-33.

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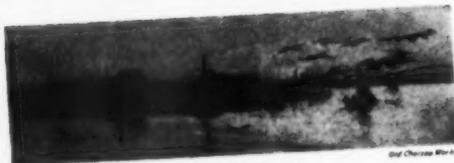
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Samuel Cabot Jr.

Treasurer

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AMERICAN BUILDER

How About the Country Village?

TWENTY years ago two middle western villages about 400 miles apart, in different states, each had populations of about 500 people. Each was served with a railroad, was a short distance from an important transcontinental highway and about 20 miles from a thriving county seat. Both were in rich farming areas, and each had a block of profitable stores. That was 20 years ago. Now, one of the villages has doubled its population, while the other has something less than 300 people.

The shrinking or dying village has only one store left, a desultory general store. It has a school, a lighted playing field, a run-down community house, blacktop streets, an ineffective fire department, a primitive street lighting system, no water system, no sewage, a struggling bank, a physician, no dentist, no barber shop, decaying houses, nine of them for sale with no takers, and little to offer.

The other village has a smart block of prosperous stores, a modern high school with gymnasium, assembly hall and swimming tank, a lighted play field, a nine-hole golf course, paved streets, a water system, a sewage disposal plant, good street lighting, one of the best trained and equipped fire departments in the state, new and modernized houses, and all the charm of middle western living. Many of its people drive daily to employment 10 to 30 miles away.

On the face of things 20 years ago there was no reason why the fate of the two villages should not have been exact parallels. But, behind the face there were two men in

one of the villages who had no counterparts in the other. The two had unlimited faith in the future of off-the-road communities and believed that modern communication and transportation, combined with the fruits of the mechanical and electrical age, could spell new life and virility rather than death for the isolated village.

You guessed it. Their business was home building, and the first thing they did was build new, modern homes for themselves. That demonstrated their intention to stay in the village, as well as their faith in the future of real estate values. Next, came the water system and the reorganized fire department. These did not come easily, nor did the sewage plant which followed. They took a lot of patient selling, and a lot of other work, such as personally running the water system and sewage disposal plant until the village fathers decided to take over. The new school came a little easier. Renewed pride made store modernization fall into line, and after that, everything they proposed was accepted quickly. Merchants and professional men are prosperous, and population and property values rise steadily.

The difference in the two villages was two men in one of them who had justifiable faith, a little more than ordinary imagination, normal organizing ability, and good, sound sales sense. Any builder can change any down-at-the-heels village, on the road or off the road, into a paradise for modern country living. There are thousands of such opportunities for builders everywhere.

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TRENDS in the Building Field

The Extent of the Slum Problem

THE SLUM PROBLEM is one that squarely faces builders. Ultimately builders, financial institutions and city officials will be required to cooperate to reclaim hundreds of square miles of substandard housing that exists in large and small metropolitan areas, as well as in small towns and farm areas.

The 1950 Census of Housing shows that two out of ten dwelling units in urban areas either lack a private toilet and bath, or are in structures that are dilapidated. Surprisingly, the smaller towns (less than 2,000 population) are in the worst shape. Less than half of their dwelling units are without modern plumbing and in a state of disrepair. Plumbing facilities are not so readily available on farms, but it is amazing that in spite of more than ten years of farm prosperity in the United States, eight out of ten farm dwelling units lack a private toilet and bath or are in a dilapidated condition.

THE PRINCIPAL CAUSES of slums are overcrowding and inadequate maintenance of structures. The 1950 census shows that one out of six dwelling units is overcrowded. The census measure of overcrowding is based on occupancy of 1.01 or more persons per room. This means, for instance, that more than four persons occupy a four room dwelling unit. There are examples, of course, of four-room dwelling units which are occupied by eight, ten or even more. Add to this the fact that little or nothing is done in the way of maintenance and the dwelling unit quickly becomes a slum.

It is not always indifference on the part of tenants that creates slums, but more often intolerable conditions that private enterprise has failed to relieve. Public housing has not helped much because it is not extensive enough, it has been built at great expense, and it has created a difficult social situation.

During the last seven years, builders

have built seven million new non-farm dwelling units. Almost all of them have been built at the edge of cities or towns. The only attention given the older residential sections, for the most part, has been subdividing the structures to provide more dwelling units. It is estimated that 1,750,000 new dwelling units were created from 1940 to 1950 by alteration of existing structures. In many cases the result has been the creation of good, but smaller dwelling units. In some of the cases the alterations have been ill-advised, resulting in more slum dwellings.

MANY SLUM BUILDINGS are structurally sound or can be readily repaired. It is inconceivable that vast numbers of them will be torn down. If the overcrowding can be relieved, and if the structures can be improved, they will provide suitable housing for many families. The overcrowding can be relieved by attracting tenants from overcrowded areas to new houses on the outskirts of towns. Special emphasis by builders on low-cost houses and promotion of home ownership will lure many families to suburban areas. When and if the older residential structures are relieved of their overcrowding, they can be rehabilitated from slums by being rebuilt to house fewer people.

It is probable that the majority of slum dwellers are in that 25 per cent of the population whose incomes are less than \$2,000 annually, so housing built to accommodate them would have to be really low-cost. There are notable examples, however, of builders who have built houses recently that were sold on terms of a dollar a day.

THE 1950 CENSUS shows that there are 17 out of 46 million dwelling units that do not have private toilets and baths or are in dilapidated structures. Of these, six million are in urban places, six million in small towns and five million on farms.

Mississippi has the worst housing

conditions according to census standards. Seventy-five per cent lack private toilet and bath. Thirty-two per cent are overcrowded.

The slums of New York may be disappearing. In New York state only 17 per cent lack private toilet and bath, one of the lowest rates in the country. Only 12 per cent are overcrowded.

Dwelling units in the South, from Virginia through Texas, are overcrowded to a much greater extent than those in the East and North-Central regions. They also lack plumbing facilities to a greater degree.

There is a bright spot on the West Coast. In California, where one out of three dwelling units standing in 1950 was built between 1940 and 1950, only 14 per cent lack private toilets and baths in structures not dilapidated, and only 12 per cent are overcrowded.

The slum problem in Chicago has been in the spotlight for several months. Yet Illinois is below average with 33 per cent lacking private toilets and baths and 13 per cent being overcrowded.

Public interest in slums in Chicago has recently been aroused to such a degree that proposals have been made to spend from two to eight billion dollars to eliminate them. The vastness of this program can be judged from the fact that total expenditures for one million new dwelling units each year in the United States runs to about ten billion dollars. There is no doubt that some such program will be carried out, and it will be a welcome cushion for builders and the building trades if, as is expected, the demand for new houses declines during the period 1955-1960. Similar action in other states is called for.

The time to improve the slums is short. After 1960 the building industry will be engaged in building a record number of dwelling units to house the increased population that will be coming of age after 1960.



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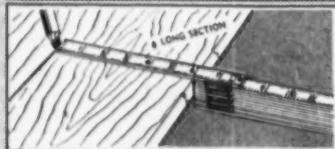
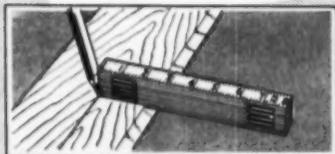


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ON and OFF the RECORD

HOW DO YOU GET PROSPECTS for trade-in selling of new houses, is a question that is asked frequently. For the factual answers consult the feature and news pages of this magazine. The July issue contained some case histories. Subsequent issues will contain others.

THIS DEPARTMENT, however, is not restricted to factual reporting. It can prospect, propose and suggest. So, we will have a try at advancing some new ideas. Some of the suggestions may seem fanciful, but every one is predicated on a known case.

TAKE, FOR INSTANCE, the assumption that everyone who purchases a new home or orders one built for himself is thrilled and satisfied with his buy for several years.

KNOW A FELLOW who had a new custom-styled house built. He was as satisfied as he thought he had any right to be. A few months after he occupied the new house, his Sunday afternoon was interrupted by a stranger who stopped to ask if the house, by any chance, was for sale. The answer was an unqualified NO!

THAT ENDED THE MATTER. Or did it? A few months later the stranger stopped again. Said that since he couldn't buy the house, he had built one something like it in a different setting. Wondered if Mr. Owner would like to run out and see it. This time the answer was yes.

WELL, MR. OWNER, after an examination of the stranger's house, decided that there were a lot of things about the house the stranger wanted to buy from him that he definitely did not like. The stranger's house was more modern, had a better site.

MR. OWNER knew right then that he should have sold his own relatively new house and built what the stranger had.

THE POINT IS that if Mr. Owner's builder needed more business, he could have had it by knowing his "trade-in" possibilities.

IT'S NO CONFESSION of weakness for a builder to at least ask an old customer a year or so later, or four or five years later, if his house

still meets all of the owner's requirements. Any one of a number of things could have happened to make his customer ripe for another new house.

BUT, IF THAT'S a little far-fetched, how about Bill? Bill had raised his family in a three-level, four-bedroom house. In due course his daughter was married, as were his sons. Finally there were only Bill and Mrs. Bill.

BILL AND MRS. BILL knew that they did not want the large house after the daughter was married. The announcement of the daughter's engagement was published in the local papers, but no one came near Bill.

AFTER THE WEDDING, Bill looked for and found a lot in the community, a couple of miles away from his old house. Then he found an architect and a builder. Then he had to sell the old house.

THE WHOLE THING cost Bill a pretty penny both in time away from his job and in cash outlay.

NOW, BILL was a prospect for a new house from the day his daughter's engagement was announced. And there are countless other Bills in the same boat.

WHY NOT GET a prospect list by watching the announcements of engagements in the newspapers? Make one telephone call to see whom the impending marriage is going to leave at home, and if it's only Bill and Mrs. Bill, start to work on them with a trade-in service to save them time, money and headaches.

THEN, THERE'S GEORGE. George came to the community two years ago, and bought an excellent used house. This spring George's firm transferred him to a city 500 miles away. George had to go to the new city, find a lot to build on or a house to buy, put up some earnest money on the house he chose, come back and sell his old house.

THE WHOLE THING cost him several trips to the new city and a lot of time and money trying to get rid of the old house, even though he had a competent realtor doing the selling.

WHY NOT DESIGNATE a clerk to clip notices of personnel transfers in the newspapers? George's transfer appeared in the local papers. A builder in the city from which George was being forced to move could have contacted a builder in the city to which George was moving, and between the two of them there could have been a trade-in transfer. Conceivably it could have been a two-way direct swap, because executive and sales personnel are continuously being moved from one city to another.

GEORGE would gladly have paid what he had to spend himself as profit to the builders involved to engineer the whole thing for him.

THERE ARE TWO POINTS to all this. One is that there is a lot of trade-in going on all the time. It is a costly and often frustrating experience for the buyer. The builder or builders involved can take a good and legitimate profit from the owner who is trading locally or inter-city, and at the same time save money and time for the owner.

THE SECOND POINT is that countless families in all income brackets could be induced to trade up or down if the builder had an efficient trade-in service and advertised that he had it.

ADMITTEDLY there are problems. But if owners have been meeting and solving these problems themselves for ages, and to a large extent that is what they have been doing, the builder with his professional experience should find nothing he cannot solve.

ADVERTISING. On the subject of executive and sales personnel transfers from city to city, has anyone ever tried the monthly magazines of the important lunch and business clubs in the large cities?

FOR INSTANCE, in Chicago there are 10 or 12 lunch clubs or business clubs with a combined membership of probably 15,000 to 20,000 of the city's most prominent and successful executives. Each club publishes a monthly magazine for its members. Many of them are subject to transfer, have been transferred to Chicago, will be transferred from it.

(Continued on page 10)

SEPTEMBER 1953

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No other stairway offers so much

EASY TO OPERATE — The cleverly engineered counterweights operate on LIFE-TIME ROLLER BEARINGS and silently raise or lower the stairway with practically no effort.

RUGGED & STRONG — Construction of No. 1 kiln dried lumber throughout. Brackets, rocker arms and hinges cast of special aluminum alloy. Trim furnished on door panel only. All parts are numbered and interchangeable. Frame is made to fit 26" x 54" opening in ceiling.

INSULATED PANEL — Panel is insulated with Cellufoam and protected with tough chip board.

SAFETY TREAD — Each step is covered with full-width composition safety treads. Adds to appearance as well as safety.

FITS ALL CEILINGS — The stairway fits any ceiling from 7 feet to 9 feet, 9 inches figured from finished floor to finished ceiling. Runners are graduated to facilitate cutting off at different heights. Two standard sizes: 8'9" fits from 7' to 8'9" ceiling, 9'9" fits from 8'9" to 9'9" ceiling.

EASY TO HANDLE — Shipped in 1 package assembled. Precision Stairways are packed completely in one heavy carton, assembled complete with jamb and ready for installation, which offers a considerable savings over other attic stairways. Shipping weight 130 pounds.

EASY TO INSTALL — No adjustments — No springs — Requires no attic space. Full height above attic floor is only 36". Folds completely into 26" x 54" opening in ceiling.

Accepted by F. H. A. Listed in Sweets. Specified by leading architects. Sold by more than 12,000 dealers in U. S. A. and Canada.

Manufactured by

PRECISION PARTS CORPORATION

400 NORTH FIRST STREET — NASHVILLE 7, TENNESSEE

On and Off the Record

(Continued from page 9)

HERE, THEN, ARE thousands of middle- and high-income executives interested in homes for themselves, homes for personnel they are ordering to Chicago, or homes for personnel they are sending from Chicago.

HOW ABOUT a Chicago builder's taking space in some of these magazines and advertising himself as "Chicago's suburban builder for discriminating executives. We specialize in housing Chicago's business leaders." Nothing gaudy. Just a simple, dignified statement with a suggestion that the builder's working arrangements with similar builders in all major cities enable him to handle a complete transaction, including disposing of the house in the city from which the buyer is moving.

TAKE THE WHOLE onerous burden off the shoulders of the newcomer. Meet him and his wife at the train or airport, show them a few new or used houses in the appropriate price class, right location, size and design. Know in advance, through an appraisal made by the cooperating builder in the other city, what the house in the other city is worth, and thus be ready to close on the spot.

AND WHY SHOULD not builders in New York, Cleveland, Los Angeles and perhaps a few other cities place the same kind of advertising in these same Chicago lunch or business club magazines? There's a service to be rendered and a profit to be made.

THE ADVERTISING is pinpointed to people with money who want houses or who influence other people who do.

MAYBE IT SHOULD be added here that the writer does not have an ax to grind, does not know whether these types of magazines carry advertising generally, or whether they would accept advertising from non-members. But it still sounds like an idea worth trying for somebody.

ANYWAY, every builder has a character in performance and a character in styling to sell. He should do general newspaper advertising. But, if he will study his own operation carefully he might find that he can do some very effective pin-point advertising to select lists of prospective customers.

Attention Builders!

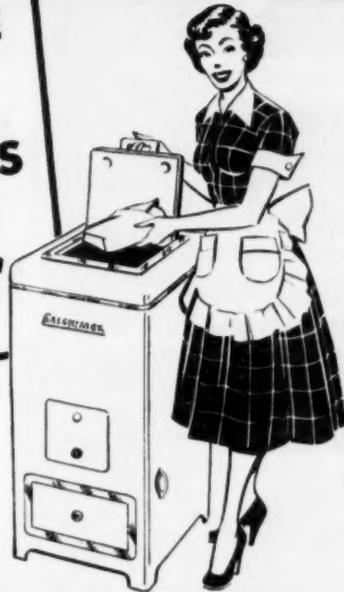
add a BIG PLUS in convenience and sanitation to your homes

WRAP IT

DROP IT

FORGET IT

GARBAGE and TRASH PROBLEMS Gone Forever



CALCINATOR

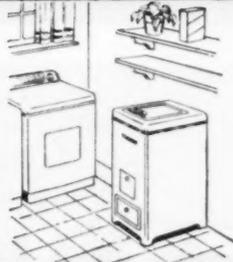
AUTOMATIC HOME DISPOSAL UNIT



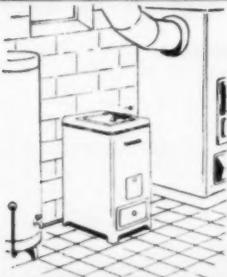
MAY BE INSTALLED ANYWHERE A SUITABLE FLUE IS ACCESSIBLE



KITCHEN



UTILITY ROOM



BASEMENT



GARAGE

CALCINATOR automatic home disposal units provide the builder with a low priced home appliance that has tremendous **BUYER APPEAL**.

When you install **CALCINATOR** in your homes you sell truly modern living—free of garbage and trash problems. **CALCINATOR** consumes *all* garbage and trash right in the home without **ODOR, SMOKE, or NOISE**. Simple installation requires **NO PLUMBING or SEWAGE CONNECTIONS**.

CALCINATOR gives your customers a **BIG PLUS** in value, gives you a **BIG PLUS** in **BUYER APPEAL**. Gas, electric and LP gas models available. AGA and UL approved.

WARRANTED FOR 5 YEARS

ALL OUT COUPON MAIL TODAY

CALCINATOR CORPORATION DEALER

Dept. AB1

BUILDER

28th and Water Sts., Bay City, Michigan

Please send full information and specifications on **CALCINATOR** automatic disposal unit.

GAS

ELECTRIC

LP GAS

NAME _____

FIRM NAME _____

ADDRESS _____

CITY _____

ZONE _____ STATE _____

ELJER BALANCED-CONSTRUCTION Ballcock

long-wearing
cup washer

plunger

plunger bore

plunger bore
clearing pin

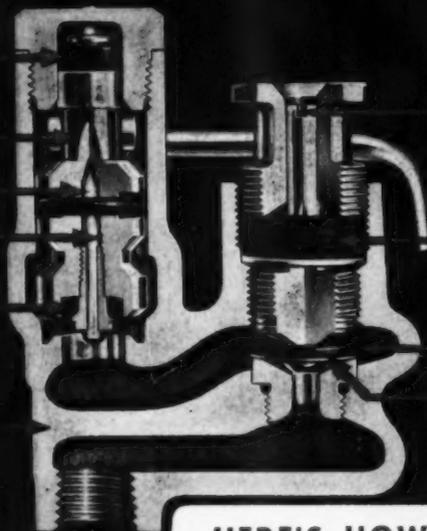
heavy-duty
encased seat washer

high-copper
alloy body

slotted stem for
adjusting quietness

oversize packing

leather washer
stainless steel
screen



Regular Unit
E-9860-LR



Anti-Syphon Unit
E-9861-LR

HERE'S HOW IT WORKS . . .

Snap-Action Shutoff—Water passing upward through plunger bore, as float rises, builds up pressure above cup washer. This creates an overbalance of downward force that snaps the plunger shut at correct water level setting.

Integral Stop and Volume Control Permits . . .

- A. Positive and easy adjustment for quiet operation under high pressure.
- B. Complete shutoff for repair without disturbing main water supply.

Why you should know about this ballcock:

This new ballcock is typical of the *extra quality* you get in Eljer Fixtures and Fittings. It was designed and perfected to operate quietly and efficiently under extremes of high or low pressure . . . and it does just that . . . in assuring trouble-free performance. No other ballcock has so many desirable features.

Snap-action shutoff provides instantaneous closing without water hammer . . . assures longer seat life . . . maintains constant water level, even after years of service.

Extra quality is built into all Eljer Fixtures and Fittings. That's why it's good business to install Eljer. You don't lose time and profits handling complaints. You *add* to the good reputation of your business.

For complete information, see your Eljer Distributor or write Eljer Co., Box 192, Ford City, Pa.



NEWS

FNMA Begins New 'One-for-One' Plan

A new "one-for-one" plan of buying and selling FHA and VA mortgages has been started by FNMA. The plan was authorized by Congress earlier this year, and home builders have called it the "first ray of hope in the money drought."

Under this plan, FNMA will purchase eligible mortgages from an investor equal to the amount of mortgages the investor purchases from FNMA.

This arrangement has the effect of making the investor into a salesman for FNMA. It works like this:

The mortgagee or the builder can go to FNMA and take an option on a specific block of FNMA-held mortgages. He then goes out and becomes a salesman—he sells the block of mortgages to a long-term investor. Then, by paying FNMA a 1 per cent "commitment fee," the mortgagee or builder obtains a firm one-year commitment from FNMA to buy his new mortgages at par.

FNMA holds about \$2.4 billion in FHA and VA mortgages purchased prior to the recent increase in interest rates. The "one-for-one" plan makes this a potential revolving fund from which home builders may obtain a line of permanent financing.

Investors who come to FNMA to buy mortgages will be able to purchase 4 per cent VA mortgages at \$96, and FHA 4¼ per cent mortgages at \$97.75. The new 4½ per cent VA and FHA's will be handled at par. These prices apply on one to four-family dwellings.

When the investor turns into salesman and peddles his block of mortgages to a long-term investor, he will probably find the "actual market value" of VA mortgages is below \$96. In that case the salesman will have to absorb the difference, and that could prove to be a block to the "one-for-one" plan. This discount may be too steep to absorb.

Another possible block to the plan, according to NAHB, is the fee schedule published by FNMA. This includes the 1 per cent "commitment fee" which is charged when FNMA issues its one-year commitment. An additional one-half of one per cent is charged when and if the commitment is actually used.

FNMA is a part of HHFA and Albert M. Cole, the administrator, thinks the "one-for-one" plan will benefit

both the home builders and the government. For the former, he said, the plan gives commitments when the mortgage market is admittedly tight. For the government, it means mortgages will be sold at higher prices than would otherwise be possible.

FHA Will Now Approve Windowless Bathrooms

FHA has advised its field offices that they may now approve mortgage insurance for one- and two-family houses with windowless bathrooms, provided there is adequate mechanical ventilation.

This move was long sought by builders and architects. They claim it will permit much greater flexibility in planning. It will also reduce costs in some cases by the use of back-to-back plumbing.

The new FHA ruling does not apply to garden-type or walk-up apartments.

Wage Rates for Building Trades Continue to Rise

Wages paid to construction workers continue to rise, but the pace is a little slower. This was pointed up by a survey of 85 cities, made by the Bureau of Labor Statistics.

The bureau reported average union wages in the building trades went up 3 per cent in the first half of this year. The increase in the same period of last year was 4.6 per cent.

This B.L.S. survey covered seven major building trades—bricklayers, carpenters, electricians, painters, plasterers, plumbers and laborers.

According to the bureau, the "average" union worker in construction was receiving \$2.69 per hour on July 1, 1953.

Hollyday Suggests 3-Point Program

At a joint meeting of Chicago builders and investment bankers, Guy T. O. Hollyday outlined a three-point FHA program designed to cement relations between builders and FHA.

The three-point program advanced by the FHA commissioner is:

1. Return to judging of appraisals on value by FHA.

2. Closer contact with the law-making powers.

3. Conservation of older areas.

In the past few years builders have registered innumerable criticisms of the governmental agency concerning



Guy T. O. Hollyday
FHA Commissioner

its appraisal techniques. One of the biggest gripes by the nation's builders has been the negligible additional appraisal allowed for good design. Most builders agreed that good architectural design costs money, yet FHA appraisals do not reflect this additional cost. Many other yardsticks of appraisal used by the FHA had little up-to-date value. Builders, it was said, will be pleased to see a new appraisal system based on value.

Closer contact with law makers will reduce the number of conflicting regulations and other stops that Washington has placed on the industry.

Slum rehabilitation will see a streamlining of 207 and attempts at legislation to help conserve existing structures, stated Hollyday.

(Continued on page 16)

Cole Rolls Up Sleeves on Housing Problems

In Chicago August 6, on the first leg of a "shirt sleeve" tour which would take him to six cities, Albert M. Cole, new administrator of the Housing and Home Finance Agency, held an informal, open meeting for all segments of the Chicago housing market. Cole's objective is to take the pulse of local housing leaders in an effort to orient HHFA to housing problems at the grass roots level.

Representing builders at the meeting were Joseph E. Merrion and C. E. Blomgren. Merrion said that in his opinion the heart of the housing problem at this time lies in the freeing of mortgage money. The need is for adequate financing. Merrion advocated the lowering of FHA down payments and close attention by HHFA to the problem of VA mortgages, for which the market is now practically zero, he said.

Blomgren spoke for the small-volume builder and stressed two points. The first was the need for a simplification of the whole FHA-VA procedure. The second was the need for a more even flow of mortgage money, which would enable builders to carry out the long-term kind of planning essential to their product. Blomgren reported that the market for new houses is still good, but mortgage money is not keeping up with it. Like Merrion, Blomgren felt that lower FHA down payments are much needed, though what effect such action would have on the value of the dollar is uncertain.

Middle-Income Units Needed

Keen interest in the problem of providing housing for middle incomes was shown. Asked by Cole to define

"middle income," builder Merrion replied, "An income of from \$4,000 to \$5,000. Any man who makes \$80 a week can buy a home from me."

While some builders have done much to provide housing for this segment of the market, it is a segment which lies mostly between public housing and the volume of building activity by private enterprise. Cole said he was much interested in rental housing, and considerable discussion was directed toward the failure of Section 213, Title II of the National Housing Act to stimulate any volume of cooperative housing projects by middle-income groups.

Jerry Voorhis, director of the U. S. Cooperative League, charged that lending agencies have failed to recognize the value of middle-income housing under Section 213, and called for a strengthening of FHA's work along this line.

City Rebuilding and Public Housing

The indispensable place of properly sited public housing in the city rebuilding picture was generally recognized. Earl Kribben of Chicago's Metropolitan Housing and Planning Council urged the strengthening of

Title I of the National Housing Act to include aid for modernization and remodeling work in conservation areas. He also urged FHA to encourage loans in such areas.

A Mortgage Banker's View

Maurice A. Pollak, president of the Chicago Mortgage Bankers Association, called for an increase in the limits of FHA Section 203 mortgages to match the high cost of building today. He also felt that FHA Section 207 requirements would have to be revised to insure a higher per cent of construction costs, if the building of apartments is to go forward.

Spelling this out for new building in slum or conservation areas, Pollak thought that 90 per cent of construction costs for such projects would have to be insured.

Pollak reported plentiful money for conventional mortgages in Chicago, but not enough funds for the 4½ per cent FHA and VA loans.

Other spokesmen for housing in Chicago included: Oscar Brown, president of the Chicago Negro Chamber of Commerce; the Reverend Daniel M. Cantwell, vice president of the Housing Conference of Chicago; Ellsworth Smith, secretary of the Chicago Industrial Union Council of the CIO; Francis W. McPeck of the Chicago Commission on Human Relations; and Eugene Galbreth, a tenant in one of the city's public housing projects.

After a whirlwind tour of the city, Cole and his party went on to similar meetings in Omaha, San Francisco, Albuquerque, Fort Worth and Dallas, and Memphis.

builder goes to court over a carport

Edgemont Park is a planned residential community of 450 units and a \$2 million shopping center now under way at Lansing, Michigan, by the M. and M. Development Co. Protected by well-drawn plat restrictions, Edgemont Park recently had a chance to test the power of restrictive covenants.

An owner decided to build a lean-to version of a carport at one side of his house. He ignored the Edgemont restriction which requires that all building plans, including garages, be submitted to the developer for approval. The developer sued the owner, declaring that he had not complied with the plat restriction and that the carport as designed was not in harmony with the neighborhood.



One of HHFA Administrator Albert M. Cole's early "shirtsleeve conferences" brought out this group of industry representatives: (Seated at table, far side, left to right) H. M. Dawdy, special consultant to Cole; Miss Annabelle Heath, administrative assistant; Cole; Neal J. Hardy, assistant administrator of HHFA; Samuel E. Neel, general counsel, Mortgage Bankers Association; Brown L. Whatley, president, Mortgage Bankers Association; E. R. Purvis, American Institute of Architects.

Also (near side of table, left to right) Phillip W. Kniskern, National Association of Real Estate Boards; Calvin K. Snyder, secretary of the Realtors Washington Committee, NAREB; Oscar R. Kroutz, executive manager, National Savings & Loan League; Clifford P. Allen III, president, National Savings & Loan League; H. R. Northup, National Retail Lumber Dealers; Norman Mason, National Retail Lumber Dealers; F. Stuart Fitzpatrick, Chamber of Commerce of the United States; M. K. M. Murphy, U. S. Savings & Loan League, and Stephen G. Slipher, U. S. Savings & Loan League.

St. Louis Strike Curtails Residential Building

The early summer construction strike has cut the production of new homes in the St. Louis area almost 50 per cent, according to C. S. Upson, president of the Home Builders Association of Greater St. Louis. Informed estimates place the figure for postponed residential building alone as high as \$50 million, and it is believed that more than 4,000 projected housing units were eliminated from this season's building program.

"The effect of the long work stoppage will be felt next year, too," Upson predicted, adding, "Builders have no new plans for next season, except to finish this year's program of building." He explained that with money tied up in improvements in a subdivision, the completion of which was impossible because of the strike, builders could not plan the development of a further subdivision. He said that this did not necessarily apply in the case of the mass production builders, but more especially was the case of the smaller operation.

The work stoppage, which began in May, involves truck drivers for ready mixed concrete companies in St. Louis and St. Louis County.

Creden Named Public Relations Director of Hines Lumber Co.



Philip A. W. Creden, recently appointed director of public relations at Edward Hines Lumber Co., Chicago, is widely known for his appearances as a public speaker and his activities promoting the welfare of the building industry. He currently is chairman of the public relations committee of the National Retail Lumber Dealers Association, member of the executive committee of the Lumber Dealers Research Council and program chairman for Ponderosa Pine Woodwork



Dickerman's Column

John M. Dickerman, Executive Director, National Association of Home Builders of the United States

What Price Money?

The days of easy mortgage credit are over—and we may as well face it.

Much is heard these days about the "hard money policy." But what is the significance of this policy besides making money hard to get? It means that the whole Eisenhower administration's approach to credit and governmental control of the economy is geared to indirect manipulation of credit, rather than direct controls such as Regulation X. The present administration has adopted the theory that, by controlling credit at its source, all industry and business can be accelerated or decelerated as the national economic health requires. In fact, a gigantic and virtually untried experiment in fiscal policy is currently under way. Its results, while perhaps academically interesting, can have and are having a most pronounced adverse effect on the home builder's ability to secure both permanent and interim financing.

Many in official Washington recognize that the process of "hardening" money (i.e., making it worth more), if pursued too enthusiastically, can result in an economic down-turn. They are confident that, should such a decline become too steep and its momentum unduly swift, ready tools are at hand to check the drift and reinflate to the degree necessary. However, opinion on the practicability of this is not unanimous. Likewise, the political dangers implicit in such a course can hardly be ignored by the administration.

In the meantime, what can the average home builder look forward to in the next several months when he sits down with his lender to talk mortgage money? The chances are he will not be able to get as large a commitment as he would like nor will the terms be as liberal as perhaps he has become accustomed to. Actually, there is—and will continue to be—a marked regional variation in both the availability and terms of mortgage credit. In the Northeast, close to the large financial centers, the builder will continue to have more favorable financing terms. In the South, Southwest and West, while some money will be available, it will cost more, either at marked discounts or at higher interest rates.

Those using FHA and VA will find their problems complicated by the frozen interest levels, and the quota system of large institutional lenders which restricts the total volume these companies will lend in a given area at a given time.

The chaotic condition of the mortgage market in some parts of the country in midsummer was a product of a series of events beginning with the decision of the Treasury to refinance portions of the national debt on longer terms and at higher interest rates than had been in vogue for 20 years. The issuance of the 3½ per cent, 30-year government bonds which unexpectedly began selling at discounts signalled the end of the government's previous deliberate policy of holding down interest rates. Shortly thereafter, the FHA and VA programs were upped to 4½ per cent. Congress then lifted restraints on discounts. Lenders who had previously assured all and sundry that an interest rate adjustment would bring forth an adequate supply of money red-facedly had to admit that their calculations were in error. Money was still tight, if not, in fact, tighter than before the interest rate change.

The picture is not all black, however. Conventional financing remains in fair supply even though at higher interest rates and on less favorable terms. The new Federal National Mortgage Association "one-for-one plan" should assist materially in loosening FHA and VA money. The market should recover somewhat after the glut of lower interest rate mortgages is absorbed. The anticipated decline in housing starts should also relieve the pressure on the demand side of the mortgage market. None of these developments in themselves will produce a plentiful supply. Therefore, builders should proceed cautiously, assuring themselves of firm financing commitments in advance of construction during this period.

Cook Suggests Action to Rehabilitate Chicago Slums

Chicago was the target for a verbal tongue-lashing by G. Yates Cook, director of rehabilitation for the National Association of Home Builders. Cook claimed that slums in the midwest metropolis are the second worst in the country, led only by those of the nation's largest city, New York.

Cook related these facts to home builders and mortgage bankers at a joint meeting held recently in Chicago. This was the 18th city across the nation to be inspected and advised by the rehabilitation expert.



G. Yates Cook, Director of Rehabilitation for NAHB

Cook was one of the key figures in the "Baltimore Plan." He worked for the city administration, enforcing the statutes on sanitation and health. His part in the "Baltimore Plan" makes him qualified for his present position with the NAHB.

Cook looks at blight and rehabilitation areas with almost overwhelming simplicity. He claims, "Any high school student can look at a rundown block and suggest the steps needed to remedy the situation—that part is simple."

Getting the job done is the fight, according to the NAHB expert. It will take the combined efforts of the building industry plus City Hall endorsement and the aroused citizenry crying for rehabilitation.

He warned that with today's high governmental expenditures, blight areas are a bankruptcy factor. Only within the past 20 years have communities added health and welfare departments which today take large slices of the finances.

These are growing each year, yet the housing inventory is decreasing in urban areas and tax receipts are dwindling. It is not economically sound to permit slums to develop, added Cook.

The biggest single problem to be

tackled in this fight is financing so private industry can alleviate many of the sordid conditions. FHA programs, according to Cook, need investigating to see if they will meet the financing needs and if they don't, then new legislation will have to be enacted for rehabilitation.

The crusading NAHB slum fighter went on to tell of his experience with the most common FHA rehabilitation program, Title I financing. Limitation to the FHA program was the short 3-year amortization period which necessitated too much of the owner's monthly income to be effective. Cook wants longer amortization loans.

Immediate action suggested by Cook was to rehabilitate "pilot blocks." These will develop facts and figures that can be used as bases for starting a full-scale program. To the local citizenry, the "pilot block" will also score as a symbol of what can be done and what it will look like. Publicizing the project can stimulate and enlarge the program whereby owners can do much of the job.

It was shown in Baltimore that just paving a slum street was enough incentive for the property owners to dig themselves out.

Now is the time when additional surveys and "ivory tower" plans must come to a stop. Now is the time when work must start and progress be made as it goes along, stated Cook.

The rehabilitation program of the NAHB started last year during Alan Brockbank's term as president. Brockbank became alarmed at the conditions that existed. He became acutely aware of them in his NAHB travels on speaking tours from one NAHB chapter to the other. This year the now past-president heads the rehabilitation committee and was instrumental in bringing G. Yates Cook to the National Association. During his 5-month tenure, Cook has already advised Memphis, Miami, Fort Worth, San Antonio and New Orleans on definite slum rehabilitation programs. The other 13 cities he has visited are now planning feverishly, prior to the "big push."

A.I.A. Delegates Watch On-the-Spot Lumber Operations



Rapid loading of logs in the forest was demonstrated for A.I.A. convention delegates near Shelton, Wash.

Nearly 600 American Institute of Architects delegates convening recently at Seattle visited Simpson Logging Company plants and woods operations in an all-day tour to nearby Shelton, Wash. The visitors were escorted on guided tours of plywood and insulation board plants. A logging show included exhibitions of tree topping and speed climbing, tree felling, bucking, bulldozing, yarding of logs by cats and truck loading.

Outlays for Residential Building Hit New Peak

Outlays for new residential construction in the first seven months of 1953 set a new record, according to a joint estimate by the Departments of Commerce and Labor.

The 1953 outlays were estimated at \$6.6 billion, up 10 per cent from last year's \$6.0 billion.

Meanwhile, spending for new residential construction in July was off 1 per cent from June.

Hollyday

(Continued from page 13)

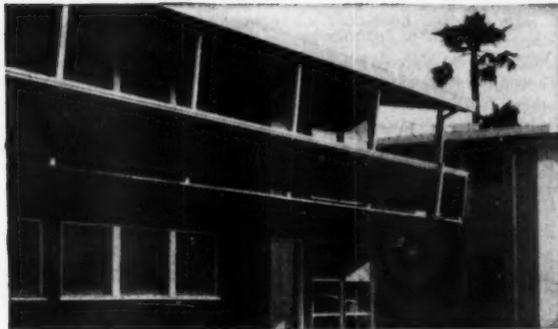
Hollyday, in his two-day Chicago visit, viewed some of the Chicago blight areas as well as some which have been kept in good repair. The commissioner was instrumental in the operation of the "Baltimore Plan" and will try to institute measures that will help to rehabilitate many of the run-down slum dwellings.

His barnstorming tour, talking to builders, mortgage bankers and city officials, is in line with his program of bringing FHA to the industry. He has had more than an earful of past suggestions and criticism of FHA.

CHEM-O-GLAS

NEW SHATTERPROOF TRANSLUCENT REINFORCED GLASS-FIBER BUILDING PANELS FOR STRUCTURAL AND DECORATIVE USES WITH EXCLUSIVE, DISTINCTIVE **RIBBED** DESIGN SO EASY TO INSTALL.

See the new shades — "FROSTED GREEN" and "COPPERGLO" — especially created for patio use where glare and heat are undesirable. Give restful, glare-free light. Heat rays screened out by exclusive new Chem-O-Filter Compound "XO." Also in natural blonde and marbled yellow. Colorful. Colorfast. Virtually indestructible.



CHEM-O-GLAS (pronounced Kem-O-Glass) is precision molded in 8' lengths, 32 $\frac{7}{8}$ " wide, (32" wide from c/c of outside ribs when overlapped.) Some jobber-dealer territories still open.

Hundreds of Uses

No need to paint - or repaint - ever!
"Your first cost is your last cost"



SEPTEMBER 1953



CHEM-O-GLAS UPS SALES — Outdoor showroom of J. A. Eisele Sales, Inc., one of west coast's largest Lincoln-Mercury dealers, showing utilization of CHEM-O-GLAS ribbed structural panels as roofing for structural steel carports.

Everlasting ... Everlovely ...

CHEM-O-GLAS is available in flat sheets or the distinctive new RIBBED design. Many architects and builders have found ribbed CHEM-O-GLAS the answer to inside and outside structural and decorative problems where canvas, porcelain, tile, wood, plastic, glass, aluminum or plywood have proved impractical. Inquiries invited.

CUSTOM MOLDING: Manufacturers are invited to submit production problems to us for estimate.

Write for information today

CHEMOLD COMPANY, DEPT. AB-9
2310 Broadway, Santa Monica, Calif.

Send details on CHEM-O-GLAS

NAME _____
FIRM _____
ADDRESS _____
CITY _____



Charles E. Slusser, public housing administrator, will supervise a sharply-curtailed public housing program during the current fiscal year. Congress has limited the program to 20,000 units, and all must come from contracts already signed. PHA may make no new contracts

Enlarged Florida Group Plans First Banquet

The Builders Association of South Florida, which merged recently with the Home Builders Association of Greater Miami, is planning to hold its first banquet this month at a Miami country club.

The association's new policy of holding its regular meetings in different sections of Miami has improved attendance, according to S. A. Dansyear, executive director. He also reports that separate "shop talk" sessions for builder-members will meet the second Tuesday of each month.

Although many new members have joined the organization since the merger, a membership drive was begun in August under the direction of Joseph Gittleman, assisted by Charles Stoker and Herman Canner.

Hazeltine Gets Community Facilities Post at HHFA

John Hazeltine, a Los Angeles businessman, is the new Commissioner of Community Facilities and Special Operations in the Housing and Home Finance Agency.

Hazeltine, 53, joined HHFA on August 3. He succeeded Pere F. Seward, who remains with the housing agency as an assistant commissioner for community facilities.

The new commissioner's background has spanned the oil, lumber and construction industries. At the time of his appointment to HHFA he was assistant manager of the construction and maintenance department of the Richfield Oil Corporation.

Dealer's Viewpoint

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



Manufacturers Back New NRLDA Advertising-Promotional Scheme

Retail lumber and building materials dealers and the manufacturers of building products are developing a plan for coordinating their advertising and promotional programs two or three or more times during the next year. The basic idea proposes that a wide consumer response can be created if a large number of dealers and manufacturers will appeal to the public with the same theme at the same time.

The idea was born at a Merchandising Conference held in connection with the spring meeting of the Board of Directors of the National Retail Lumber Dealers Association. It was discussed with a group of manufacturers at a subsequent committee meeting, then a letter describing the proposal was sent to the advertising managers of 125 building products manufacturers.

Thirty manufacturers expressed a definite interest in the idea and a number of others expressed the hope that they could adopt their own advertising and promotional programs to the plan.

The preliminary details are being developed by NRLDA's new Merchandising Committee, which then will discuss the program with a group of interested concerns.

Among the themes which are being considered for the coordinated promotions are: "Start Planning Your New Home Now," "Fix Up Your Home for Spring," "Get More Pleasure from Your Home This Summer," "Buy Your New Home Now," and "Get Your Home Ready for Winter."

The dealers will agree on how

many themes it will be practical to use during the first year, which themes will appeal to the largest number of dealers and manufacturers, and when to schedule each theme selected.

It is not hard to visualize the tremendous consumer response which could be developed if several thousand dealers and several dozen manufacturers all reached the public simultaneously with the same appeal every three or four months.

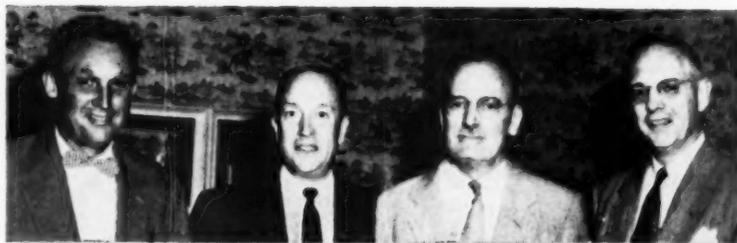
Each dealer and manufacturer would develop the themes in his own way, but each would be telling consumers the same story. Dealers would stress the theme in their newspaper, radio and direct mail advertising, and manufacturers would feature it in their consumer advertising and point-of-sale materials.

One strong appeal of this plan is a provision against entailing any additional advertising expense for companies who participate. Dealers and manufacturers will merely dedicate their advertising expenditures to the selected themes when the scheduled dates come around instead of each one's striking a different note.

At the start some manufacturers may find it difficult to adapt their advertising and promotional program to the industry-wide themes, and some dealers may prefer to stand on the sidelines at first, but the plan is so basically sound that the individualists and doubting Thomases are bound to join sooner or later.

If broad repetition is a major force in creating advertising impact, here is the way to get it!

Pittsburgh Builders Honor FHA District Director



The new FHA district director, Jesse F. MacFarlane, was guest of honor at the Pittsburgh Home Builders Association's luncheon held in the Carlton House immediately following his recent swearing-in. Shown are (l. to r.): Frank Corace, Pittsburgh HBA's committee chairman to Federal Housing Administration; C. F. McWilliams, Jr., Home Builders Association president; MacFarlane; and James Neville, FHA zone director



THE TREND IS TO AWNING WINDOWS

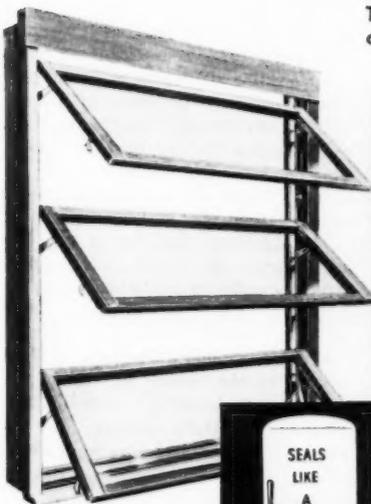


are demanded by more builders and contractors here's why!

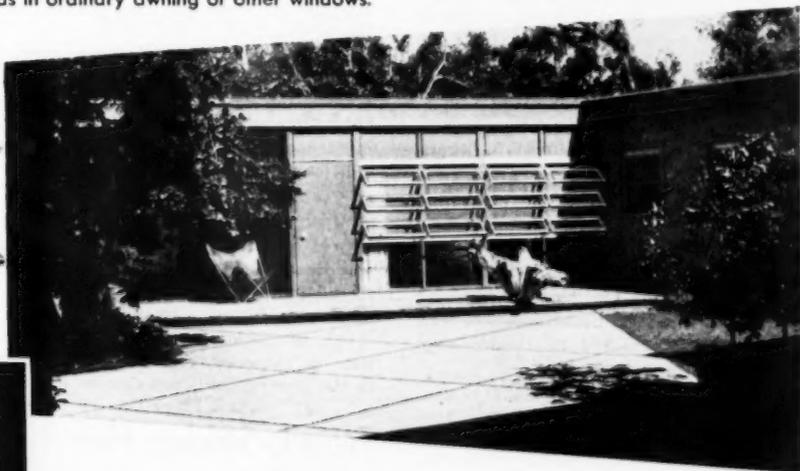
Houses equipped with Ludman Auto-Lok Awning Windows are easier to sell! They sell faster, more profitably because Ludman Windows give visible evidence of quality construction.

Ludman Auto-Lok Windows do not require time consuming adjustments. They cut labor installation costs and assure life-time homeowner satisfaction.

Ludman Windows are engineered to give complete satisfaction to builders, contractors and home-owners. The patented Ludman Auto-Lok mechanism makes them the tightest closing windows ever made. All hardware is concealed . . . eliminates dust and dirt. The Roto-type operator requires only finger-tip effort. There's no wear . . . no maintenance . . . no adjustment necessary as in ordinary awning or other windows.



Each sash automatically locks at all four corners. They're completely weatherstripped. Screens and storm sash are available. Wood or aluminum.



Installation detail for installing Ludman Auto-Lok Windows in SCR Brick Walls are available. Write Ludman Engineering Dept. Write also for complete "Builders File" of sizes and other installation data.



LUDMAN Corporation

Box 4541, Dept. AB-9 Miami, Florida

LUDMAN — WORLD'S LARGEST MANUFACTURER OF AWNING WINDOWS AND JALOUSIES

Advance Reports Indicate a Lively National Home Month

The month of September—National Home Month—promises to better the promotions held in behalf of new houses during September last year. Early reports indicate that more NAHB chapters have organized celebrations this year than in 1952, when over 60 cities participated in National Home Week.

An important new factor this year, from all indications, is the action by lumber dealers in behalf of National Home Month. Taking a random sampling last month among lumber dealers in 22 states, *American Builder* found that individual firms in 13 of these states were planning something special for National Home Month promotion. In the main, this something special consists of extra newspaper advertising and model houses showing the use of new materials.

The concentration of activity, however, is in the National Home Week demonstrations staged by NAHB chapters during the week of Sept. 20-27. Highlights from this center ring of the National Home Month arena include, among other headlines, the following:

Chicago

The Chicagoland Home and Home Furnishings Festival opens Sept. 20 with 90 builders participating. Of the 90-some model houses on display, 35 will be completely furnished. This festival continues until October 11.

Houston

Houston builders, staging their second Parade of Homes, are presenting 33 fully furnished homes on one street in a large subdivision where visitors may inspect over 1,000 new houses. As part of the fun, Houston is giving away an \$18,000 house complete with swimming pool and air conditioning.

Columbus, Ohio

Columbus builders are following their one-site Parade of Homes of last year with a similar venture this year, but have extended National Home Week exhibits to new houses outside the parade itself. The Home Builders Association is publishing a plan book of all houses displayed during the week and will distribute these books at the Parade of Homes.

Seattle and Portland

Seattle and Portland, Oregon, have also organized Parades of Homes this year. The Seattle parade will feature 100 houses. Some 25 builders are included in the Portland parade.

New Orleans

The New Orleans Parade of Homes

is in Henfer Park, a new subdivision along the Mississippi. The tract has a central section of 26 lots, and the 26 entries in the parade occupy these lots. The remaining 36 lots in the tract are being used for parking space during the time of the parade. These model homes will be held open past National Home Month so that the directors of the National Association of Home Builders may be able to see them at the time of their annual fall meeting to be held in New Orleans.

The San Fernando Valley

The San Fernando Valley Building Contractors Association is opening a parade of 21 houses built by members on both sides of one block in Van Nuys, which is approximately the geographical center of the valley. The association itself will present one of these houses, built on a prize-winning design resulting from a contest held for students in drafting classes in the local high schools. Every house will be furnished and landscaped.

St. Louis

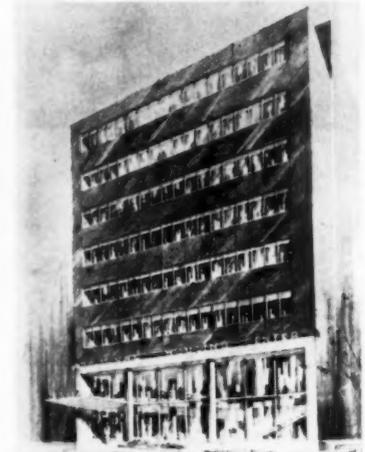
In Greater St. Louis, the Home Builders Association expects to set a record for the number of new homes displayed during a National Home Week promotion, and for the first time to show air conditioned homes in the lower-priced, non-custom field.

Tornado-Stricken Flint Rebuilds Devastated Area

D. W. Riegler, mayor of Flint, Mich., has issued a proclamation designating two days in August as "tornado rebuilding days." The city was struck by a tornado on June 8 which demolished more than 300 homes, and killed 116.

The city executive, in cooperation with the AFL-Flint Building Trades Council, has asked the help of volunteers from throughout the community to assist in a program to build 100 houses in two days in the tornado area for victims whose houses were destroyed.

Begin Construction of National Housing Center



Sketch of NAHB's National Housing Center, Washington, D.C., on which construction is expected to begin this month

A strategic site in midtown Washington, D.C., for the National Association of Home Builders' new National Housing Center is now being cleared. The eight-story, reinforced concrete, air conditioned structure will serve as a showcase of progress in the design, construction, materials and workmanship that go into the American home. All exhibits will be changed frequently to keep pace with new developments in the industry.

The building will serve both as headquarters for NAHB and as a permanent exhibition building for manufacturers whose products are used in home construction. The association's own Research Institute will be located in the center to aid in the building industry's technological progress. Official opening of the structure is planned for September, 1954. It is being erected by Alvin L. Aubinoe, Inc.

Robert L. Craft Appointed Will Serve Indiana Group

The Board of Directors of the Indiana Lumber and Builders' Supply Association recently announced through their president, Robert J. McCutchan, the appointment of Robert L. Craft, Indianapolis, as secretary-treasurer of the organization, which numbers over 500 companies in the state. In this capacity, Craft will also serve as a director from Indiana to the National Retail Lumber Dealers Association, Washington, D.C.

LETTERS

bouquets for National Home Month booklet

Sir: Your National Home Month literature was most interesting. The more folks stirring up interest in these most worthwhile projects, the better off we will be. As the "pappy" of this program, readers will appreciate your comments.

Congratulations and keep up the good work.

Conrad P. Harness,
Public Relations Director,
Nat'l. Association of Home Builders,
Washington 6, D.C.

Sir: Thank you for the copies of your National Home Month booklet. It is well put together and tells the story quickly and simply.

Our local association plans to participate in National Home Week this year, the first time in several years that we will have undertaken this activity. It is too early to determine whether or not we will enter your NHW Contest.

I think you are doing a splendid job for the industry.

James M. Albert,
Regional Vice President, NAHB,
Miami, Florida

Sir: I think your booklet "How to Plan a Successful National Home Month" is excellent and I hope that dealers will follow your advice.

As you know, we are appointing a new Merchandising Committee and we will bring up the subject of National Home Month at its first meeting.

Everett B. Wilson,
Director of Public Relations,
Nat'l. Retail Lumber Dealers Assn.,
Washington 6, D.C.

Sir: Congratulations on the excellent booklet on "How to Plan a Successful National Home Month." The publication is complete in every detail and should prove to be a valuable guide to associations, firms and builders.

As usual, your fine magazine has added another excellent contribution to industry promotion.

Lawrence W. Nelson,
Executive Vice President,
Minneapolis Home Builders Assn.,
Minneapolis 3, Minn.

we acknowledge with thanks, Mr. Spiegel

Sir: I wish to compliment you on the May issue since it gives so many stories and pictures which must be of inestimable value to all builders, small or large. Your "How To Do It" articles have always been extremely interesting, and I am glad to see that you are continuing to provide new ideas to the industry. I note also your new section, "Ask the Experts," and this, too, is most informative.

I was particularly impressed by your editorial and agree with you that there is no basis for a quarrel between retail lumber dealers and builders. This matter has disturbed many people for some time and I think that you showed great courage and forthrightness in your editorial comment.

E. M. Spiegel, President,
Nat'l. Association of Home Builders
Washington 6, D.C.

builder-retailer editorial rings bell

Sir: I cut your editorial "What about Builder-Retailers?" out of the May, 1953, issue and brought it to the attention of several here in our organization. We think it is so good that we are planning to reprint it and send it out to our contractors. Congratulations on your clear thinking and courage.

C. A. Thompson,
Thompson Lumber & Bldg. Supplies,
Champaign, Ill.

Sir: In the May, 1953, issue of *American Builder* there is an editorial entitled "What about Builder-Retailers?" I have read this editorial and was very much impressed by it, and I would like to reprint the entire article in our Annual Book, to be published in time for our Annual Convention in October.

Before doing so, I felt that I should get permission from you.

Ralph H. Hilton,
Executive Secretary,
Building Material Dealers Assn.,
Los Angeles 17, Calif.

► *Permission was granted.*

—The Editor

(Continued on page 24)

more and
more
Builders
Specify

because they
offer **MORE**
for the
money . . .



Gulf Spray *Shower Enclosures*

- **BE READY TO MEET THE DEMAND!** Have Gulf Spray shower doors and tub enclosures readily available to your customers. Gulf Spray is the "extra" they're looking for.
- **FEATURING:** smooth, overhead operation or piano-type hinges, scientifically designed drips (drain water back into tub or enclosure), heavy-gauge aluminum or stainless steel . . . and wide selection of clear or patterned glass.

Write for details
and literature

Binswanger + co.
of Texas

Dept. AB-9
207 N. Main
Houston, Texas

WHY DOES the best cost less?



R·O·Ws outsell other windows by 2 to 1. Production economies have made it possible to sell this premium quality window (with the extra-value removable feature) at a lower price than ordinary quality windows.

you can lift it out entirely

See your local lumber dealer or write

R·O·W SALES COMPANY 1338 • • 66 ACADEMY AVENUE • FERNDALE 20, MICHIGAN

22

YOUR R·O·W MANUFACTURER IS...

- ALABAMA**
R·O·W DISTRIBUTORS
Rocky Mount, Virginia
- ARKANSAS**
CENTRAL R·O·W DISTRIBUTORS OF ARKANSAS
North Little Rock, Arkansas
- CALIFORNIA**
CALIFORNIA BUILDERS SUPPLY, INC.
Richmond, Fresno, Sacramento
T. M. COBB CO.
Los Angeles, San Diego
- COLORADO**
LUMBER DEALERS, INC.
Denver, Colorado
- CONNECTICUT**
GENERAL WOODCRAFT CO., INC.
North Bergen, New Jersey
- DELAWARE & DISTRICT OF COLUMBIA**
DEALERS WAREHOUSE SUPPLY CO., INC.
Baltimore, Maryland
- FLORIDA**
V. E. ANDERSON MFG. CO. INC.
Bradenton, Fla.
- GEORGIA**
R·O·W DISTRIBUTORS
Rocky Mount, Virginia
- IDAHO**
BOISE SASH & DOOR, INC.
Boise, Idaho
JOHNSON BROS. PLANING MILL CO.
Idaho Falls, Idaho
- ILLINOIS**
V. E. ANDERSON MFG. CO., INC.
Owensboro, Kentucky
IMSE-SCHILLING SASH & DOOR CO.
St. Louis, Missouri
R·O·W WINDOW CO.
Joliet, Illinois
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Owensboro, Kentucky
R·O·W WHOLESALE DISTRIBUTORS, INC.
Norwood, Ohio
R·O·W WINDOW CO.
Joliet, Illinois
- IOWA**
ANDREW A. KINDEM & SONS, INC.
Minneapolis, Minnesota
WISCONSIN WINDOW UNIT CO.
Merrill, Wisconsin
- KANSAS**
MARTIN MATERIAL CO.
Kansas City, Missouri
- KENTUCKY**
V. E. ANDERSON MFG. CO., INC.
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R·O·W WHOLESALE DISTRIBUTOR, INC.
Norwood, Ohio
- MAINE**
GENERAL WOODCRAFT CO., INC.
North Bergen, New Jersey
- MARYLAND**
DEALERS WAREHOUSE SUPPLY CO., INC.
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- MASSACHUSETTS**
GENERAL WOODCRAFT CO., INC.
North Bergen, New Jersey
- MICHIGAN**
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PORTER-HADLEY CO.
Grand Rapids, Michigan
ROYAL OAK WHOLESALE CO.
Royal Oak, Michigan
- MINNESOTA**
ANDREW A. KINDEM & SONS, INC.
Minneapolis, Minnesota
- MISSOURI**
IMSE-SCHILLING SASH & DOOR CO.
St. Louis, Missouri
MARTIN MATERIAL CO.
Kansas City, Missouri
- MONTANA**
FALLS WINDOW & CABINET SHOP
Great Falls, Montana
INTERSTATE LUMBER CO.
Missoula, Montana
WESTERN BUILDERS
Billings, Montana
- NEBRASKA**
THE SOTHMAN CO.
Grand Island, Nebraska
- NEW HAMPSHIRE**
GENERAL WOODCRAFT CO., INC.
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- NEW JERSEY**
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North Bergen, New Jersey
JOHNSON & WIMSATT, INC.
Westville, New Jersey

AMERICAN BUILDER

SAVE TIME

- avoid
annoyance!

YOUR R·O·W MANUFACTURER IS...

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GENERAL WOODCRAFT CO., INC.
North Bergen, New Jersey
A. ROBERSON & SON, INC.
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MILLER MILLWORK CORP.
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NORTH DAKOTA

JACK R. KINNARD & CO.
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R·O·W WHOLESALE DISTRIBUTORS, INC.
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OREGON

ACME MILLWORK, INC.
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Spokane, Washington

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ADELMAN LUMBER CO.
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WATERTOWN SASH & DOOR CO.
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V. E. ANDERSON MFG. CO., INC.
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Temple, Texas
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LUMBERMEN'S SASH & DOOR CO.
Dallas, Texas
SOUTHWEST SASH & DOOR CO.
Houston, Texas
H. E. WOODRUFF CO.
Corpus Christi, Texas

UTAH

R. W. FRANK & CO.
Salt Lake City, Utah

VERMONT

GENERAL WOODCRAFT CO., INC.
North Bergen, New Jersey

VIRGINIA

DALTON-BUNDY LUMBER CO., INC.
Norfolk, Virginia
R·O·W DISTRIBUTORS
Rocky Mount, Virginia

WASHINGTON

ACME MILLWORK, INC.
Kirkland, Washington
SPOKANE SASH & DOOR CO.
Spokane, Washington

WEST VIRGINIA

R·O·W DISTRIBUTORS
Rocky Mount, Virginia

WISCONSIN

WISCONSIN WINDOW UNIT CO.
Merrill, Wisconsin

WYOMING

FOWLER & PETH
Cheyenne, Wyoming

CANADA

CALGARY SASH & DOOR CO.
Calgary, Alberta, Canada
CRANBROOK SASH & DOOR CO.
Cranbrook, B. C., Canada
HAYWARD BUILDING SUPPLIES, LTD.
Edmonton, Alberta, Canada
MT. PLEASANT SASH & DOOR CO.
Vancouver, B. C., Canada
D. PORTER & SON
Stellarton, Nova Scotia
CUSHING MILLS, LTD.
Calgary, Alberta, Canada



Buyers of modern homes are entitled to the convenience and beauty of removable wood windows. No other window can duplicate the weather-snug construction of R·O·Ws. Over 8,000,000 R·O·Ws are now in daily use.

wash both sides indoors

See your local lumber dealer or write

R·O·W SALES COMPANY 1338 • • 66 ACADEMY AVENUE • FERNDAL 20, MICHIGAN

NEW for homes and apartments



a combination
**NON-ELECTRIC
DOOR CHIME
and
ONE-WAY
MIRROR
PEEPHOLE**

The Auth Electric Company, makers of AuthOtone Chimes . . . the original non-electric door chimes . . . now present a new model . . . **THE METROPOLITAN**. This latest design of AuthOtone Chime incorporates a one-way mirror peephole which permits the resident of the dwelling to observe who is calling without being observed. The caller simply sees a handsome polished brass plate with a push button, a mirror, a name card, and an apartment or house number card. When he presses the push button two musical resonant chime notes sound throughout the dwelling. The resident, by fingertip control of a shutter on the ivory chime inside the door, can see who is outside through the one-way mirror without being seen. The chime operates **mechanically** without electricity, wiring, or batteries. Fits any door up to 2" thick. For further information write on your letterhead to Auth Electric Company, Inc., 34-20 45th Street, Long Island City 1, N. Y.

Other Auth Non-Electric Door Chimes

UNIVERSAL MODEL No. 855

A completely non-electric door chime . . . no wiring. Utilizes a mechanical push button mounted on the outside of the door or door frame to sound two musical notes on the chime mounted on the inside. Handsome plastic push button escutcheon plate has gleaming, rust-proof, polished brass finish. Decorative chime (only 6½" x 3" x 2") is finished in ivory enamel. Fits all doors or door frames up to 9" thick. A great money-saver for any home or apartment.



FOREMOST IN THE DESIGN AND MANUFACTURE OF ELECTRICAL SUPPLIES, COMMUNICATIONS, TEST, AND PROTECTIVE EQUIPMENT FOR BUILDINGS, SHIPS, AIRCRAFT, RAILROADS, AND MARINE.

A non-electric musical knocker. The handsome solid brass knocker mounts in the traditional spot on the front door; the chime, which connects to the knocker through the door, mounts directly behind it on the inside. When the knocker is raised and lowered two musical chime notes sound throughout the home or apartment. Knocker has gleaming polished brass finish; chime is finished ivory enamel. Fits all doors up to 2" thick. Extremely attractive to eye and ear.



letters . . .

(Continued from page 21)

home building has a human side too

Sir: You do cram a lot of concise information, facts and data into your publication. I read it every month and I am sure it keeps me better informed. If there is a criticism, or let's say a suggestion, that I have, here it is: try to get on a more personal relationship with the builder and your other readers. Houses are not entirely made of appliances, gadgets and patented products that have the trade-mark of a national corporation.

Houses comprise the thinking and the labor of many different people, all the way up to the fellow who puts in the sod. Why not follow the steps a builder takes to build a house from the beginning to the end and tell the story both in prose and pictures as humanly as possible?

Also let me suggest a department in your magazine covering the goings-on in labor from month to month.

A. G. Broback, President.
A. G. Broback Co.,
Minneapolis, Minn.

▶ *These excellent suggestions have been passed on to the editorial staff, and will be acted upon in the future.*

—The Editor

reader since 1905

Sir: I believe I am one of your oldest readers: as a young carpenter I was given some of the first copies of the "American Carpenter and Builder" (1905 edition). That was a wonderful periodical: very helpful to the young mechanic who wished to learn more about his vocation.

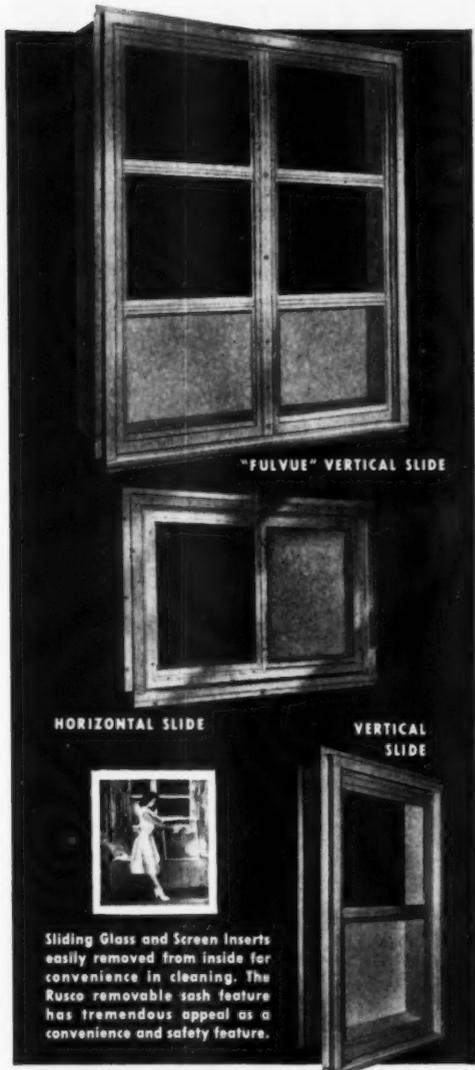
Homes are a vital part of our democracy, and they should speak for their occupants, the independence of thought and desire that is self-evident in the design. "Beehives in rows" can never be a credit to the families who occupy them.

I am deeply interested in building and home ownership, and trust that we will never depart from good design and variety to satisfy the profit of speculative builders.

C. P. Ludden, Builder,
Portville, N.Y.

(Continued on page 26)

Build it Better... Faster... Cheaper with **RUSCO** Galvanized Steel **PRIME WINDOWS**



"FULVUE" VERTICAL SLIDE

HORIZONTAL SLIDE

VERTICAL SLIDE

Sliding Glass and Screen Inserts easily removed from inside for convenience in cleaning. The Rusco removable sash feature has tremendous appeal as a convenience and safety feature.

RUSCO PRIME WINDOWS Are Fully Pre-Assembled — Glazed, Finish-Painted and with Hardware Attached —

All Ready to Install in Window Openings!

● In ever-increasing numbers, architects and builders are finding Rusco Prime Windows their best solution to the problem of top-quality specifications within fixed cost limitations.

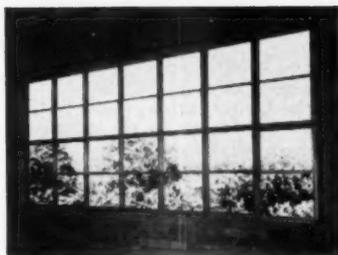
These unique, ready-to-install windows make truly remarkable savings in installation time and costs. They can be fully installed on many types of construction in as little as *5 minutes per unit!* When you consider their low initial cost, plus the elimination of field glazing, painting and fitting of hardware, you can readily appreciate why the *installed cost* on Rusco is frequently less than that of the cheapest conventional windows obtainable.

Rusco Prime Windows are precision-built of sturdy, tubular galvanized steel, bonderized and finish-painted with baked-on outdoor enamel. Smooth and effortless in operation, they are available with insulating sash (eliminating the need for storm windows—and also an ideal treatment for air conditioning) and with Rusco's Fiberglass screens which are rustproof, rotproof, burnproof and never need painting.

For Complete Specifications and Illustrated Catalog,
 Write Dept. 7-AB93

THE F. C. RUSSELL COMPANY

Cleveland 1, Ohio • In Canada: Toronto 13, Ontario



RUSCO FULVUE PRIME WINDOWS make an excellent treatment where large window areas are desired. Available in 3-panel-high and 4-panel-high types, in a wide variety of sizes. Easily joined in series with Rusco's simple, non-load-bearing mullions.



RUSCO HORIZONTAL SLIDE WINDOWS ideally meet design and construction requirements for high window placement, such as in ranch-type homes, above sinks, bathtubs, etc. Provide added usable wall space.



THOUSANDS OF RUSCO PRIME WINDOW INSTALLATIONS have been made throughout the United States, Canada and Alaska on every type of construction from low-cost housing projects to the finest custom-designed homes, apartments and commercial establishments.

Unexcelled



for QUICK, LABOR- SAVING, EASY INSTALLATION

Time saved is money saved and these windows save installation time by coming to the job factory-assembled, including all hardware and glazing. Easily mullioned for window wall construction. Proven, long lasting performance and convenience features add sales appeal to any type of building.

Gate City Perma-Treated WOOD AWNING WINDOWS

Pioneered by GATE CITY SASH & DOOR CO.
"Wood Window Craftsmen Since 1910"

Member of The Producers' Council, Inc. Refer to Sweet's Builders' File, 4d-Ga

Write today
for name of
nearest Gate
City Dealer list
of stock sizes
and literature.

GATE CITY SASH & DOOR CO.
P. O. Box 901, Fort Lauderdale, Florida
Gentlemen: Please send Builder's Literature and
complete information on Gate City Awning Windows.

AB-9

Name _____
Address _____
City _____ State _____

letters . . .

(Continued from page 24)

more praise for booklet

Sir: The wonderful book of information which you have prepared on National Home Month has just reached my desk. I think you have done more than could have been expected, and the big idea now is to get the book read by "positive" thinkers and "doers," and not just be put back on the shelf.

For National Home Week last year, Dallas put over one of the best Parade of Homes in the country. It's hard to do a promotion of this kind unless you have seen it in action or have gone through it yourself. NAHB chapters can make more on a real "jam-up" Parade of Homes than a home show. National Home Week is one of the greatest features ever launched for the home building industry.

Grover A. Godfrey,
Executive Vice-President (retired),
Home Builders Assn. of Dallas,
Dallas, Texas

April catalog-directory in demand

Sir: I have been enjoying the April issue of *American Builder* very much and would like to get three copies for my mechanics. You are publishing a wonderful magazine, and I know that the home builders all over the country really appreciate your efforts.

Walter J. Shapter, Jr., Builder,
Columbus 15, Ohio

Sir: Under no conditions do I miss the April edition of your magazine. The late date of renewal was far from intentional, for I find your magazine more than useful in my business.

Frank G. Snow, Builder,
Grand Rapids, Mich.

1925 rafter table still serves reader

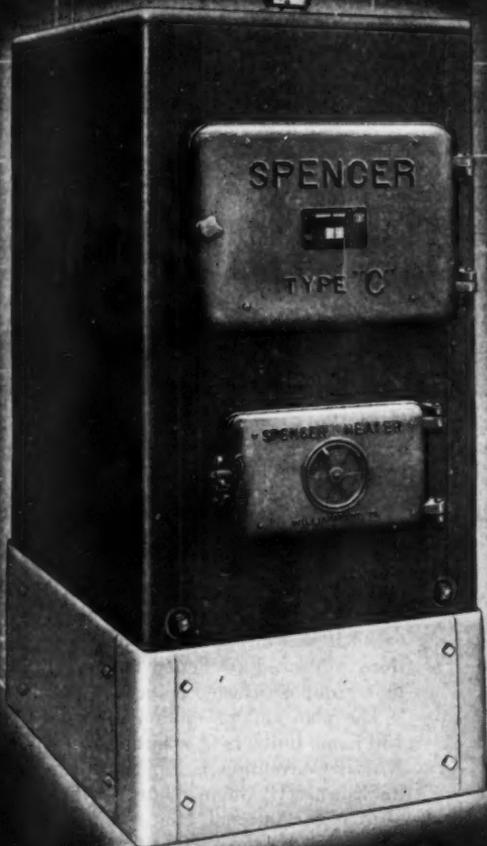
Sir: Send me, if possible, a copy of the rafter table published on page 134 in the March, 1925, *American Builder*. I have worn the other one out.

Guy Sutton, Builder,
Prentiss, Miss.

▶ Reader was sent a photostatic copy of the rafter table he has found so useful for 28 years.

—The Editor

**IMPROVED DESIGN!
WIDER RANGE!**



SPENCER "C" BOILERS

For Larger Homes, Motels, Schools, Churches, Apartments
Commercial and Industrial Buildings

Capacity Range: 1100 to 5000 sq. ft. steam net rating
1760 to 8000 sq. ft. water net rating



SPENCER'S

POPULAR "C" BOILERS

NOW OFFER NEW FEATURES

... NEW SIZES ...

MORE ATTRACTIVE PRICES!

Now, the most popular series in Spencer's quality line of boilers is available for a wider range of jobs... and at more attractive prices.

Improved design now makes this outstanding boiler available with standard 15" base or extra base heights, at nominal charge, for special fuel-burning installations. Four new larger models, with heavy 3" fire tubes, have been added to the line, providing greater range in application.

Here are some of the outstanding features of the Spencer "C" Boilers: water-cooled, precision-ground flue and fire-door frames, equipped with heavy cast-iron insulated doors; extra-heavy steel-plate smokeboxes; staggered boiler tubes for rapid heat transfer; service water-heating coils in many capacities.

Entire boiler line available with attractive standard jackets, insulated with glass wool, with beautiful blue-gray hammerloft finish.

Any fuel can be fired in the Spencer "C" Boilers. Easily and quickly converted from hand to automatic firing.

For any job—residential, industrial or commercial—requiring 1100 to 5000-sq.-ft. net load steam, low pressure, specify one of Spencer's "C" Series. *Save dollars and provide the highest quality heating plant available.*



Spencer Heaters—Dept. AB-93
Lycoming-Spencer Division
AVCO Manufacturing Corp.
Williamsport, Pennsylvania

Dear Sirs:

Please send additional information and specifications on the new Spencer "C" Series Boilers to:

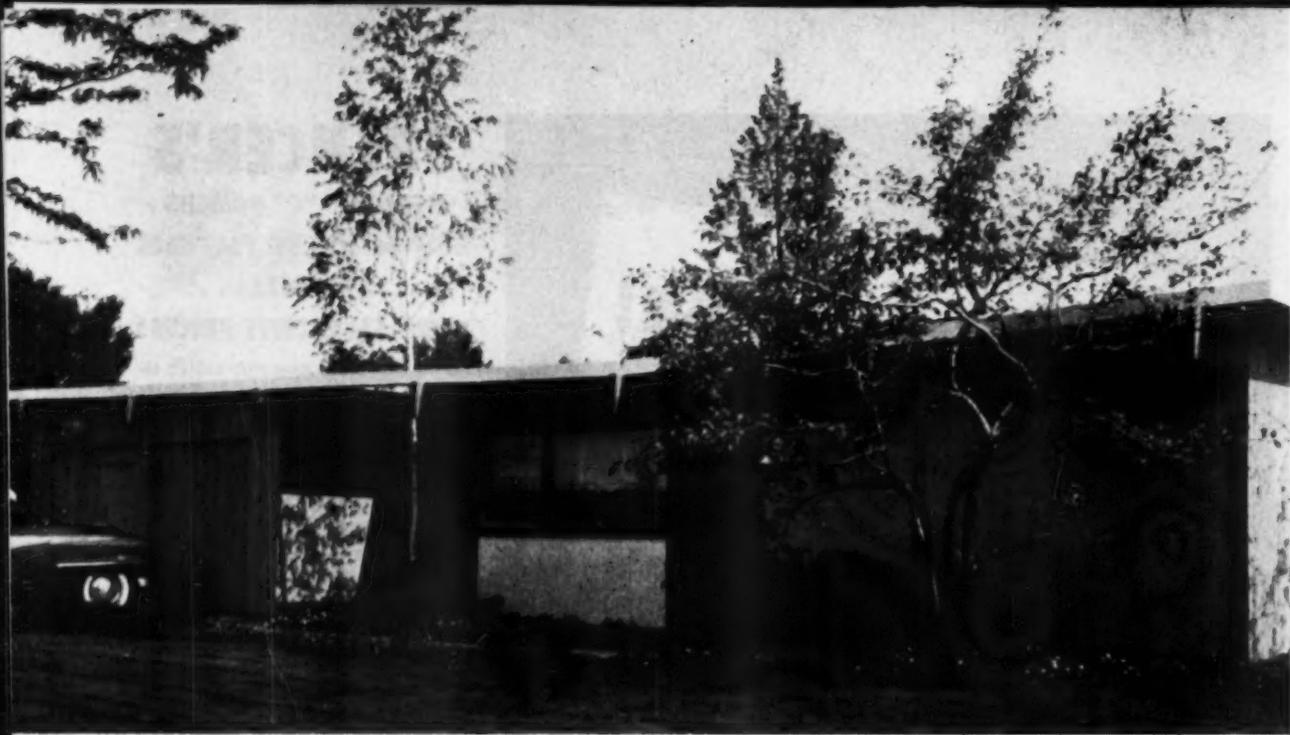
Name _____

Position _____

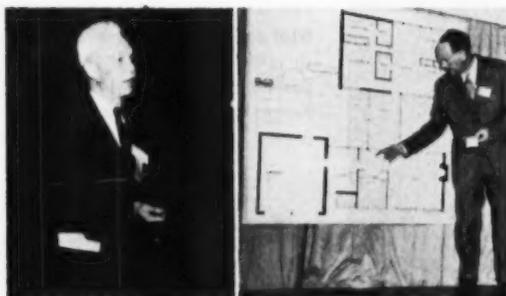
Company _____

Address _____

City _____ Zone _____ State _____



this is the "READERS' CHOICE" house built for NATIONAL HOME MONTH



American Builder Editor
E. G. Gavin

BH&G Building Editor
John Normile



Crowd of over 150 builders see "Readers' Choice" house
unveiled for National Home Month

UNIQUE among thousands of houses shown this month by builders over the country as part of their National Home Month endeavor is the "Readers' Choice" house developed by Better Homes and Gardens. The "Readers' Choice" tag was given the house because it was designed to conform to ideas and suggestions advanced to Better Homes and Gardens editors by a group of selected readers.

The plan and promotion program were presented to 150 home builders at a special meeting held at the 1953 NAHB Convention in Chicago. *American Builder* Editor Edward G. Gavin related to the builders present the history of National Home Week and the subsequent change to National Home Month. He went on to say that at the inception of the program five years ago, he prophesied that consumer magazines would join the promotion. "For the first time," stated Gavin, "a magazine devoted to improved housing standards and addressed to consumers is lending its influence to further project the idea of National Home Month to the buying public."

Building Editor John Normile of Better Homes and Gardens introduced the "Readers' Choice" house and explained to the builders present the merchandising and promotional aids that have been developed to make the house a spectacular National Home Month feature.



Trude started construction in latter part of January. Concrete and masonry work were covered during the cold weather



Framing of "Readers' Choice" house utilized 4x16's ten feet on center. Posts were 4x4's at exterior wall

BUILDER:

William Trude
Arlington Heights, Illinois

ARCHITECT:

Boderus and Siegwart
Chicago, Illinois

LANDSCAPE ARCHITECT:

William A. Dean
Park Ridge, Illinois



The promotion included newspaper, radio, and television publicity, tie-in with leading department and furniture stores to furnish the houses, reciprocal advertising at local levels, and the promotion in Better Homes and Gardens and *American Builder*.

The first house to be completed, and the one which was photographed for use in this story, was built by William Trude of Arlington Heights, Illinois. Trude is a Chicagoland builder specializing in ranch-type homes selling for \$20,000 to \$30,000.

The "Readers' Choice" house is a departure from the construction types that Trude has been building. Trude stated that he entered the National Home Month program because it gave him an opportunity to identify himself as a leader in accepting advanced ideas in home construction and design. Features of the house which Trude believes will find the greatest favor with the public are:

1. Dressing room with built-in lavatory
2. Built-in kitchen range
3. Terrace dining room
4. Linen cabinet and built-in hamper
5. Large glass areas with privacy feature
6. Children's bedroom-play area
7. Outdoor patio
8. Air conditioning

Roof decking material is 3x6 t&g industrial flooring



Heavyweight decking was used due to the long span between supporting beams



"READERS' CHOICE"

Carpenters used 80d nails to fasten roof decking to beams. Nailing procedure was time-consuming as end nailing required prior drilling

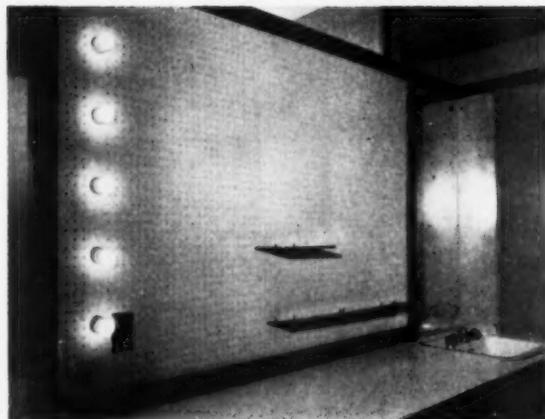


Construction of the "Readers' Choice" house parallels the advanced design of the structure. Basically it is post and beam framed on 10-foot centers. The beams are 4x16 and rest on 4x4 posts set at the exterior walls. Roof decking for the large span is 3x6 t&g industrial flooring nailed to the supporting beams.

The house is built on a concrete slab with a finished floor of black-stained concrete scored in approximately 3-foot squares.

Exterior materials combine cypress siding, insulated double glazing and Cemesto panels. Interior materials are wood paneling, pegboard, plaster board and plywood.

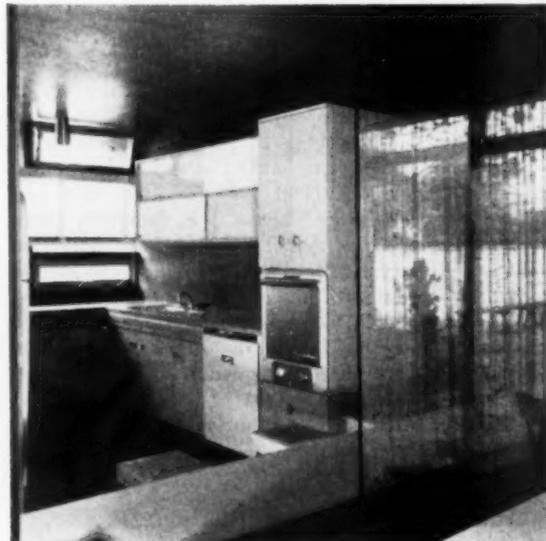
The house is heated with two air conditioner-heating units located in the utility room and utility closet in the bedroom area. These warm air units operate in a perimeter duct system.



Feature Number One: Dressing room adjacent to master bedroom and bath has built-in lavatory and full-length mirror. Surrounding mirror is theatrical-type lighting. Wall is pegboard



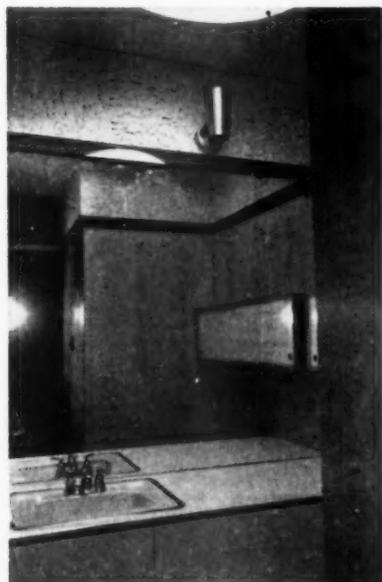
External materials combine 4-inch cypress panelling and 2-inch Cemesto sheets. Cypress was finished natural and Cemesto painted in pastel colors



Feature Number Two: Kitchen, looking through from terrace dining room, shows sliding glass partition, serving bar, and built-ins



Feature Number Three: Terrace dining room connects living and sleeping areas of "Readers' Choice" house. Two sides of the room are insulated glass walls with sliding doors. Room can be opened up taking advantage of garden and patio



Feature Number Four: Bath has several features to please buyers: a mirror-wall; a linen wall cabinet (reflected in mirror), and a built-in clothes hamper. Bathroom is interior; has plastic skylight

Feature Number Five: West side of terrace dining room overlooks patio garden. Stockade fence assures privacy to room





"READERS' CHOICE"

Feature Number Six: Children's suite in sleeping area has two rooms and large play area. Folding wood doors divide sleeping room from play area

Feature Number Seven: Patio area, as viewed from east side of terrace dining room, shows stacked block wall, barbecue, and play area

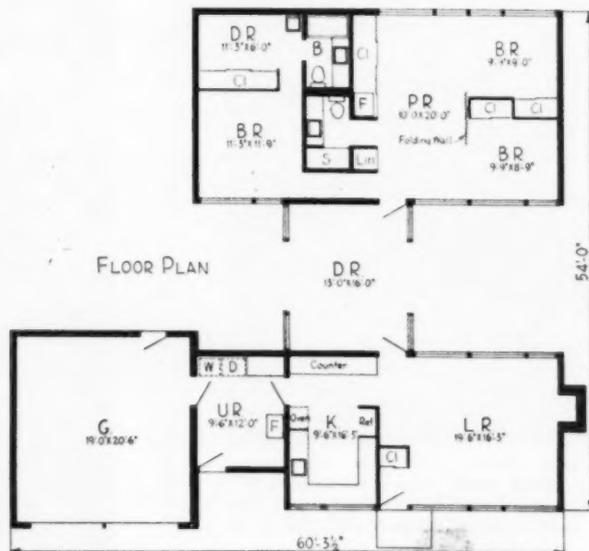


"READERS' CHOICE HOMES"

BUILDER	TOWN	OPENING DATE
Charles R. Byrd	Birmingham, Ala.	Aug. 30
Paul Guerin	Phoenix, Ariz.	Sept. 6
R. C. Hamilton	Little Rock, Ark.	Sept. 20
William K. Kelley	Palo Alto, Calif.	Aug. 29
Frank Vanderlip, Jr.	Rolling Hills, Calif.	Sept. 10
Richard Ranne	Sacramento, Calif.	Aug. 29
H. A. Jenkins	Colorado Springs, Colo.	Aug. 30
Lester Harris	Cheshire, Conn.	Sept. 20
Walter Cowart	Jacksonville, Fla.	Sept. 20
Jack Q. Smith	Pensacola, Fla.	Sept. 20
Clair Stefferman	St. Petersburg, Fla.	Aug. 30
Albert Barber	Moultrie, Ga.	Oct. 15
William Trade	Arlington Heights, Ill.	Aug. 28
William Bartlett	Michigan City, Ind.	Sept. 15
Andy Place	South Bend, Ind.	Sept. 20
Ken Stowall	Wichita, Kans.	Sept. 20
George C. Martin	Lexington, Ky.	Sept. 13
L. P. Smith	New Orleans, La.	Sept. 14
William Weir	Detroit, Mich.	Sept. 20
Harold Rosendahl	Minneapolis, Minn.	Sept. 20
Floyd Kimbrough	Jackson, Miss.	Sept. 6
Gerry Mafford	Richmond Heights, Mo.	Sept. 1
Glenn L. White	Springfield, Mo.	Aug. 29
Dale J. Bellamah	Albuquerque, N. Mex.	Sept. 13
Fred P. DeBlase	Rochester, N.Y.	Sept. 13
Thomas Wilson & Co.	Raleigh, N.C.	Aug. 28
Homer Friend	Columbus, Ohio	Aug. 27
Ralph T. Sharp	Dayton, Ohio	Sept. 1
Gene Resor	Elyria, Ohio	Aug. 28
K. H. Flanery	Oklahoma City, Okla.	Sept. 1
James Nuckells	Tulsa, Okla.	Sept. 20
Edward M. Ryan	Pittsburgh, Penn.	Sept. 13
Fry & Cochran	Corpus Christi, Texas	Sept. 6
Troott A. Bishop	Dallas, Texas	Sept. 6
Frank W. Sharp	Houston, Texas	Sept. 20
Homer Culp	Salt Lake City, Utah	Sept. 20
Al Balch	Seattle, Wash.	Sept. 20
M. K. Stoltz	Spokane, Wash.	Sept. 4

decentralization—

"H" feature of plan points separation of living and sleeping areas. Also makes possible outside vistas from all rooms. Open areas at sides of dining room are enclosed by glazed sliding doors



This view from the west points up the "H" design of the house. Section shown here between sides of "H" is used for garden



"Readers' Choice" house as seen from the street shows choice of lively colors for painted Cemesto panels

keynote of design

The plan slices the second story off a two-story house and places it next to the first floor area. To achieve this with harmonious effect the architect produced an "H" plan. A terrace dining room connects living and sleeping areas.

The 13x16-foot terrace dining room has sliding glass walls facing the garden and patio. A sliding glass partition between the kitchen and dining room facilitates serving. On kitchen side of glass partition is counter that can seat four.

The sleeping wing has a master bedroom 11x12 feet and a 6x11-foot dressing room. A private bath, with tub, adjoins master bedroom.

The other portion of the sleeping area has two children's rooms 11x9 feet, opening onto a large 11x20-foot play area. The bedrooms can be closed off the play area with folding walls. Second bath, with shower, serves children's bedrooms.

The living unit contains a living room 16x19, kitchen 9x11, utility room 9x12 and two-car garage.

The house has 1,629 square feet of living area, excluding the garage.



Viewed from the garden, contrasts between Cemesto, glass and cypress siding are clearly revealed



The two wings of this split-level house with divergent roof slopes work together to achieve a unity of design

AMERICAN BUILDER BLUEPRINT HOUSE

site makes split-level L-plan and V-roof combination possible

BUILDER:
Staalsen Construction Co., Chicago, Ill.

DESIGNER:
Arthur V. Hansen, Chicago Ill.

TOTAL GROUND AREA: 1,607 square feet
COST: \$14.50 per square foot

THIS house is a combination of a number of design features. Specifically they are—

THE SPLIT LEVEL, which takes advantage of a three-foot, six-inch differential in the grade of the two roads which adjoin the property.

THE L-PLAN, which effectively separates the living and bedroom areas and provides good circulation throughout the house.

AND THE V- (OR BUTTERFLY) ROOF, in which the roof of the two main sections of the house by-pass each other, creating interesting features within, focusing pleasant views without.

To these basic features the designer has positioned the house to site in order to keep most of big oak trees.

The L-plan and split-level arrangement separate quiet areas from the living and work centers.

AMERICAN BUILDER

With a split-level arrangement it is possible to reduce the ground area covered. In this house the two floors in one wing are connected by a half-flight of stairs.

The V-roof made many of the features in the house possible. The wood framing beams spaced four feet on center and the 2x6 V-cut roof sheathing in the living wing are left exposed. Floor of this wing is six inches above the high point of the finished grade.

The high point of the living room is 11 feet, 6 inches from floor to underside of beams, with clerestory windows spaced between beams on the high wall. The ceiling in the end portion of this room drops to a height of 8 feet, forming a projecting canopy across this entire area.

The living room which includes living and dining areas, entry and passage, is literally one large space divided by a 4x6x7-foot-high free-standing unit which serves as a guest closet, sideboard, and storage space for silver, linen and other small articles.

The other wing, which is the long leg of the of the L-plan, is two stories at high point of roof and one-and-a-fraction stories high at the low end. Garage and utility room occupy the lower portion with floor at the same grade as the low point of the road at the front. Kitchen and breakfast nook are one-half flight below living room. The kitchen height is seven feet, two inches. This ceiling height eliminated the need for a dropped or furred beam over the wall cabinets; further, it provided generous storage facilities above the kitchen.

The top floor contains two bedrooms, a bath and a hall, with ceiling of the center bedroom following the slope of the roof. One-inch holes



Laying up cavity wall with face brick, both sides. One-inch rigid insulation fills the void between the two wythes



Cabinets on walls of kitchen are placed against a one-inch furring strip which forms a recess at ceiling line

Brickwork of fireplace wall in living room is extended to adjoining side wall to form a complete masonry unit laid up in the same manner as exterior





bored through exterior walls are spaced two inches apart at the end of each rafter spacing, above the line of the ceiling insulation, to provide ventilation for the rafter area. These holes are protected by screens and the splayed ends of metal gravel strips which extend six inches over the edge of the roof and form the finished cornice line.

In the living and dining area, windows are large units with ventilation louvers under the sill. Other windows are outward-acting sash.

Freedom from condensation is obtained through use of hermetically sealed double glazing in all fixed units. A three-foot sunshade extends out over the large glass units on the south wall of the living room, and on through the south and west walls of the front bedroom, where two large fixed units with vents under occupy a corner position.

The house is placed on 10-inch concrete walls and footings. The concrete slab of the living-kitchen area is laid on two feet of foundry sand with one-eighth-inch moisture barrier under entire slab and one-inch rigid insulation around the perimeter under the slab.

Walls above are 2x4 frame-faced with 1x10 vertical redwood siding, except fireplace wall which is buff colored pressed brick. This is a cavity-type wall with one-inch air space filled with rigid insulation. Roof is four-ply tar and gravel with marble aggregates.

Change in roof pitch for both wings on rear elevation allows sufficient height for clerestory windows in living room

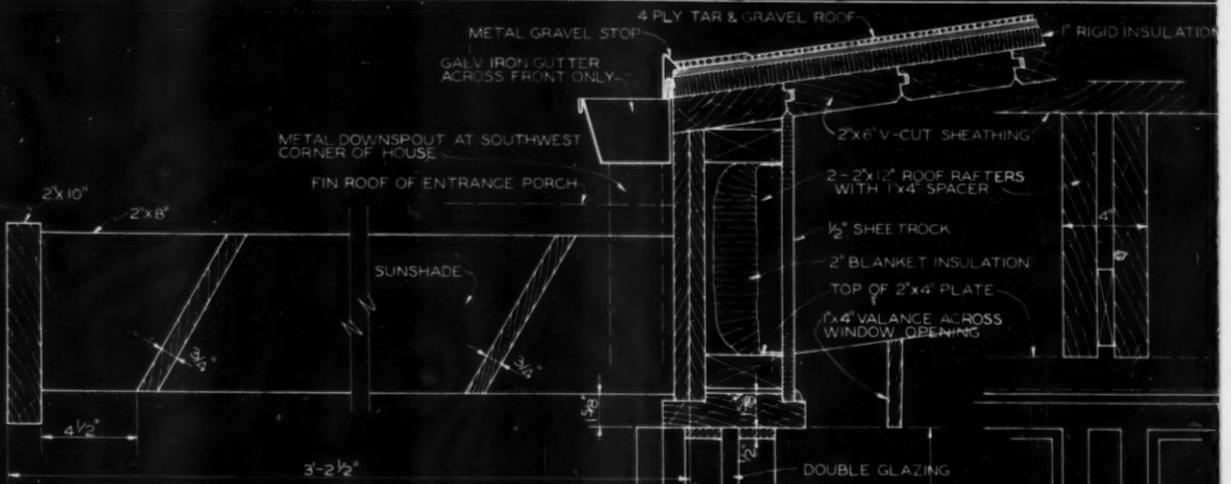
The free-standing closet, shown in the center of the photograph, serves as a room divider in the living-area wing

For complete one-quarter-inch working plans of this house, write *American Builder Home Plan Service*, 79 West Monroe Street, Chicago 3, Illinois.

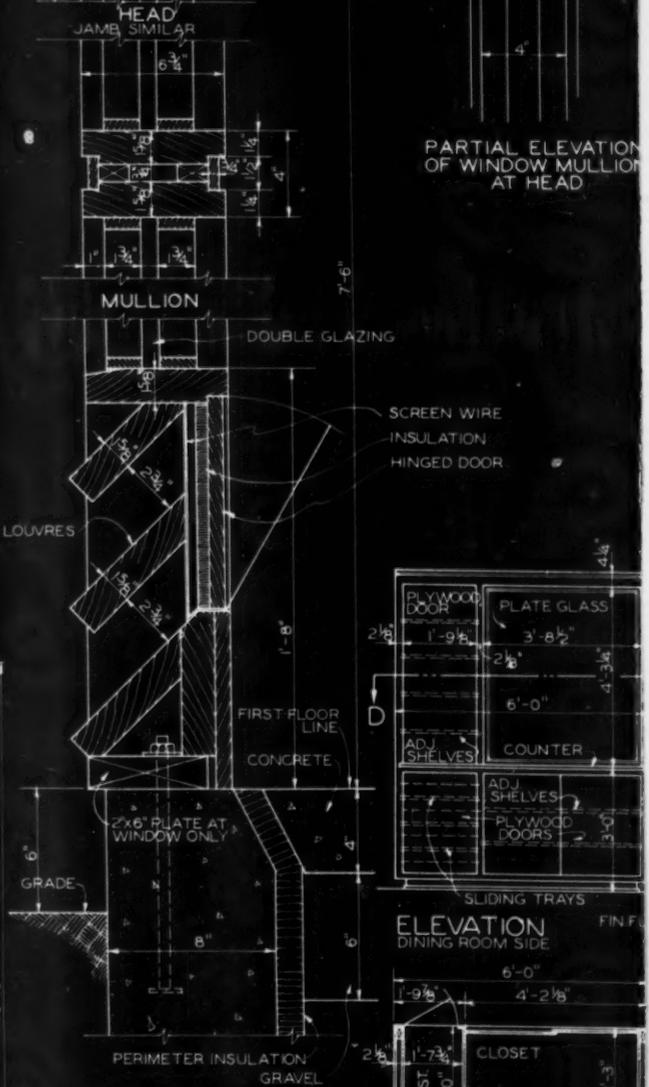
BRAND NAME PRODUCTS USED

Allmetal weatherstrips and thresholds	McKee upward-acting garage door hardware
Barrett four-ply roof	Meadows Carkite perimeter slab insulation
Bennett-Ireland fireplace screen	Meadows Membrane moisture barrier
Columbia Mills aluminum screens	Moen kitchen faucet
Crane plumbing fixtures	Mosaic tile floor and wainscot
Cycleweld-core plywood garage door	Mutschler Bros. kitchen cabinets
Dodge vinyl-cork tile	NuTone kitchen vent and door chimes
Donley fireplace damper	Red Jacket well pump
Electromade heater	Schlage hardware
Fornica kitchen and vanity counters	Sherwin-Williams paint
Hotpoint disposer, range and refrigerator	Smithway hot water heater
Hydraulic pressed brick	Sterling sliding-door hardware
Janitrol gas-fired heating unit	Thermopane glass
Lavan Philippine mahogany plywood and trim	USG rockwool insulation
Lightolier electric fixtures	USG Sheetrock
	Whitco sash hardware

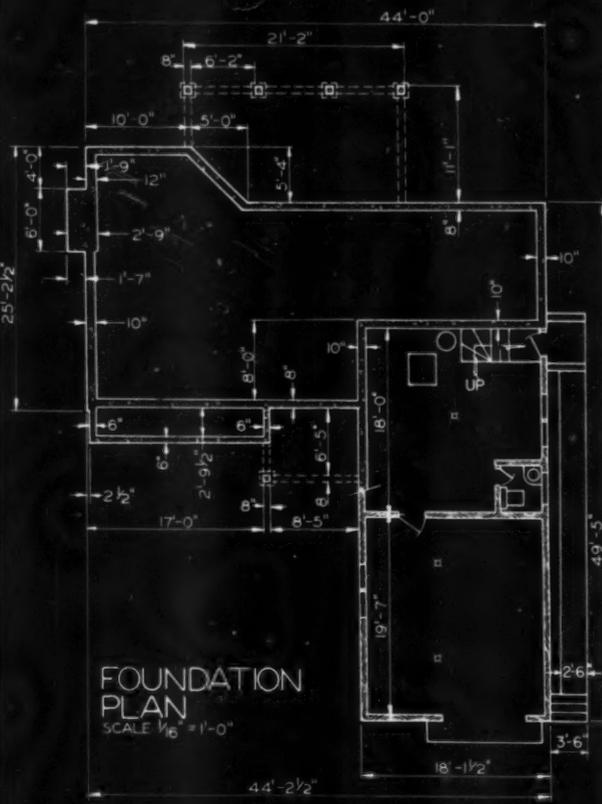




PLOT PLAN



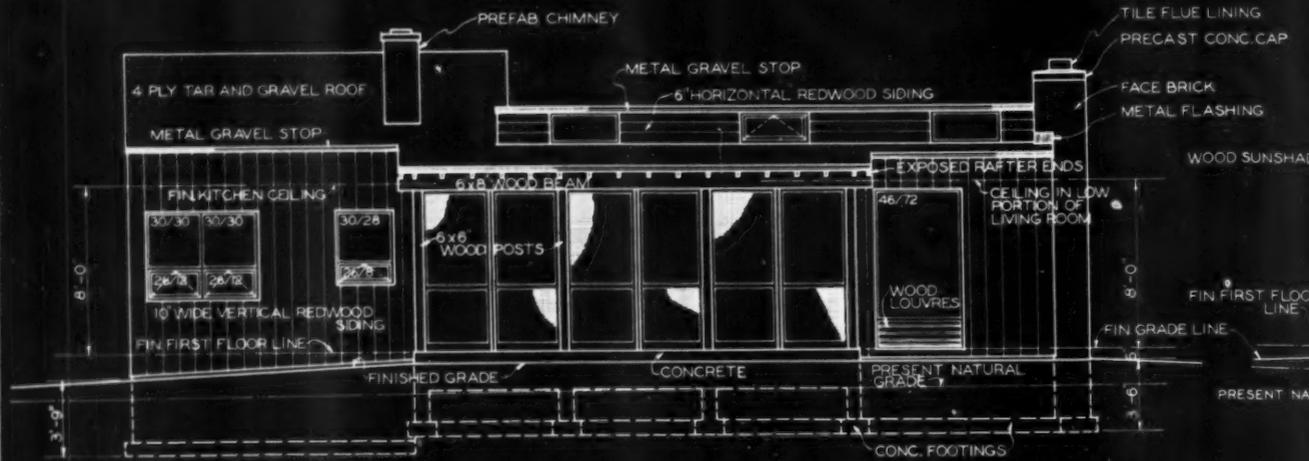
DETAIL OF LARGE LIVING ROOM WINDOW
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN
SCALE 1/8" = 1'-0"

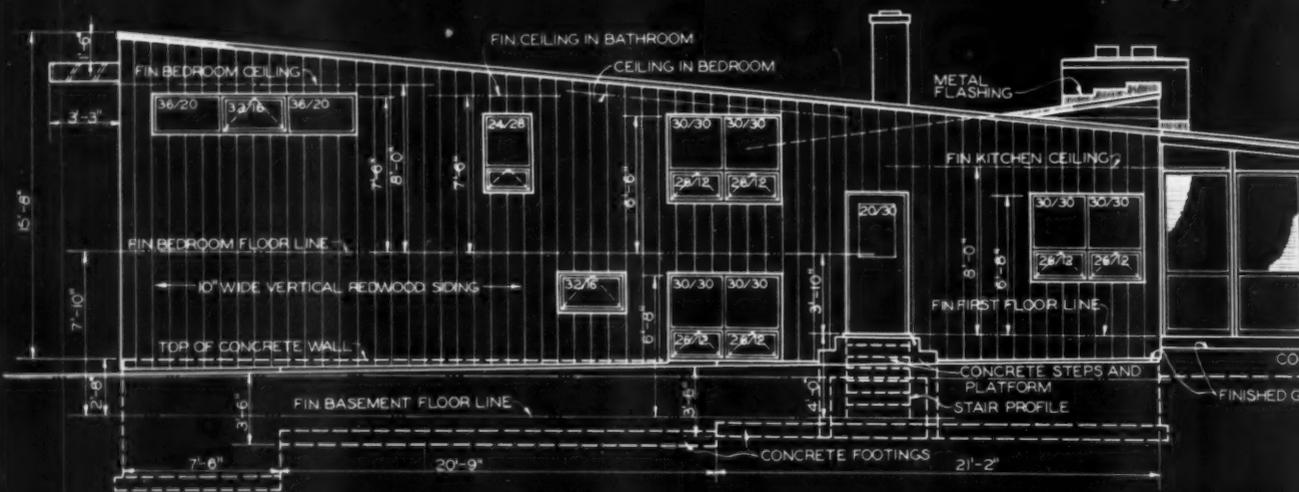


PLAN AT "D-D"



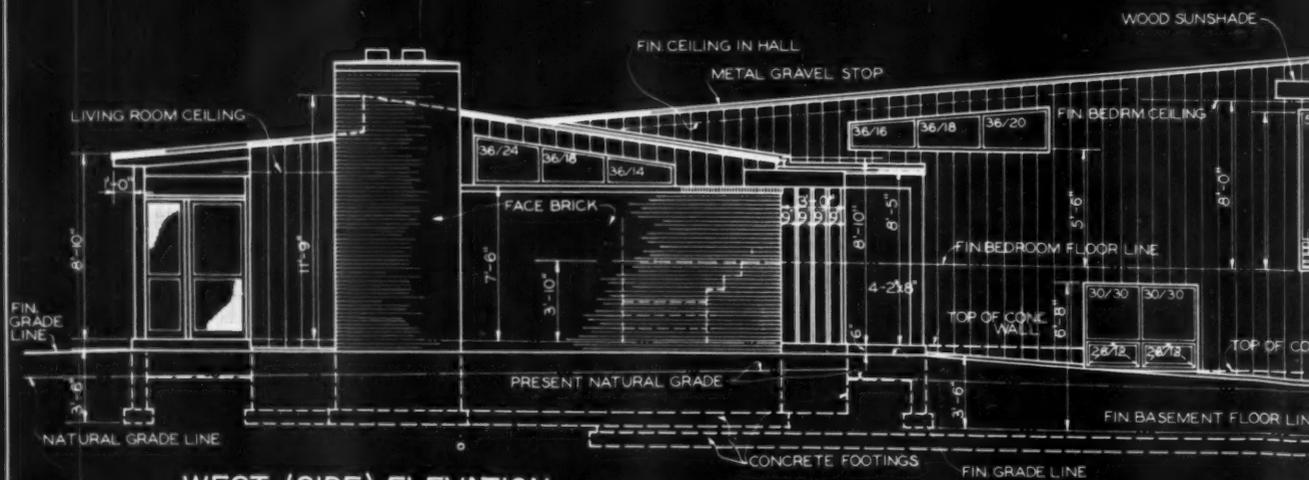
NORTH (REAR) ELEVATION

SCALE: $\frac{1}{8}'' = 1'-0''$



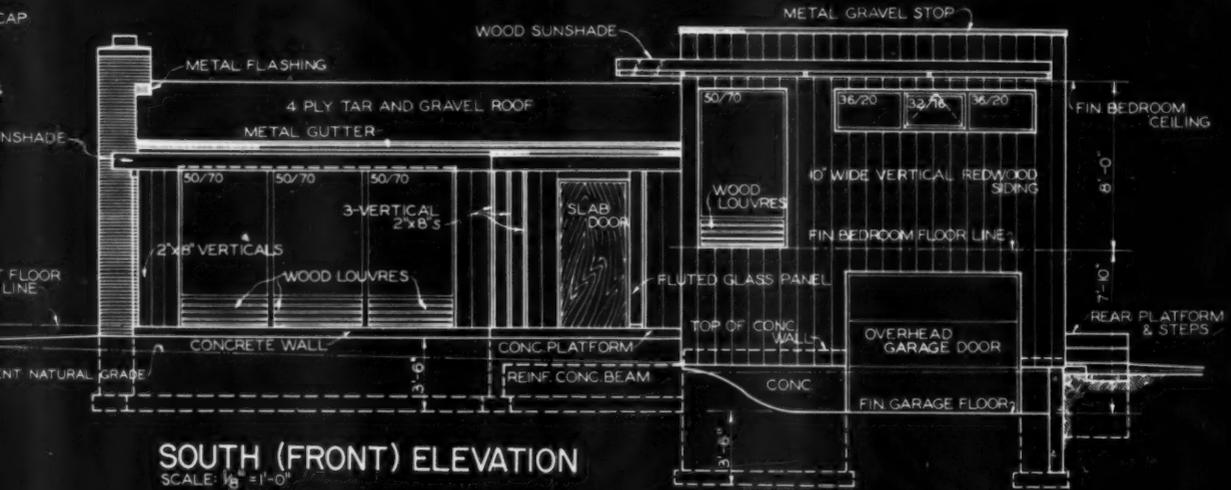
EAST (SIDE) ELEVATION

SCALE: $\frac{1}{8}'' = 1'-0''$

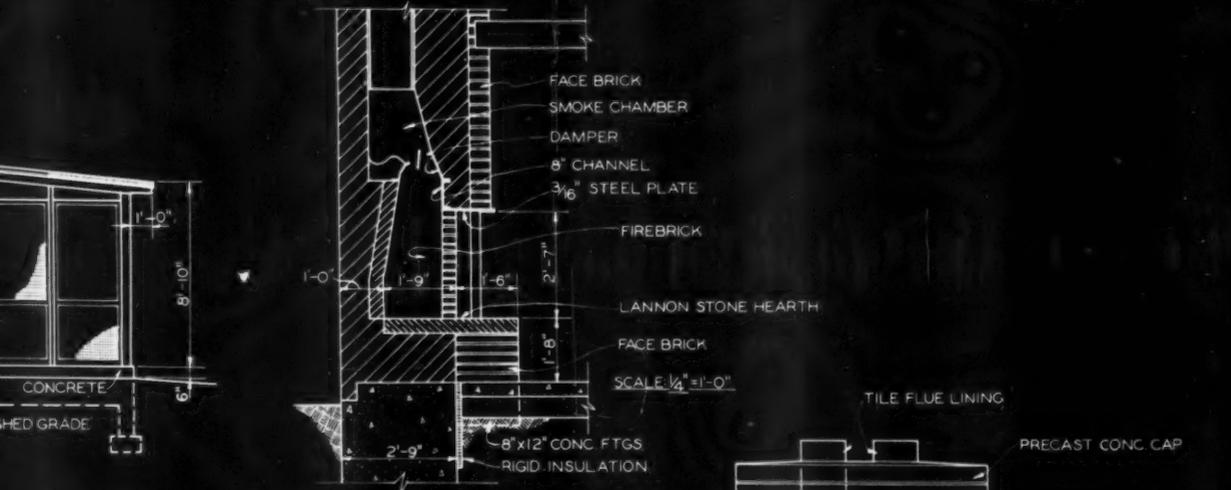


WEST (SIDE) ELEVATION

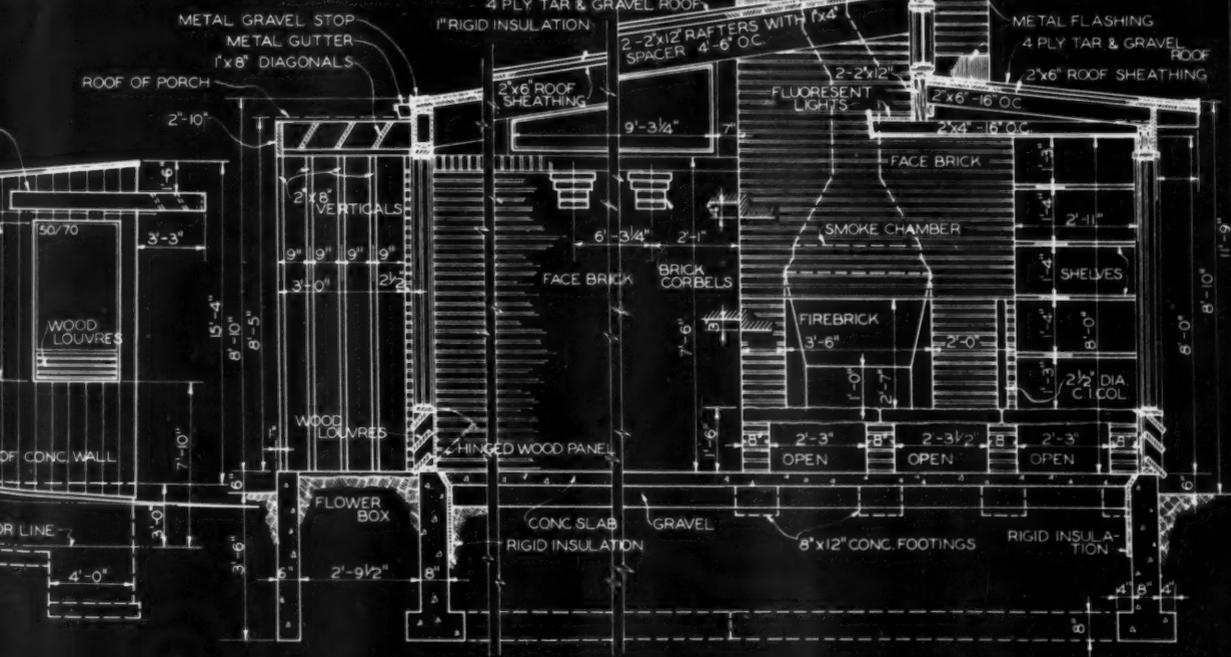
SCALE: $\frac{1}{8}'' = 1'-0''$



SOUTH (FRONT) ELEVATION
SCALE: $\frac{1}{8}'' = 1'-0''$



SECTION THRU FIREPLACE



SECTION THRU LIVING ROOM ON LINE "C-C"
SCALE: $\frac{1}{4}'' = 1'-0''$



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

ELEVATION
ENTRANCE SIDE

SECTION

DETAIL OF FREE STANDING STORAGE UNIT IN LIVING ROOM
SCALE 1/8" = 1'-0"

DESIGN No. A.B. 193

AMERICAN BUILDER BLUE PRINT SERIES
DESIGNED BY

Arthur V. Hansen Designer
1200 Wildwood Lane, Glenview, Illinois

SIMMONS-BOARDMAN PUBL. CORP., 79 W. MONROE ST., CHICAGO 3, ILL.

Quantity List of Materials

For American Builder Blueprint House No. AB 193

Arthur V. Hansen, Designer

General Information

House — Type	frame
Area	1,477 sq. ft.
Cube	25,109 cu. ft.
Height taken for cube was 17 feet	
Garage — Area	included in house area
Porches (2) — Area	283 sq. ft.

Excavating

Trench for foundation	137 lin. ft.
Chimney and column footings	5 footings
Excavation for basement and garage	76 yards

Cement Work

Foundations	965 cu. ft.
Concrete work	1,560 sq. ft.
Thickness	4"
Anchor bolts	80 — 1/2" x 10"
Waterproofing — basement wall	400 sq. ft.
Miscellaneous	
Perimeter insulation	225 sq. ft.

Masonry

Type	brick
Walls	8" wall — 122 sq. ft.
Chimney	masonry for 1 — 210 cu. ft.
Flue lining	12' — 12" x 12"
Cap	precast concrete
Fireplace	1, face brick
Throat and damper sets	1
Lintels	1 — 8"
Supporting column for lintel	1 — 2'6" x 2 1/2" in dia.
Hearth	1 — Lannon stone
Miscellaneous	
Prefab chimney	1

Millwork

Windows — Type	fixed and awning
Material	wood
Windows, glazed including trim	10 — 30" x 30" over 26" x 12"
	1 — 30" x 28" over 26" x 8"
	1 — 24" x 28" over 20" x 8"
	1 — 32" x 16"
	fixed flanking, 4 — 30" x 20"
	vent, 2 — 32" x 16"
	louver, 2 — 50" x 64"
	louver under, 6 — 50" x 72"
	bevel head, 1 — 36" x 24"
	2 — 36" x 18"
	1 — 36" x 16"
	1 — 36" x 14"
	clerestory, 2 — 36" x 14"
	1 — 32" x 10"
Exterior doors — Material	wood
	1 — 3'0" x 6'8"
	2 — 2'8" x 6'8"
	1 — 8'0" x 6'8"
Garage door	
Exterior millwork	
Entrance fascia with side light	1
Lattices	7 — 2" x 8" — 8'0"
Louvers	with windows
Sunshade (Redwood worked to pattern)	30 lin. ft.
Lattice porch roof	28 lin. ft.
Interior doors, including jambs and trim	3 — 2'8" x 6'8"
	2 — 2'4" x 6'8"
	1 — 2'8" x 6'8"
Fire door between house and garage	
Special interior millwork	
Stairs to second level	
Living room shelves	
Dining room entry cabinet	
Kitchen cases	
Bathroom case	
Valence and light trough	
One flight, millmade stairs	

Carpentry

Beams and girders	4 — 6" x 6" — 8'0"
	1 — 6" x 8" — 22'0"
Foundation plates	155 lin. ft. of 2" x 4"
	30 lin. ft. of 2" x 6"
Joists	29 — 2" x 10" — 18'0"
Bridging	150 lin. ft.
Studding and plates	94 — 2" x 4" — 8'0"
	16 — 2" x 4" — 10'0"
	45 — 2" x 4" — 12'0"
	25 — 2" x 4" — 14'0"
	85 — 2" x 4" — 16'0"
Ceiling joists	9 — 2" x 6" — 12'0"
	5 — 2" x 6" — 14'0"
	11 — 2" x 6" — 8'0"
	10 — 2" x 4" — 7'0"
Roof rafters	38 — 2" x 8" — 18'0"
	17 — 2" x 6" — 12'0"
	10 — 2" x 4" — 6'0"
	12 — 2" x 12" — 22'0"
	5 — 2" x 8" — 8'0"
Framing Lintels	2 — 2" x 10" — 8'0"
	2 — 2" x 12" — 26'0"
	4 — 2" x 8" — 10'0"
Subfloor, wood	578 b.f.m.
Roof sheathing	2" x 6" t&g V-joint, 1,900 b.f.m.
	1" sheathing, 1,300 b.f.m.
Side-wall sheathing	wood sheathing, 2,050 b.f.m.
Side-wall materials	redwood vertical siding, 2,000 b.f.m.
	redwood siding, 40'
Carpenter stairs	6 — 2" x 10" — 4'0"
	2 — 2" x 12" — 10'0"
	2 — 2" x 4" — 8'0"
Flooring — Hardwood	500 sq. ft.
Softwood	60 sq. ft.
Exterior material — porches	4 — 2" x 8" — 8'0"
	1" x 4" separator, 132 lin. ft.
Insulation — Rigid	1,735 sq. ft.
Blanket (2")	1,600 sq. ft.

Sheet Metal

Gutters	27'
Downspouts	10'0"
Flashing	chimney
Miscellaneous	
Gravel stop	215 lin. ft.

Roofing

Type	tar and gravel
Area	17 1/2 squares

Interior Walls

Area to be covered	4,500 sq. ft.
--------------------	---------------

Note: This does not include brick, t&g boards, or materials covered elsewhere in list.

● This quantity list will be subject to variation depending on the common practices in various sections and municipalities of the country, the techniques of individual builders, the types of materials available locally and cost factors. The list published here is a suggested one, complete enough so that it can be used in arriving at a reasonably accurate estimate of the quantities and cost of materials that will be required to complete the structure. It was prepared by experts at the Edward Hines Lumber Co., Chicago.

perimeter warm-air heating

This article on perimeter warm-air heating is the first of a series of three. The other two will discuss heating for crawl-space houses and the use of small-pipe, warm-air, duct systems. These will be followed by two articles on summer cooling by Professor Konzo.

by **S. Konzo**
Professor of Mechanical Engineering
University of Illinois

TO UNDERSTAND clearly the perimeter system and its use in basementless one-story houses built on a concrete slab, it is necessary briefly to cover the developments in the field of warm-air heating that lead up to the widespread use of the perimeter method.

The Problem of the Cold Slab Floor

At no time during the past 35 years, in which the National Warm Air Heating and Air Conditioning Association has been sponsoring a research program at the University of Illinois, have developments in warm-air heating come at such a rapid pace as in the last few years.

Some of these developments resulted from industry's demands, while others were imposed from the outside. The problem that confronted the industry when the basementless ranch-type home was introduced into the northern climates is not to be minimized. Complaints began to arise concerning cold floors, especially with slab floors laid on the ground. In some cases moisture condensation occurred on the concrete floors, and in a few cases frost formation was reported on the floors. Discomfort because of drafts from the window surfaces was experienced in some homes having large glass exterior wall areas such as picture windows.

Initial Attempts to Use Conventional Heating Methods

Shortly after World War II the number of homes built upon a concrete slab floor was small. The warm-air heating industry was not greatly concerned about the difficulties of heating this new type of home, and conventional overhead forms of warm-air heating were used initially.

It was a simple matter to run ducts in the furred ceiling of a hallway or attic and supply warm air through registers located in the ceiling or on inside partitions.

The return air intakes were concentrated close to the furnace room. Thus, the entire air circulation was above the floor.

Many of these installations gave acceptable results, particularly when the automatic controls were properly adjusted to provide practically continuous operation of the blower. Nevertheless, the industry was not satisfied with the conventional approach, particularly since the hot water heating industry meanwhile had successfully promoted:

1. the hot water floor-panel heating system,
2. the ceiling-panel system,
3. the baseboard radiator heating system.

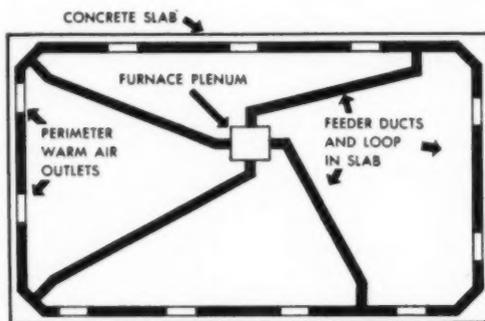
The overhead distribution of warm air at this time was considered satisfactory, but the placement of return air intakes on inside walls near the floor caused cool drafts from the windows and walls to be drawn across the room at floor level. To overcome this condition, return intakes were located along the outside walls and the return air

ducts placed below the floor slab.

Importance of Edge Insulation of the Floor Slab

During this period, research was conducted on the problem of reducing heat loss from the concrete floor slab to the cold outdoor air and the cold ground. Studies demonstrating the importance of insulating the edge of floor slabs were carried on by the National Bureau of Standards at Washington, D.C. It was proved that the cold area extended around the entire perimeter of the house. In effect, the cold floor area tended to reduce the livable area of a home already crowded for space by forcing moving of furniture in from walls.

These studies were greatly extended at the University of Illinois Small Homes Council. They were made in a climate colder than that prevailing in Washington, D.C., and showed that edge insulation was a vital necessity. It was also brought out that even with the best type of



PERIMETER LOOP SYSTEM WITH FEEDER AND LOOP DUCTS IN CONCRETE SLAB

Plan of perimeter loop system showing location of loop duct embedded in floor slab at perimeter of building; Note that the four feeder ducts are extended to the exposed corners of the building. The floor surface above the feeder ducts and the loop duct becomes warm and provides some amount of panel-heating effect

edge insulation in use, a cold floor area existed near the exposed walls. In other words, edge insulation was not the answer to the satisfactory heating of a home built on a concrete slab floor.

Ceiling-Panel Heating with Warm Air

In the period beginning about 1947 and continuing strongly to the present day, dozens of new methods, unusual systems and unorthodox techniques were tried. The inherent flexibility of the warm-air heating system proved to be a challenge to the ingenuity of heating contractors and builders alike.

One of these developments was a logical extension of the idea that if a ceiling-panel system was considered as a satisfactory method of heating a room, there was no reason why the ceiling panel could not be heated as readily with warm air as with hot water.

Such a system was installed in Utica, N.Y., with test results taken over a range of weather conditions. Sufficient data was collected to formulate a design procedure for this type of heating system.

The main obstacle to the ceiling-panel system's universal acceptance proved to be the cost of providing the air space. This is the area established between the normal ceiling line and the suspended, false ceiling through which the warm air could be circulated. Furthermore, when a ceiling-panel system is installed in a basementless house built over a concrete floor slab, the surface temperatures of the floor near the perimeter of the house are not as warm as thought desirable.

Contrary to some claims, it was found that the air temperatures and the surface temperatures of the surrounding walls for the ceiling-panel system were not materially different from those for a conventional system.

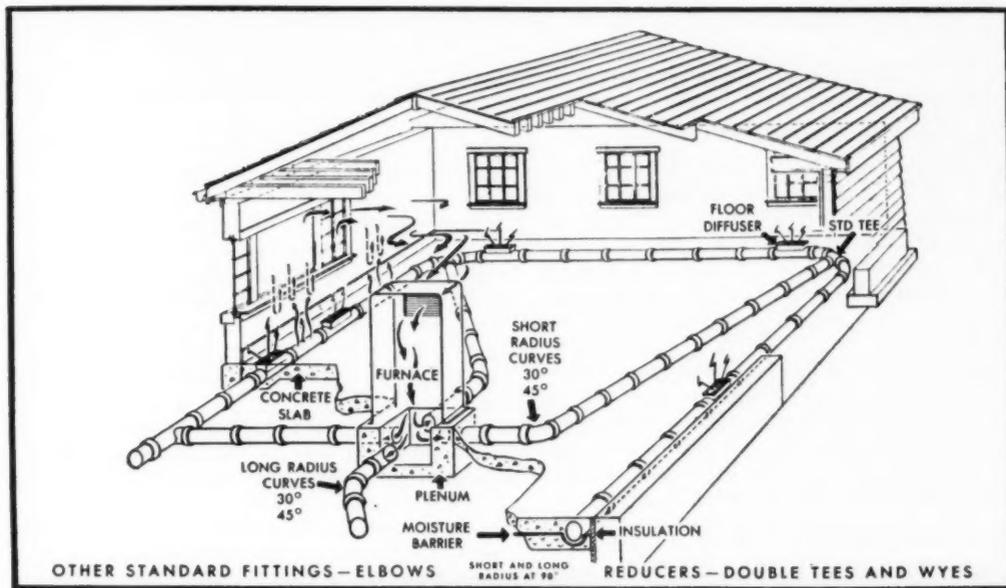
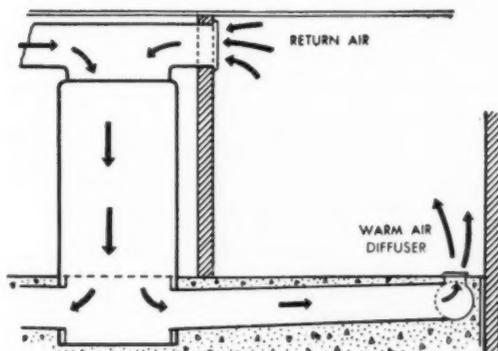


Diagram showing heated air from a down-flow furnace being discharged into a subfloor plenum and then into feeder ducts to the perimeter loop: All of the circulating air is eventually discharged into the rooms through registers either in the floor or in the low side wall. The air usually returns to the furnace by means of high side wall or ceiling in-takes located close to the furnace

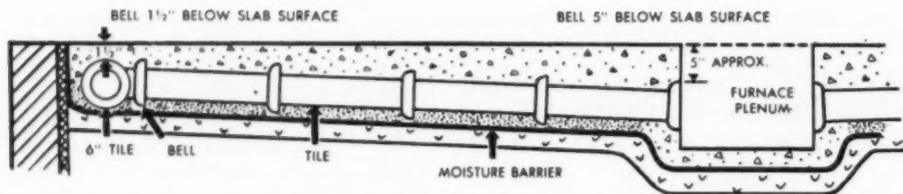


Cross section elevation showing air flow: Feeder ducts and perimeter loop can be made of galvanized iron embedded in concrete, although glazed vitrified tile is more commonly used. Special floor diffusers have been developed for this application which permit the air to be spread outwards as it enters the room, blanketing windows and exposed walls

The conclusion was drawn that the ceiling panel provided merely another source of heat addition to the living space, and that the heat thus added eventually warmed the room air. Since the heat source was in the ceiling next to an unheated attic space, the heat loss from the building proved to be larger than that experienced with a conventional warm-air system.

Floor-Panel Heating with Warm Air

Experiments with floor-panel heating were being conducted in various sections of the country. The method was simple; warm air from the furnace was delivered into channels provided below the floor slab; the air became cool as heat was transferred to the slab and ground, and the cool air was finally returned to the furnace to be reheated. Various means were used to provide the channel for the air flow, among these being hollow tile, hollow prefabricated floor beams, steel joists, a concrete



Elevation showing feeder duct embedded in concrete floor slab: Vitrified tile ducts are shown, although galvanized iron ducts can also be used. For small-house construction the duct system usually consists of 6-inch diameter pipes

slab supported above a concrete subfloor and even wood floor joists placed on top of a concrete slab floor.

The performance results with the so-called closed-panel system were generally satisfactory, particularly as far as providing warm floors was concerned. On the other hand, the system had the same limitations as any floor-panel method: the response to sudden changes in heating demand was slow and the arrangement poorly adapted to homes designed to admit large amounts of solar energy through the windows.

Panel-Convection Heating with Warm Air

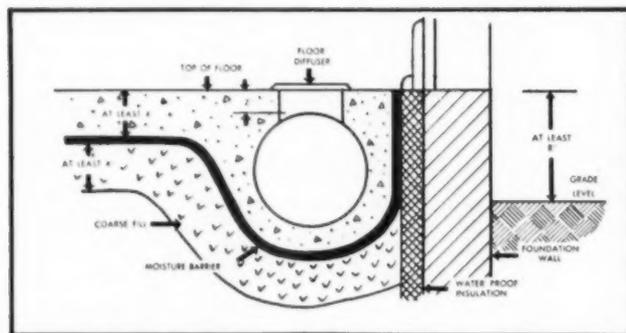
The panel-convection method proved most significant in the development toward an ideal practical system. Instead of circulating the warm air entirely in the subfloor channel spaces in a closed circuit, the slab was "punctured" where it proved to be most effective. In this manner the warm air from the ducts was permitted to enter directly into the room and return to the furnace above the floor.

This method has been designated as a panel-convection system, since some floor-panel heating is done, but the remainder is accomplished by the cooling of the warm air in the room. This system proved impressive in performance, even though the cost of installation was higher than was practical for low-cost structures.

Perimeter Loop Warm-Air Heating

The panel-convection arrangement was finally modified to the present-day perimeter loop method. An analysis of the fundamental requirements of the heating of a slab-floor-type home showed that the following essentials had to be provided by the heating system:

1. A heat source must be provided in the floor slab along the perimeter of the structure to provide warmth at the most critical part of the floor.



Elevation of perimeter duct showing connection for floor diffuser: The perimeter loop is entirely embedded in concrete. Effective edge insulation is mandatory. Good drainage should be provided so that all water drains away from the house

2. Adequate edge insulation is mandatory to minimize the heat loss from the floor slab to the outdoor air and to the ground.

3. Good drainage must be provided so that the edge insulation, the floor slab and the subfloor heat ducts are kept dry.

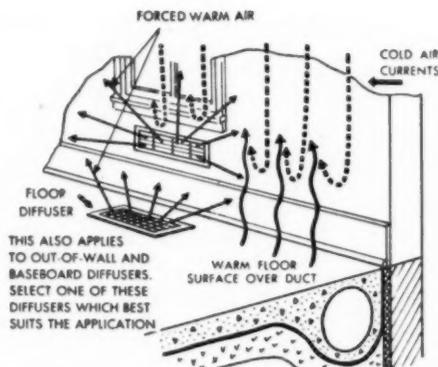
4. If the entire floor slab is not to be heated by means of subfloor ducts, then the few ducts that are to be installed must be so located that the usual cold, exposed corners of the building will be warmed.

5. The only effective way to counteract the drift of cool air that rolls down windows is to provide a counter-current of warm air from below the window. The cool drafts must be neutralized before they have a chance to settle in the middle of the room.

6. Since the greater part of the heat loss from a house occurs at the outer walls and windows, the registers must also be located near such exposures. This is contrary to long-established custom in warm-air heating, but is consistent with the best practice of the steam and hot water heating industry as far as radiator locations are concerned.

7. If the sources of cold drafts are taken care of at their beginning, then the location of the return air intakes should be relatively immaterial.

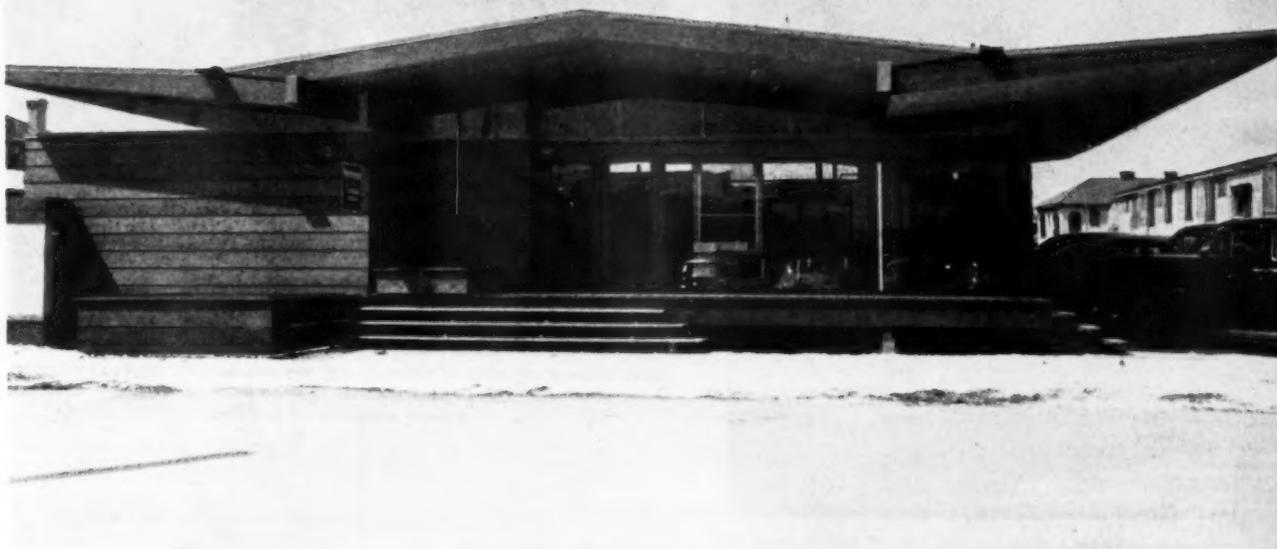
These seven essential items are incorporated into the so-called perimeter loop warm-air heating system. The performance obtained from such systems has been satisfactory as long as the installations are made in strict accordance with the instructions given in manual number four of the National Warm Air Heating and Air Conditioning Association.



Alternate locations of warm-air registers: Both the floor diffusers and side wall diffusers have been specially developed for this application and are available commercially. The air should fan outwards in a thin sheet to counteract descending cold air currents from walls and windows

new construction technique

WING-LIKE ROOF PERMITS NATURAL LIGHTING



Wing-like roof of New Orleans lumber office-sales room was so designed to allow plenty of natural lighting

BUILDER:

*Frank Quinn,
New Orleans, La.*

ARCHITECT:

*Elbert Charles Ledner,
New Orleans, La.*



Fitch-plate beam and steel support can be seen in the payroll-bookkeeping department. Note how roof at beam does not bear on the side wall. Outside window facilitates paying employees

THIS unusual roof line is not a whim of an architect striving for something different. It is a new construction technique that allows natural light to enter the building. The technique, used in the new office-sales room of the Singer Lumber Company of New Orleans, Louisiana, points up the use of dimensional lumber in place of heavy timbers for free cantilevered spans.

The most unusual feature of the building is the complete independence of the roof from the side walls of the structure. At no point does the roof bear on the top plate of the perimeter walls. The void between roof and sidewall is enclosed with glass. This is the feature that admits natural light. In fact, enough light enters the structure to offset need of fluorescent ceiling strips.

Blank walls around the structure are void of conventional windows. The front plate glass window is



Singer's office has one wall of folding doors so that two offices can be converted to one for large staff meetings



Glass between top plate of sidewall and roof can be seen in this photograph. Glass edges are lapped rather than set in wood stops. Glass line is unbroken around perimeter of building



Office area is void of ceiling lighting. Desk lights are only source of artificial illumination

Roof does not bear on perimeter wall. Void between top plate and roof is enclosed with glass



used for display and will have a screen behind the display items to cut outside glare.

The roof is supported by four posts forming a square inside the perimeter of the building. Tied to these posts are steel brackets. On top of the steel bracket is a beam of two 3-inch by 14-inch by 50-foot wood members with a $\frac{3}{4}$ -inch by $13\frac{1}{2}$ -inch by 36-foot steel flitch plate between. The flitch plate was welded to the metal bracket.

The gable section, made from 2x10's, is tied at the ridge with a 1x10 ridge plate that has been glued and nailed. These 2x10's were fabricated on the deck of the structure and lifted into position. The cantilevered rafter sections were fabricated from two 2x4's and anchored to the flitch plate beam and then were tied to the ends of the 2x10 rafters (see detail). The building bears on four concrete chain walls, 6 inches by 18 inches, 12 feet on center, running the length of the building. Double 2x4 plates were bolted to the chain walls. Joists are 2x10's. The sub-floor is diagonally laid 1x6 t&g sheathing. Paper and then $\frac{1}{2}$ -inch plywood were installed over the sub-floor. Sidewalls of structure are conventionally built and are 7 feet high.

builder TRADES to

EDITOR'S NOTE

Following *American Builder's* article on "trade-in" selling in the July issue, interest in this merchandising tool has reached a high pitch. Here is another of a series of documented experience stories. More will follow. For the convenience of readers, the four types of trading most widely used are reprinted here from the July issue.

I. STRAIGHT TRADE-IN.

The builder accepts older house at a predetermined figure when he turns over the new house. His staff or a realty broker sells the older house. Usually the profit on the older house after selling expenses is near 10 per cent.

II. TRADE-IN GUARANTEE.

Here, the builder guarantees the owner of the older house a percentage of appraised value and starts construction on the new house. In the intervening 90 to 120 construction days every effort is made to sell the old house at the owner's price. If sold, the builder is washed out of the deal. If not, he takes the house at the predetermined figure.

III. TIME LIMIT TRADE.

The old house is never taken in by builder in this type of operation. A prospect can choose a house and has 90 to 120 construction days to dispose of his old house. The builder usually has a tie-in with a realtor who attempts to sell it in the time limit. Usually the realtor's biggest problem is getting the owner to accept a realistic value for the older residence. If the house is not sold in the predetermined time, contract for the new house is void.

IV. REMODELED TRADE.

Some builders of low-cost, new homes trade for rundown older houses which require some remodeling to make them favorable on the selling market. Kitchens, baths, a new half bath, and exteriors are the portions that generally are remodeled. The builder may have a remodeling crew or sub-contract the remodeling to an expert in the field. His appraisal must include the worth of the house after remodeling. This operation can tie up a substantial amount of his capital before the house is ready for the market. Yet there is a definite need today for this type of trading. It is part of America's basic renovation of older living units and has great potential.



Western Builders' two-bedroom house with basement sells for \$8,200

"WE COULDN'T keep our present pace without trading," stated Vincent C. Buck, vice president-secretary of Western Builders in Spokane, Washington. This building concern has turned 60 trade deals this year resulting in the sale of 60 new houses—sales they wouldn't otherwise have made, according to Buck.

The organization uses the "Straight Trade-In" method, designated as the No. 1 plan for trading in *American Builder's* July issue. They are forced to use this system because of the delay of local lending institutions in completing paper work on new houses. Buyers of used houses want immediate occupancy, so the builder holds the old house off the market until just prior to the time the buyer takes possession of the new house.

Appraisal Procedure

Buck and one of his sales staff are qualified to make appraisals of the older property. Both make individual appraisals, taking into account neighborhoods, repairs which are needed, recent sales experiences of like houses, etc. Back in the office they sit down to compare notes and arrive at a joint appraised value for the older structure.

They use a formula similar to that advanced by the *American Builder* article of July, 1953, where-

by they allow 85 per cent of the appraised value. The remaining 15 per cent is needed for sales commission and a cushion against a falling market.

Financing of Old House

Buyers are given firm prices for their old houses and in most cases the company will apply the equity, or portion thereof, on the new house. They usually take over the remainder of the mortgage. Any differential between equity plus mortgage and selling price is usually handled by contract. The contracts are held by the builder and paid monthly to him by the buyers of the used houses.

Strange as it might seem, the builder is having difficulty in servicing buyers who have large equities in their old houses. A lack of mortgage money in the area makes refinancing of larger loans on the old property virtually impossible. When confronted with cases of this kind, the builder persuades the owner to take part of his equity in a land contract.

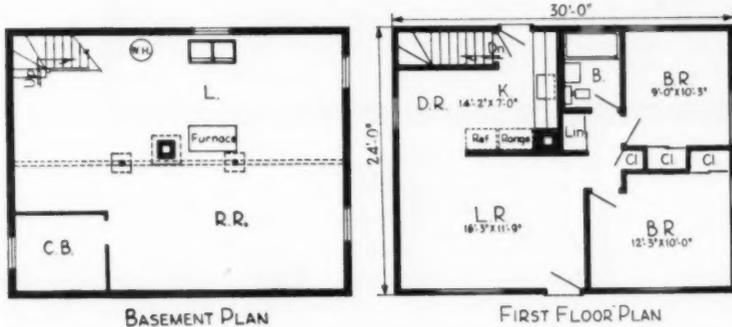
Pitfalls—Watch Out

Market fluctuations are the dangerous trap in trading operations, according to Buck. Since the first of the year he has faced a softening market and is well aware of this factor. He points out that the need

keep sales volume up



Two-bedroom slab-type house was traded in on new house. See example A. This house cost builder \$5,521.19; sold for \$6,500



Open-plan kitchen, dining and living area plus basement make this two-bedroom, \$8,200 house a fast seller in Spokane, Washington. Trading keeps sales alive

for proper appraisals and for the cushion of 15 per cent against possible loss is a real one.

Buck also points to other headaches in addition to assuming real estate risks. He states it is not a business for anyone who is not willing to do three times the amount of normal paper work required and a great deal of running around.

Is It Worth It?

Many builders might ask if taking a chance, and the other numerous headaches, are worth the effort. Here is the dollars and cents experience of this Spokane, Washington, operation. The selling price of the first 45 older houses taken in by the builder averaged \$9,000 each, a total of \$405,000. In addition, sales commissions of \$22,500 were realized by the realty end of the concern. Another five per cent net is expected on the \$400,000 gross business the concern expects to do this year in the selling of older houses.

Typical Examples

Case 1. Western Builders bought

house A for \$5,521.19, broken down as follows:

Unpaid mortgage	\$4,661.19
Owner's equity	730.00
Closing cost	130.00
Total	\$5,521.19

They sold the house for \$6,500. A commission of three per cent was paid to their salesman. That left \$800 profit.

In selling the new house to the above owner, they received \$400 down and took back a contract of \$1,400.

Case 2. House B cost the builder \$7,799.19.

Unpaid mortgage	\$6,834.24
Owner's equity	820.00
Closing cost	144.95
Total	\$7,799.19

The house sold for \$7,995, leaving a profit of less than \$200. In this case half went to the salesman; that is their standard practice when a house profit is less than the full commission. The owner paid \$400 on his new house and Western Builders took a \$700 contract on the balance.

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Four-bedroom older family home. We sell immediately at sacrifice. Call 3789 or MA-1459 for details.
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—PLUS—
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Ask for Tradin' Sam, the Western Man . . . No deal too small . . . He's tradin' big! Let him make you an offer on your old house.

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They advertise "Tradin' Sam" and get results; add profit dollars two ways—sales of new houses and sales of traded older houses

wash days are happy days!

...in El Camino Manor

Jean Fitzgerald and Jackie Steffen... typical happy housewives who share their delight in the smog-free air at El Camino Manor.

Mrs. Fitzgerald, who moved from Minnesota to Los Angeles with her husband and small son two years ago, says: "It's fun to live in El Camino Manor where it is always clean and fresh and wash days are such a pleasure. We like the location and appreciate the fact that our neighbors have equal pride and responsibility in keeping up their homes."

Mrs. Steffen, who arrived recently from New Jersey with her husband and two-year-old son, says: "We looked at a lot of homes before we found just the one we wanted. It has a good many extra features, such as the living room window facing the patio and the rear door leading directly into the yard, and is close enough to the aircraft plant where my husband works so we can both have time to enjoy it."



El Camino Manor
"HOME OF THE WEEK"
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Individual Styling... Quality construction... Centrally located... convenient to schools, from kindergarten to El Camino Junior College... 36-hole golf course, recreation center and supervised playground for pre-school children... high and dry during recent rains.

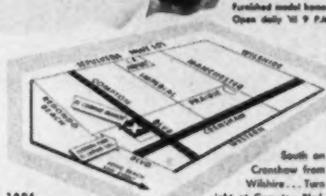
Down payment from **\$2445** Monthly payments from **\$54.26** (incl. taxes and ins.)

2 Bedroom from **\$9950** 3 Bedroom from **\$11,550**

El Camino Manor

COUNTRY CLUB SECTION OF THE SOUTHWEST AREA

ANOTHER COMMUNITY DEVELOPMENT BY MILTON KAUFFMAN... SINCE 1906



Furnished model homes
Open daily 10-9 P.M.

South on
Cresshaw from
Wilshire... Turn
right at Compton Blvd.

let the neighbors SELL the neighborhood

THE builder's problem was to appeal to people who had from \$2,445 to \$3,750 to pay down—a class of buyers that must be sold on the character of the neighborhood as well as on the house itself. This type of personalized advertising, featuring photographs and testimonials of actual residents in the subdivision, did the trick. It was kept up for several months and sold out a tract of 317 houses. The builder was Milton Kauffman of Los Angeles.

fishing's fun for small fry ...at El Camino Manor!

It's wonderful being Fitzgerald and his outdoor neighbor, 2-year-old Freddie Wilkie. Best for the fishing pond is Andrea Park.

The thrill of catching... Mrs. Fitzgerald's 2-year-old son, Freddie, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

Convenience in the backyard... Mrs. Fitzgerald's 2-year-old son, Freddie, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

Shades from being... Mrs. Fitzgerald's 2-year-old son, Freddie, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

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COUNTRY CLUB SECTION OF THE SOUTHWEST AREA
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Lucky teacher... Lucky stu

Janetie Marie Lewis and her husband, Ed, are friendly people who have made it their job to be El Camino.

Beneficial... Mrs. Lewis's 2-year-old son, Ed, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

Down... Mrs. Lewis's 2-year-old son, Ed, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

Pride in the neighborhood... Mrs. Lewis's 2-year-old son, Ed, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

A lifetime of happiness... Mrs. Lewis's 2-year-old son, Ed, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

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2 Bedroom from **\$9950** 3 Bedroom from **\$11,550**

El Camino Manor

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ANOTHER COMMUNITY DEVELOPMENT BY MILTON KAUFFMAN SINCE 1906

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She's a typical, happy, El Camino Mother...!

Mrs. Schindler's 2-year-old son, Freddie, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

Suburban atmosphere... Mrs. Schindler's 2-year-old son, Freddie, has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor. He has a special thrill in catching small fish in the pond at El Camino Manor.

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El Camino Manor

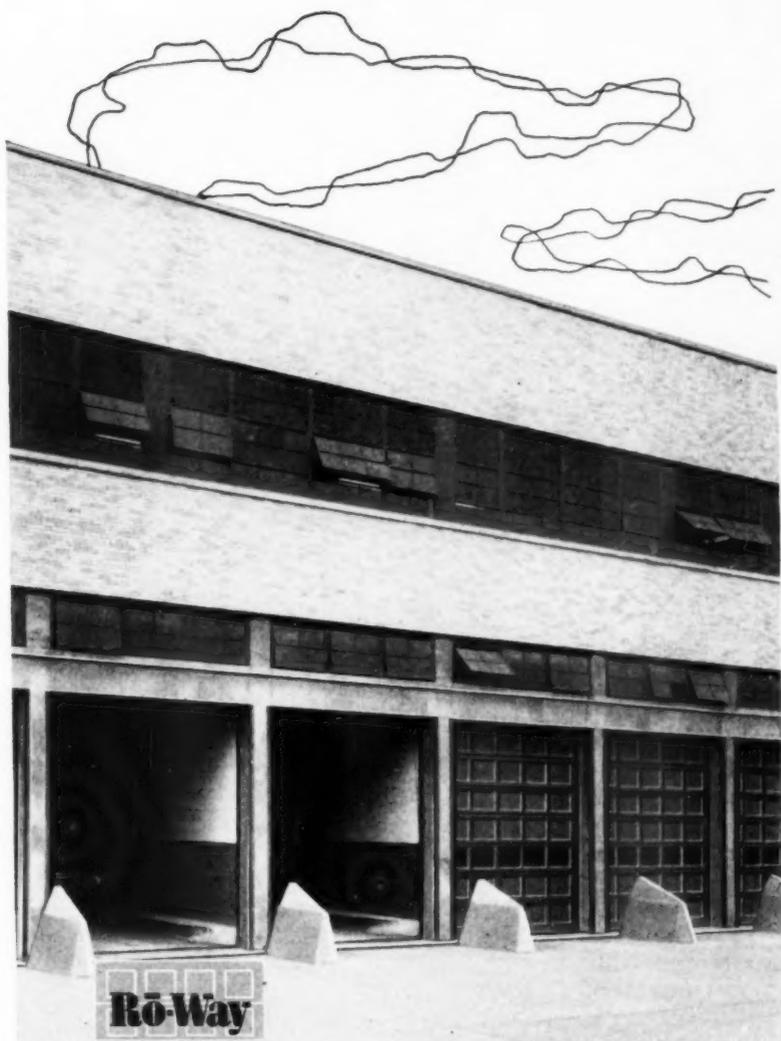
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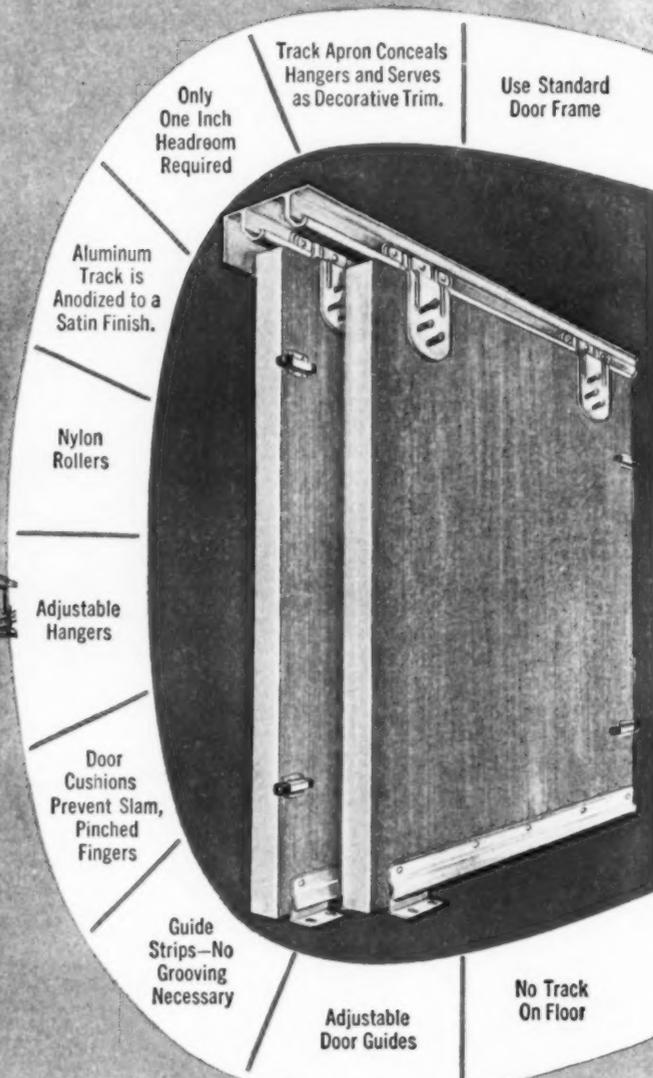
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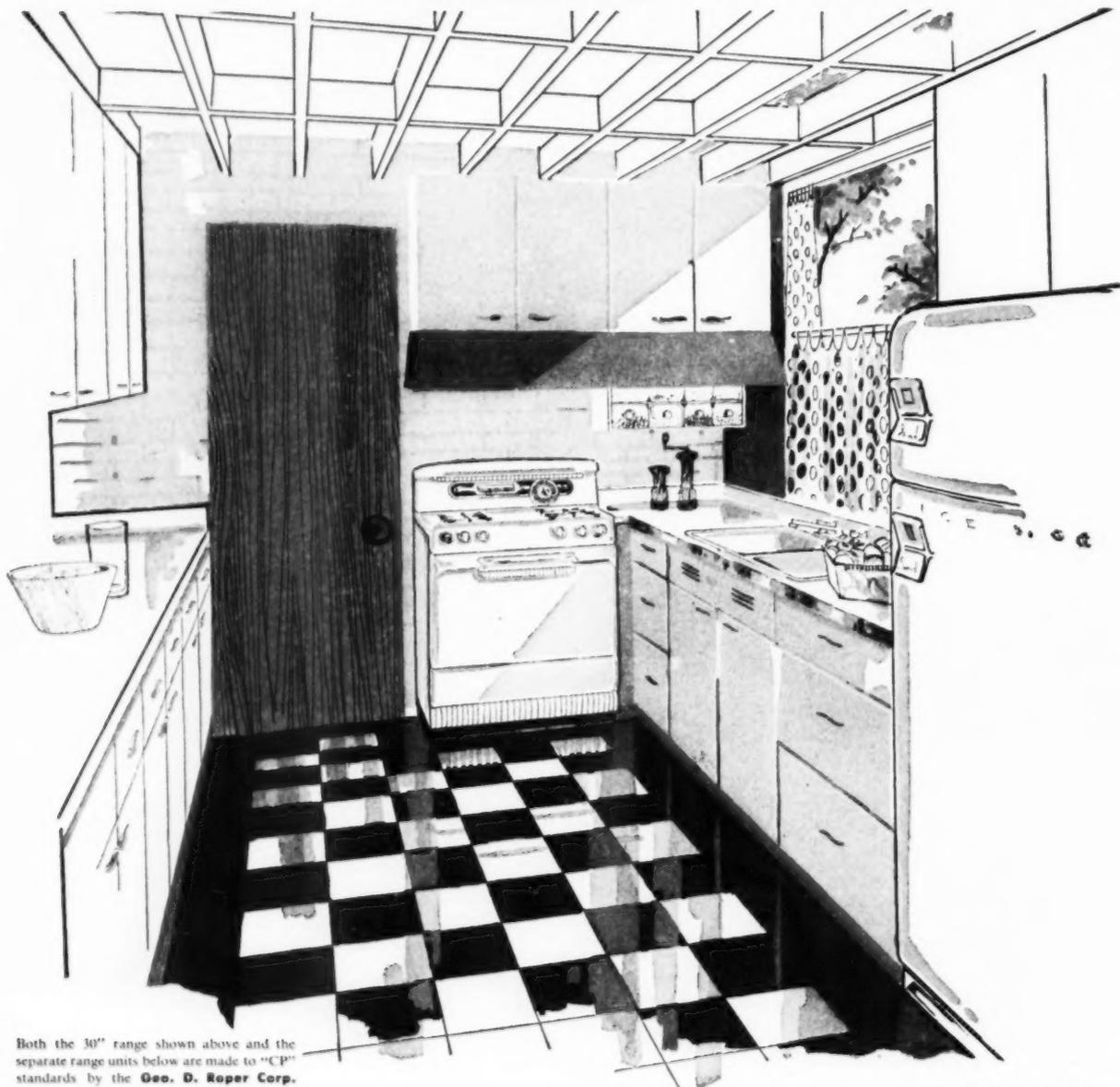
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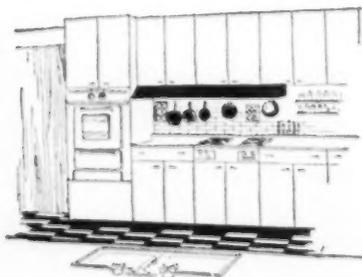
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When it comes to **small
kitchens** ... nothing makes

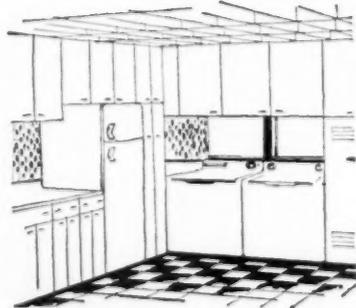


Both the 30" range shown above and the separate range units below are made to "CP" standards by the **Geo. D. Roper Corp.** Cabinets by **St. Charles.**



Left: Even a kitchen as small as this can have the excitement of Gas separate range units built right into the cabinets.

Right: Famous for silent Gas refrigerators, **Sorvel** features an ice-maker that starts itself, stops itself, supplies its own water, makes ice cubes without trays. More, its freezing system is so trouble-free it carries a 10-year warranty.

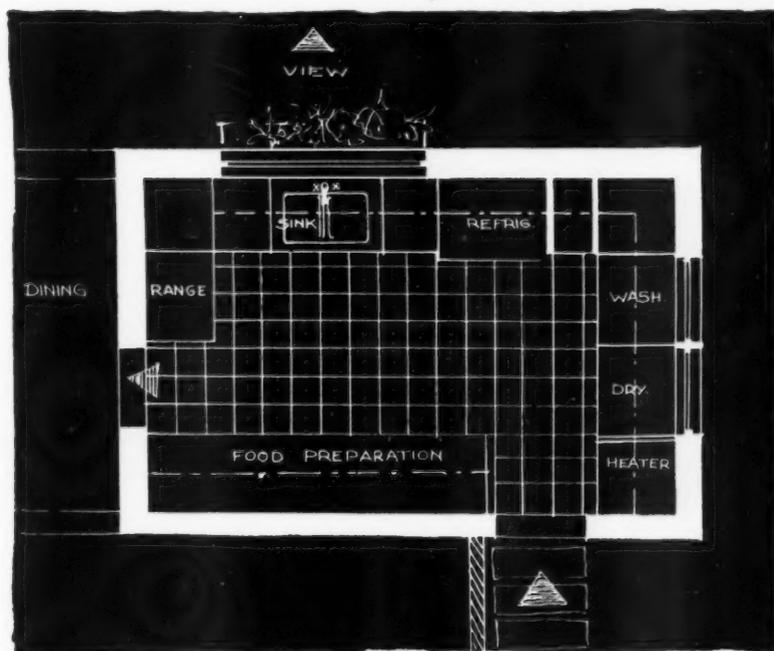


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In laundry areas, Gas makes the most sense. Take water-heaters. A 30-gallon automatic Gas heater actually gives more service than an 80-gallon tank run by any other all-automatic fuel. Gas is 3 times faster! A Gas automatic clothes dryer needs no warm-up period, is therefore twice as economical per load. In remodelled homes, it's far cheaper to tap the Gas line for appliances like these than to install a 220-volt cable. But new home or old home, in every home, Gas is faster, thriftier, better!

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since Grandpa
kissed the cook!**



"Easy Living"
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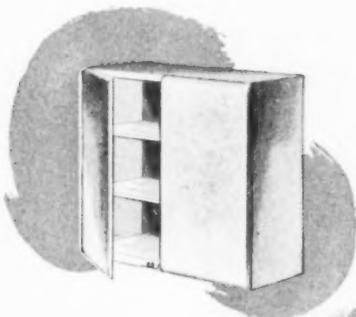
Maker of the World's Finest Bathroom Fixtures

AMERICAN BUILDER

THIS NEW KITCHEN LINE

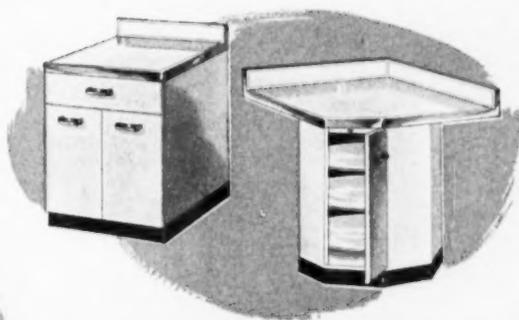
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Top quality cabinets of heavy gauge furniture steel . . . easily adjustable and removable shelves . . . quality features galore . . . a wide range of sizes!

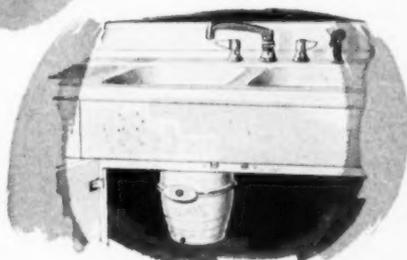


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Designed to match U/R Easy Living cabinet sinks . . . U/R quality features . . . choice of cabinet tops . . . handy "Lazy Susan" corner cabinet . . . easy operating doors and drawers . . . sizes that let you plan "built-in" styling in every kitchen.

DISPOSER!

The most quiet disposer made—and the easiest to install! Revolutionary "Under-cut" action reduces noise, gives speedy grinding action.



CABINET SINKS!

Choice of vitreous enameled cast iron or steel! Famous U/R sink quality, with top quality cabinets to match U/R Easy Living base and wall cabinets. Wide choice of models to fit every kitchen and budget.



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Fillers . . . breakfast bars . . . utility cabinets . . . what-not shelves . . . custom counter tops . . . spice, plate and soap racks, potato and flour bins—**everything** you need for modern kitchens!

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KITCHENS
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Now also available—Andersen Casements in sash width 4½" wider than illustrated.

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Windowalls^{*}
COMPLETE WOOD WINDOW UNITS



FRESH AIR and a view have their place in the truly efficient kitchen. They make the hours spent there *pleasant*. To welcome fresh air and sunshine to this kitchen, architect Magnus Jemne placed a wide

Andersen Casement Picture Window Unit over the most important work area. This WINDOWALL opens easily, at arm's length. Yet when closed, it keeps out unpleasant weather like a wall.

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◀ **"Budget" houses are our specialty,**" says Mr. Frank A. Collins, President of F. A. Collins Company, Philadelphia, Pa., "but most of them have included electric kitchens, because the kitchen is the focal point of interest to women. One important item that always attracts the homemaker of the family is the modern *Electric Range*. Its features appeal to women. No matter what type of homes you build, it pays to include *Electric Ranges*."

▼ **"Our homes include** the very newest and finest developments in building products, methods and appliances," says Mr. E. A. Ballin of Hewlett Harbor Construction, Inc., Hewlett Harbor, N. Y., "and for that reason they are equipped with modern, automatic *Electric Ranges*."

**"BUDGET"
AND BIG...**
there's a
resemblance...

both have
electric
ranges!



Attractive kitchen wall cabinets in the kitchens of the Collins "Budget Glamour Homes" at Roxboro Park have glass sliding doors. Appliances include electric refrigerator, automatic washer, and the range—of course, it's **ELECTRIC!**

Houses may be large or small, but when builders report them selling fast, you're likely to find one resemblance—the *Electric Range* in the kitchen. No matter what the home costs, the customer wants an *Electric Range* included. It's both economical and easy, and assures a clean, cool kitchen. Are *you* taking advantage of this preference in the homes you build? No matter what their location or price bracket, the modern *Electric Range* can help you *sell* them!

More builders every day are
installing **ELECTRIC**

RANGES



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AMERICAN BUILDER

an
extra
 that
 can help
 you close
 a sale



The "Laundry" by RICHMOND—gleaming vitreous glaze "Perma-Gloss" 40" x 23", two compartments, raised shelf back—B-584. Integral overflow and cast iron twin waste connection. Brass plugs and rubber stoppers. Also available in single compartment—B-570. 20" x 22"

Laundry

by
 Richmond

NOW—a new, modern laundry tray to replace old concrete or soapstone tubs that are still around—fill a real need in the new home, or the laundry where the old tubs have long since disappeared.

Recent surveys show that a laundry tray is needed badly in the home laundry, particularly for handling the sheer stockings, lingerie and fine woolens, which are seldom entrusted to the automatic washer and must otherwise be laundered in the sink or lavatory. The RICHMOND "Laundry" is the answer—a beautiful tray in vitreous glaze "Perma-Gloss" that any housewife will be proud to have installed in her home.

Check your RICHMOND wholesaler today.



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market house
the
CUSTOM LOOK



and construction excellence which appeal to buyers whose tastes are conservative.

The approach to the house has been made pleasantly individual. Scintled brick, hand-split cedar shakes, slate roof shingles and horizontal wood siding have been combined in the facade for textural contrast. Adding a low 3-inch brick wall creates an attractive entrance courtyard. Note how this wall complements the drop of the shed roof

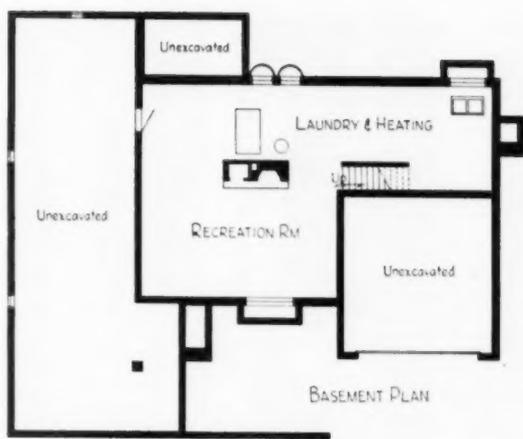
of the facing wing, and how the slanting top of the ornamental iron gate follows the roof pitch—little points which subtly contribute to the over-all impression of individuality in the design.

Another of these little points is the special design of the Raynor overhead garage door, complete with Automagic door operator. Restifo also makes a big point of front doors, gives each one an original design.

BUILT speculatively on a 90-foot lot in exclusive Forest Hill, Cleveland, this house has the earmarks of a job carefully carried through to suit a fastidious owner. But it was built for sale by James T. Restifo, a builder active in both the east and west suburban areas of Cleveland. The house was designed by the builder's architect son, Nick

Sold before completion this summer for \$47,500, this house is an excellent example of what a well-matched team of builder and architect can do to produce extra-fine houses having the kind of charm



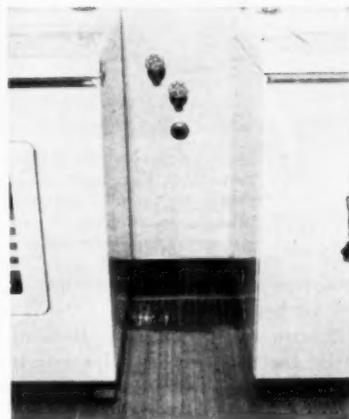
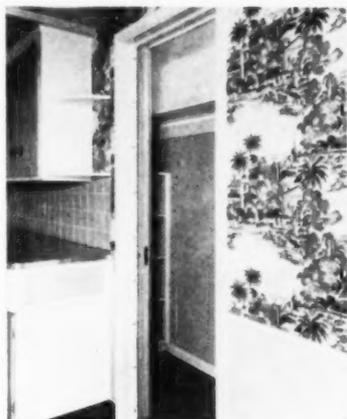


Color scheme for the exterior is white with details (including the garage door) in a soft blue. Windows are aluminum, all sills are marble.

Restifo's plan is a careful interpretation of one-floor living. Even though there are laundry tubs in the basement, a full-size laundry room furnished with Hotpoint equipment is located next to the kitchen.

The kitchen is complete with a dining alcove which is almost a room in its own right. This space is made even more important by decorating it in harmony with the more formal dining "L" of the living room—with scenic wall paper and dado.

Partial dropped ceilings in kitchen and bathrooms are a device used by the builder to add a strong note of interest and novelty. The variation in effect which can be



Fireplace is of green-gold Holland brick with birch paneling and molding painted to match. Planter extension helps to define dining area. (Below) Two views of the kitchen. (Above) Big broom closet has sliding door, plenty of illumination. Copper drain in laundry room floor catches overflow





A two-way closet for blankets and linens can be used both from bathroom and hall in bedroom wing. High-quality tile work, dropped ceilings, electric space heaters and well-chosen colors make glamorous bathrooms



(Below) Built-in dressing table is a good way to use space between closets. Fir driftwood paneling makes a distinctive recreation room. Window well for this room was made large enough (see plan) to admit extra daylight

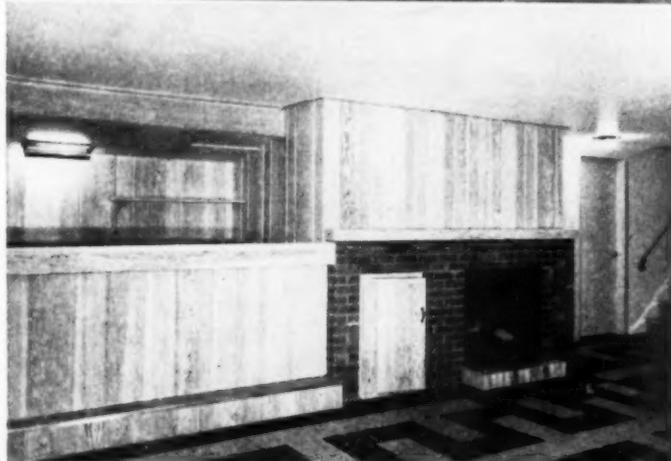
achieved in this way is shown in the kitchen photographs.

Restifo used imported Holland brick for the fireplace. Its green-gold color is burnt in and gives a rich effect. The birch paneling and molding of the fireplace wall were painted to match.

Sliding doors are also a Restifo favorite. He uses them wherever possible. There is even a metal one which acts as a fire stop between garage and back hallway. Trim around doorways is hand-rubbed before painting.

The bedroom wing is served by a large hall, four feet in width, connected to the rest of the house by doorways at two convenient points. The master bathroom is made to double as a powder room. Perhaps the one serious flaw in the plan is the tight dimension of the front entry where the swing of the front door might interfere with easy use of the guest closet.

The partial excavation of the basement plan cuts down on storage room, but this is compensated for by attic storage space reached by a fully finished stairway leading out of the garage. As is, the basement space is more than adequate for recreation room activity and a large laundry-heater room. House is heated by a Niagara gas burner.





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FLUSH DOORS

ADD \$\$\$ TO HOUSE VALUES—

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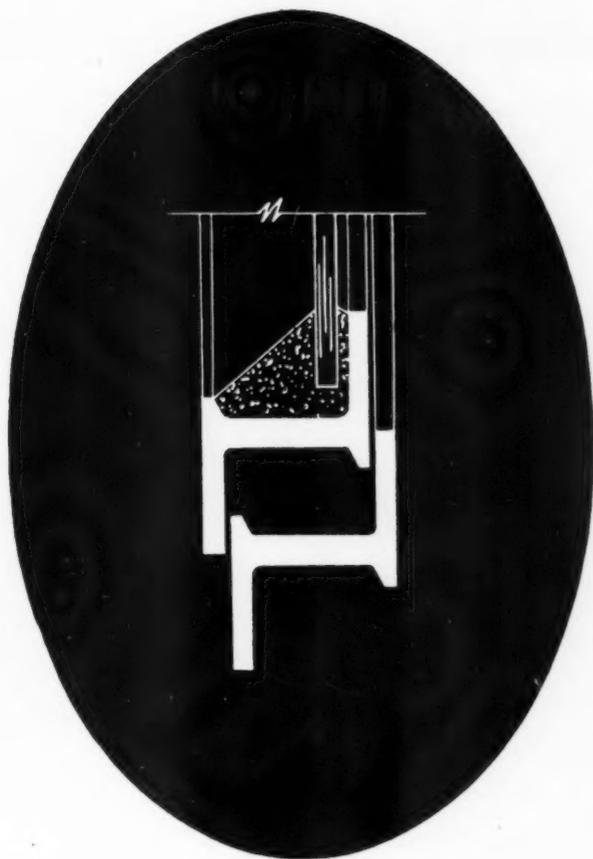
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"People like the DELTASHOP," says Harry Quinn. "Visitors came steadily that opening Sunday, from 8 A.M. until 10.30 at night—several thousands.

"Fully one-third of the visitors were really enthusiastic about the DELTASHOP idea.

One man bought a non-expandable house, and asked for a DELTASHOP—agreed to the extra cost.

"We sold over half the houses in two days —will sell all the rest within three weeks."



with a DELTASHOP[™] -and Complete It Yourself[™] PROVES JACKPOT IDEA FOR QUINN HOME BUILDERS INC.

On June 14, 1953, an ad in the Chicago Sunday Tribune by Quinn Home Builders, Inc., invited inspection of new Expandable Homes, each equipped with a

DELTASHOP, combination of four famous Delta Homecraft Power Tools. The idea was simple: get an attractive home and save a lot of money by completing the expandable area yourself, using the DELTASHOP and detailed plans furnished as part of the package.

"Several thousand people got the idea and liked it well enough to take a look," says Harry Quinn, architect-brother who designed the homes. "It's astonishing how many men had always wanted Delta tools; and the chance to get a DELTASHOP, a real Utility for Men, was a big inducement. In fact, we'd already sold three houses from the plans before foundations were in—and the DELTASHOP was an important factor."

MERCHANDISING Sells Houses

It is one thing to build good houses; it's quite another to recognize people's deep-seated desires and wants, and utilize them to sell houses. What Quinn is doing is an open secret. If you'd like to investigate how you might put the plan to work in your business, write us. Delta Power Tool Division, Rockwell Manufacturing Co., 646J North Lexington Ave., Pittsburgh 8, Pa.

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THE PROTEGE - Tri-Level Expandable
A smart, attractive modern design. Provides for one additional bedroom on the third level. Each of our sets, when you're ready, using the DELTASHOP. You never leave us our compact home work.

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How it fits in the perfect answer to your fondest dream plan by Quinn Home Builders, Inc.

These delightful homes provide two bedrooms, kitchen, ample space to finish two more rooms later on. One design is for a 4 bedroom, two bathrooms and a bath with a full bathroom on the third level.

Other plans of extraordinary charm include a ranch house with two bedrooms, living room, study, family room, and a full bathroom. Another design features of four level homes is a smart home with the famous DELTASHOP. This remarkable equipment for additional rooms when you need them.

You'll also have a full set of architectural drawings plus five home expansion plans for building your dream. All you have to do is order your set of extra plans for your home. This is the same with which you can make your own home. Expansion with maximum down-payment requirements. \$17,950 to \$19,300.

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The delight of a smart expandable home provides for complete room and bath on the first floor. Designed in one through one bedroom, second bathroom, the expandable second floor can be a bedroom, room and bath, or a full bathroom. The third floor can be a bedroom, bath, or a full bathroom. The DELTASHOP \$19,300 - \$24,000 down.

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Cash Payment - \$17,950
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See the perfect home construction of the first home—see the first home built with the DELTASHOP. The DELTASHOP is a complete set of four power tools for building your dream home. It includes a hand saw, a circular saw, a drill, and a sander. The DELTASHOP is a real utility for men. It's the same with which you can make your own home. Expansion with maximum down-payment requirements. \$17,950 to \$19,300.

What Buyers said about DELTASHOP

"I like the DELTASHOP compactness—all four tools on one stand," says John P. Janus, an early buyer of a Quinn 4-room Expandable House; "and including the tool in the price of the house made it easier to buy."

Others said:

"Looks to me like a swell idea." "With tools like that it shouldn't be too hard to finish the place."

"Maybe it's a good idea for a guy like me who doesn't know a saw from a hammer."

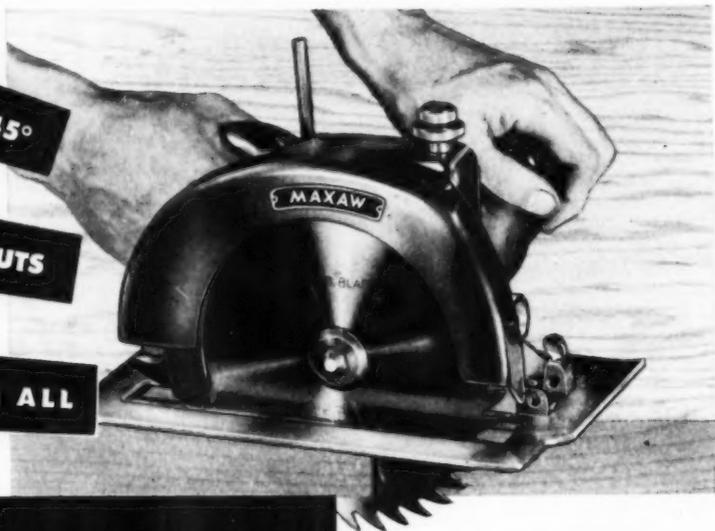
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When you see the magic • pivot cutting performance of the MAXAW 800... how it bears down with that extra cushion of power on tough cuts... how it speeds work and saves you time and money on every job... you will instantly agree that it is the greatest power saw value in America.

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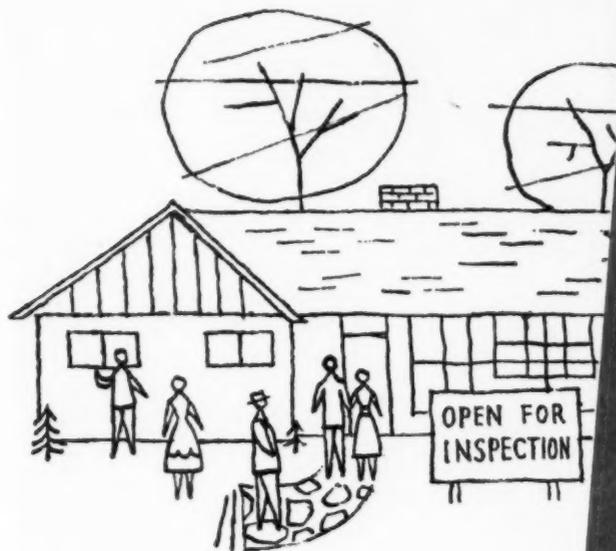
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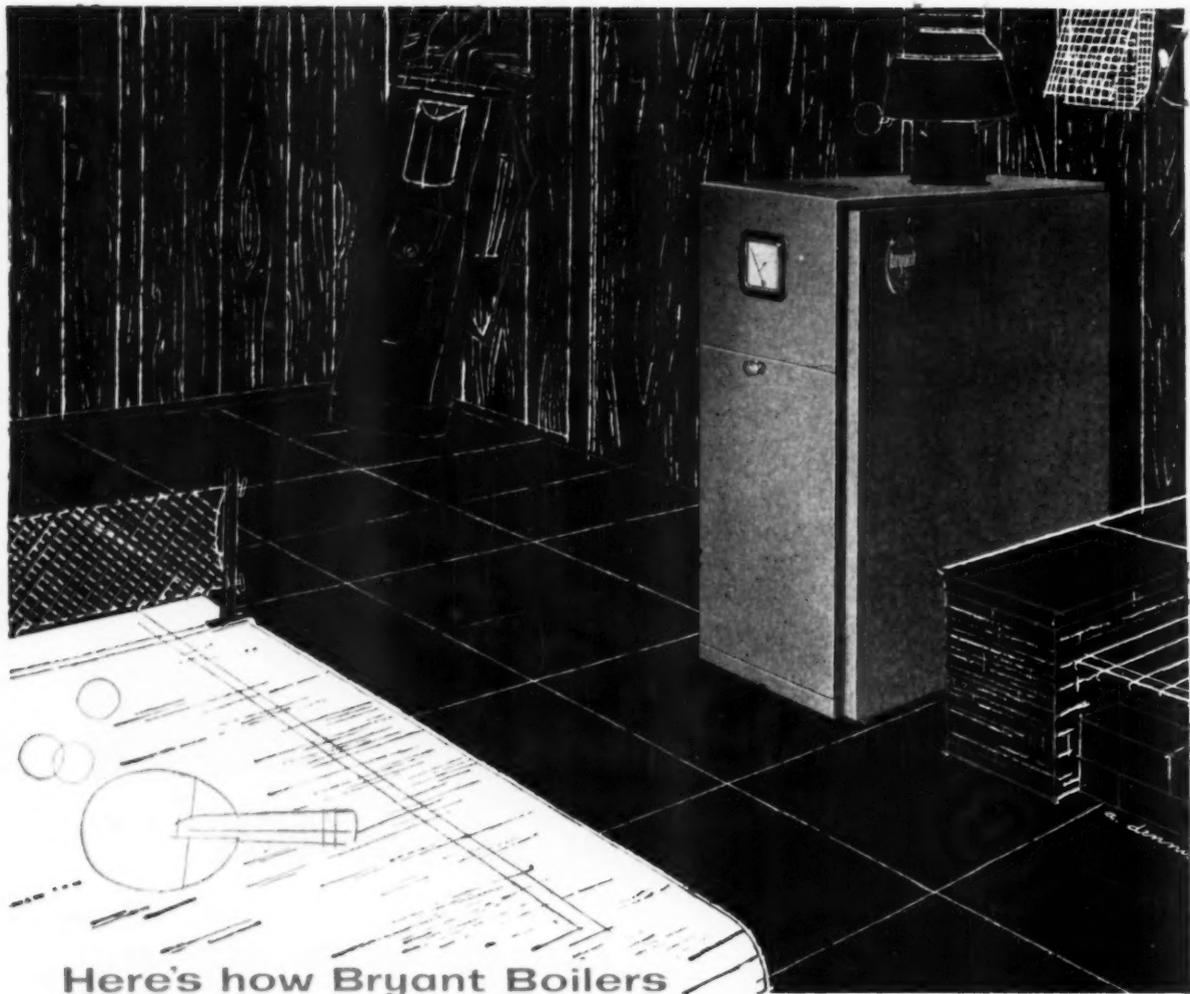


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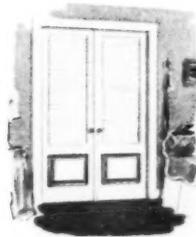


Decorator Doors help bring new color interest to the home. Notice how this 3-panel "Rancho" door harmonizes with room colors.

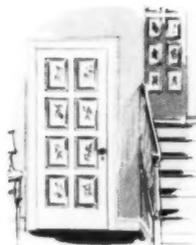


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They're coming by the thousands—requests from home planners for information about Ponderosa Pine Decorator Doors! National magazines—big city newspapers—are giving prominent editorial mention to these satin-smooth, crisply paneled doors that can so easily be decorated to provide new color interest. These Ponderosa Pine doors provide *extra* help in selling homes in today's highly competitive market. Find out the tremendous scope which Decorator Doors can give you in planning homes of distinction and sales-appeal. Mail the coupon for your copy of "Latest Color Style News."



Now doors can style the mood of your rooms—as witness, this gay louver door of Ponderosa Pine permits ventilation—with privacy. An excellent choice for bedrooms and closets.



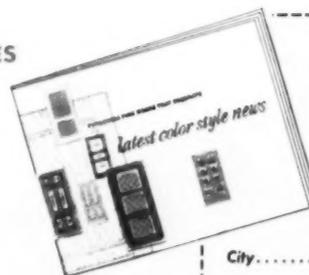
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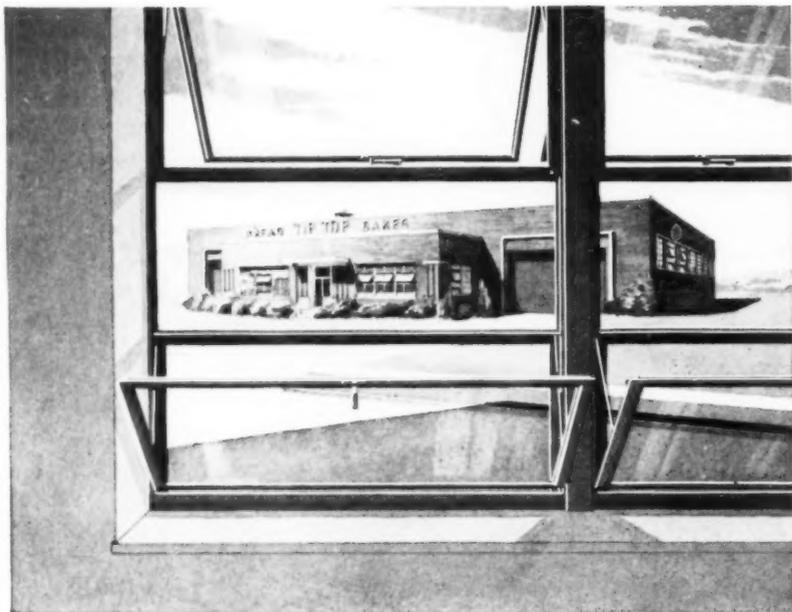
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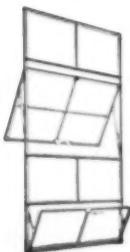
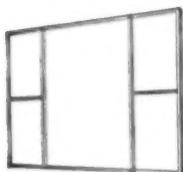
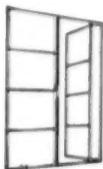
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Lupton Windows can be installed quickly and easily. They need little adjustment, when new or as time goes on — save you the time and expense of call-backs. A precision manufactured Lupton Metal Window correctly installed means a lifetime of service with minimum attention. Fabricated from steel or high strength aluminum alloy — employing the most advanced methods of construction — tested and checked throughout manufacturing — each Lupton Window adds to a reputation for quality that's been growing for over 40 years.

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Lupton sales offices are ready to give you full information. Lupton distributors can supply you from East and West coast warehouses. Representatives are usually listed in the Classified Section of Telephone Directories under "Windows — Metal" or "Sash — Steel". Write, wire or phone, you'll get prompt attention.

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700 East Godfrey Avenue, Philadelphia 24, Penna.

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LUPTON

METAL WINDOWS



It's nae so much the pr-r-r-ice... It's wha the roof COSTS!

THRIFTY BUILDERS know that there has never been anything made that couldn't be made for less. They know that some products meet competition with price—others with superior quality.

The builder who chooses his materials for *price alone* is more interested in initial cost than in getting—and giving his customers—real value for the money.

The thrifty builder of homes buys roofing material for longer wear. He buys for freedom from *trouble*. He buys for fewer repairs . . . for more dependable service and over-all greater performance. He knows that thrifty buying isn't merely price-tag buying.

The Best Buy in Roofs is the Material That Costs Less Per Year of Service

CERTIGRADE Red Cedar Shingles, applied on inexpensive *spaced* sheathing offer the thrifty builder low initial price, and the home owner the lowest cost-per-year of carefree service.

Figure your roofing costs *both ways*: First with ordinary roofing material including the *solid* sheathing lumber required. Then figure it again the economical way—using only about half as much *spaced* sheathing and far less labor and nail cost applying it for use with *cedar shingles*.

Once you have found how cedar shingles can save sheathing costs, you'll be convinced, *as so many successful builders are*, that cedar shingles belong on the homes you build. Write for a free roof cost estimating form. Address: RED CEDAR SHINGLE BUREAU, 5510 White Building, Seattle 1, Washington or 425 Howe Street, Vancouver 1, B. C.





Drive leads around at left of house to double garage entrance at rear. Nursery school uses this garage space as a playroom

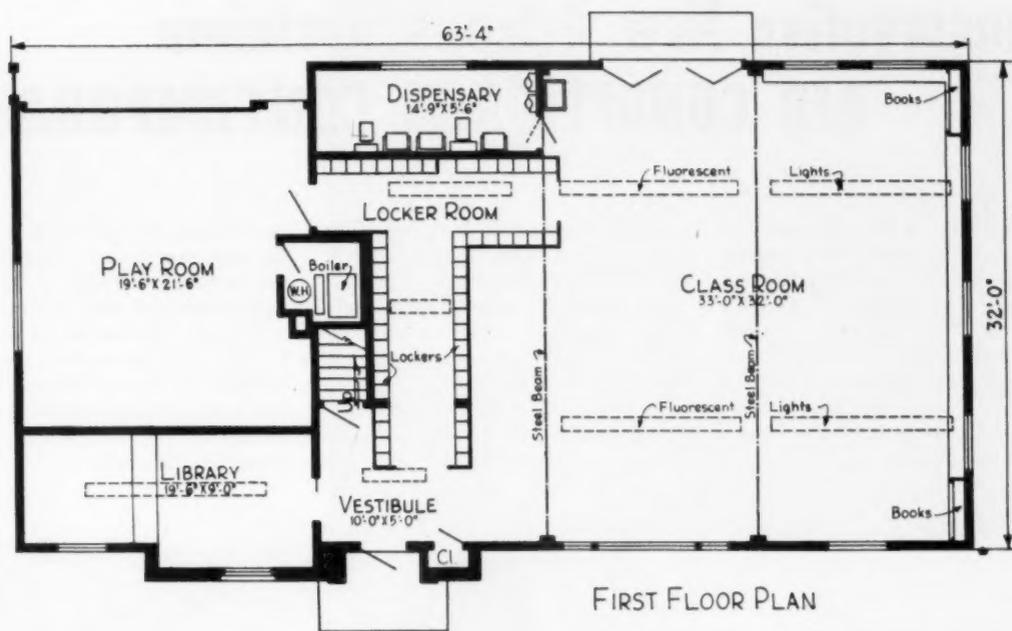
a house with two lives

OUTSIDE . . . a home in an exclusive subdivision

INSIDE . . . a nursery school



View of one corner of the big classroom which occupies most of first floor. Heating for first floor is a radiant-floor copper-coil panel system using a gas-burning Janitrol boiler. This heats the garage space as well

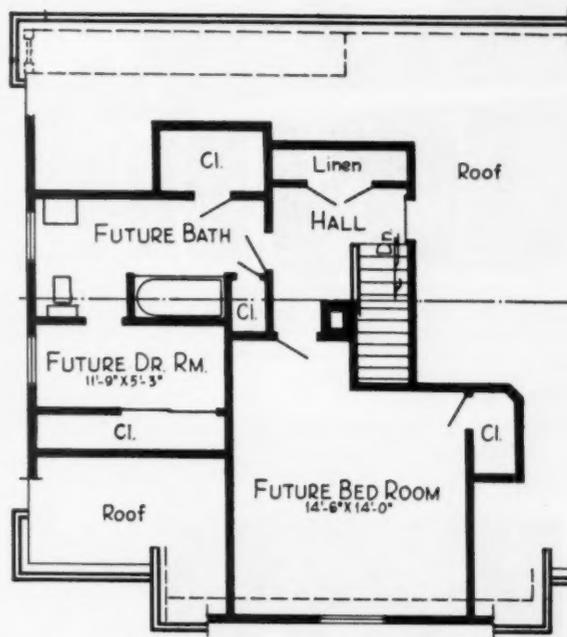


FIRST FLOOR PLAN

House is built on a 4-inch reinforced concrete slab over crushed stone fill. Second floor is not used by school; has provision for future convection radiation



The backyard is a well maintained and equipped play area



SECOND FLOOR PLAN

THIS house that isn't a home neatly solved a problem that confronted the developer of Forest Hill, a highly restricted residential area in Cleveland Heights, Ohio.

Some of the residents of Forest Hill wanted to establish a nursery school for their own and other children, and locate it within the subdivision. The developer could not allow a building to go up which

would detract in any way from the carefully controlled residential character of the area.

This building was the result of these two desires and purposes, and solved what might have turned out to be an unfortunate impasse.

Designed by Charles A. Metzger for the Happy Day Nursery School, the structure blends perfectly with its neighborhood and could easily be

converted into a single-family home should the nursery school disband at some time in the future.

The location as well as the design contributed to the success of this solution. The lot is a generous one (90 feet wide) located next door to a spacious corner site occupied by a church building. On the other side the house-school is flanked by yard of a home occupying another corner.

conservative New Orleans acclaims AIR CONDITIONED CONTEMPORARY

IT WAS a blistering hot Sunday! Perfect weather for the opening of the first completely air conditioned subdivision in New Orleans. The comfortably cooled model house drew thousands and received rave notices for builder Fred C. Loucks. In fact, the first couple to view the model purchased it that same day.

The story of this subdivision doesn't start here; it goes back a year or more, for Fred C. Loucks had a vision of something different. He wanted to create a modern house for irregular-shaped suburban lots.

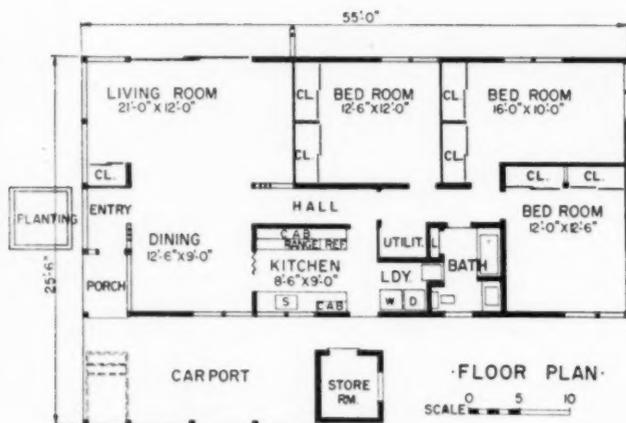
Loucks called the New Orleans architectural firm of Carter & Davis to prepare plans for a contempo-

rary house. He believes this to be the start of a close association with the architect, leading to a good builder-architect relationship.

To make the best use of the site, Loucks had it planned by the Land Institute of Dallas, Texas. Use of the land planners made sense as lot values in New Orleans hover around \$4,000 each.



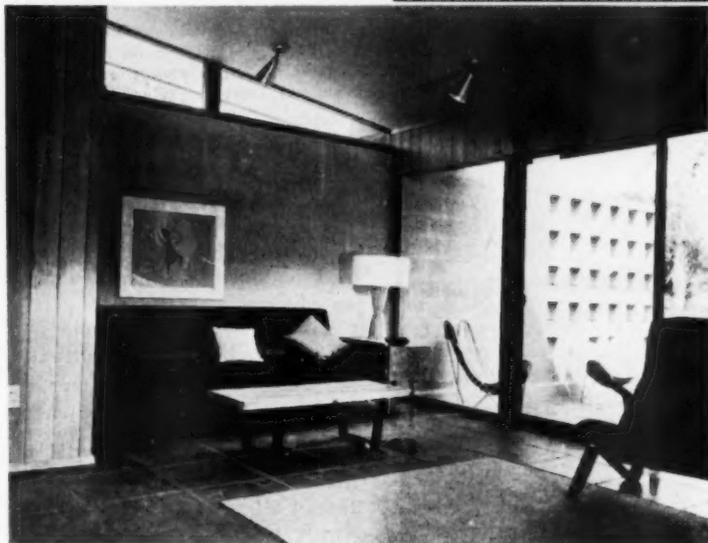
First buyers look over plan with Builder Loucks. These people were the first to view the house when it opened at 9 a.m.



Floor plan has 1,400 square feet

The site has a gracefully curved street with a turn-around circle at the far end. Lot sizes and shapes vary but will average 7,200 square feet or better. The curb and gutter are an integral three-foot-wide unit, eliminating sidewalks.

The first house, used as a model, to emerge after a year's work was a low-pitched contemporary with open planning. The glass area and patio placement tie indoors and outdoors together. The floor plan of 1,400 square feet includes three bedrooms, bath, kitchen and open-planned living-dining area. Sliding glass doors which open onto the patio comprise the only fenestration in the living room.



Living room has 273 square feet. Features are large glass area and precast concrete flagstone floor. Masonry wall extends through window area to shield patio, tie inside with outside

Dining area is 12 by 12 feet. Floor is of precast concrete, walls are finished with vertical cypress, ceiling is of plasterboard. At right is front door and entrance hall

The subdivision is planned for 23 houses, all of different design yet featuring the same contemporary motif. Two- and three-bedroom units with one or one-and-one-half baths were planned. Each house will be equipped for summer cooling and winter heating. All houses will feature storage walls in place of conventional closets.

A two-ton Carrier air conditioner-furnace combination unit is installed in a central utility closet. The duct work, which was kept to a minimum, is placed in the lowered central hall ceiling. The warm or cold air (depending on the season) pours into the room directly from the hallway. One central return register is located in the hall.



PRESENTING

.....



THE NEW ADVANCE STYLE LAUNDRY TUB

Here's the answer to every home owner's prayer for something fashionably new and different in laundry tubs! Ideal for utility room, laundry room, basement or kitchen. Nothing else can compare with it for sales volume and profit as well as for home satisfaction. Don't delay, order today! Look at these advantages:

- **POLISHED STAINLESS STEEL TOP TRIM**
(WITH 2 EMBOSSED SOAP DISHES)
- **FIBERGLAS TUB WON'T CRACK OR MAR***
- **MATCHING FIBERGLAS COVER FOR ADDED STYLE****
- **IMMACULATE WHITE ENAMEL STEEL CABINET**
- **FULL SIZE DOOR FOR EASY STORAGE AND REMOVABLE FOR PLUMBING INSTALLATION**
- **RECESSED BASE FOR TOE ROOM—IN RICH BLACK**
- **LEVELING SCREWS HIDDEN IN BASE ADJUST FOR HEIGHT AND UNEVEN FLOORS**
- **LIGHT WEIGHT SIMPLIFIES DELIVERY AND SET UP**
- **CHROMED BRASS OVERFLOW PIPE SAVES EXTRA WORK, HOT WATER AND SOAP****

*(Trade-mark O.C.F. Corp.)

*WITH THE FABULOUS
FIBERGLAS TUB!*



* Fibreglas tub won't crack, mar or stain under any ordinary household usage.

Big door is full size of storage area for easy access and installation.

** (Overflow pipe, and Fibreglas style-top cover optional at low price. Faucet not supplied.)

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PLANTS IN; DETROIT, MICH.; CLEVELAND, OHIO
KANSAS CITY, KAN.; NEW ORLEANS, LA.

SAVE TIME . . . SAVE MONEY . . .

and do a better insulating job with

Johns-Manville *Spintex*



Fewer packages to handle!

● When you open a package of Spintex Insulation you'll find 25% more Batts or Blankets than in the same size package of ordinary insulations. That's because Spintex is so resilient it can be compressed for packaging yet springs to designated thickness when packages are opened. When you use Spintex you save money on each job because of fewer packages to handle.

Easier to Install!

● You can install Spintex faster and do a better job of insulation because the batts and blankets are far more firmly felted than ordinary types. They are rigid and strong, hold together, don't "flop" or sag when you handle and apply them. And their remarkable resilience makes them grip the studs or rafters when pressed in place. This saves time and money on every job.



Your choice of Batts and Blankets!

● Spintex Insulation is available in fully wrapped blankets or open faced batts in thicknesses to meet every job budget. Each has a heavy vapor seal backing with projecting flanges for easy fastening. Easy-to-follow instructions for application are printed on each batt or blanket.



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THE FIRST NAME IN INSULATION



AMERICAN BUILDER

IN Colonial Park TOO...

—a Community that has Everything for Better Living—

THE CHOICE WAS **AllianceWare**
PORCELAIN ON STEEL
BATHTUBS • LAVATORIES • SINKS

When Ralph Bodek, one of suburban Philadelphia's foremost residential developers, planned Colonial Park as a community that has everything for better living, he chose AllianceWare—bathtubs, lavatories and sinks—for each of the 500 beautiful brick homes erected in the development.

Like thousands of other home builders and home owners, Mr. Bodek appreciates the exceptional design and construction features of AllianceWare.

The porcelain-on-steel construction of AllianceWare gives you the advantages of lighter weight, easier handling, and simple, quick installation.

Added to these installation advantages is a choice of five stainproof colors—pink, blue, green, tan, and grey—as well as lustrous, gleaming white. With AllianceWare you can install complete bathroom ensembles in matched color combinations of luxurious, lifetime beauty.

For any job—new or remodeling—there's profit for you with AllianceWare. Complete information on AllianceWare fixtures will be mailed on request.



COLONIAL PARK HOMES

Builder: Ralph Bodek; Plumbing Wholesaler, United Pipe and Supply Co., Norristown, Pa.; Plumbing Contractor, Enos & Co., Inc.



INSTALLED IN THE HOMES OF COLONIAL PARK



ALLIANCEWARE, INC. • Alliance, Ohio
Bathtubs • Lavatories • Closets • Sinks

FBT*

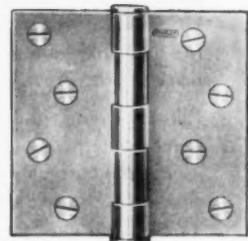
*FLAT BUTTON TIPS

NOW STANDARD

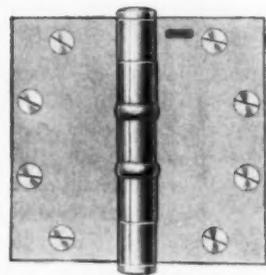
on all Stanley Hinges...
at no extra cost

Ball Tip Hinges still can be obtained by adding "BT" after class number and size (as 241F—3½ x 3½—BT). And don't forget—only Stanley FBT Hinges have the exclusive hole in the bottom tip for easy pin removal.

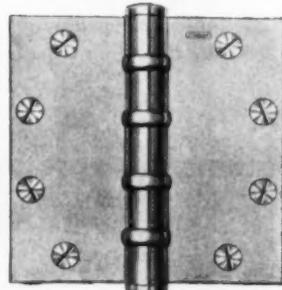
The Stanley Works, New Britain, Conn.



PLAIN JOINT



BALL BEARING



FULL JEWEL BALL BEARING

STANLEY

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HARDWARE

TOOLS
ELECTRIC TOOLS
STEEL STRAPPING
STEEL

"THE MOST FAMOUS DOORS IN THE WORLD SWING ON STANLEY HINGES"

AMERICAN BUILDER

LOOK JOE!

Clipper
SINCE 1917 TRADE MARK
BLADES

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- LAST LONGER
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Clipper Superior Blades are guaranteed to...
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ONE OF 5 MODELS
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Clipper Superior Blades are manufactured under rigid control... assuring consistent quality. You are guaranteed peak performance... at the lowest possible cost with every blade.

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Every Make and Model Masonry -
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Your guarantee of the finest, fastest, most economical masonry and concrete cutting is the familiar Clipper Trade Mark on a Wet Abrasive - Dry Abrasive - "CBR" (Break-Resistant) - or a Diamond Blade.

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Genuine
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Any masonry material can be cut in seconds with either a "WET" or "DRY" specification. New type Clipper Abrasive Blades approach the cutting speed of diamonds.

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No other means of masonry or concrete cutting can equal the cutting speed of a Clipper Diamond Blade. Only Clipper has every necessary specification to do your cutting job.

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Break-Resistant
Drop - Bend - Twist... they're virtually unbreakable! 50% to 100% longer blade life on softer ranges of materials. Ideal for both masonry and hand power saws.

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Use

the **MAGIC** of **HOT WATER HEATING** by **AMERICAN-Standard**

*to make your homes more saleable—to give your customers cleaner,
more uniform, more comfortable heat*



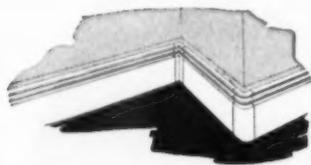
• If you could point out to your customers how they could have a completely sealed heating system that is practically invisible . . . that could not transmit cooking odors, noises, or conversation from room to room . . . you would have a strong selling point.

You *can* offer them this—and more—through the magic of hot water heating by American-Standard.

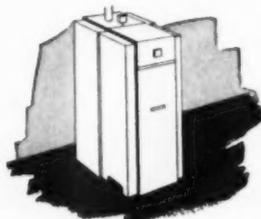
You make your houses more saleable when you use forced hot water heating and baseboard panels . . . for here is perfect comfort control with compact, efficient

equipment. And because of the tremendous heat-carrying capacity of hot water—6000 Btu per cu. ft. as it cools 100°—it is possible for the small copper tube of a baseboard panel to throw a belt of protecting warmth clear around the cold outside rim of the house, regardless of its size or construction.

Your customers will want the heating system that's clean, draft-free, reliable and economical—hot water heating by American-Standard. Ask your American-Standard sales representative or your heating contractor for details.



Hot water heating
is modern in appearance . . .



Hot water heating
gives longer
years of service . . .

Show prospective home buyers an attractive installation like this in the homes you build. These Heatrim panels take the place of regular baseboards, permitting freedom of furniture arrangement. They will provide even, gentle heat *throughout* the room.

To make home buyers aware of the trouble-free years ahead for them when they have a hot water heating system, tell them of the variety of long-lasting cast iron boilers by American-Standard. And be sure to point out that the life of a cast iron boiler is far greater than that of other types of heating units.

*The magic of hot water comfort by American-Standard is the way to complete
heating satisfaction . . . for the years ahead*

AMERICAN-Standard
HEATING

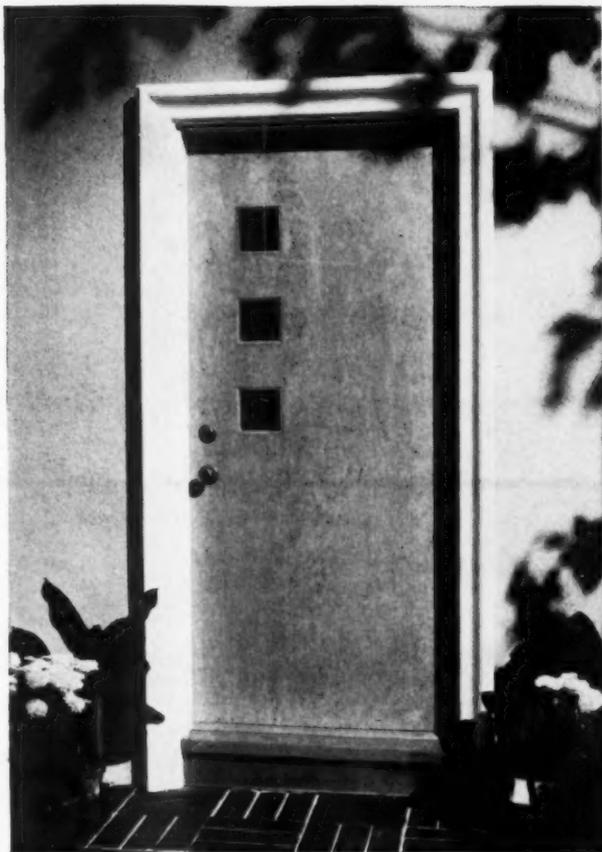


American Radiator & Standard Sanitary Corporation, P. O. Box 1226, Pittsburgh 30, Pa.

Serving home and industry: AMERICAN-STANDARD • AMERICAN BLOWER • CHURCH SEATS & WALL TILE • DETROIT CONTROLS • KEWANEE BOILERS • ROSS EXCHANGERS

NEW
"Pictures in Wood"
 BY CURTIS

Decidedly contemporary in design, yet extremely versatile, this Curtis New Londoner flush door gains additional interest from the smart new Curtis trim —one of several choices.

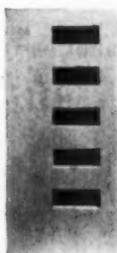


Fresh and original, these new flush door designs by Curtis can help increase your scope in adding distinction to the homes you plan. And the beauty of these doors is as durable as it is striking—thanks to their all-wood, moisture-proof construction that guards against warping or sagging.

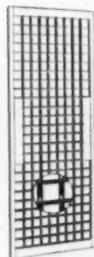
Door designs shown here are available either with Curtis New Londoner hollow core construction or Curtis American solid core. These designs are only a few of the many Curtis offers, both for exterior and interior use. Curtis New Londoner hollow-core flush doors are available in wide widths for schools, hospitals and public buildings.



← Skillful proportioning and effective use of simple ornamentation create rare charm in this new Curtis door, made in both hollow-core and solid-core construction. Superior dimensional stability has been proved in more than 4,500,000 installations.



← Note the carefully-matched grain pattern in this New Londoner Curtis exterior door. Curtis New Londoner and American doors offer a choice of carefully selected veneers in birch, maple, oak and other woods—creating effects of rare beauty.



← Here is the patented, locked-in, all-wood core that assures lifetime dimensional stability in Curtis New Londoner hollow-core flush doors. Each New Londoner door is one completely joined unit with nothing to "float" or get out of place. Curtis American solid-core flush doors have a kiln-dried pine core and are completely sealed against moisture.

CURTIS
NEW LONDONER
 HOLLOW-CORE
 FLUSH DOORS

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 AB-9 Curtis Building
 Clinton, Iowa

I want to know more about Curtis New Londoner and Curtis American flush doors. Please send literature.

Name.....

Address.....

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

Omaha builder tells what Murray kitchens did for him...



Here's another case that proves you can't beat the sales appeal of Murray steel kitchens! The rugged look and feel of quality, and Murray's exclusive contour styling, catch the feminine home-buyer's fancy every time!

Of course, there are dozens of other reasons for a builder to prefer Murray: no painting, no slow fitting of finishing work; no call-backs to fix warped doors, sticking drawers; *timed* delivery to your job-site; supervision of first installations; and skilled help in planning and promotion. Contact the Murray Builder Department for full details.

Robinson Construction



Makers of Metal Protector Corner Bead & Door and Window Trim for drywall construction.

1924 No. 16th Street
Phone PL 6540
Omaha, Nebraska

June 2, 1953

The Murray Corporation of America
7700 Russell Street
Detroit 11, Michigan

Att'n Mr. C. J. Filson

Dear Mr. Filson:

Please accept this letter as a small token of our appreciation for the efforts of your local representatives, Mr. Burroughs and Mr. Krause, in selling us on the use of the Murray Kitchen in our current project.

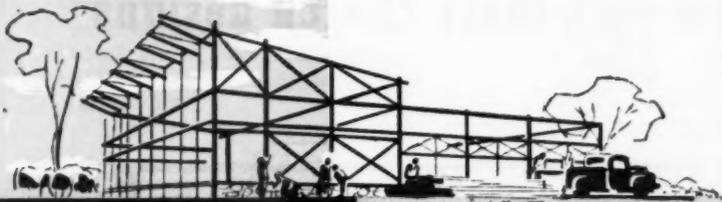
Your Kitchen has proven to be one of the biggest selling points we have, and the response is far greater than anything we had expected.

In addition to this you have provided us with one more means of building our homes faster due to the time saved in installation.

All in all, we are very happy that your representatives were successful in convincing us that the Murray Kitchen would meet with our approval.

Yours very truly,
Robinson Construction


G. L. Robinson



G. L. ("Robby") Robinson has an extensive selling background, knows what helps sales. He's building 46 homes this year, plans 195 more for 1954.

Your Kitchen has proven to be one of the biggest selling points we have, and the response is far greater than anything we had expected.

THE MURRAY CORPORATION OF AMERICA

MURRAY

Home Appliance Division, Sales Offices
7700 Russell, Detroit 11, Michigan



Off-center entrance provides an approach from two streets to covered entrance porch. Planter inside of glass area is a feature

economy and utility determine these church designs

BUILDER:

Staalsen Construction Co.,
Chicago, Illinois

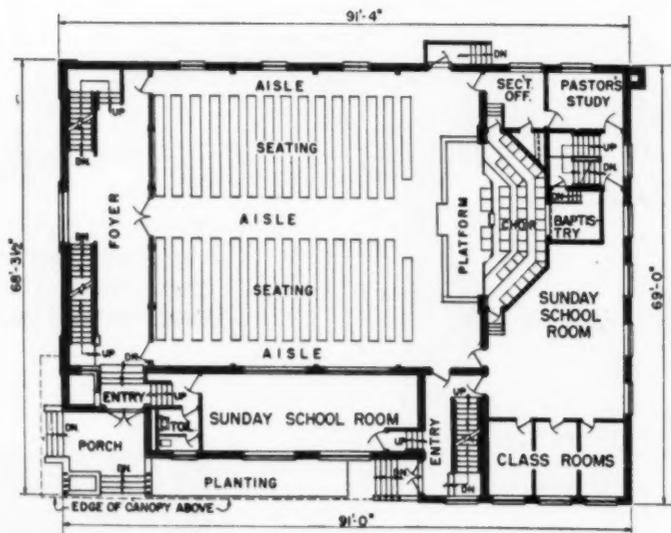
DESIGNER:

Arthur V. Hansen and
K. Roderick O'Neal, Architect,
Chicago, Illinois

CUBIC CONTENTS: 191,973

COST: \$160,000 excluding furnishings

THE SITE requirements and limitations were main factors in determining the plan and design of the Galilee Baptist Church, Chicago, Illinois. Other considerations were a limited budget and an expanding Sunday School.



FIRST FLOOR PLAN SCALE 0 5 10 15
Auditorium floor plan

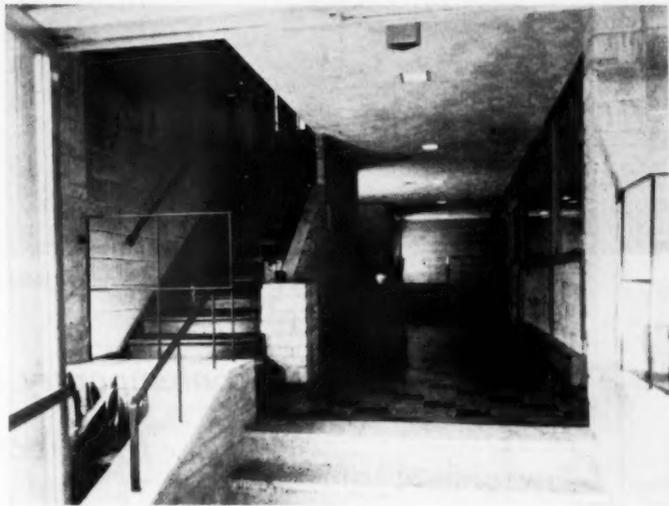
To provide for these factors, it was necessary: (1) To extend the building on two sides over to the sidewalk line in order to obtain sufficient area for the church structure. Piles were driven for a foundation base to a depth of 30 feet to overcome the effect of a large clay pit. (2) To design a building in the contemporary mode for economy purposes, holding to straightforward lines to the complete exclusion of all forms of applied ornamentation. (3) To provide a two-story structure above grade at the rear of church for the use of the Sunday School. This wing is tied in and made an integral part of the church.

This building has an auditorium and balcony to seat 400 in addition to accommodating approximately 400 Sunday school children. Kitchen and assembly room for 200 diners, in addition to Sunday school space, is provided in basement area.

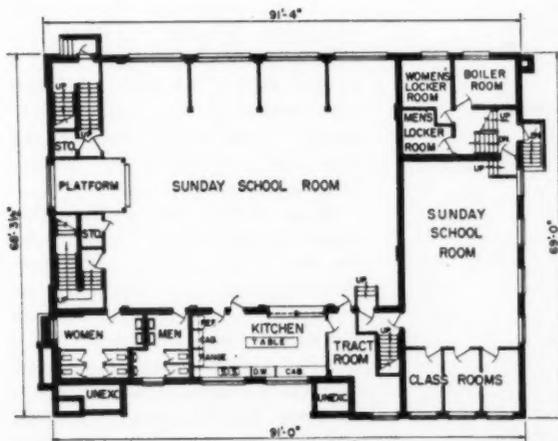
The building is placed on concrete foundation on wood piles. Walls above are face brick and Lannon stone exterior, with exposed concrete-block interior walls and partitions. Window and door frames are metal. Trusses supporting the roof are of laminated wood members extending from floor to ridge. Eight-inch by ten-inch by eight-foot purlins at right angles to trusses provide support for the 2x6 V-cut face roof decking. Asphalt shingles are nailed to one inch of rigid insulation placed on furring strips which are secured to the decking. The building was completed in December, 1952.



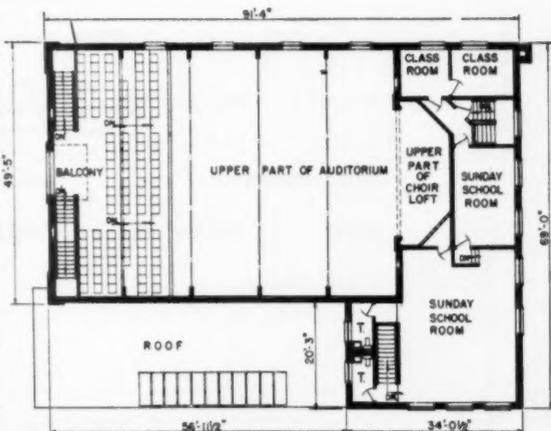
View in auditorium toward platform and choir. Openings for organ sound chambers above



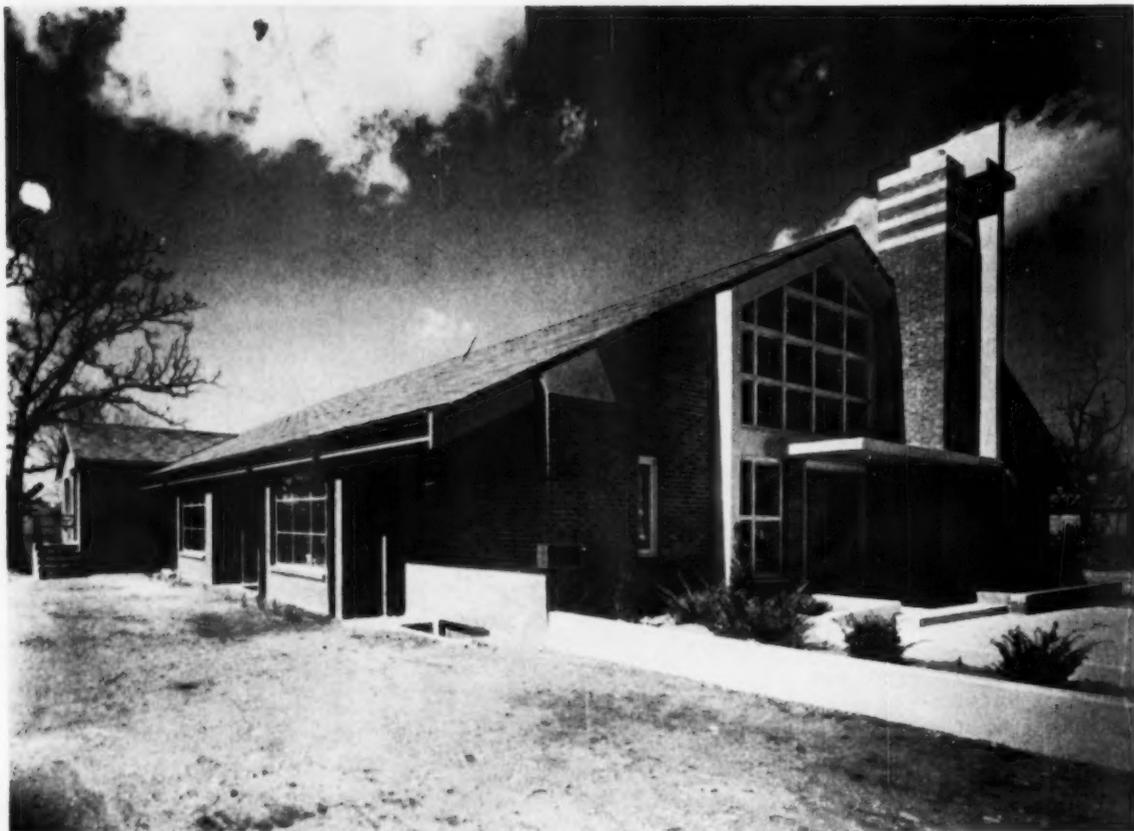
Entrance foyer and stair to balcony allows free access without disturbing the service



BASEMENT PLAN SCALE 0 3 10 15
Basement or lower auditorium floor



SECOND FLOOR & BALCONY PLAN SCALE 0 3 10 15 20
Balcony and second floor plan



The clever handling of the detail on front provides the design accent for this building

*contemporary styling sets aside
fixed ecclesiastical forms*

BUILDER:
*Peter Dent,
Salem, Missouri*

ARCHITECT:
*Bernard McMahon,
Clayton, Missouri*

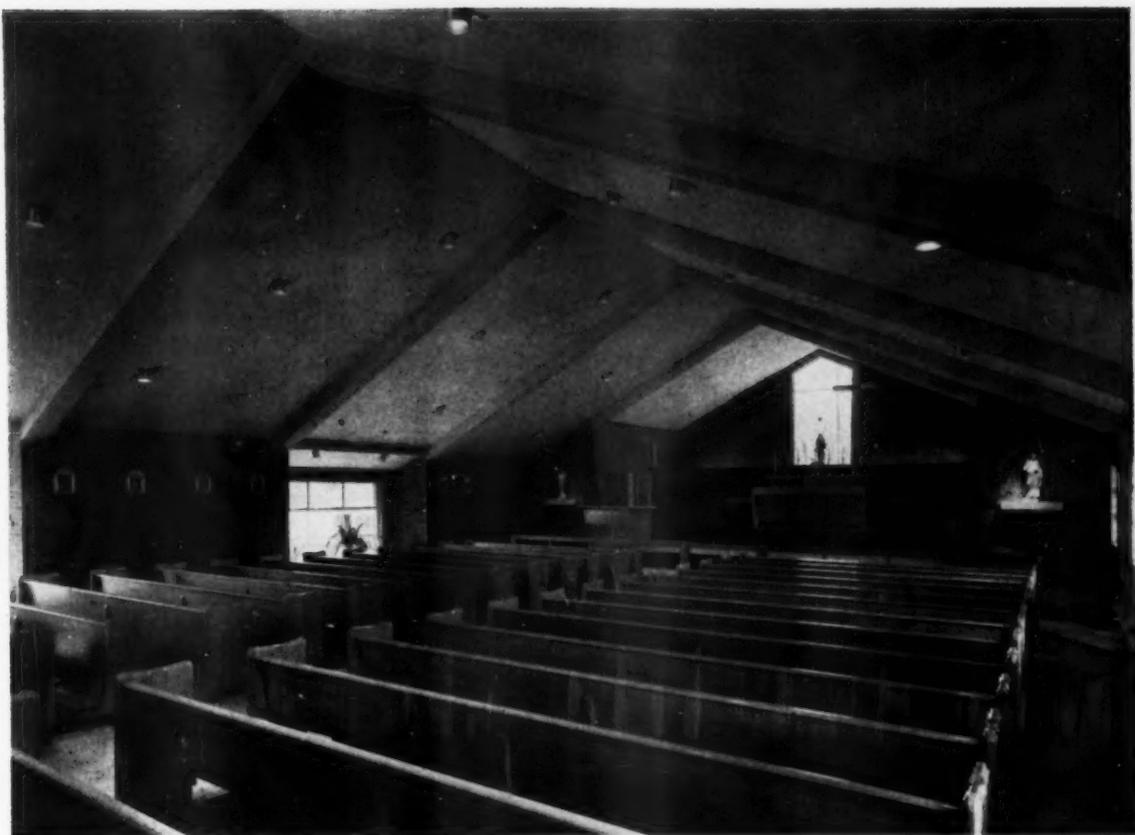
CUBIC CONTENTS: 101,932

COST: \$90,000 including furnishings

IN THE Sacred Heart Church of Clayton, Missouri, the same principle of economy prevailed. With a limited budget but with maximum requirements to be met, the designer reverted to contemporary design which permitted him greater latitude in planning construction.

As an example, the vertical pylon adjoining the front entrance houses the flue for the heating plant, provides the support for the large cross with its vertical member extending downward where it changes to a horizontal position to form a canopy over the entrance. It also creates a terminus for the projecting front wall and, as a complete unit, gives the effect of a tower which produces a lift to an otherwise foreshortened

AMERICAN BUILDER



Plain surfaces of brick and plaster throughout produce an effect of strength and simplicity in the interior

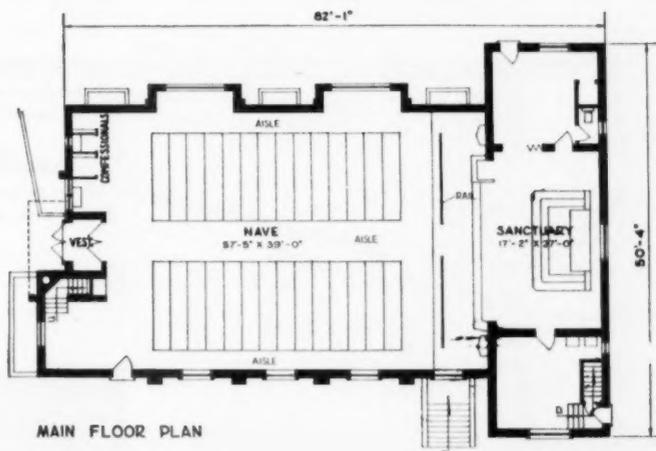
facade. The two-story fixed window unit with its over-sized muntins heightens this effect.

In contrast to the economy features, the church is entirely fire-proof. This is in accordance with the request of the areas diocese.

Roof is supported by 18-inch steel H beams which extend from top of exterior wall foundation to ridge where they are welded to opposite beams. Beam continues in a vertical position in wall up to roof intersection where it is bent to conform to roof slope. Steel joist purlins are spaced at right angles to beams in regular sequence. A 3-inch-thick precast Haydite slab is secured to purlins, with asbestos shingles nailed and glued to top face of slab.

Main floor is composed of a large nave, sanctuary and two adjoining rooms. Area in basement, except for portion under sanctuary, is left open for recreational purposes.

All walls above grade, both inside and out, are finished with face brick. Ceiling in nave and sanctuary, including exposed beams, is covered with metal lath and plaster.



MAIN FLOOR PLAN



BASEMENT PLAN

This building, as indicated by the two plans, provides for complete separation of church and recreational facilities



Covered canopy over drive protects guests arriving in inclement weather, connects office with guest units

motel units quickly convert into suites

BUILDER:
Sebco Contractors
Minneapolis, Minn.

ARCHITECT:
G. W. Brandhorst
Minneapolis, Minn.

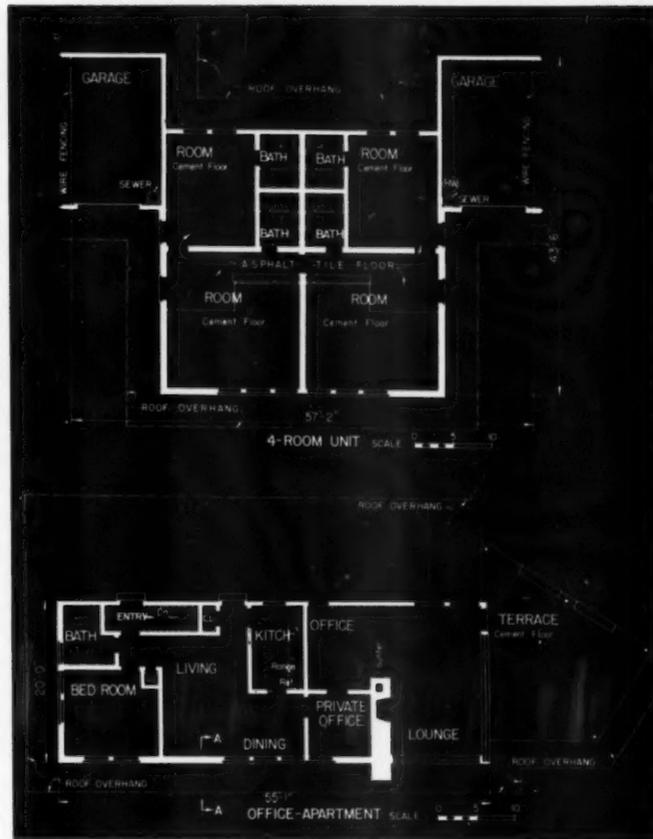
THIS motel is built in units of four bedrooms with intercommunicating interior doors that make possible a quick change from single bedrooms to one or two suites.

The square four-bedroom buildings are divided into two twin bedrooms and two smaller, single bedrooms. A door between each single and twin bedroom permits conversion from two bedrooms to a two-room suite. A doorway also connects the two large twin units making it possible to convert all the space in each building to one four-room suite. The motel is the Modern-Aire, located on Highway 218 near Owatonna, Minnesota. The full unit of four rooms accommodates 12 people.

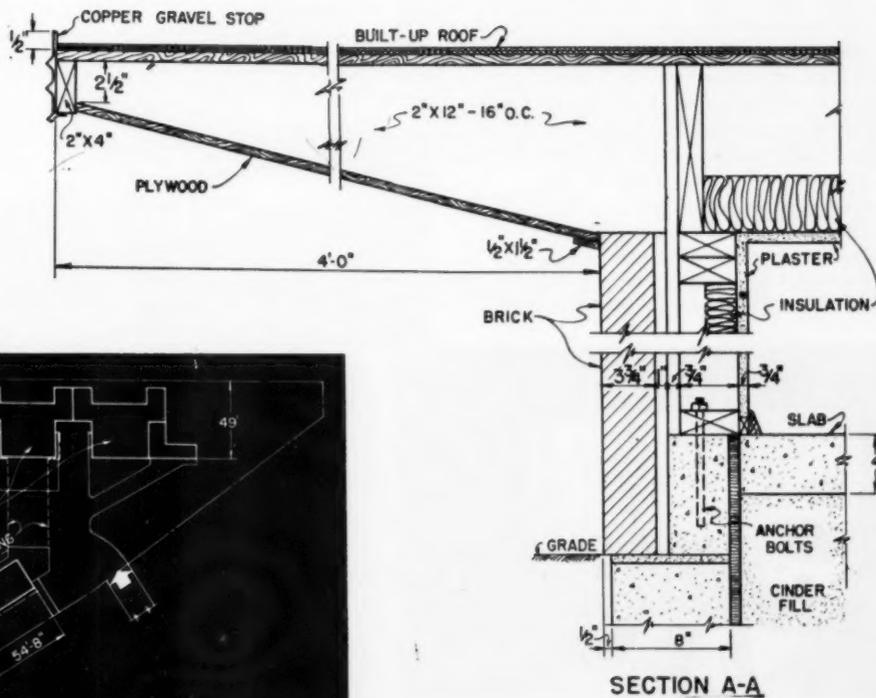
The four-room units reduce maid service costs for the motel operator since all four units in the block



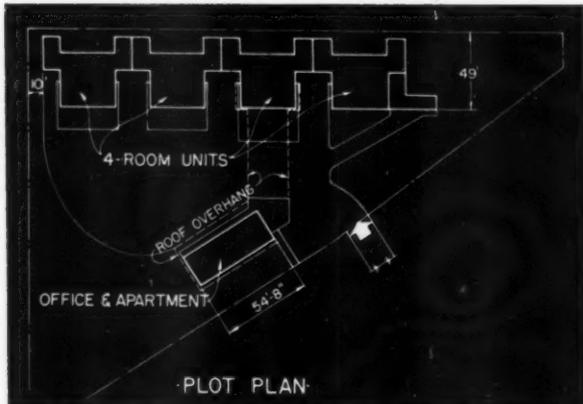
Clean horizontal lines and varied exterior materials point up design

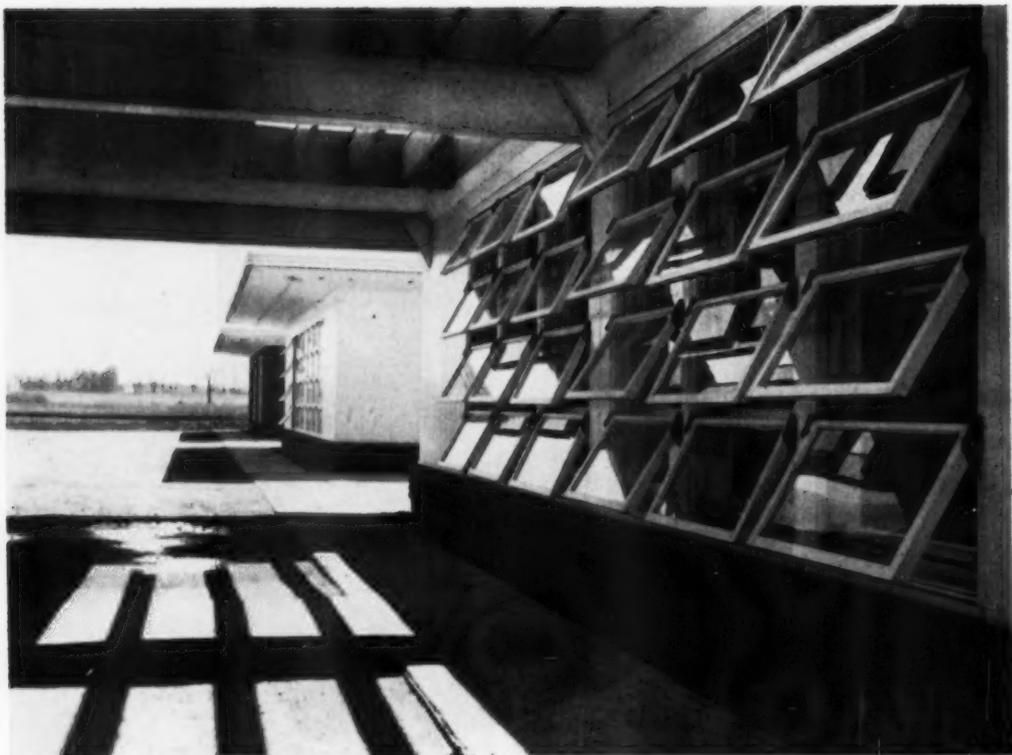


Office-apartment area simplifies the management problems. Utility area is in basement below



Plot plan shows unique use of triangular piece of land. An area is reserved for future expansion





Awning windows were used throughout. Lattice cutaway in roof admits light to bedroom below

can be cleaned without the maid's going outside to get to any room.

Each building is 34 feet 8 inches by 34 feet 6 inches. Bathrooms are grouped for economical plumbing installation; all have ceiling vents.

Other noteworthy features of the motel are its clean modern design, separate office - apartment - utility building and covered canopy. The design features low horizontal lines in a clean sweep from roadside office unit to bedroom units.

The roadside building has a one-bedroom apartment, private office and general office area. The private office is sometimes used by salesmen.



Twin bedroom has studio-type beds. Walls are stacked concrete blocks, painted. Heating is baseboard radiation supplied by boiler located under the office area



Office area has large picture window and fireplace. Registration desk is at other side of the room

BRAND NAME PRODUCTS USED

Benjamin Moore paint	Minneapolis-Honeywell
Bla-Fan exhaust fan	heating controls
Celotex wall sheathing	Mosaic clay tile
Crane plumbing fixtures,	Packard bath cabinet
boiler, baseboard con-	Ruberoid shingles
nectors and hot water	Schlage hardware
heater	Thermopane double-glazed
Frantz garage door	window
Gate City awning windows	USG lath
Kentile asphalt tile	



Close-up of the X-ray house showing how the exterior wall is cut through to show construction

building good will by X-RAY methods

BUILDER:

*G. J. Goudreau & Co.,
Cleveland, Ohio*

ARCHITECT:

*G. S. Voinovich,
Cleveland, Ohio*

THIS X-ray house, typical of a group of homes to be built in the new 171-acre Meadowbrook Community in Bedford, Ohio, and referred to as a "no-secrets home" by the builder, is a comprehensive job of showing just what goes into a home under the paint, behind the walls and under the floor. Every construction feature is exposed.

More than 150 individual cards mark features for public inspection and information.

Viewing the brick veneer building from the street, an irregular opening 15 feet high is seen in the wall. Bricks were omitted in a jagged pattern and the building paper was painted a bright yellow to dramatize the X-ray idea. Toward the

bottom of this opening, the insulation and sheathing are cut away and replaced with glass so that it is possible to see through the wall.

From the inside and outside, visitors see the face brick, the waterproof paper, the fiberboard insulation sheathing, the wall ties and the 2x4 plate secured to the slab floor by a Ramset fastening system.

Inside the house, walls, doors, foundation, ceiling and closets are all "X-rayed" in detail. One of the incomplete walls exposes every stage of construction from concrete block and furring through gypsum board, taping, cementing, sanding, priming and the final finish coat.

The floor is cut away in marked stages to show the rough plywood flooring, the filler material, mastic adhesive and, finally, asphalt tile.

In one of the bedrooms, the ceiling is exposed, showing the insulation blanket. Part of this is cut away, too, showing roof trusses and plywood sheathing. A close-up view of the roof construction is available to visitors in the carport roof which is also cut away.

A specially constructed catwalk was built above the kitchen floor to permit visitors to study construc-



The first four-unit building in the Meadowbrook Garden Home Development featuring the X-ray house

tion through two holes left in the floor. One four-foot excavation shows the entire footer, topped with the stages of floor-slab construction from the solid ground through four inches of slag, a waterproof membrane and four inches of concrete reinforced by wire mesh. The other hole reveals heating ducts, sewer pipes and water lines. Every feature is explained by the signs.

One entire kitchen wall is laid bare so that all plumbing and electric wiring, heating ducts and sound insulation are visible. The plumbing stack, waste drains and copper lines are all plainly marked. There are also X-rayed versions of

the Apex washer and dryer which are built into the kitchens.

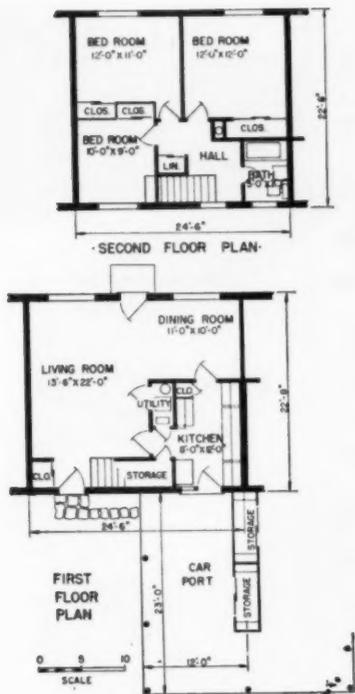
In the living room, part of the ceiling is X-rayed to show the steel wall-ties and joists of the second floor. The living room picture window shows the 2x10 fir header, plasticized sill, flashings over the lintel and the manner in which the steel window is set in place.

At the kitchen window in the rear, masonry has been cut away to show how the window is fitted, flashing and building paper applied, stone sill set in and joints caulked.

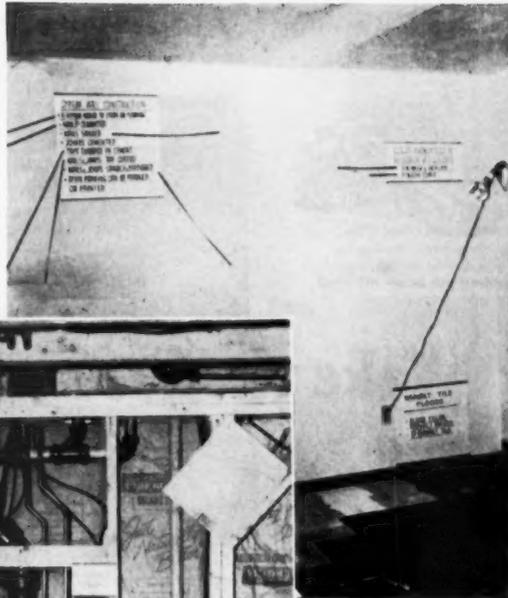
The front door is unfinished, demonstrating how the door frame is set in the door buck, plumbed,



A view through the "X-rayed" front wall from the inside of the demonstration apartment



Bedroom wall and floor showing stages of construction. Preliminary gypsum wall construction extends to the left



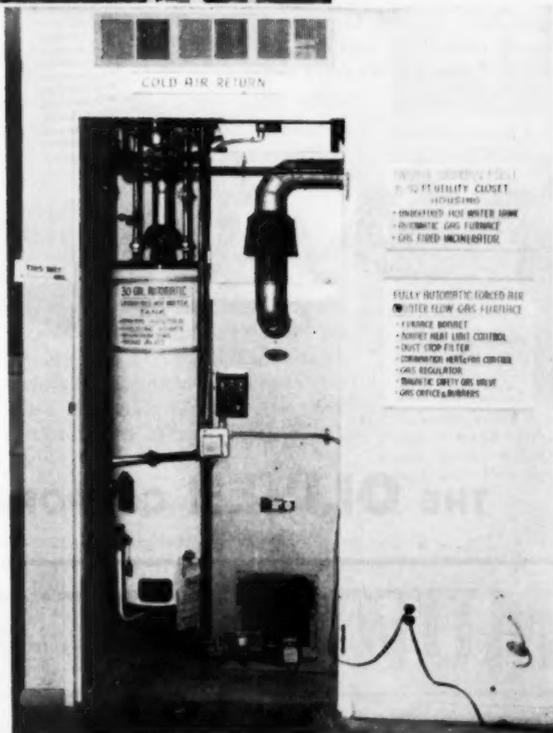
The kitchen wall with the entire plumbing, wiring, heating and insulation visible

trimmed and weather-stripped. Even the veneer on one of the flush interior doors has been stripped away to show construction of the door.

This four-apartment model is the result of over a year of engineering, field-testing and the construction of this pilot demonstration model. The coordinated promotion program carried out by the Goudreau organization resulted in more than 100 deposits on the FHA Title 213 mutual ownership contract the first week the building was opened to the public. More than 10,000 visitors viewed the house during the first week.

The pilot model consisted of a completely furnished model apartment, the X-ray unit, a sales office and one unit left unfurnished. The two-story, three-bedroom apartments with attached carport are priced to sell at \$12,290 to \$13,190.

Goudreau's plans call for several hundred of the Garden Homes to be built around a planned shopping center of 80 acres. The Garden Homes will serve as a buffer belt to screen single homes from the commercial development. Some garden-type rental apartments will be included in the belt, with three-bedroom homes to be built on the outer periphery of the integrated Meadowbrook community.



A view of the utility closet. To the right of the furnace is the incinerator with its own access door



Loading out scrap material



Bulldozing



Industrial material handling



Backfilling foundations

Take the Word of ...Thousands

Don't just take our word for the real, day-to-day usefulness of the Oliver "OC-3". Take the proof offered by the *thousands* of users . . . the *thousands* of uses . . . of this powerful little tractor. Just ask any owner what he thinks of his "OC-3". In the more than 12 years that the "OC-3" and its predecessor, the "HG", have been in production, they have built a reputation for user acceptance that's unequaled in their class. Proof of this is the fact that it's mighty hard to get a used "OC-3". Users just don't often sell their "OC-3" tractors.

With an "OC-3" and its broad line of matched equipment . . . bulldozer, trailbuilder, front end loader, lifting fork, sidewalk snow plow, hydraulic drawbar, winch, logging kits, and many others . . . you can perform all sorts of useful tasks *every day*.

The "OC-3" has plenty of power to handle all those jobs with ease . . . a full 22 drawbar h.p. It's ruggedly built to keep maintenance and operating costs down.

Why not have your Oliver Industrial Distributor give you all the facts on the "OC-3", the lowest priced industrial crawler tractor built. Call him or write direct to The Oliver Corporation, 400 W. Madison Street, Chicago 6, Illinois.



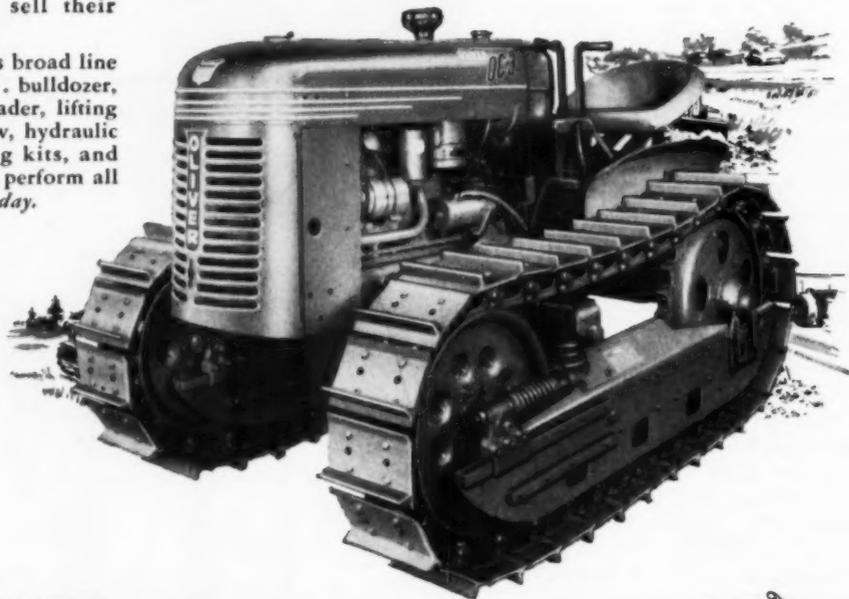
Sidewalk snow plowing



Loading out topsoil



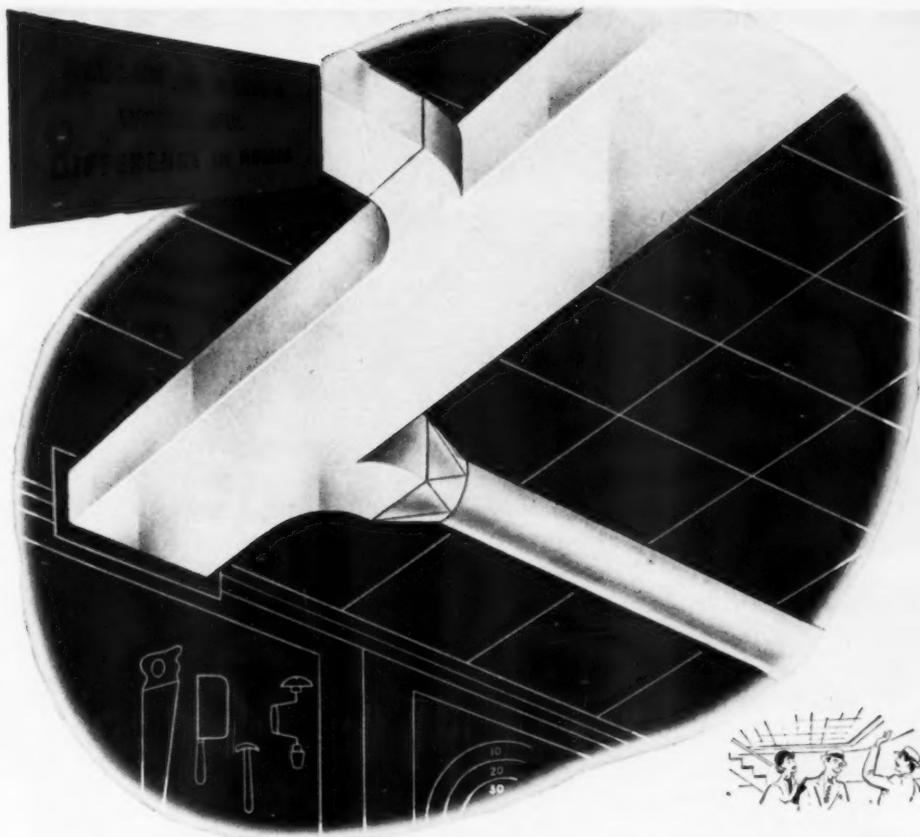
Winch operations



THE OLIVER CORPORATION

a complete line of industrial wheel and crawler tractors





ALUMINUM DUCTWORK HELPS YOU BUILD BETTER, SELL QUICKER!

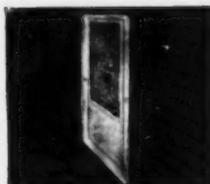
Builders and buyers alike benefit from the "two-way" advantages of aluminum ductwork. For instance, finished costs for aluminum ductwork are competitive because light weight makes for ease in handling, ease in fabrication and ease in installation. Additional economies with prefabricated fittings and even complete duct systems are frequently possible. Aluminum ductwork is more attractive, more serviceable. It won't rust out from condensation in cooling systems or in damp laundry areas. It never needs painting or other maintenance. It is a natural insulator and minimizes heat loss.

These advantages, along with other benefits offered by aluminum in building applications generally, add up to quicker sale at a better profit for the builder and a better buy for the home owner.

Remember—for help on your building material problems, call your nearby Reynolds Architectural Distributor listed under "Aluminum" in the classified telephone directory. For more information on the many uses and advantages of architectural aluminum in home construction, write Reynolds Metals Company, 2530 South Third Street, Louisville 1, Kentucky.

Send for free Architectural Aluminum catalog. For quick reference, see catalog ^{5a} in Sweet's Architectural File.

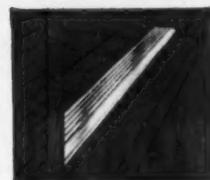
"Mister Peepers" returns September 13th, NBC-TV. Consult local listings for time and station.



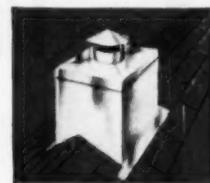
Aluminum combination doors are rustfree, rotproof, attractive, convenient. A mark of quality in modern homes.



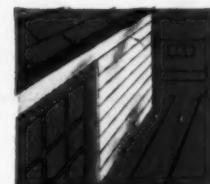
Aluminum hardware's lustrous natural color in a wide range of finishes matches all decorative schemes.



Aluminum thresholds are available for all entrance and between rooms applications. Easy to install, economical.



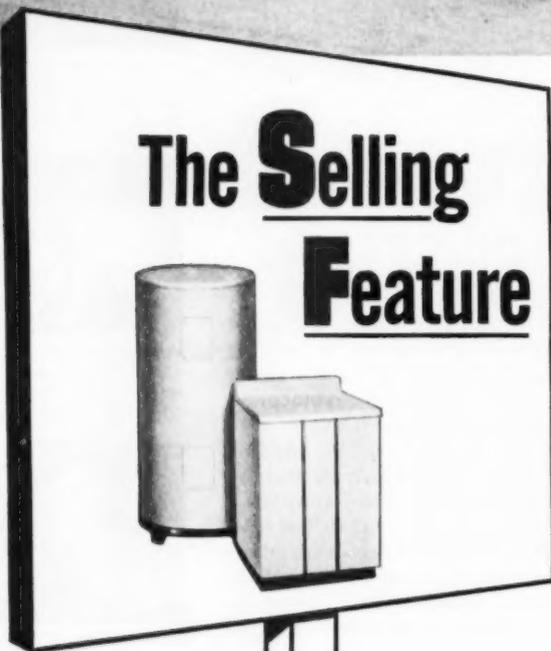
Aluminum chimneys are light weight, save space, are easily erected, reflect heat and resist corrosion.



Aluminum siding is easy to work with and apply. Won't rot, warp, shrink, swell or crack. Fire resistant.

REYNOLDS ALUMINUM

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PEOPLE WANT!**

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KELVINATOR • LAWSON • MERTLAND • MONARCH • NORGE • PEMCO • REX • RHEEM
SEPCO • A. O. SMITH • THERMOGRAY • WESIX • WESTINGHOUSE

↑ This attractive, brick veneered, prefabricated home was put up by builder-agent J. Alvin Hawbaker in Lewistown, Pennsylvania. During the eight days it was open to the public, it had over 8,000 adult visitors. The all-electric kitchen includes electric range, refrigerator, food-waste disposer and dishwasher. Equipment also includes an automatic washer, electric dryer, and the Water Heater—of course . . . it's **ELECTRIC!**

that closes the sale!

"I'm known as 'Mister Electric' in Western Pennsylvania," says builder J. Alvin Hawbaker of State College, Pa., "because of the electric appliances I feature in my new homes. So it's only natural that the water heaters are *electric*, too!"

Builders and customers both approve the *Electric Water Heater* because of these features: *Automatic* hot water. Cleaness of operation. Economy of operation, due to short hot water lines and fully insulated tank. Easy installation, because there's no flue or vent.

The *Electric Water Heater* is a modern water heater for the modern house!

**INSULATED DAYLIGHT
THAT HELPS YOU
"SEE" MORE SALES**



Let Insulux Glass Block® help you sell your homes faster by adding visible evidence of extra value

What prospective homeowner's eye wouldn't be caught with a "see through" wall as attractive as this one? You can build such a desired feature into your homes by including panels of Insulux Glass Block.

Insulux panels are as practical as they are beautiful. They have the insulating efficiency of an 8-inch brick wall . . . won't frost or sweat in winter. Patterns are available in a wide variety—from the clear block shown above to those that restrict sight completely.

Give the homes you build the benefits

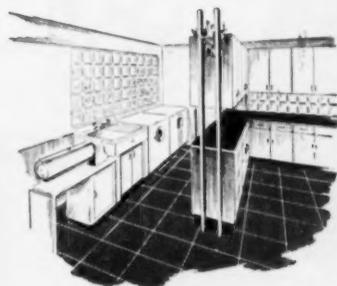
that Insulux Glass Blocks bring. Applications are practically limitless. Stairwell, kitchen, utility room and basement, to name just a few places—can use glass block panels to advantage. Start to plan now to use this versatile, practical building material to help you sell your homes, faster.

For information about these uses of Insulux or for help with a specific problem, just write Insulux Glass Block Division, Kimble Glass Company, Dept. AB9, Box 1035, Toledo 1, Ohio.

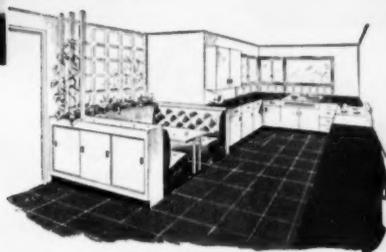
Here's the "boss" of the house



Because she does much of her work at her kitchen counters, include counter lighting to brighten these working surfaces. Her wall of daylight won't rust nor rot nor lose brightness no matter how often washed or splashed. An occasional wipe renews the sparkle.



Counter lighting with Insulux Glass Block adds glamour to normally dark places. Used in the laundry, a panel brings plenty of soft light right down on active working surfaces.



A "see-out" dining nook. A panel of Insulux super-clear Glass Block lets you see out but ends problems of condensation, and because of its high insulation value, stops icy drafts . . . keeps rooms more comfortable.



Literature for any Insulux Glass Block application is available free of charge just by writing to the address at the left.



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Toledo 1, Ohio—Subsidiary of Owens-Illinois Glass Company

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The Russwin

"All-Star"

Line of Builders' Hardware



The New "Homegard"
Economy Line of
Locks*



Screen-Storm Door
Hardware

Meet 90% of your finishing hardware needs with the Russwin "All-Star" Line. You'll save time and money by specifying this complete, simplified line. Consider these advantages . . .

1. a choice of expertly-designed and crafted lock lines, the Standard Duty "Stilemanor" and the Economy "Homegard" . . . both simple to install.
2. a complete line of finishing hardware . . . made to uniform standards of quality, size, finish, packaging and price.
3. a selection of distinctive entrance door handle sets for "tailored" tastes.
4. brand name merchandise, nationally known and accepted.
5. other advantages include . . . one-stop purchasing; speedy, dependable deliveries; easily-identified packaging; better-informed dealer assistance; a single source of service. *The minimum payed . . . lasting customer satisfaction at no increase in cost.*



Pressure-Cast Aluminum
Trim Hardware



The "Stilemanor"
Standard Duty Line of
Locks*



12
Miscellaneous Trim
Hardware . . . and other
TRIED and TESTED
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Now!

Count on the Russwin "All-Star" line to help you build "the most houses" for the money. See your Russwin dealer's "All-Star" Builders' Hardware Display. For details on the new "Homegard" line read the next page.

*Patents Applied For

Since 1839

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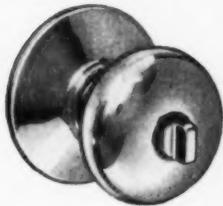
Distinctive Hardware

**A NEW "ALL-STAR" PRODUCT
FOR AN "ALL-STAR" LINE**

The
RUSSWIN
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**18 Constructional Features
and Refinements**

5 Popular Functions



Two entrance
cylinder locksets,
with turn buttons
inside, one with
auxiliary latch.
Patio lockset with
push button . . .
plain knob outside.



Bedroom-
Bathroom locksets
with emergency
keyhole outside,
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Passage and
Closet Door Set
with Plain Knobs

Here is an *economy line* of residential locks and latches that offers new standards of performance and service-life. Eighteen constructional features and refinements put the "Homegard" line at the head of its class. These features include: (1) concealed screw roses on *both sides of door* (2) inside rose that snaps on, outside rose that's an integral unit cupped over lock case (3) knob retainer positioned in side of knob shank for easy installation; knob snaps on by direct push on spindle (4) all cylinder entrance door sets equipped with the exclusive Russwin ball bearing 5 pin tumbler cylinder (5) all-steel internal working parts, zinc-plated and dichromated. No die-cast parts of any kind.

- Available in wrought brass, bronze and aluminum
- Durable finish
- Backed by the Russwin Name . . . nationally known and advertised.
- Modern styling

Check and compare the new "Homegard" line from every angle. Isn't this what you've been looking for . . . an economy line made to Russwin standards of quality and backed by the Russwin name? Stock the new "Homegard" Line and get more hardware business by giving more quality for the money. Russell & Erwin Division, The American Hardware Corporation, New Britain, Conn.

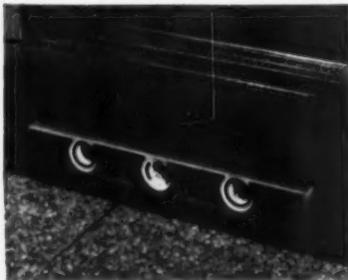
THE ULTIMATE ACHIEVEMENT OF MODERN PRODUCTION METHODS AND EQUIPMENT

KENFLEX

VINYL TILE

*combines every flooring advantage
in one beautiful floor*

PROOF THAT KENFLEX IS A TRULY SUPERIOR FLOOR



Thirteen years ago a test installation of KenFlex was made at the entrance to the elevators in New York's Union Carbon and Carbide Building.



Over 13,000,000 people have since walked over this KenFlex Floor and even with this heavy foot traffic, the KenFlex installation is still as smooth and attractive as the day it was installed.

New KenFlex is the result of years of experimenting and development by the Kentile, Inc. laboratories. It is made of asbestos, vinyl resins, plasticizers and selected color pigments . . . resulting in a long-lasting floor that is ideal for any use in any room. KenFlex increases the value of homes . . . the appeal of stores and shops . . . with its superior beauty and greater wearability. KenFlex is extremely resistant to grease . . . can't be harmed or stained by fruits and most other acids, inks and cleaning fluids. It is extremely easy and economical to maintain . . . never needs scrubbing . . . doesn't require waxing unless an extra-high gloss is desired.

Specifications and Technical Data

INSTALLATION

KenFlex can be installed over any smooth, firm interior surface . . . wood, plywood, radiant heated concrete slabs, even over concrete in contact with the earth . . . on or below grade.

THICKNESSES

Laboratory and on-floor usage tests have proven that vinyl has great durability and wear resistance. Therefore, standard gauge (1/16") is recommended for normal residential and commercial uses. Where ex-

ceptionally heavy traffic is expected, 1/8" gauge is recommended.

INSTALLED PRICES

Prices range from 40c per sq. ft. to 65c per sq. ft. depending on which of the thicknesses is chosen—for minimum area of 1000 square feet over cement underfloor.

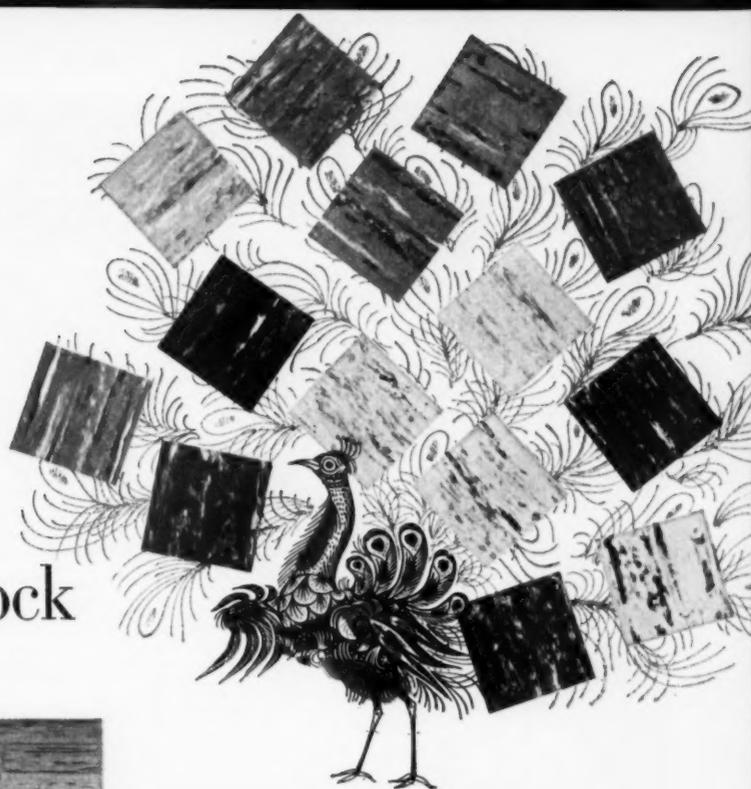
SIZE

Standard tile size is 9" x 9". Also available are 9" x 9" decorative ThemeTile and 1" x 24" Feature Strip.

For more information on KenFlex consult the KENTILE, INC. Flooring Contractor, a trained and experienced expert, fully qualified to aid you in choosing the proper floor for every residential, commercial and industrial installation. For his name and address, look under FLOORS in your Classified Phone Directory.

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Colorful as a peacock



New KenFlex colors have a brighter beauty... won't dim, fade or wear off... colors go clear through to the back of each durable tile.

At left, KenFlex sets the inviting color scheme of a restaurant with tile of Desert Sand, Bikini Blue and Star ThemeTile.

Below, a KenFlex Floor unifies a kitchen-dinette area. The glowing KenFlex colors are Lime Green, Shannon Green and White Ivy.



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 VINYL TILE
TRADE MARK
 By the makers of Kentile

KENTILE, INC., Makers of:
 KENTILE ASPHALT TILE
 SPECIAL (greaseproof) KENTILE
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 KENRUBBER TILE FLOORS
 KENFLEX VINYL TILE

Would you spend **\$50** to protect
this home against moisture menace?



**That amount or less makes the masonry in this home Watertight
when you use MEDUSA WATERPROOFINGS!**

● The greatest enemy your construction encounters is moisture menace. Yet you can protect a home like this against water for as little as \$50. This is the added cost of protecting average masonry by using Medusa Waterproofed Gray Portland Cement (or when not available Medusa Waterproofing Paste or Powder as an ad-mixture) in a concrete basement floor, in mortar for masonry walls and a waterproofed cement plaster applied to the outside of the foundation. The use of Medusa Waterproofings as an integral

part of all concrete would of course be slightly higher.

By specifying and using Medusa Waterproofing you assure your customers of lastingly dry basements and masonry homes. Medusa Waterproofed Cements are as easy to use as regular cements, with an added cost of but a fraction of the expense of repairing water damaged construction at a later date! Safeguard the future of your homes. Use Medusa Waterproofings as a matter of standard practice in every job. Write your nearest Medusa office for further details.



◀ **Medusa Waterproofing Paste or Powder**
Recommended for use where Medusa Waterproofed Portland Cements are unavailable. Easily used and mixed with any regular cement.

Medusa Waterproofed Cements

Either Gray or White have the correct amount of waterproofing ground into the cement at the mill and are delivered at the job ready for use.



You can build **BETTER**
with **MEDUSA PRODUCTS**



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Pittsburgh 22, Pa.

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Introducing SOLVAY'S NEW 25 lb. CALCIUM CHLORIDE PACKAGE!



Newly designed spout makes pouring and handling of calcium chloride easier.

Easy to handle for small and large jobs.

Complete detailed instructions on back of package.

Moisture-proof polyethylene lining for long storage. Keeps contents dry and in first-class condition.

Self-closing feature protects unused portion.

SOLD AT BUILDING SUPPLY AND HARDWARE STORES. If not available locally, get complete information and address of your nearest dealer by writing to:

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

FOR DEALERS ONLY
New "Display-Package"
Sells Itself on Sight!

Especially Designed for Retail Showrooms!

In a single glance, this eye-stopper package instantly tells and sells the customer:

- ✓ The product and its uses
- ✓ Complete detailed directions for each use (on reverse side)

How New Package with Powerful Sales Impact INCREASES VOLUME . . . BOOSTS PROFITS:

- ✓ It builds impulse sales
- ✓ It creates more prospects by introducing uses

FREE Merchandising & Promotion Kit with complete plan and point-of-sale material!

INCLUDES: Window Displays, Counter Signs, Samples, Booklets, Folders, Stickers, Prospect Lists - EVERYTHING YOU NEED TO PROMOTE BIGGER PROFITS!



Send For Full Information Now!

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ALLIED CHEMICAL & DYE CORPORATION

Gentlemen:

Please send me at NO COST OR OBLIGATION complete details on SOLVAY'S new 25 lb. Calcium Chloride package promotion.

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Company _____

Position _____

Address _____

14-9



Design for a modern bath by Edward D. Stone, A. I. A.

"CLAY TILE MEETS THE CHALLENGE OF MODERN DESIGN ... WITH BEAUTY AND PRACTICAL CONVENIENCE"

Edward D. Stone

Noted architect Stone draws a spectacular performance from clay tile in this uniquely modern bathroom design. But any bathroom—modest or spacious—can sparkle with the same permanent clay tile beauty.

The clay tile lavatory counter tops can be adapted readily to single or dual sinks. Whether you build or design a stall shower, tub or a luxurious tub-plunge like the one illustrated, clay tile is the practical and permanent answer to any shower or tub area.

When it comes to bathroom floors—waterproof, scuff-

proof, no-wax clay tile is always a wise specification. And, of course, clay tile walls and wainscot will always hold homeowner maintenance to a minimum.

Clay tile has much to add to the designing, building or remodeling of any residential, industrial or institutional structure: color and design potential, lifetime durability and ease of maintenance that translates into substantial long-range economy. It will pay you to consider this versatile building material in your next project. Your clients will profit, too—whenever clay tile is used!

Tile Council of America, Room 3401, 10 East 40th Street, New York 16, N. Y. or Room 433, 727 West Seventh Street, Los Angeles, Calif.

The Modern Style is



PARTICIPATING COMPANIES: American Encaustic Tiling Co. • Architectural Tiling Co., Inc. • Atlantic Tile Mfg. Co. • B. Mifflin Hood Co. • Cambridge Tile Mfg. Co. • Carlyle Tile Co. • General Tile Corp. • Gladding, McBean & Co. • Mosaic Tile Company • Murray Tile Co., Inc. • National Tile & Mfg. Co. • Olean Tile Co. • Pacific Tile and Porcelain Co. • Pomona Tile Mfg. Co. • Robertson Mfg. Co. • Royal Tile Manufacturing Co. • Summitville Tiles, Inc. • United States Quarry Tile Co. • Winburn Tile Mfg. Co.

For maximum heat transfer...

Pacific Boilers with Jet-action Circulation!



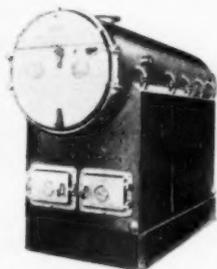
Jet-action Circulation is created by Pacific Circulating Connections. Their special design forms hot water and steam from the water leg into a jet stream trained directly on heating tubes. Insulating steam bubbles on the tubes are swept into motion producing a state of turbulence that provides maximum heat transfer.

Higher efficiency, lower maintenance costs, longer life—you get them *all* when you specify Pacific Boilers with Jet-action Circulation!

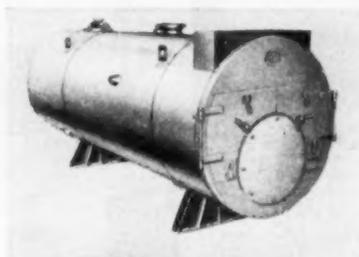
Jet-action Circulation, available in most types of Pacific Commercial Boilers, creates maximum heat transfer. It sweeps insulating steam bubbles away from heating tubes, keeps your entire boiler system at high turbulence. As a result, your installations use fuel more efficiently, respond at high speed when temperature changes are needed.

Pacific Boilers with Jet-action Circulation meet all ASME and SBI requirements. Built entirely of flange-quality steel, they're electrically welded for greater strength and safety. All, except Scotch Marine, are available in three types of construction: one-piece, with solid Circulating Connections; two-piece, with removable shell; three-piece, with split firebox.

Get complete information . . . call your local Pacific representative, or send coupon today!



Pacific High Firebox Boilers are furnished with steel bases or with steel bearing angles welded to the firebox for erection on brick settings.



Built entirely of flange-quality steel, **Pacific Scotch Marine Boilers** feature extra-large combustion chamber, lower water line and flush-front design.



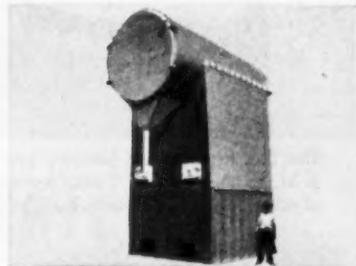
Component parts of **Pacific Split Firebox Boilers** are small enough to pass through skylight, window or doorway. Available in all types but Scotch Marine.



Pacific Front Smoke Outlet Boilers come in oil-, gas-, stoker- or hand-fired models. Built, inspected and tested under supervision of leading insurance company.



Pacific Plate Flue Residential Boilers are built of flange-quality boiler plate. Exclusive Pacific design assures long life and trouble-free service.



If your job takes a **special design** your Pacific representative is always ready with needed engineering help. Send the coupon for further information!



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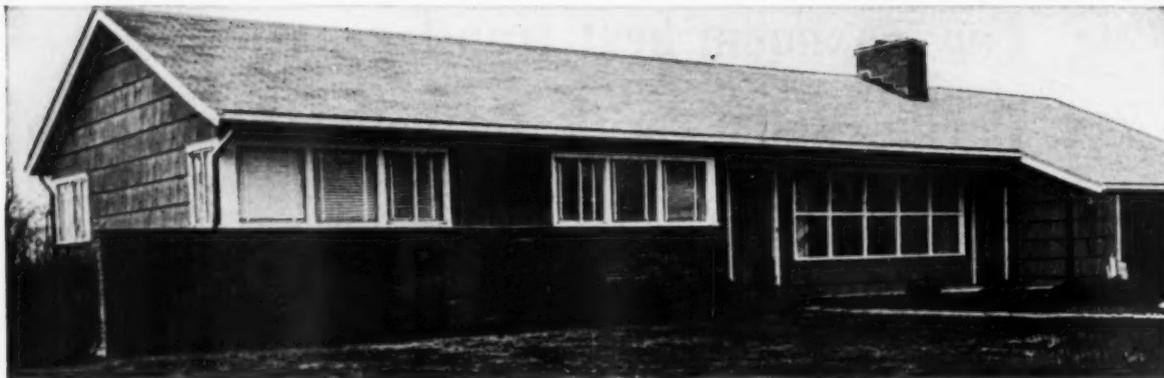
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Proved again and again — all over America —

Builder-built G-E "Young



The G-E Kitchen and Laundry you see here is featured in J. M. Snyder & Sons' "Young America" Home, and in scores of other developments from coast to coast.

G-E Kitchen-Laundry can be built right into a \$10,000 or \$12,000 house—and the added monthly cost to the homeowner may be no more than that for a regular telephone bill.

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 Detroit, Mich.—A. C. Building Co.

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 Gettysburg, Pa.—Gettysburg Constr. Co.
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 Greenville, S. C.—Gafney & Robinson
 Hamden, Conn.—L. L. Darley & Sons
 Hartford City, Ind.—Homer McKinley
 Henderson, Ky.—Fryer Realty
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 Indianapolis, Ind.—V. Keith Nelson
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won First Prize for Mr. Snyder in the "Small Builder" Group of *Practical Builder Magazine's* 1952 Annual Merchandising Contest.

America" Homes sell fast!

During the past year, builders all over the country have been erecting G-E "Young America" Homes in their own communities . . .

. . . and all over America prospects come in droves to see and buy.

Some builders even report that their houses—equipped with General Electric Kitchen and Laundry equipment—are selling fast in the very same areas where other houses remain unsold for months! Here are typical comments: "Sold well over 200 houses with G-E Kitchens in 4 months." "Sold 56 houses the first day."

"Young America" Home Plans

Plans for five "Young America" Homes have been architect-designed for the General Electric Home Bureau,

and are available to qualified builders through local General Electric distributors. There's a profitable opportunity for you to sponsor a G-E "Young America" Home in your community.

Why not get the full story on this and other General Electric marketing plans to help you sell houses faster? Home Bureau, General Electric Company, Louisville 2, Kentucky.

As of July 20th, 75 builders all over America are building G-E "Young America" Homes as models for their developments—and more are signing up each week.

Many of these "Young America" Homes will be open for inspection during National Home Week.



GENERAL  ELECTRIC

"YOUNG AMERICA" HOMES

Jacksonville, Fla.—Demetree Builders
 Kansas City, Mo.—Vic Regnier
 Kansas City, Mo.—Bill Urvan
 Kokomo, Ind.—R. D. Robbins
 Lebanon, Ind.—Plott & McCoy
 Lincolnwood, Ill.—Lincolnwood Dev. Co.
 Louisville, Ky.—Garland Cochrane
 Mattoon, Ill.—Kent Lumber Co.
 Mattoon, Ill.—Midwest Homes
 Miami, Fla.—Momar Construction Co.
 Omaha, Nebr.—Schroeder Realty Co.
 Orinda, Calif.—Robert Platt
 Orlando, Fla.—Philips Industries

Oxford, Mass.—Chaffee Bros. Co.
 Portland, Ore.—Bauer Construction Co.
 Provo, Utah—L & H Construction Co.
 Ray, Ga.—M. L. Green
 Rockford, Ill.—Auburn Construction Co.
 Rock Creek Park, Md.—H. J. Korzendorfer
 San Antonio, Texas—H. C. Barnes
 Sapulpa, Okla.—Don Morris
 Seattle, Wash.—McPherson Parade of Homes
 South Bend, Ind.—Whitcomb & Keller Bldrs.
 St. Louis, Mo.—Bert Wenneker
 St. Petersburg, Fla.—J. Rosati
 Syracuse, N. Y.—Hageman Brothers

Tacoma, Wash.—Northwestern Homes Inc.
 Tampa, Fla.—Foster Associates
 Toledo, Ohio—Cutcher Construction Co.
 Trumbull, Conn.—J. M. Snyder
 Warwick, R. I.—E. L. Archibald
 Warwick, R. I.—Vee-Jay Construction Co.
 West Palm Beach, Fla.—Ross Construction
 Westport, Conn.—Norman Shapiro
 Whiteland, Ind.—Community Homes
 Wheaton, Md.—Housing Development Corp.
 Williamsport, Pa.—Inc. Real Estate Investors

MODULAR PRINCIPLES

chapter 20

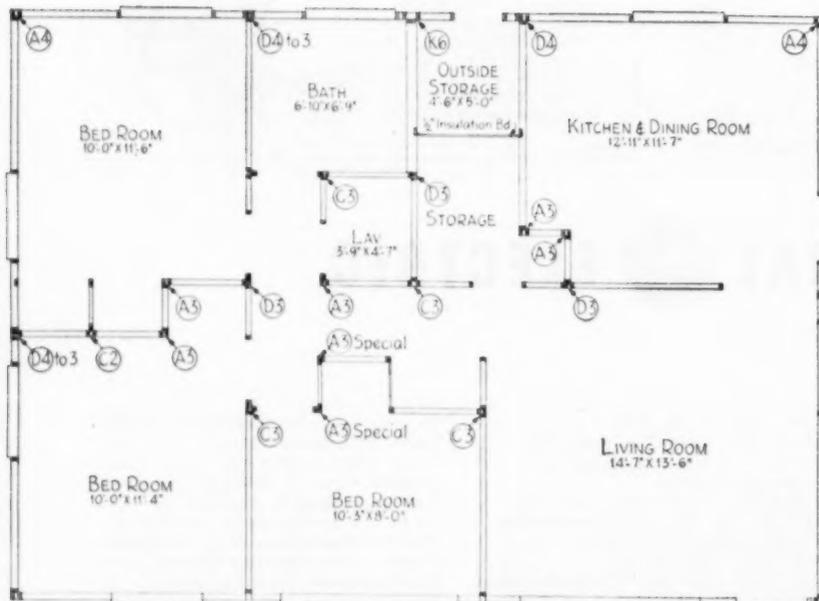
"We have never before been able to offer this value," says Indianapolis builder, "until putting two-, three- and four-inch modules to work"



Buyer has choice of 16 elevations for \$10,895. Year-round air conditioning is optional added feature

3-way modular shop on site SAVES TIME, WASTE, COSTS

By Griffith S. Clark



Floor plan shows subassembly numbers. Subassemblies for various modules are designated A4 or D3, for example, to indicate the stud with control of the module

FOR more than a year, we have been doing a lot of talking about the technical side of modular control. The real proof of the pudding, however, comes in the successful application of these principles in the field of operation to save time, cut waste and lower costs.

One of the best current examples of modules at work for the home builder is the 400-unit Brookhaven project which the ABC Construction Corporation, headed by John E. Bauer, has just started in Indianapolis. Not only the four-inch control, but the two-inch and three-inch as well are utilized with such efficiency that all waste from a complete house can literally be contained in a bushel basket.

A casual examination of the floor plan will shock those builders familiar with only the four-inch modular control because room dimensions are not necessarily in four-inch increments. However, this



Making a subassembly. The subassembly makes it possible to cut all horizontal plates for all wall sections in modular dimensions (see chapter 8, Aug., 1952)



Marking the plate on the universal jig table with the aid of a four-inch hard-board marker (see chapter 9, Sept., 1952)

plan is completely modular. Because the roof is trussed, interior dimension lumber can be smaller than the 2x4 exterior walls. Therefore, 2x3 wall partitions and 2x2 closet walls are being used to save lumber and increase living space.

Three Controls on One Jig

All walls and partitions are fabricated on the universal modular jig table in a temporary shop at the job site. Roof trusses in shop construction are the same as those used in the houses; they will be reused at

the completion of the project.

Fabricated parts are delivered to the slab on a lightweight trailer pulled by a tractor. Sequence of fabrication is such that sections are erected as the trailer is unloaded. The second plate is made up of the



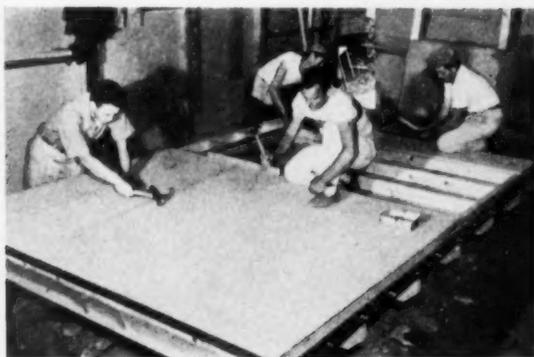
Modular saw bench



Framing assembly of wall sections on the modular jig



Using the modular stops as described in chapter 15, March, 1953



Applying dry wall in a horizontal position on the jig table

MODULAR PRINCIPLES



Precutting interior and exterior drywall on modular cutting table. Quick setting gives exact dimension, taking into account the offset of the saw, thus, one worker does this usual two-man job



Forms for supporting piers are placed in position before the loose fill for subgrade is added

2x4 spacers used as dunnage to separate the exterior sections to prevent damage to exterior window and door trim.

Sheathing of exterior walls is shop-applied. The interior sides as well as interior partitions have the drywall field-applied.

After perimeter walls are erected, gables and trusses are installed and the roof is finished. Immediately the electrician wires the outside walls and ceiling. Then these units are surfaced with interior drywall covering. Interior partitions are brought in through the picture window opening and treated similarly.

Trim Snaps into Place

One of the unusual features in these houses is a metal trim for windows and doors which is merely snapped into place, without nails, to make a tight fit. Developed locally, this material contributes to



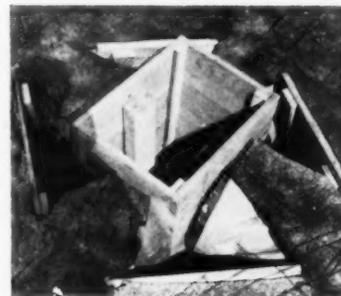
Loading wall sections on a lightweight trailer which will carry them directly from jig table to job site for erection



Applying loose fill around the heating ducts and pier forms

good appearance, favorable price and quick installation.

Builder Bauer gives full credit to modular control as a value-booster, saying: "It has been the coordinating medium which ties together our design with the shop and field operations. We offer eight different elevations with reverse floor plans.



Plenum, loose fill, heating ducts, membrane and reinforcing all in place, ready for slab to be poured



Checking the diagonals for the slab—only $\frac{1}{8}$ -inch tolerance is allowed. Trenching for concrete footings and for plumbing is shown



Locating the anchor bolts in finished slab (see chapter 6, June, 1952)



Owned power equipment indispensable to the ABC Construction Corp. operation (l. to r.): trencher, earthmover for subgrade work, high lift for backfilling

giving the customer 16 selections to choose from without changing our price. We have never before been able to offer this value in house construction. The purchaser of one of our houses is, in most instances, contracting for the largest purchase of his career. It is mandatory that we supply the latest design which will incorporate the benefits of research for plan and utility purposes at the best price we can afford to supply it."

Bauer, an Indianapolis native, comes from a family of builders. Prior to his three-year service as an Army flight instructor, his com-

pany had built about 500 houses. Since reactivation in 1947, ABC Construction has built an additional 500 home units. He is a regional vice president of the National Association of Home Builders and past president of the Marion County Residential Builders. His creed for success is: "Build the house the customer wants, at the price he can afford to pay, in the location he desires to live."

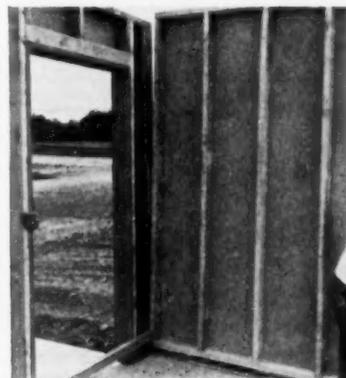
A great deal of the research and effort put into Brookhaven is attributed to James D. Foley, local architect, who was commissioned to prepare plans and coordinate re-



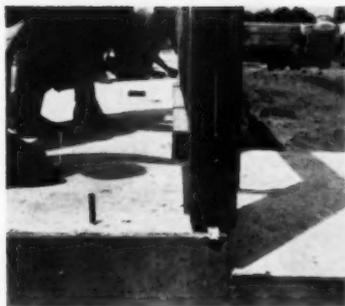
Wall section with shop-applied flashing



Erecting the first exterior partition



A subassembly in a typical corner

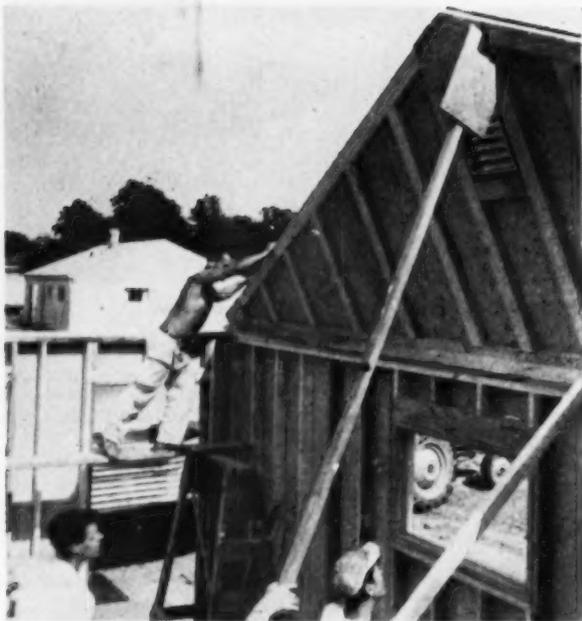


Showing the relationship of the wood framing to masonry foundation and floor; also use of strip mastic seal in between



Exterior wall, with various subassemblies in place for partitions

MODULAR PRINCIPLES



Gable end showing the yoke used in erection. Louver is shop-applied

BRAND NAME PRODUCTS USED

Alwintite aluminum sliding windows
 Bamboofold folding doors
 Bendix Duomatic washer-dryer
 Best wallboard
 Bryant gas furnace
 Fiberglas insulation
 Homasote wall sheathing
 Kohler bath fixtures
 Moas & Waldstein Plexstone paint
 Minneapolis-Honeywell heating controls
 Olympic hardware
 Rheem automatic water heater
 Thermopane picture window
 U S Plywood doors
 Youngstown kitchen cabinets, sink

search. The first two plans were discarded because a modular analysis disclosed obvious waste in stock sizes of materials. A complete rearrangement of materials made the present plan acceptable.

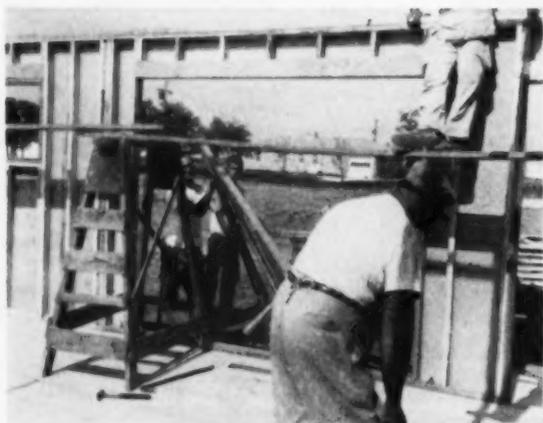
Survey Showed One-Size Window Preferred

The value of ABC's research can be shown in one of many problems successfully overcome. Obviously the use of one-size windows throughout the house would conserve inventory stocks, simplify design and reflect economy in bulk purchases. However, this is a wide

departure from conventional procedure. ABC divided its present home owners into groups for survey purposes and circularized 150 with questions regarding windows. Replies were 25 to 1 in favor of high windows in bedrooms to achieve both better furniture arrangement and privacy. Sixty per cent preferred to have the picture window in the living room extended to floor level. Due to the survey, the builders knew they would get consumer acceptance for the use of one-size windows throughout the house, used in either horizontal or vertical grouping to obtain the necessary effect.



Erecting the trusses



Trusses, interior partitions pass through picture window opening



Off-site fabrication of plumbing "tree"

Any Plan Can Be Modular

"From the design angle," Foley said, "it is evident that any house plan is adaptable to the modular principle. The greatest satisfaction to any home owner would be in the knowledge that his house has been engineered and precision-built to his specifications. Adequate plans cost money, but this money is well spent when the savings mentioned above prove beyond any doubt that the modular system works to the home owner's advantage.

"A better house for less money equals greater value for home ownership. This system will simplify and remove the element of error which often occurs under normal, conventional construction practices now being used by most builders."

"The modular system has not meant too much to the average builder of one to twenty houses a year. It has probably been a case of not fully understanding the system and its proper application due to its utter simplicity. In my opinion, every home builder should familiarize himself and his organization with modular principles. It is to the interest of the house building industry to promote better housing at lower costs and still retain the American heritage of individuality in selecting the house of one's choice. The modular system will do it."

Another chapter in this series on modular control will appear in an early issue



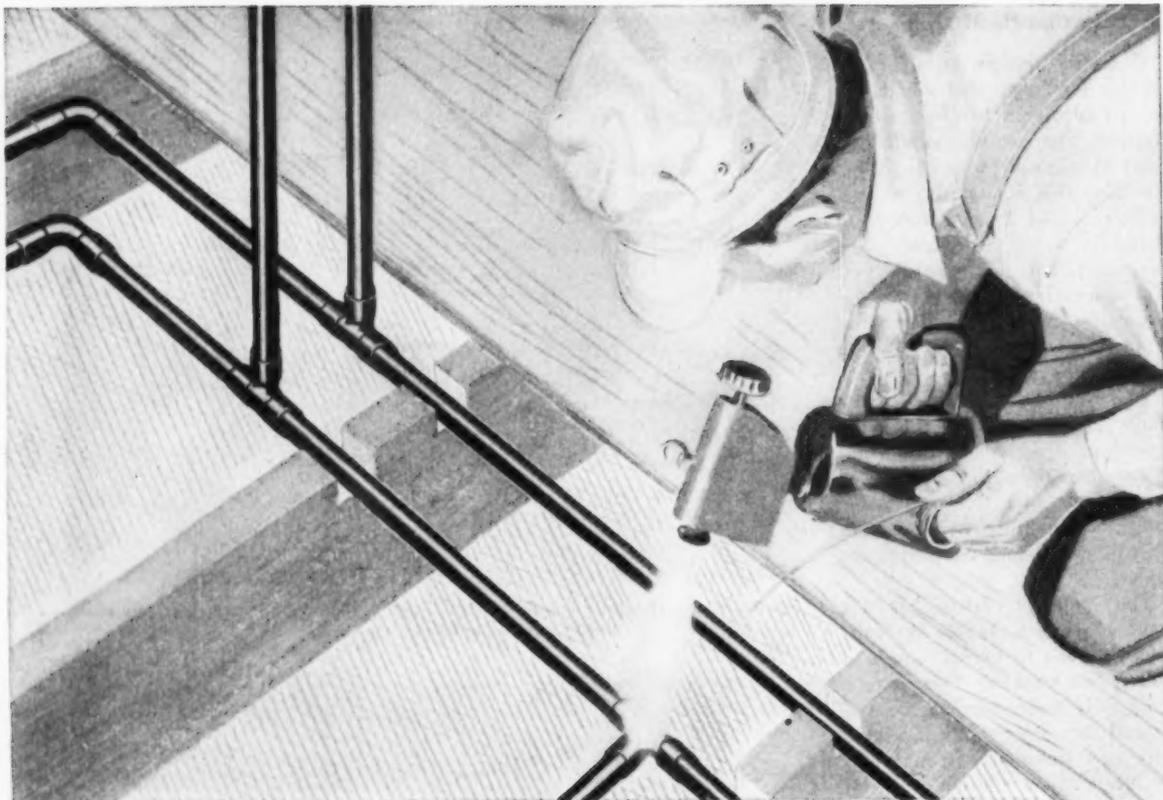
Vertical and horizontal grouping of single sash unit makes up the picture window, which extends to floor of the living room



Section of kitchen. Note two sash units in vertical position at right



Marking dimensions for application of newly designed metal head trim (top). Note kerf in wood surround for the snap-on application. Vertical trim is applied in kerf (center), which has a five-degree angle for tension grip. Installation is completed (right) in a matter of minutes



CHASE[®] copper water tube *goes in for good!*

See that shiny Chase Copper Water Tube! Smart plumbers choose it every time. They know it's lightweight, easy to handle, and *it makes satisfied customers for years to come.*

Chase Copper Water Tube is corrosion-resistant... *won't clog with rust* and always gives a full flow of rust-free water.

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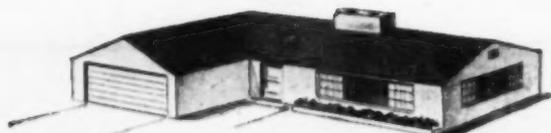
Ed Nofziger
ED NOFZIGER

"S-a-a-a-y, I can EVEN see the dancing girls now that
EVERYTHING HINGES ON HAGER!*

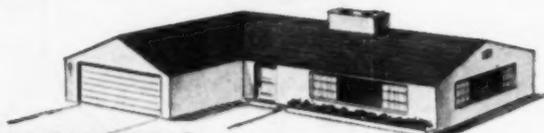
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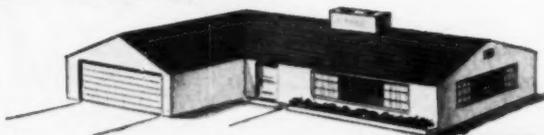


WILL THIS HOUSE SELL?



ANOTHER?

AND ANOTHER?



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... the "priceless" ingredient. Your greatest asset is the public's confidence in your reputation for true values. The word-of-mouth comments of your customers can make you ... or hurt you.

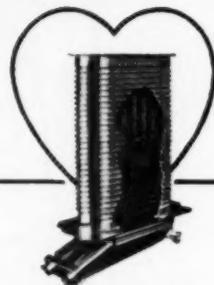
Unless there's built-in comfort in your homes for the long winter months, you can't expect your home buyers to recommend you ... to help you close future sales.

As home buyers become more critical and more exacting in their demands ... you must be able to demonstrate more and more value. Study critically the heating systems you have been installing. Were the

results really good? Was there keen satisfaction? Pleased home owners?

If not, ask your local Janitrol dealer to work out the economies of true comfort heating. He can help your sales without exacting a price premium.

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chandise the finest quality heating equipment and installation at a cost that you and your customer will gladly pay.

Janitrol

Automatic Heating



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Guaranteed by Good Housekeeping

NEVAMAR conforms to NEMA specifications



Here's the NEVAMAR kitchen that has captured the imagination of millions of home-conscious families everywhere. Here's the perfect combination of exciting beauty and practical utility for any home you are building or remodeling. Here's the one outstanding feature that adds greater buyer-acceptance to any home because a NEVAMAR kitchen creates picture-book charm and carefree livability.

NEVAMAR is a high-pressure laminate—a prefinished surfacing material that's designed for lifetime beauty and service. It never needs painting or refinishing . . . eliminates scrubbing, waxing and polishing. Its "built-in" colors and patterns include warm, mellow wood-grains that can be used in unlimited combinations to create any decorative effect.

Today, when home-buyers are looking for extra values, the home with the NEVAMAR kitchen has more to offer . . . sells faster. The story of the NEVAMAR kitchen is spreading around the country. Take full advantage of this rapidly growing interest. Put a NEVAMAR kitchen into your building plans and make your homes stand out above all others.

Send for blueprint and brochure describing this kitchen

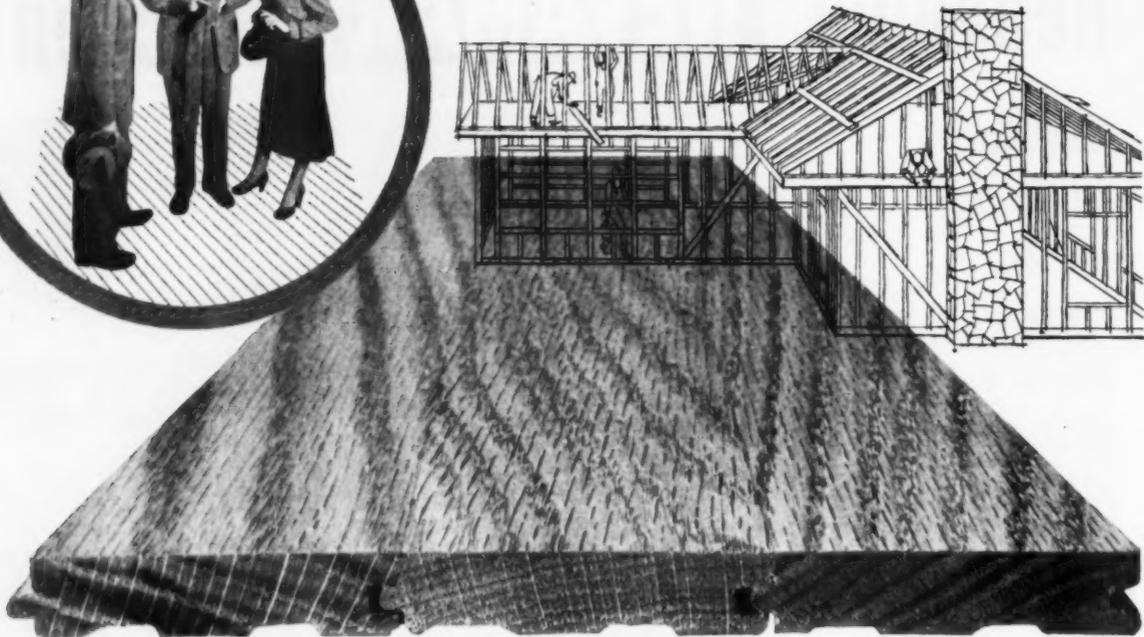
A detailed blueprint of this NEVAMAR kitchen with sketches showing its adaptability to rooms of various sizes, together with a colorful brochure, will be sent to you free. Please write on your letterhead.

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National Oak Flooring Manufacturers' Assn., Sterick Building,
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This mark on Oak Flooring is your assurance that it meets NOFMA standards.

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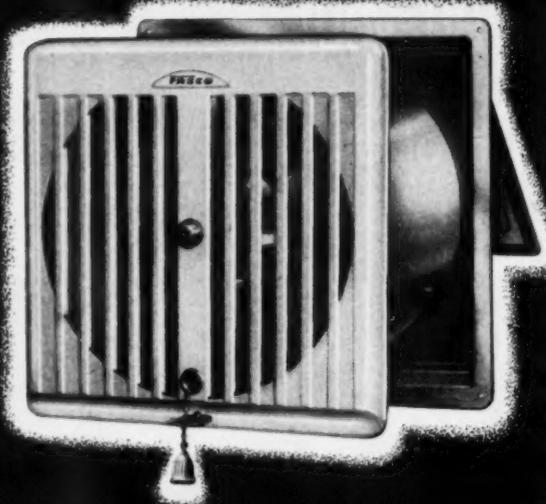


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WHAT THEY WANT...**

Builders' sales records prove that smart home buyers insist on efficient kitchen ventilation. They *want* adequate ventilation—in new homes . . . in older homes. Fasco has promoted ventilation to consumers to stimulate this idea. Many handy home owners install their own. Be sure you're using this plus-selling feature in your homes. Install Fasco 847 or 1047 to help you sell.



Model 847-1047 Outside Wall Ventilating Fan

Builders everywhere are adopting this sturdy, efficient, low cost ventilating fan. Operates automatically. Release chain—door opens, fan starts. Pull chain—fan stops, door closes. Designed for outside walls $4\frac{1}{4}$ " to $15\frac{1}{2}$ " thick. 847—8" blade, 475 C.F.M. 1047—10" blade, 650 C.F.M.

FASCO LEADS THE WAY IN HOME VENTILATION

LOW COST VENTILATION!

 Every home, regardless of price range, can have a Fasco 847 or 1047 Ventilating Fan. Volume Production brings costs down . . . and these savings are passed on to you. No other low cost extra can make your houses so inviting. They prove you build for quality.

LOW COST INSTALLATION!

 Fasco 847 and 1047 saves your time in installation. Engineered as a complete and simple package, there's no on-the-job fitting or other time consuming problems. Exclusive design makes this Fasco Ventilating Fan the easiest and quickest to install in the industry.

NO SERVICE CALL-BACKS!

 Fasco virtually guarantees this. So sure is Fasco of highest quality, you get the five-year guarantee against all mechanical and electrical defects. Install them . . . forget them. With care they'll last a lifetime.

CUSTOMER PREFERENCE FOR FASCO MAKES HOUSES EASIER TO SELL

Through consistent national advertising, Fasco has become the leader in home ventilation. Your prospective home buyer knows and respects the name Fasco for quality ventilating fans. Fasco is the one low cost extra that makes the big cost difference.

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Model 880 Ceiling Ventilating Fan for installation through ceiling and roof. For single story construction.



Models 882-1082 Outside wall ventilating fans with remote control performance. 8 or 10-inch blades.



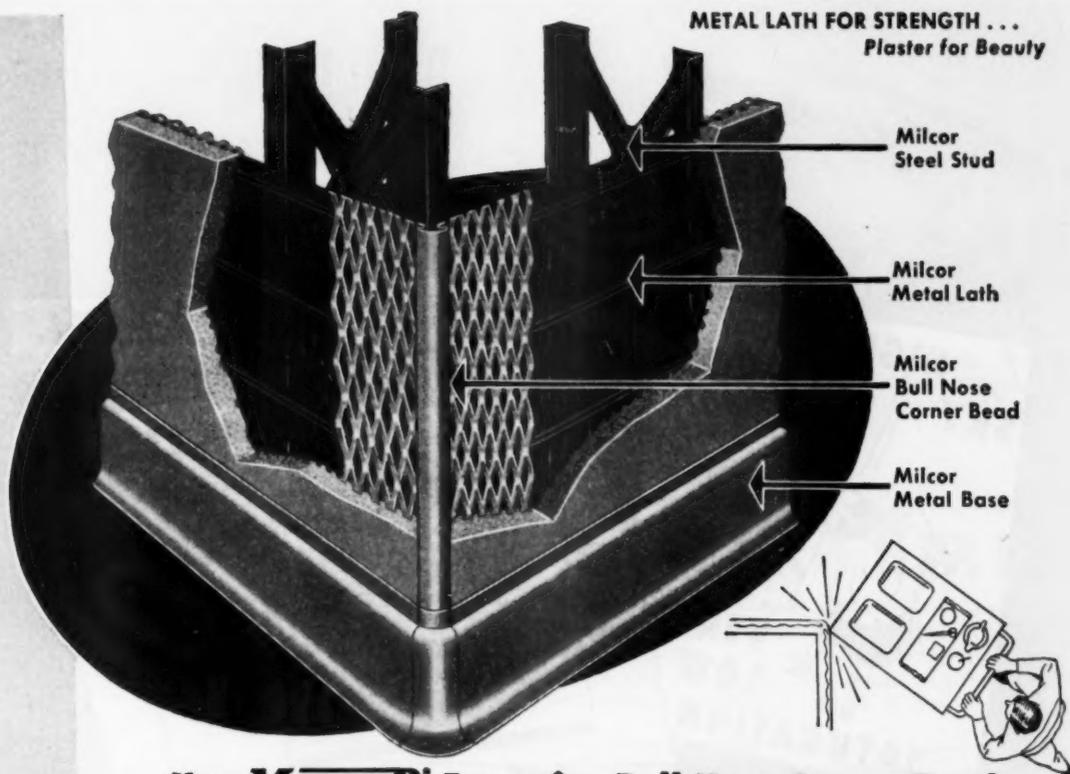
Models 1021-728 Ceiling and inside wall ventilating fans. 7 or 10-inch Turbo-Radial Impeller.

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... for lasting corner protection
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Integral expansion wing provides an effective plaster bond right up to the nose of the bead.

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Milcor offers you the widest selection of corner beads, from industry's most complete line of metal lath and accessories. For details, write today for your copy of our new Milcor Manual.

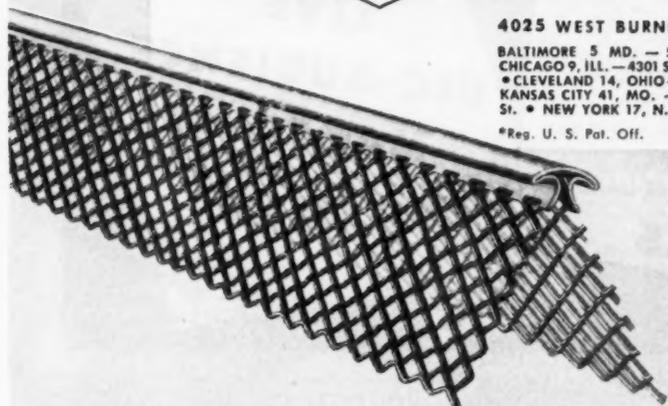
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No. 10 Bull Nose Corner Bead, shown, is made of galvanized sheet steel and has expansion wings integral with the nose of the bead. No. 10 is just one in a complete line of Milcor Corner Bead for every construction condition—and designed for application with other items in the broad line of Milcor Metal Lath and accessories.

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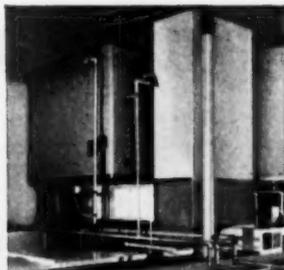
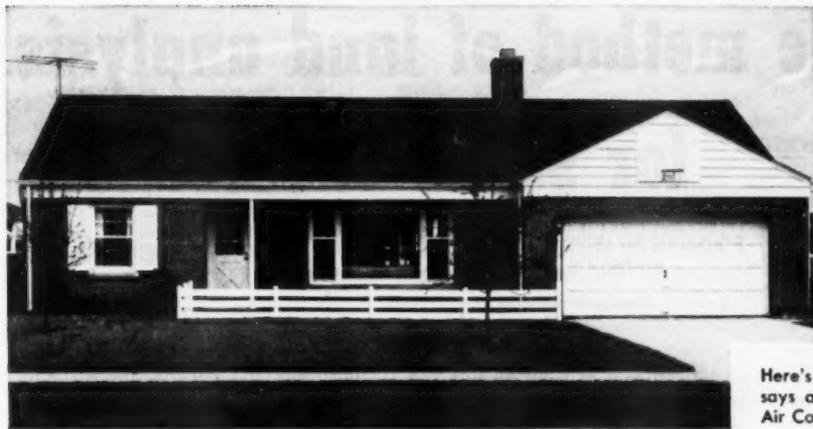
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"We have our Chrysler heating and air-conditioning system so balanced that for the past three years, winter and summer no matter what the temperature out of doors, we sleep under a single light blanket all night long . . .

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One of our youngsters has been troubled with hay fever and during those summer months when the air-conditioning system is in operation, he is afforded complete relief from pollen irritation during the periods when he is in the house and of course, all night as well . . .

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First, I was most surprised with the operating cost which has not exceeded \$70 for any complete summer season and this cost includes both power and water . . .

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It is my own personal opinion that our home has stayed so clean on the interior as a result of air-conditioning, that our reduced maintenance and decoration costs have more than paid for the operating cost."



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a simple method of land analysis for small subdivisions

PRELIMINARY analysis of land to be used for building homes is sometimes overshadowed by the attention given to the houses alone. And yet it is the site that makes the house. A prospective buyer's first impression of the neighborhood and external appearance may make the difference between sale or no sale.

If subdivision planning is neglected, the poor quality may show up

*Prepared for the American Builder
by Max S. Wehrly*

*Executive Director,
Urban Land Institute*

in many ways: erosion on unnecessarily steep slopes; ponding on very level land; dying trees where too much fill or too much cut has occurred, or worse still, no trees at all where the bulldozer has taken the place of a good topographic map

and a carefully prepared subdivision plan.

A preliminary appraisal of the subdivision possibilities of a site by the developer himself is highly desirable and not too difficult. Prerequisites are a good topographic map of the site, a pencil, a scale, and at least a speaking acquaintance with the meaning of contours.

The accompanying three sketches illustrate a simple and relatively

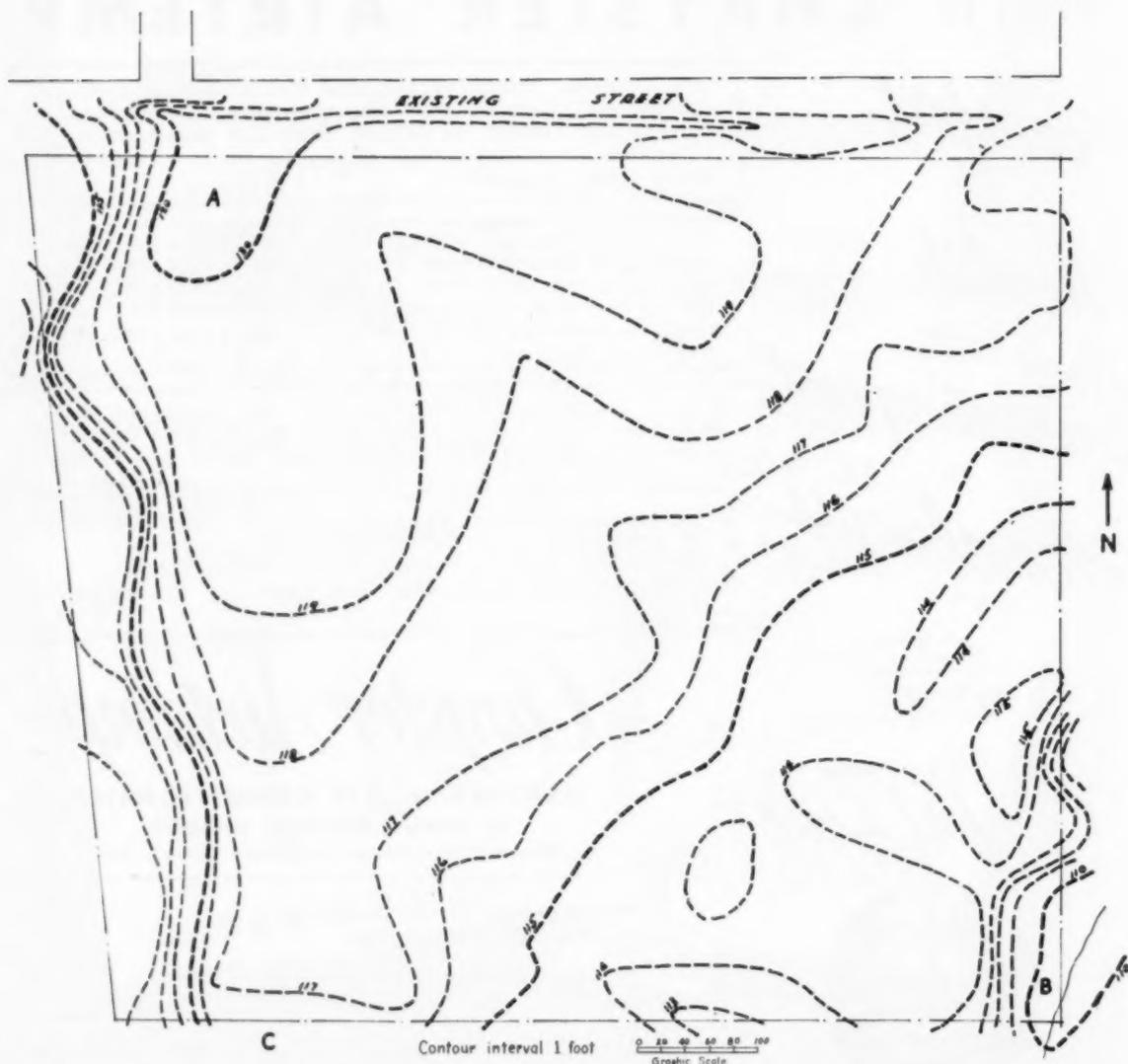


FIG. 1 The subject tract is a relatively level one of 16 acres. Contour intervals show drop of 1 ft. in elevation between each contour

easy method of determining on paper the physical feasibility of the site for the type and price of home to be marketed, the ability to drain or to avoid excessive grading and the extent to which the natural contour of the land can be preserved and made to work for rather than against a good result.

Figure 1 shows the topography of an actual 16-acre tract of land; in this case, a relatively level one. Contour intervals show a drop of one foot in elevation between each contour, or an average drop of slightly over 10 feet across the site from northwest (Point A) to southeast

(Point B)—a distance of about 1,000-feet. This is only one foot of drop in each 100 feet, about the minimum slope allowable to drain the site to the natural drainage outlet at Point B. This is also, under average conditions, the minimum slope desirable for good surface drainage of streets and gutters, although such grades can be reduced to a six-inch drop in 100 feet if necessary.

The following procedure will furnish a quick and relatively easy basis for evaluating any tract of land, large or small.

Steps in Analysis

A. Character of Site (illustrated in Figures 1, 2, and 3):

1. Relatively level site draining NW to SE at average rate of one foot in 100 feet.
2. Soil condition good—sandy clay, no rock, marsh areas or fills.
3. Site contains good stand of second-growth trees and scattered specimens of oak and maple which should be retained where possible.
4. Surface drainage discharge permitted at point B, where sanitary trunk sewer is also present. Water and electricity are at the site on the existing street.

B. Market Requirements for Homes:

1. Single-family ramblers requiring typical lot areas of 7,000 to 8,000 square feet—minimum lot depth, 100 feet.

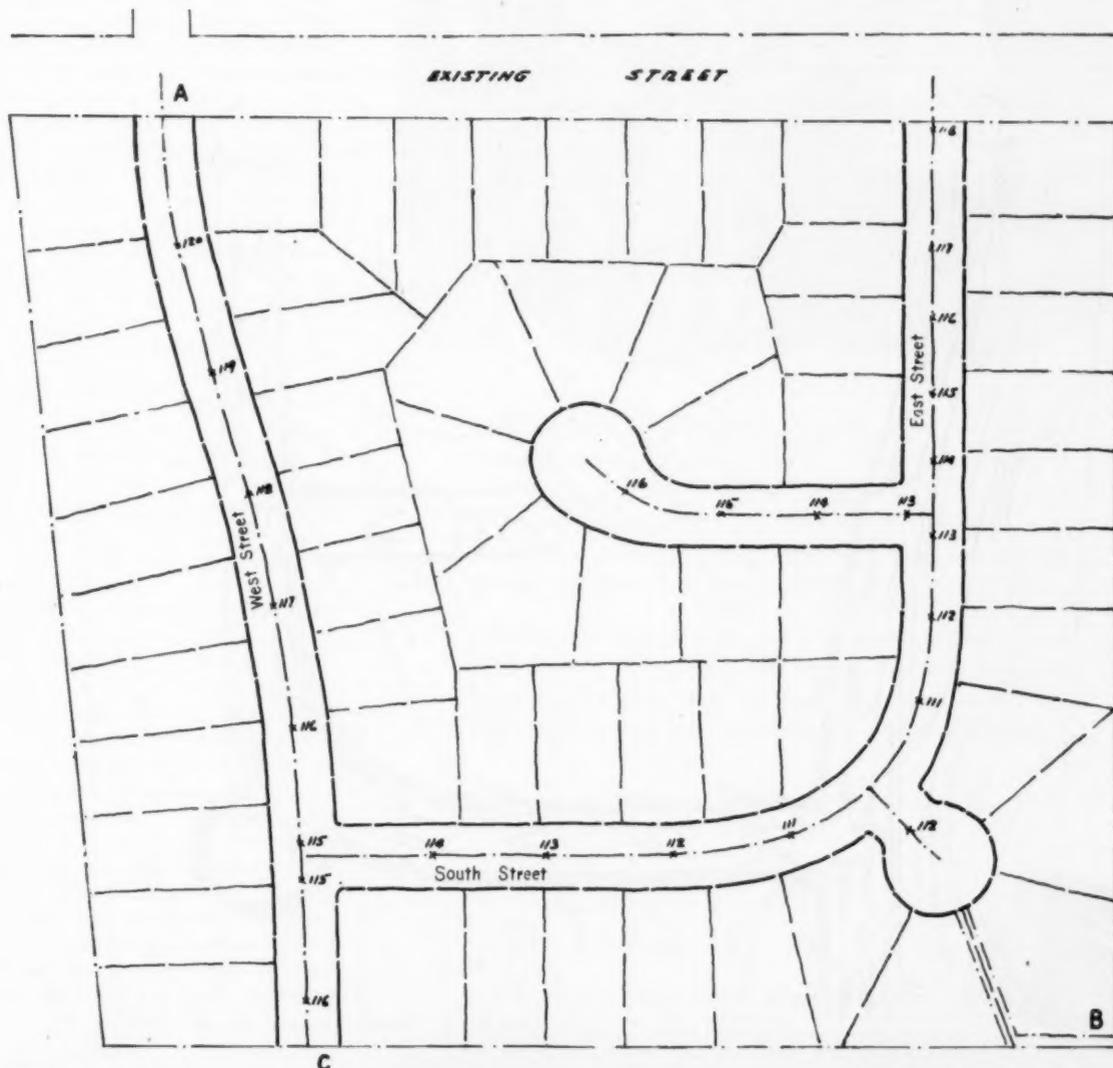


FIG. 2 Study to determine feasibility of street layout, drainage and lotting. Figures are spot elevations indicating grade of street

- Houses of slab construction, no basements, indoor-outdoor living requiring close relationship between floor and yard grades.

C. Additional Major Municipal Controls Affecting Layout:

- Minimum street right-of-way width, 50 feet. Paved roadway, sidewalks.
- Extension, or at least dedication, of street through tract from point A to C.
- Culs-de-sac not more than 500 feet.
- Surface gutter runs not more than 1,000 feet.

Preliminary Layout Analysis

1. Location of streets. This will require a number of trial free-hand sketches on tracing paper laid over the topographic map which in this case should be at intervals of one foot. (For land with slopes of 3—15 feet in 100 feet, 2-foot contour intervals are satisfactory, with

5-foot intervals for steeper slopes.)

Five major factors should be kept in mind: (a) minimum street grades of not less than 0.5 per cent, preferably 1.0 per cent with no sags or sumps between street intersections; (b) minimum lot depths of 100 feet; (c) good relation of street to abutting land for good house siting, with house sites somewhat above street grades wherever possible; (d) minimum grading both as to depth and extent, with balanced cut and fill if possible, otherwise with some excess of cut over fill preferred with retention of natural grades wherever possible; (e) pleasing street alignment.

After some experimentation, you will come up with a street plan simi-

lar to Figure 2. Now spot in road elevations on the plan. In this case the west and south roads are a minimum of one per cent, the east road is slightly over three per cent. Note that on topography as flat as this it is necessary to keep the street grades somewhat lower than the lots in order to provide good drainage for the lots. Drainage could be to rear lot lines but this is not as satisfactory unless dictated by topography. Streets are the logical water collectors.

2. Lotting. Now sketch in your lots roughly. This will give you the approximate number, as well as their shape and relationship to the street. Lotting can be precised and tightened up in later studies.

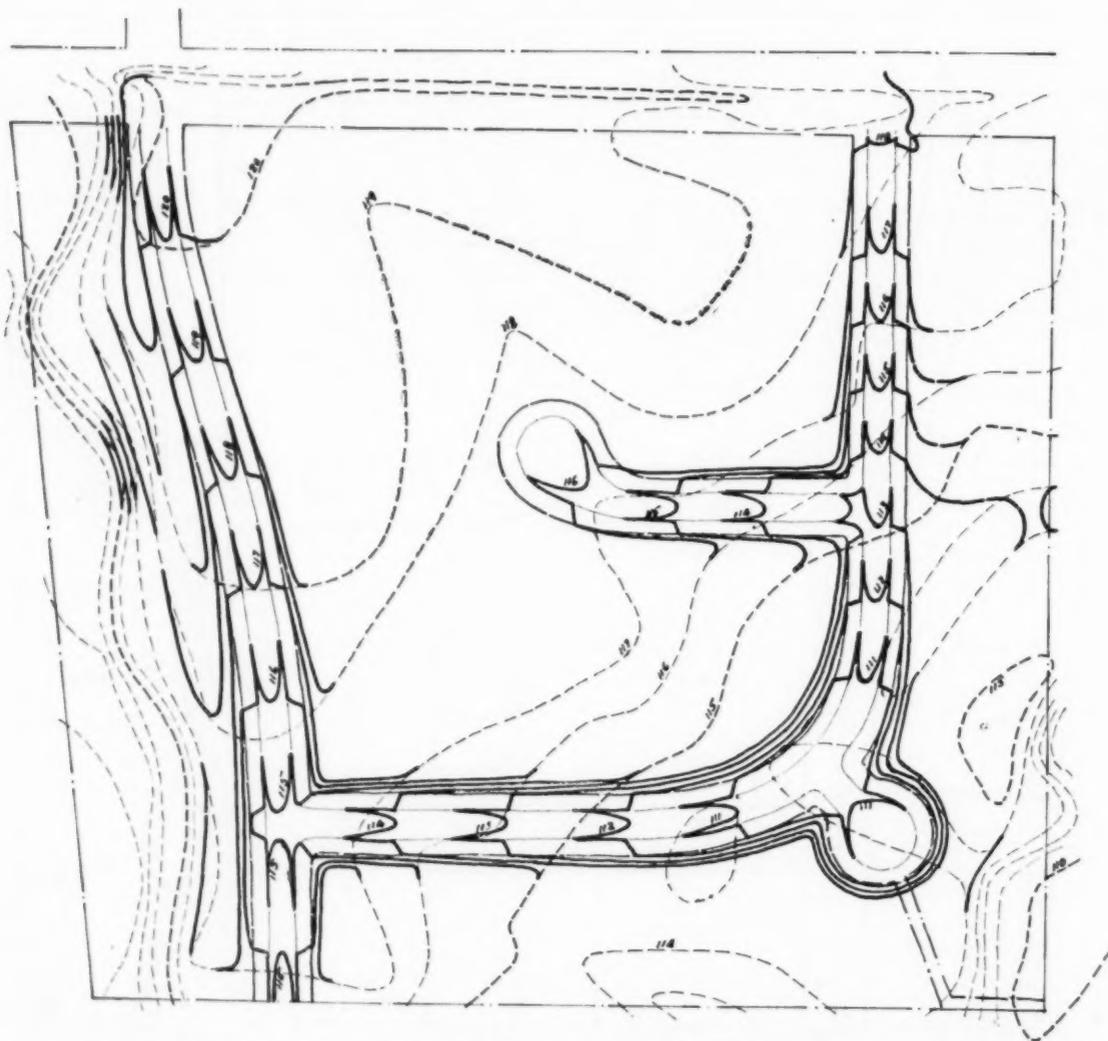


FIG. 3 Rough grading plan to determine depth and extent of earth-moving, and relationship of house locations to street and lot interiors. Light dotted lines are existing contours; heavy solid lines are proposed contours

3. A rough grading plan can now be sketched in order to determine the approximate area which will be affected. This is illustrated in Figure 3. Light dotted lines are existing contours; heavy solid lines are proposed contours. Curb height is assumed at six inches with a 6-inch road crown. This is a convenient figure for preliminary study. Side slopes shown here are about one to seven for illustrative purposes, but can be steepened depending on the specific soil conditions, thereby reducing the amount of grading. Note that in no case does the cut exceed three feet and in most cases is two feet or less.

Street drainage has been carried to the southeast corner of the site where an easement for underground storm drains will collect from catch basins at this point. No other underground storm sewers would be needed if it were not for the requirement that the west street be carried through to the south boundary. With this requirement, it will probably be necessary to carry a storm sewer in the south street to connect to storm sewer easement.

After sketching in the new road contours, carry them out to existing grades, at the same time studying the house locations, which are assumed here to be within an area 50 feet from the street line. Note the relation of the contours to the house sites. You can then make an approximate estimate on the length of street, quantities of paving and grading, and extent of underground utilities.

The above analysis should be considered only as a preliminary study to determine the feasibility of the site for the particular type of use, the ability to drain it adequately, and the approximate extent and quantity of grading, street and underground utilities required. Any number of variations in the layout could have resulted.

The analysis will also be very useful in working with the municipal and insuring officials. It does not, however, replace the necessity of more precise, detailed site plans and engineering drawings which should be prepared by qualified land-planning and civil engineers.

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Because its fine grain, soft texture, light weight and freedom from pitch work easily. The wood cuts clean, matches accurately at mitres. Properly dried to specified moisture content, it doesn't shrink, swell or split. It absorbs primers evenly, holds paint, stains or transparent finishes, free from bleeding or raised grain.

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"More than 4,000 homes I've built have Mosaic Clay Tile baths and kitchens

... as a result, they've **sold faster,**" says Norman R. Schuermann, St. Louis builder.

"Since 1937, every house I've put up—over 4,000 houses—has had a Mosaic Clay Tile bath and kitchen. I've found that clay tile is a *big sales feature*. It's what my buyers want and expect. They like Mosaic Tile's good looks, its permanency, its easy cleaning.

"In my new Bissell Hills development I have

2,300 homes built or under construction. They'll sell for an average cost of \$11,400 each. And each one will have a Mosaic Tile bath and kitchen.

"I find that I can't go wrong on the real thing. And I should know, for I've spent far too much money repairing and replacing substitutes for real clay tile."

Mr. and Mrs. Merle Plitt, Bissell Hills, St. Louis, Mo., two-time purchasers of Schuermann-built homes.



"This is the second Schuermann-built house we've bought in twenty years," says Mr. Plitt. "We've been completely satisfied both times. Our present home is just what we want, and it's built with quality materials from one end to the other."

"I like the Mosaic Clay Tile on my kitchen walls," Mrs. Plitt points out to Mr. Schuermann. "It saves me a lot of work . . . will never need paint or repair . . . and it's a dream to clean. I'll never have to worry about splashing water or grease."

"My little boy is like all other boys," Mrs. Plitt adds, "boisterous and just a bit careless about where he puts his hands, and how he takes his bath. With Mosaic Clay Tile on my walls and floor, I don't have to scold, for nothing harms my Mosaic Tile."

Use Mosaic Clay Tile in your low-cost homes. See Mosaic Clay Tile at any Mosaic showroom, or at that of your local Tile Contractor. For helpful literature, write Department 35-13, The Mosaic Tile Company, Zanesville, Ohio.

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General Chef complete kitchen units fit in 5.4 square feet. The ideal solution wherever space and dollars are important.

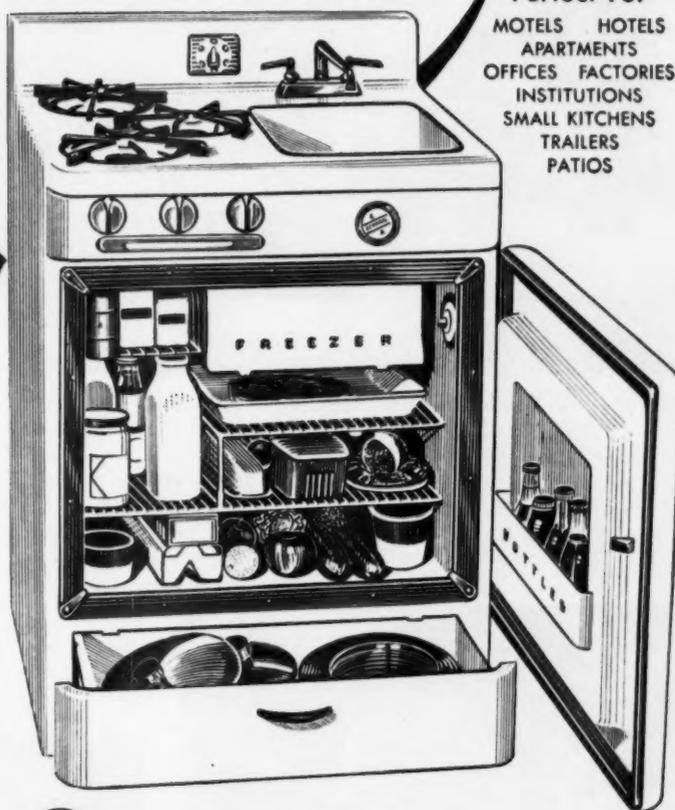
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1. Prepare a clean smooth base

THIS NEW CEMENT lets your own carpenters install plastic counter tops

With Armstrong's Counter-Top Cement you no longer need to order expensive counter tops from custom fabricators. Your own carpenters can now do a thorough professional job on counter tops, sink tops, and other work surfaces.

This new cement, developed by Armstrong Cork Company, is a perfect adhesive for bonding plastic laminates to plywood, metal, plaster, or composition bases.

Armstrong's Type A Counter-Top Cement is easy to apply, and the installation can be made with regular carpenters' tools. After a clean smooth surface has been prepared, the laminate is measured and cut to size. Next, this ready-to-use liquid cement is brushed on the counter top and the back of the laminate. The laminate is carefully positioned before being pressed into contact. Armstrong's Counter-Top Cement bonds instantly. You can apply all the necessary pressure with a small hand roller or a rubber mallet. No clamps, weights, or overnight curing is needed. To finish the job, add trim or molding as desired.

This powerful new adhesive forms a lasting, trouble-free bond that resists water, soaps, detergents, and solvents. Its bond does not deteriorate with age.

Armstrong's Counter-Top Cement is available at your local lumber or building supply dealer. Ask for it by name and be sure to specify that you want "Type A"—for professional use. Type B, for home craftsmen, is a ready-to-use paste which allows a few minutes for positioning of the laminate before taking final set.

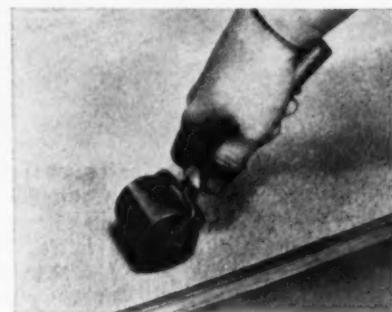
A full description of Type A cement and instructions on how to install plastic laminates can be obtained from your lumber dealer or by writing Armstrong Cork Company, 4309 Rider Avenue, Lancaster, Pennsylvania.



2. Measure, cut laminate to size



3. Spread cement on counter top and back of laminate

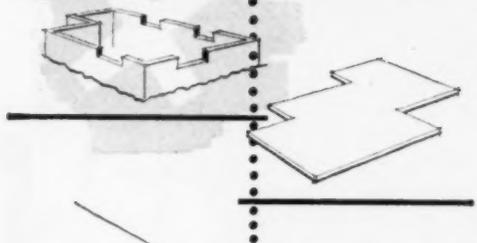


4. Position laminate and press with roller, add trim

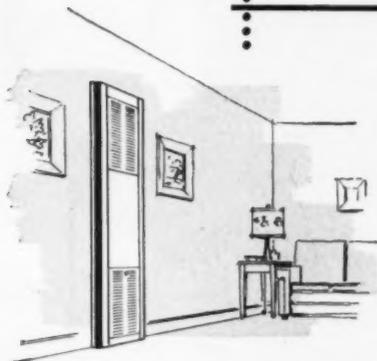
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*Got to make the most of Floor
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they fit between standard studs.*

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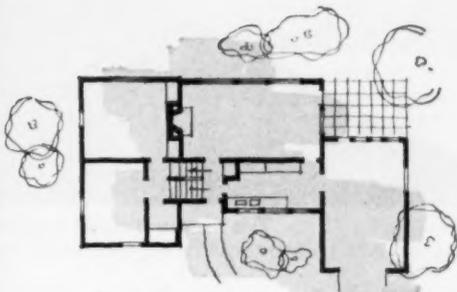
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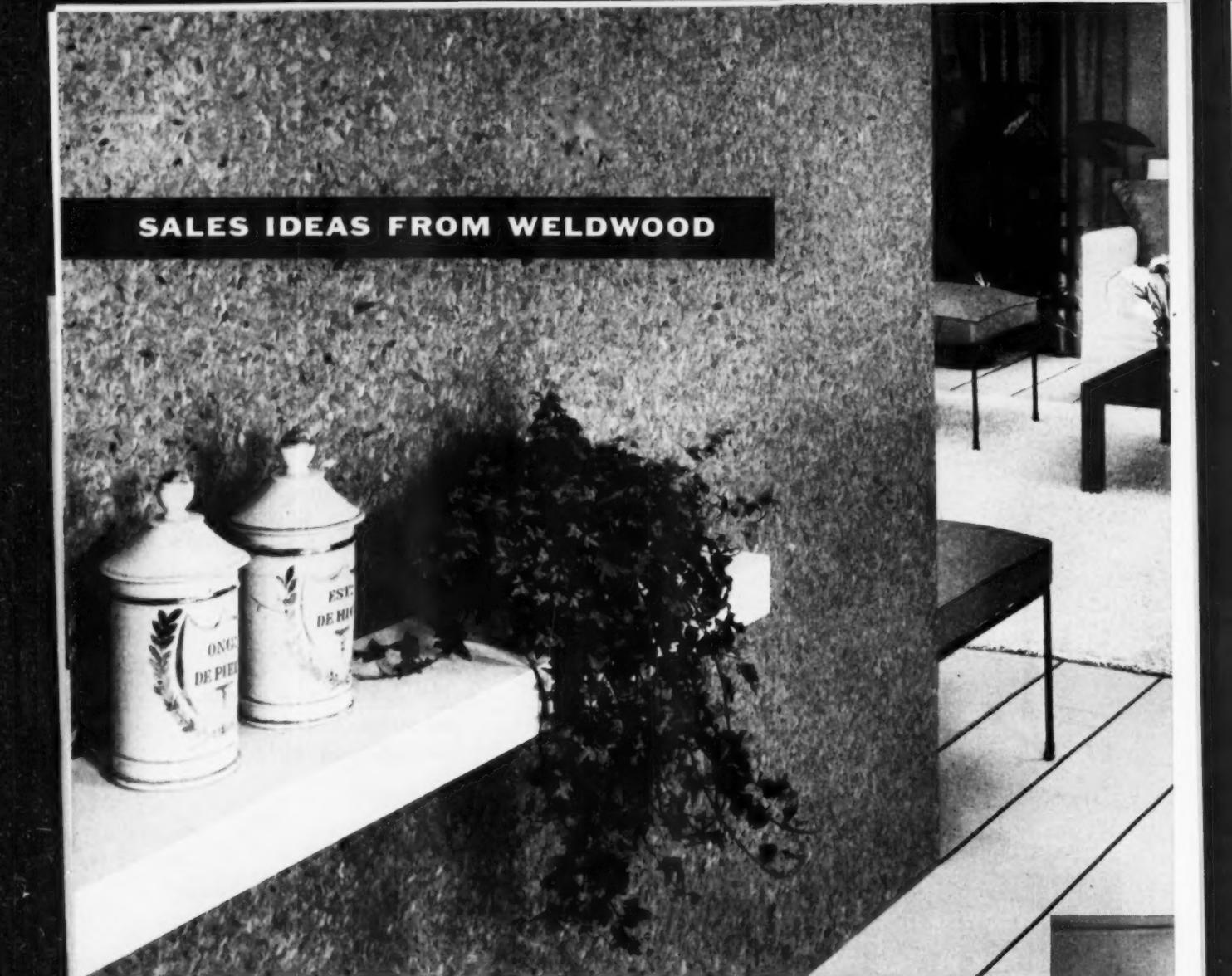
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The luxury look of low-cost Novoply paneling sells homes!

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If you're a builder who likes the new . . . the imaginative—and yet keeps a close eye on costs, new Weldwood Novoply is a product you'll want to investigate. This is true whether you build new homes in the \$10,000 or \$50,000 class, or if you are getting into the growing remodeling and expansion field.

Available in either warm-looking pine or glowing redwood, Novoply has a rich "textured" look, yet it is smooth because of the special bonding process which builds up layers of wood flakes to form interesting and varied patterns.

Because it is virtually warp-free, it is ideal for wall paneling, sliding doors and built-ins. As to finishing, this all-purpose wonder wood can easily be waxed, polished, stained or left natural. Sizes: 4' by 8' in $\frac{3}{8}$ " thickness; many economical sizes in $\frac{3}{4}$ " thickness from 30" by 60" up to 4' by 8'. Good *both* sides.

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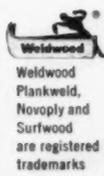


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technical guide

.....
for builders and craftsmen

how to use rigid insulation in deck construction

Since the roof surface is usually the largest single area of a building, it is a place where the application of insulation board can be effective. As a result, these structural pressed boards, having such specific physical properties as rigidity, strength and high insulation value, are primarily adapted for use with flat or semi-flat decks.

In order to have this type of material develop its greatest efficiency, insulation boards for roof deck application must be installed with the "know-how" that will assure adequate protection and length of service.

It must be remembered that roofing felts and insulation materials are normally dry. When it arrives on the job site, the material is properly proportioned with relation to moisture content and other physical properties. If, however, it is improperly handled or stored by the builder, it may absorb dangerous amounts of moisture. Therefore, precautions must be taken on the job to protect the materials from becoming damp or wet. If roof-

ing materials, including insulation, are installed damp, the moisture will have no means of escape since a definite barrier to the passage of vapor is created when the roofing felts are thoroughly mopped.

Lack of care during roofing installation may trap air and moisture within the built-up roof structure. If the plies of the roofing felts are not mopped solidly, areas of poor adhesion will result. Pressure is then built up within the roof structure when the roof is exposed to the sun's rays, causing a rise in air temperature. The same hazards will be created if the roofing felts are not broomed down immediately following the application of bitumen, if the bitumen is not properly heated, or if the felts are allowed to crease or buckle during application. It must be emphasized that unless good adhesion is achieved between all plies of the roof structure, "air pockets" and moisture will be present to the detriment of the installation.

Photographs and data courtesy of The Insulation Board Institute



The first step in the application of a built-up roof where a rigid insulation board is applied over the concrete roof surface is to install a cant strip at intersection of wall and roof. This member is composed of a continuous strip of insulation board. The top surface of board and portion of deck is mopped down with roofing asphalt. Felt is applied along the roof edge, over the cant strip, while the balance of the felt is mopped to the slab. The flashing thus formed serves as a water-stop at the roof edge.



After flashing, the felt is mopped in place. Hot roofing asphalt is applied to the roof deck upon which the insulation board is set. This asphalt coating acts as a vapor barrier. Under conditions of excessive humidity within the building, the Insulation Board Institute recommends the addition of two plies of 15-pound felt mopped together with asphalt coatings. Insulation consists of panels of one-inch rigid insulation board abutting each other and against the edge of cant strip.

(Continued on page 146)

WOOD WON'T ROT WHEN IT'S **COLD** AND **DRY**

Living fungi, which break down the substance of wood, are microscopic and abundant. But they need a certain amount of WARMTH and DAMPNESS to develop. Dampness will also peel off paint, crumble plaster, rust iron and steel.

Some insulations promote and retain destructive condensation inside walls and other structural spaces. In addition to warmth, vapor of water also flows through paper, plaster and most building materials, including ordinary insulations, and sometimes even through asphalt paper. Vapor condenses when it strikes a colder surface and reaches a dew-point.

An empty space is the best insulator against heat flow by Conduction; but does not prevent heat flow by Radiation and Convection. Of all heat transferred through structural spaces, 50% to 80% is by Radiation; all but 5% of the rest is Convection. Multiple accordion aluminum sheets throw back all but 3% of the Radiation which strikes them, and block Convection. Their insignificant mass, 1 oz. to the square foot, and their multiple air space construction, minimize Conduction.

They have zero permeability to water vapor and all other gases, including air, hot and cold. Because of their structure, they are practically non-condensation-forming, for a dew-point is not reached on any of their surfaces.

Simple and illuminating discussions of vapor and heat flow, including explanations of how to prevent timber rot, will be found in the U. S. NATIONAL BUREAU OF STANDARDS booklet, "Moisture Condensation in Building Walls." Ask for free copy.

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rigid insulation

(Continued from page 142)

Panels of insulation board are installed on the concrete roof deck as fast as the roof asphalt is mopped on. End joints of the panels are staggered. Panel placement quickly follows the mopping to make sure roofing asphalt is hot when panels are set in place



Closeup view of installation shows the ease of handling the insulation board panels. After panels are secured to deck with hot asphalt, they are sufficiently strong to support the weight of mechanics and equipment



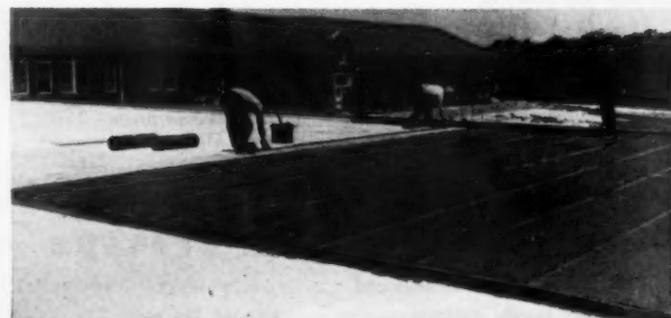
If mechanics are unable to complete the application of insulation board in a fixed working period, they then seal off the end of incompleting portions with strips of roofing felt. This serves as a water-stop and protects the installation against possible damage by a sudden rainfall



When the felt-strip water-stop has been applied at the end of first section of insulation board application, roofers then cover this area with hot asphalt and roofing felt. A good deal of care is used to have felt adhere snugly to roof at seams. Creasing or buckling invites air pockets which destroy the efficient performance of the roof



Final step in the application of the first section of insulation-board panels over a large section, is the placement of a water-stop at the fourth side of the section. Roofers go over entire area to make sure that felt adheres snugly at all seams. After this section is completed, work then proceeds on other sections of the roof deck



Extra-rugged, lightweight Bundyweld Tubing saves installation costs. Expanded end (if specified) of one coil slips over end of next coil, seals leakproof under silver- or soft-soldering. Tubing doesn't dent or split under accidental hammer blows; uniform coils permit faster, smoother plastering.



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With increasing frequency, in hundreds of communities, alert architects and builders make "also-rans" of their competition. Competitors' hottest prospects become *their* customers, sold by *their* offer of Bundyweld Ceiling Radiant Heating.

Field reports show this dramatically new heating system opens markets long dominated by competition. And it's no accident. Bundy ads in *Better Homes & Gardens*, *American Home*, *Small Homes Guide*, and *House Beautiful* have convinced thousands of near-ready home buyers and builders. This conviction is strengthened by reports from friends and neighbors already *living* with Bundyweld Ceiling Radiant

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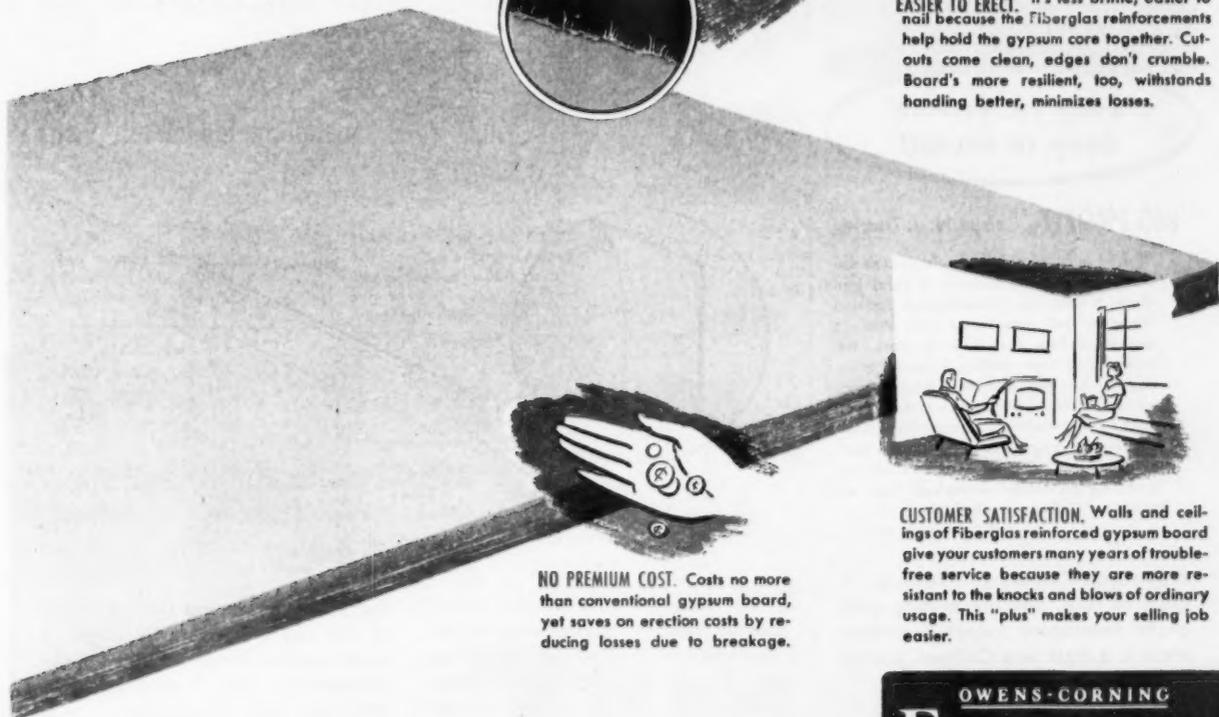


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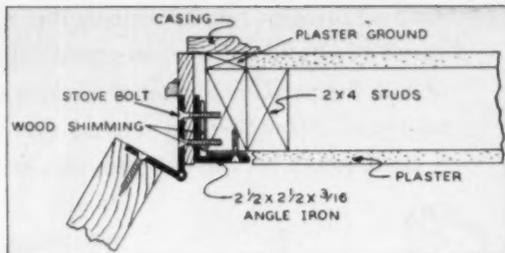
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how would you do it?

ideas for the man on the job

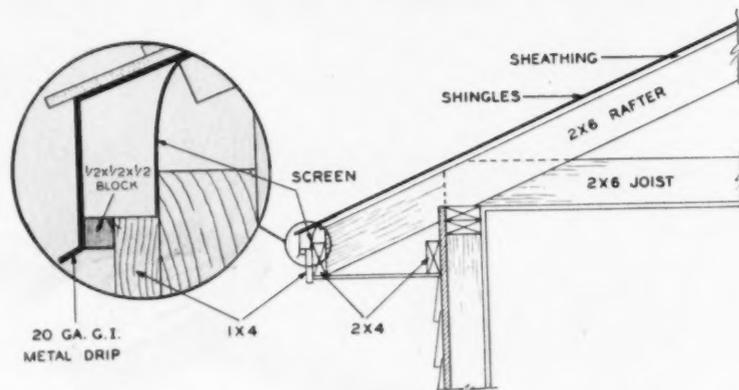
how to repair sagging doors, loose hinges



Get an angle iron $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{16}$ inches and about 5 inches long. On one side, drill three $\frac{5}{32}$ -inch holes and tap them to fit $\frac{3}{16}$ -inch stove bolts. On the other side, drill two $\frac{1}{4}$ -inch holes and countersink them for large screws. Remove the inside casing of the door on the hinge side. Remove enough plaster at a level with the placement of the hinge so that the angle iron can be

fitted to the exposed 2x4's. Place the angle iron between side jamb and 2x4 directly opposite hinge of door. Place wood shimming against studding to bring angle iron out flush with plaster. Then fasten hinge in place with stove bolts. Drive screws into studding and replace inside casing.—J. A. Floden, Sumner, Iowa.

installing hidden air vents



Air vents for attic air circulation can be installed in the fascia of the eaves so that they are hidden to the eye. Two by fours are spiked to the ends of the rafters so that an air space is left near the roof line. Wire screening is then tacked to the roof sheathing and to the 2x4's. Then a 1x4 fascia board is nailed directly to the 2x4.

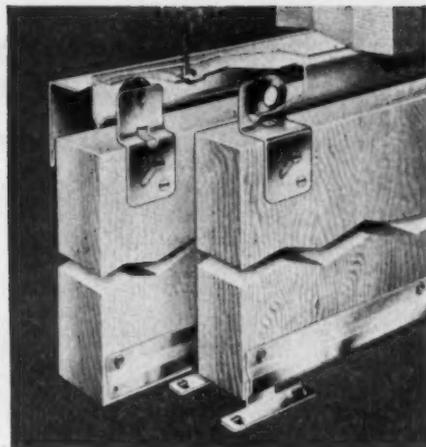
A protective covering of metal is then nailed to the roof sheathing and to $\frac{1}{2} \times \frac{1}{2}$ -inch blocks placed

every few feet along the top edges of the fascia board. The piece of metal applied forms a blind for the screened air vent. It also acts as a drip cap and, when painted, will appear as part of the fascia molding. In this way, adequate air circulation is afforded, yet the general appearance of the fascia and soffit does not betray the air vents they contain.—Vernon L. Conyers, Spokane, Wash.

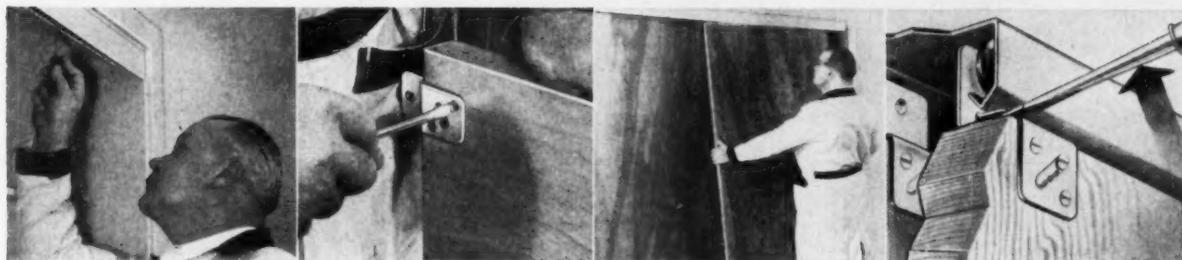
(Continued on page 154)

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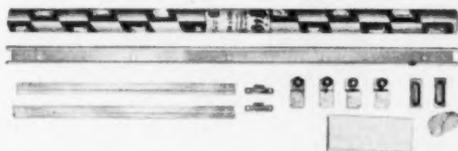
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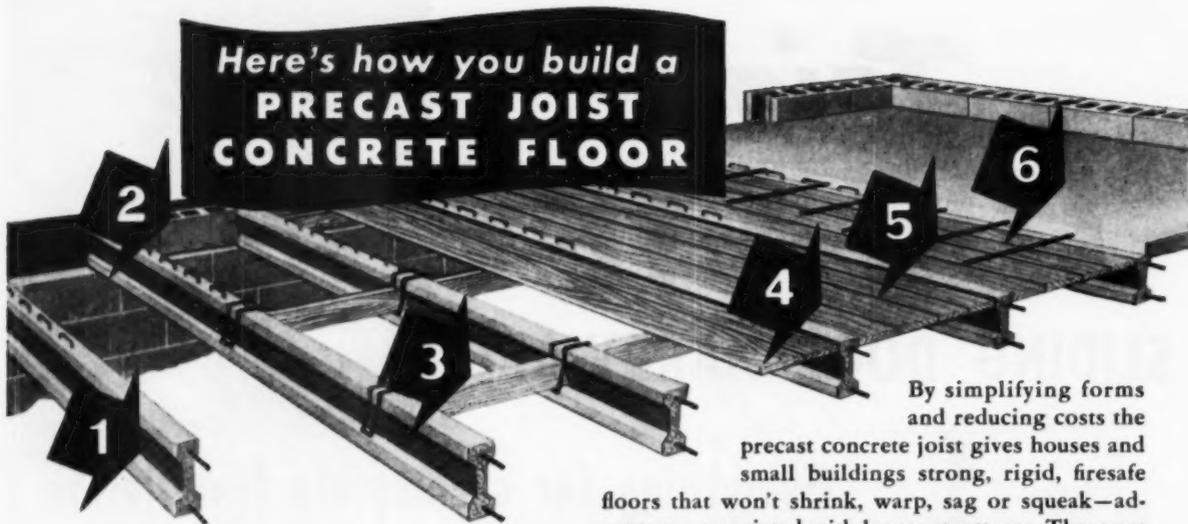
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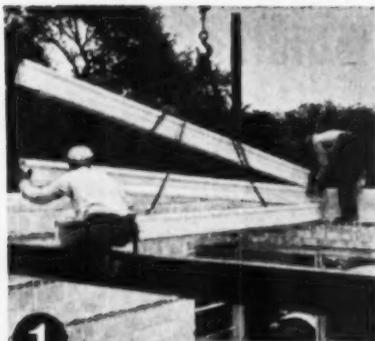
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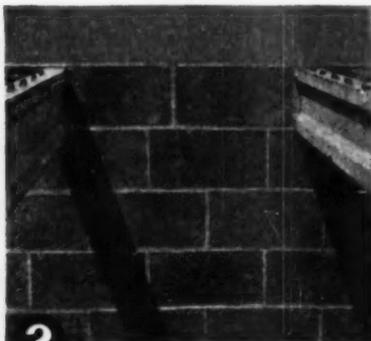
Here's how you build a PRECAST JOIST CONCRETE FLOOR



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2 Install bridging between the ends of joists at supports. The bridging may be concrete masonry units as shown in photo above, short precast beams or cast-in-place beams.



3 Insert spreaders on about 30-in. centers to support forms. Spreaders usually are hung with wire hangers. After the forms are removed cut ends of wire hangers off flush.



4 Lay sheathing or plywood forms over spreaders. Allow for expansion if the wood is dry. Place conduits for plumbing, heating and wiring and then thoroughly oil the forms.



5 Set insulation around outside edge of floor and then install reinforcement consisting of either (1) wire fabric or (2) steel bars placed at right angles to the precast joists.



6 Place properly proportioned and mixed concrete. Spade or vibrate the mix, compact it with wood float, finish with steel trowel. Moist-cure thoroughly, then remove forms.

For forming and bridging sketches, design tables and other data on building precast concrete joist floors and roofs write for new 24-page book. Free but distributed only in U.S. and Canada.

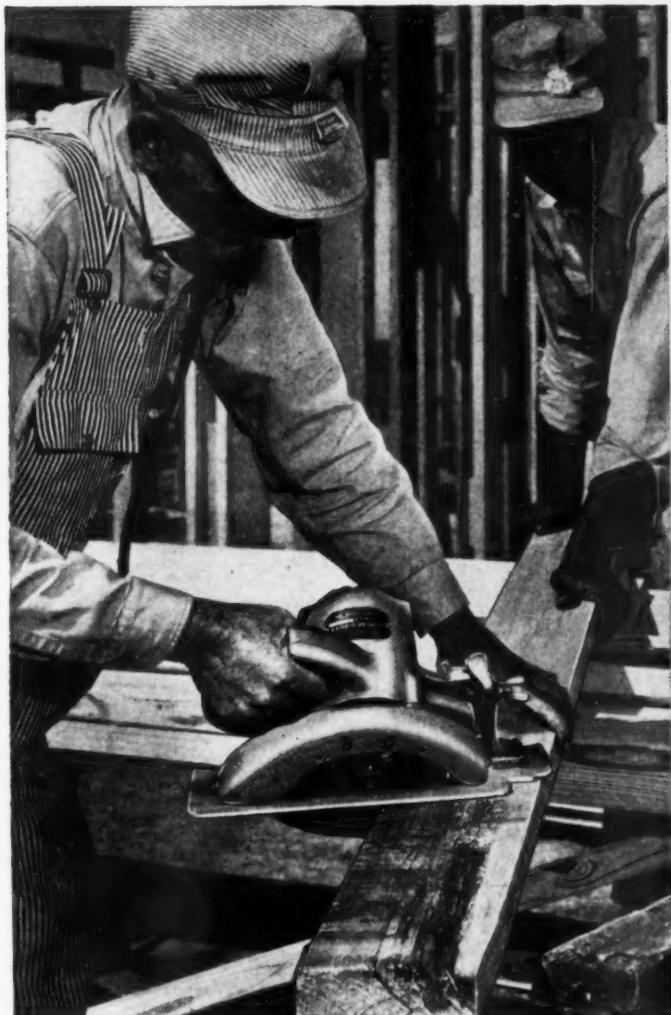
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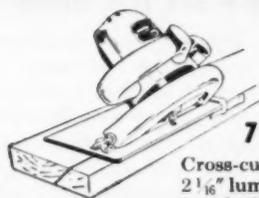
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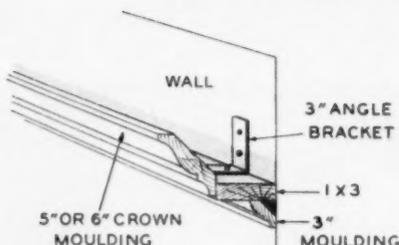
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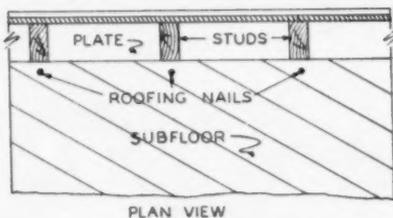
(Continued from page 150)

an easy-to-build cornice for indirect lighting



To build an attractive cornice for indirect lighting, fasten a piece of 1x3 to the wall with 3-inch angle brackets approximately 12 inches from the ceiling. Beneath the 1x3, nail a piece of 5- or 6-inch crown molding on the front edge of the 1x3. Fluorescent fixtures fit in the channel created, but should be placed before the crown molding is nailed into place to make for easy installation.—M. G. Miller, So. Williamsport, Pa.

use roofing nails to mark wall studs



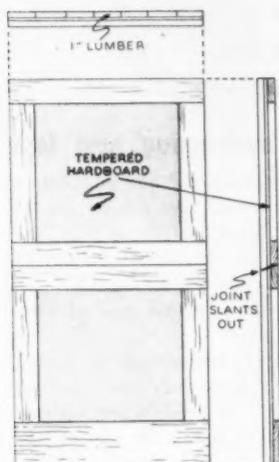
Marking studs before plastering eliminates a lot of hunting for them later on. Tack a roofing nail on the subflooring before each of the studs. Then, when plastering is done, each nail will indicate where each stud is located. When the plaster has dried, pencil marks can be placed on the plaster below the baseboard line to indicate placement of studs. Roofing nails can then be removed.—H. E. Hermanson, Jewell, Iowa.

how to make a 2x4 post stronger

When we need a post, we frequently use two pieces of 2x4. Considerable improvement in its load-carrying capacity is achieved when two strips of 24-inch shingle are cut 4 inches wide and are inserted between the ends of the 2x4's to wedge them apart. The center of the 2x4's is nailed tightly together. Any load placed on this post will cause the 2x4's to buckle inward toward each other. The greater the load, the greater the support each 2x4 offers the other.—J. E. Burbank, Stamford, Conn.

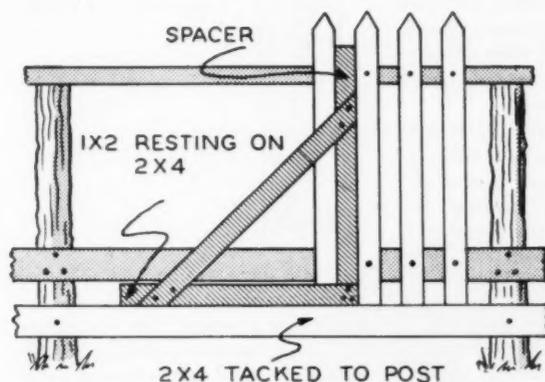
ideas for the man on the job

no braces for this burn door



Upon a frame of 1-inch lumber is nailed a sheet of tempered hardboard. Nail 1-inch lumber on the exterior side of the door with the hardboard forming a base. Tongue and groove lumber is therefore not needed as an exterior surface and the hardboard backing insulates the door. The door may be made in one section, then sawed through at a slant as shown.—A. N. Nelson, Kansas City, Mo.

nailing pickets quickly and accurately



Fence pickets are easy to apply if you use a wooden spacer like the one shown. The spacer is made of three strips of wood. One strip is nailed at perfect right angles to another strip and then is braced with a third board.

To start, nail the first picket perfectly plumb to the fence. Tack a 2x4 to the fence posts close to the ground. Be sure that the 2x4 is perfectly level because its position will determine the height of each picket. The triangular spacer is then held so that the bottom piece rests on the 2x4. Hold the picket being applied tightly against the spacer while nailing it on. In this way, all pickets will be at the same height, accurately spaced, and perfectly plumb. No measuring is necessary.—H. E. Fey, New Braunfels, Texas.



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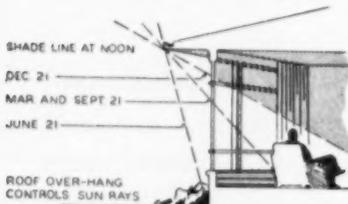
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- Planning
- Concrete Work
- Framing
- Roofing
- Heating and Plumbing
- Air Conditioning
- Wiring
- Insulation
- Interior Finish
- Power Equipment

solar controls

We are building a one-story home in Allentown, Pa., with large windows facing south. Do you have any information on the proper roof overhang for this latitude to shade these windows from the summer sun. The house actually faces 20 degrees toward the east.

B. W., Allentown, Pa.



The twist of the house facing to the east makes it impractical to completely shadow the window during the entire day.

For a protection period of April 11 to September 1, the following overhangs would afford complete shadow after the hour given. Partial protection, obviously, is afforded before the hour noted.

OVERHANG

6'-8"
5'-8"
4'-8"
3'-8"

HOUR

9:20 a.m.
9:20 a.m.
11:00 a.m.
noon

Extension of the north-south end wall on the east side is desirable.

Small Homes Council,
University of Illinois

a remedy for "dusting"

My concrete floor was installed in sections. As a result, portions of the floor create a dust which is tracked into other rooms. What can I do to overcome this?

A. R., Jr., Easton, Pa.

"Dusting" may often be removed with pads of steel wool attached to a scrubbing machine. After removal of this material, the surface should be thoroughly cleaned, then allowed to dry and one of several hardener treatments applied.

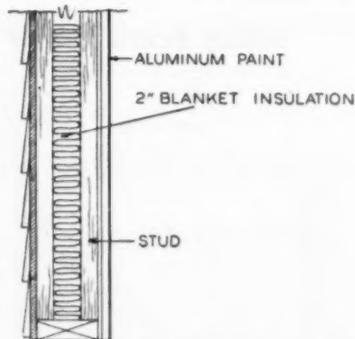
It should be pointed out that a properly built concrete floor will not "dust." These surface treatments will help to eliminate "dusting" on a floor that is structurally sound and reasonably well constructed.

overcoming heat loss

Before insulating and re-siding a house, I would like advice on the following questions:

1. Can the insulation be put in with the vapor barrier "out?"
2. Should a special type of insulation be used?
3. Should some sort of thin board (1/8-inch hardboard) be used as "sheathing," or would a heavy paper (Sisalkraft) over the studs be enough?

F.H.H., Juland, N.J.



While there are several solutions to this problem, if I had to do it, I would use a blanket-type insulation, and wood sheathing and replace the siding. I would take precautions to investigate the desirability of installing a vapor barrier on the warm side of the wall. With the house already plastered, I assume that something in the way of aluminum paint or paper on the interior walls would be the only possibility. The general character of the house, its location, type of fuel and sources of humidity are all factors and problems relating to condensation and have to be analyzed independently. It may not be necessary to provide vapor barriers, but it should certainly be investigated.

(Continued on page 159)

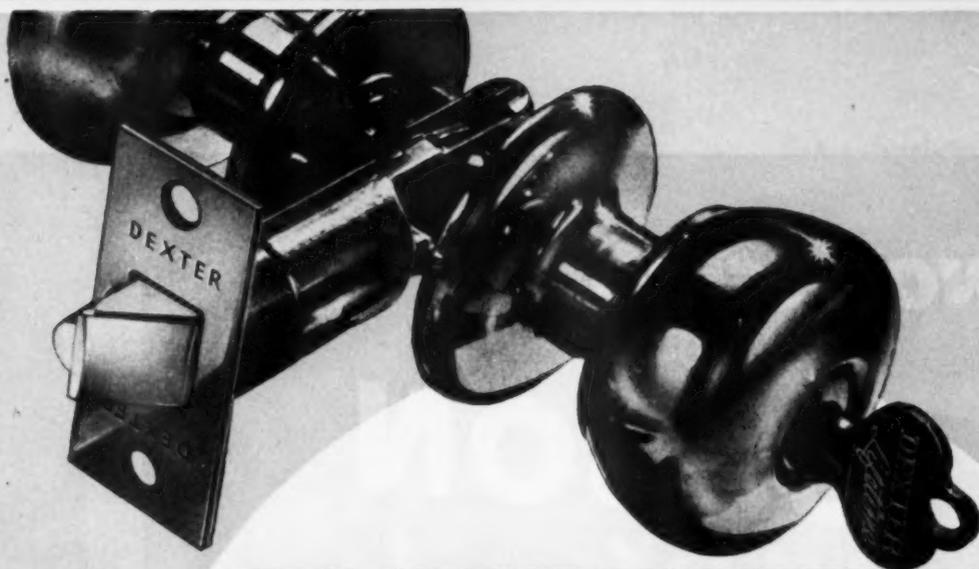
GOT a problem you haven't solved? Can't solve? Haven't the time to solve?

Have you solved a problem with an answer you aren't sure of? Are you doing some particular job—big or little in a way that you think might be improved?

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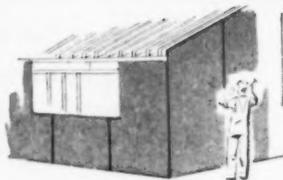
THE UPSON COMPANY, 919 UPSON POINT, LOCKPORT, N. Y.
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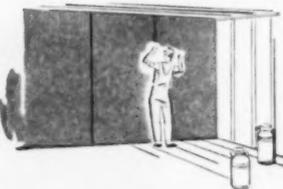
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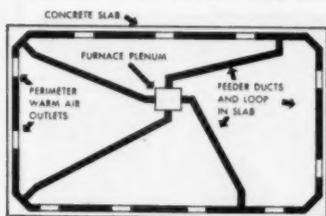
ask the experts

(Continued from page 156)

Limits of perimeter heat

How far can you force warm air efficiently when using perimeter-type heating? Is it recommended to use only registers for return air in a six-room house?

O.J.S., Oslo, Minn.



PERIMETER LOOP SYSTEM WITH FEEDER AND LOOP DUCTS IN CONCRETE SLAB

There are several different types of perimeter heating systems.

The type for a concrete slab house is the perimeter loop system in which a loop duct is embedded in the slab around its entire perimeter. Warm air from the furnace is carried out through feeder ducts and delivered into this loop. Registers receive the air from the loop and discharge it upward across the cold surfaces of the rooms. For this type of system the length of perimeter loop duct supplied by one furnace should not exceed 210 running feet. This type of system, which uses 6-, 7- or 8-inch pipes, may have a trunk duct supplying several feeders. In this case, the association recommendation is that the trunk should be insulated and that it should not be more than 50 feet long. The feeders which are not insulated should be not more than 30 feet long. Hence, if you had an uninsulated feeder duct connecting to the end of an insulated trunk, the total distance from the furnace out to the loop measured along the trunk and feeder should not exceed 80 feet.

Regarding the use of only one return air duct in a six-room house, this is quite common practice with perimeter heating when the floor itself is warm. The floor is considered to be properly warmed if it is a concrete slab floor with warm air ducts embedded in slab. The floor of a house built over a crawl space is considered a warm floor if

the ventilator openings in foundation walls are closed during winter and crawl space is warmed to temperature of about 70 degrees. Floor of house with a basement is considered warm if temperature of air at ceiling line of basement is approximately 70 degrees.

National Warm Air Heating and Air Conditioning Assn.

cause of paint failure

I have been building some houses with insulation sheathing and cedar clapboards and have been having trouble with paint peeling.

If I used furring strips under clapboards, would this help?

R. J. M., Weedsport, N.Y.

There are several reasons which may cause paint failure. One is due to the moisture within the building transmitted through the sheathing where it condenses on the interior surface of the siding. Others may be improper application of paint or use of improper primers and paint.

Your difficulty is due to the moisture within the structure. The correct method is to apply a good vapor barrier directly underneath the interior finish. This should be applied upon the inside surface of the studs, and should be carefully lapped at the top and bottom plate and on the studs. The vapor barrier should be some type of duplex paper with a layer of asphalt between.

I do not recommend furring out the siding as this provides an air space between the sheathing and the siding which must be open at the top for breathing to be beneficial.

For houses that have been constructed and are now in service which have this difficulty, I would recommend that the interior surfaces of all exterior walls be painted with a vapor sealer-type paint. A rubber base paint or a paint with a high varnish vehicle will provide a good vapor barrier. Two coats are recommended in order to insure a good seal plus the interior finish.

Prof. C. E. Lund,

University of Minnesota

(Continued on page 162)

for suburban homes beyond the water mains



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● You'll do your customers a real favor if you select F & W Water Systems for their new homes. *First*, they're proven by 87 years of successful, dependable service on farms and homes throughout the nation. *Second*, capacity for capacity and depth for depth they're most efficient and cost less to operate! *Third*, F & W precision manufacture, advanced design, and non-corrodable materials assure longer service and lowest cost per year. *Fourth*, there's practically no upkeep, and F & W's exclusive "Speedichange Rotary Seal" permits pump servicing without disconnecting pipelines or disassembling pump. In addition, each pump is individually tested before leaving the factory. So . . . when you need "Flowing Water," remember F & W!

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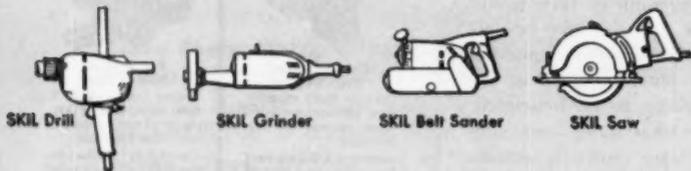
says **Thomas O'Donnell**, field superintendent,
Construction Company of Maryland,
Baltimore, Md.

"Our work really puts tools to the test," claims Mr. O'Donnell. "We have projects going all over the nation—dam tunnels, city water tunnels and under-water tunnels, for example. We give SKIL tools excessive abuse, and they're going all the time. Yet we have a minimum of service needs with them.

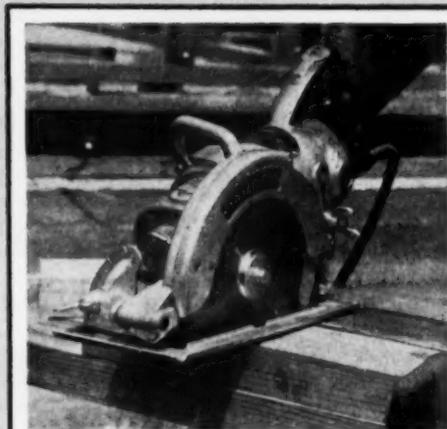
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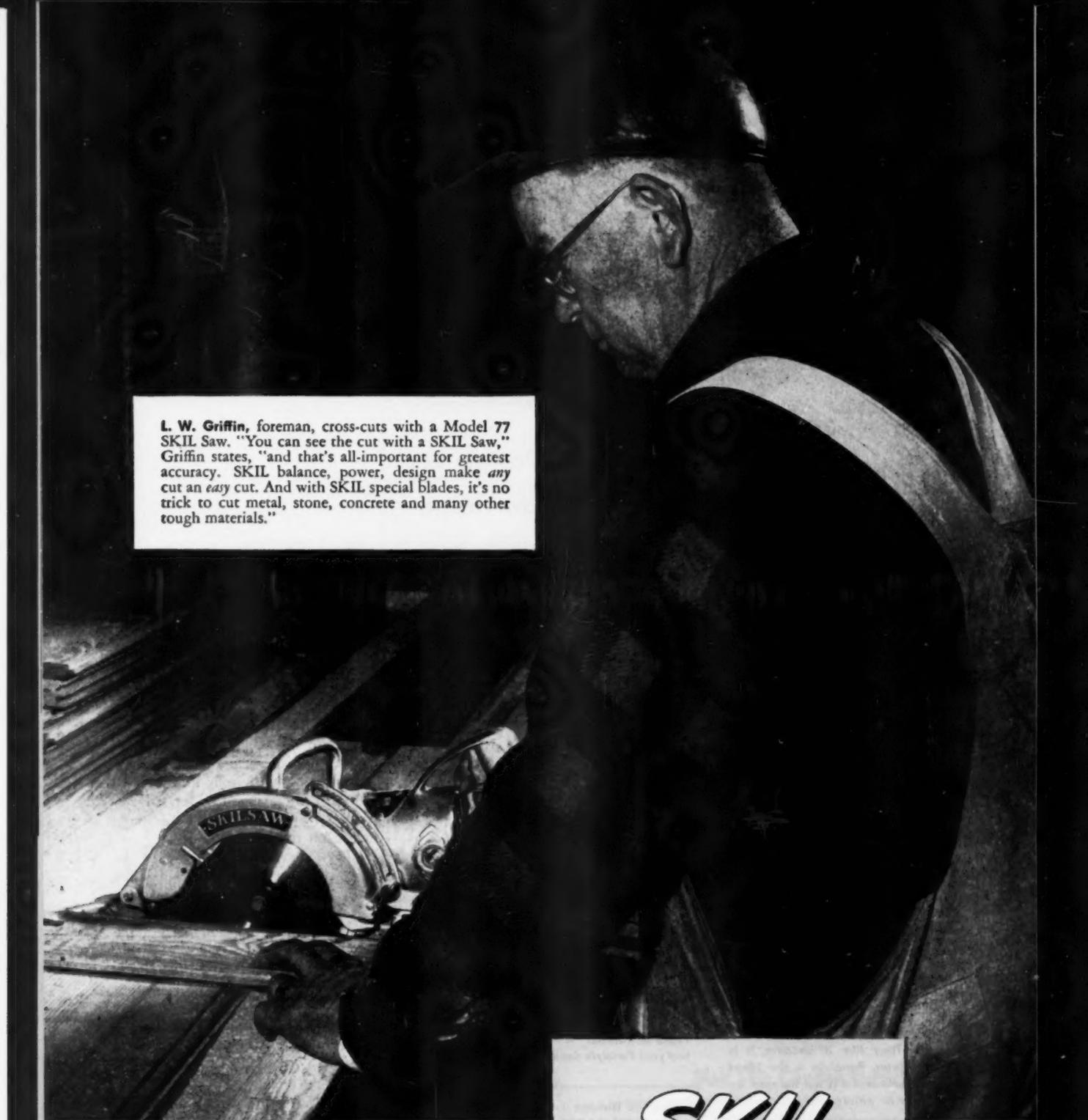
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Install It On-The-Job—New, heavier Panelyte plastic laminate does not require gluing to plywood—cuts easily with simple hand and electric tools.

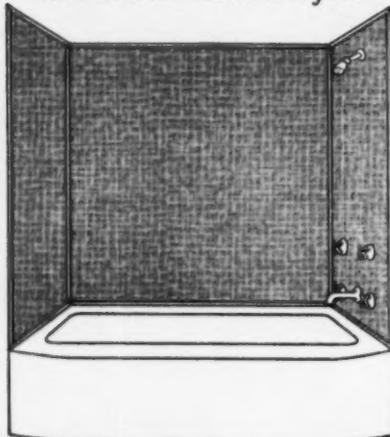
Faster Production—Less than 2 hours to fit and install tub alcove (illustrated). Panelyte lends itself to mass production of sink tops as well.

No Expensive Backing—Panelyte comes in wallboard thickness—a full 1/10 inch. Use over any reasonably smooth surface for kitchen and bathroom walls—for counter and vanity tops.

No Waste—4' x 10' standard size—cuts to 5' tub alcove—large sheet size—fewer joints—more one-piece surfaces.

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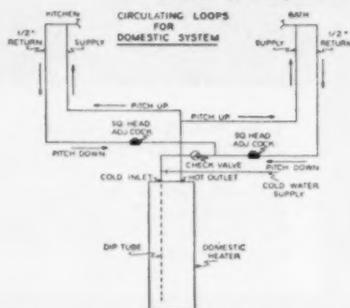
ask the experts

(Continued from page 159)

circulating the hot water

Can you furnish a detailed description of a circulating hot water hookup to use when the bathroom and kitchen are quite far apart?

O. J. S., Oslo, Minn.



To make a gravity circulation system work properly, it is necessary that the horizontal piping be sloped to aid in the movement of water. At the same time, squarehead adjusting cocks are provided so that circulation will not be too rapid, and so that it will be even in the two loops. My suggestion is that you run a 1/2-inch return line and pitch both supply and return 1/4-inch to the foot—the supply lines pitched upward and the return lines downward. All pipe should be smooth and clean on the inside.

Particular attention should be given to the method of connecting the return line to the tank, as it is a common source of trouble. It should always be brought into the cold water as shown. Use a swing check valve mounted horizontally.

A. O. Smith Corporation

a lift for patients

The auditorium of our church is about 12 feet off the ground so we have a lot of steps. There is a side entrance which has a porch four feet by seven feet. I would like to install some kind of a lift for wheelchair patients. Maybe you can refer me to someone who handles such.

F. G., Bowie, Texas

Since the distance to be traveled is only 12 feet from the ground to the auditorium floor level, we would suggest an oil hydraulic-type passenger elevator.

Shepard Elevator Co.

(Continued on page 164)

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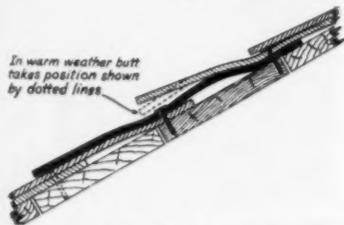
ask the *experts*

(Continued from page 162)

facts about shingles

I use 1x8 sheathing; I staple down 15-pound felt paper and finally shingles (210#). Although each piece is carefully laid and secured (four nails to the shingle), a few days later, following a great deal of wind, I find that the shingles have bumps or bellies. Also, the felt paper has developed rolls.

C. D., Camden, N. J.



In warm weather butt takes position shown by dotted lines.

The asphalt shingles, being flexible and of low resistance, are easily pulled or pushed out of shape, and they merely reflect the changes in size and in position that take place in the sheathing boards to which they are firmly secured. There is no other possible explanation to fit the evident facts.

Asphalt Roofing Industry Bureau

what is best?

1. We are planning on painting Sheetrock walls of shower stall in color, and then finishing with a coat or two of some type of waterproof varnish. What type paint and varnish would you recommend?

2. We are putting plywood paneling on walls. What type varnish would you recommend over the color-toned Rez?

J. P. R., Sheridan, Mont.

1. We recommend an enamel finish without final coats of varnish, for the Sheetrock in the shower stall. First apply a primer, then an enamel undercoat and two coats of enamel. Sand lightly after the first coat of enamel. High-grade interior enamels designed for bathrooms and kitchens do not need protection with spar varnish. Besides, the varnish would impart a more or less amber color to the finish.

2. You can put a coat of dull varnish over the color-toned Rez on the plywood.

National Paint, Varnish and Lacquer Assn., Inc.

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Name.....

Street.....

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

ask the experts

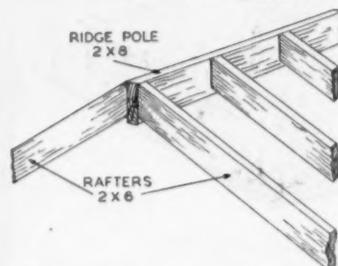
(Continued from page 164)

framing the roof

I would like your opinion about a problem in roof framing, in particular, ridge pole for a simple roof.

I contend that after the sheathing is on a roof, the strength contributed by the ridge pole is negligible. To my mind the ridge pole is only a convenience while framing the roof. However, other carpenters differ with me on this question and say that the ridge pole is an important factor in the strength of the roof.

H. B. P., Langhorne, Pa.



Regarding your inquiry about the use of a ridge pole in framing a roof, obviously its use is a matter of convenience while framing the rafters. However, while the sheathing does add to the strength of the roof, it is my personal opinion that the ridge pole tends to insure the straightness of the ridge of the roof, and, in the case of long spans, this becomes increasingly important.

In my mind there would be less tendency for a roof to sag on the ridge line where a ridge pole was used. For this reason, it is better to use a two-inch member in lieu of a one-inch member which is sometimes used for this purpose. The additional cost is justified by the added stiffness and straightness given to the roof framing.

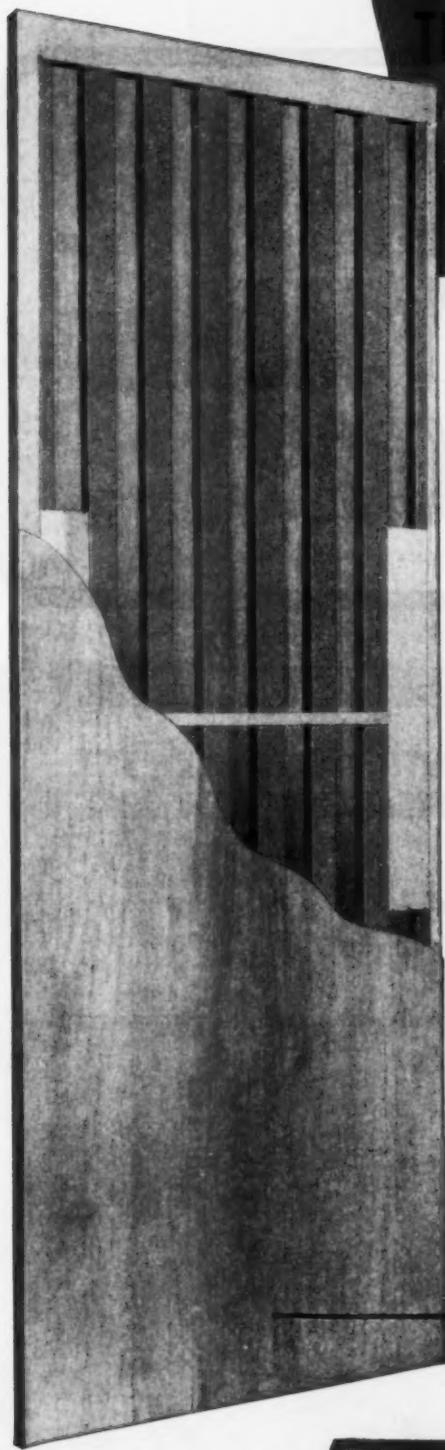
truss member sizes

I am planning on building a store size 40x60 feet with a flat built up roof. I would appreciate information on the sizes of members for a truss to span the 40 feet. Can you recommend a good text on truss design?

M. A. B., Mentor, Ohio

Your problem, being a common one would be covered in one of the publications put out by companies that fabricate roof trusses. The Teco Timber Company, Washington, D.C. is recommended.

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...has a simple, sound assembly for maximum strength and durability yet is made to meet the price market.

This adaptation of the hollow-core principle meets the demand for high quality and *low cost*. *This is another engineering achievement by HASKO for the builder who needs better flush doors.* It is truly an economy door of outstanding quality.

LOW COST The HASKO "MOBILE" FLUSH DOOR is priced competitively, and is made and backed by a responsible manufacturer.

QUALITY GUARANTEED The HASKO "MOBILE" FLUSH DOOR carries the same guarantee and responsibility as the famous Hasko Arch-Kor Flush Door. It features "balanced" construction, and the warp-resistant, sound deadening and proper ventilation characteristics engineered into all Hasko Flush Doors. Its frame is constructed of selected kiln dried lumber and allows a generous amount of stock for trimming, plus sturdy 3/16" thick face panels.

8-WAY HANGING SPEEDS INSTALLATION Large 3x25 (5x25 including frame) double lock-blocks provide for fast, easy 8-way hanging of the HASKO "MOBILE" FLUSH DOOR.

FLEX-CORE INCREASES LIFE, ASSURES PERMANENT BEAUTY The entire core construction provides complete support of the sturdy (3/16" thick) face panels. An additional feature of the door is in the use of the "Flex Core" core ribs. These provide a resiliency and flexibility that give the face panels an unusually high degree of resistance to denting from heavy impacts, or damage from warping, and assure great durability.

TESTED Thorough tests prove durability. The HASKO "MOBILE" FLUSH DOOR has withstood kiln tests of as high as 48 hours at 170 degrees. The Hasko name means sound construction, high quality, expert design and craftsmanship.

WRITE today for the special HASKO "MOBILE" FLUSH DOOR Bulletin. Orders will be filled in the sequence in which they are received.



HASKELITE MANUFACTURING CORPORATION
Grand Rapids 2, Michigan



**DON'T INSTALL
ANY MORE
LOCKS!**

UNTIL YOU'VE SEEN THE
GREAT NEW *LOW COST*
CORBIN
Guardian



NO MATTER WHAT locksets you're installing now, you owe it to yourself and your customers to see the new Corbin Guardian locks. These locks are unbeatable for economy and ease of installation . . . *unmatched* in their price class for beauty, for trouble-free operation, for the prestige that the name "Corbin" means on a lock.

Inside and out, the Corbin Guardian was designed and built to bring a standard of quality *never before known* in the low-price field.

We know your time is valuable. But . . . it's *worth your while* to visit your Corbin dealer and see these new Corbin Guardian locks. We firmly believe they are the best value in the low price class . . . and we back up that statement with a guarantee of our workmanship.

See your Corbin dealer . . . soon!



P. & F. CORBIN Division
The American Hardware Corporation
New Britain, Connecticut

Corbin also makes DEFENDER standard duty cylindrical locks, heavy duty cylindrical locks, Unit Locks, mortise locks, and a complete line of builders' hardware.

- It's in the lowest price class!
- 2-hole installation — easy, economical!
- Guaranteed by Corbin, makers of the world's most widely-used builders' hardware!
- It's a trade name your customers know and trust!



No other Low-Cost Lock offers so many Quality Features!

- Solid Brass, Bronze or Aluminum trim
- Handsets from either side . . . no screws in knob or plate
- Fully reversible to fit any door
- Tool-free, self-aligning installation
- Can be keyed alike or master-keyed
- Fits all doors 1 1/2" to 1 3/4" thick



Here's Proof

that *Dura-seal* provides
the greatest
weatherstripping efficiency!

Send now for a free copy of "Facts On Weatherstripping"! It clearly analyzes two important weatherstrip tests, one by the University of Minnesota for the Weatherstrip Research Institute; the other by Hunt Laboratories for Zegers, Incorporated. It gives actual figures on fuel savings in various sections of the country . . . compares various types of weatherstripping . . . shows you why Zegers Dura-seal reduces air infiltration more than any other equipment. It's a folder that will be of interest to all . . . home owners, prospective home owners, builders, sash and door jobbers, retail lumber dealers, architects and weatherstrip contractors. Write for your copy today!

Zegers Incorporated,
8096 South Chicago Ave., Chicago 17, Illinois.

ZEGERS

Dura-seal

COMBINATION METAL WEATHERSTRIP • SASH BALANCE

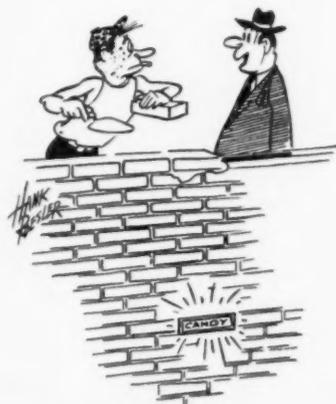


Dura-seal's one piece jamb member has a concave back surface, providing a desirable flexibility which maintains a constant air seal and smooth window operation even when the sash expands or contracts due to changeable atmospheric conditions.

**No. D-104
cabinet as a
ROOM SEPARATOR**

A storage cabinet placed at right angles to the kitchen wall provides partial separation of dinette from kitchen in the Trendmaker house built by William Blackwell of San Francisco in his Bel-Aire Estates project.

The cabinet is composed of three units: a lower cupboard which stands counter-high; a 17-inch pass-through; an upper cabinet which is literally free-standing except for end support. The storage facilities of the floor cabinet face the dinette, and the upper cabinet, the kitchen. Each is equipped with plywood doors with metal pulls on the surface and concealed butts at top and bottom of sides. The unit complements both kitchen and dinette.



"SEEN ANYTHING OF A BOX OF CANDY I BOUGHT FOR MY MISSUS, JOE?"

AMERICAN BUILDER'S BETTER DETAIL PLATE

Detailed by K. Roderick O'Neal, A.I.A. for American Builder

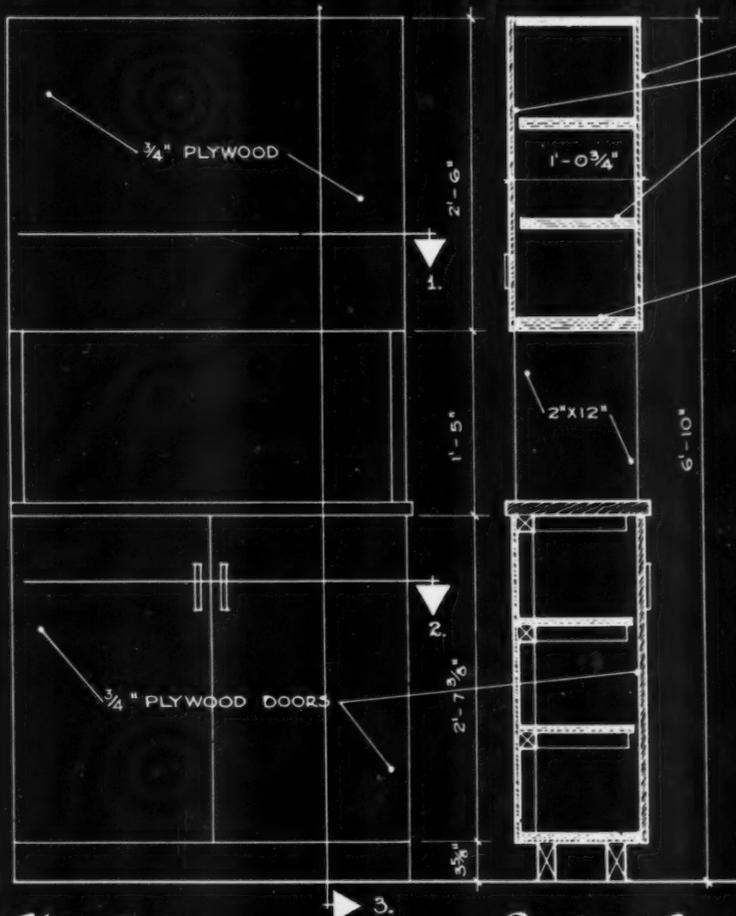
NO. D-104 KITCHEN CABINET DETAILS...



Section 1..



Section 2..



Elevation..

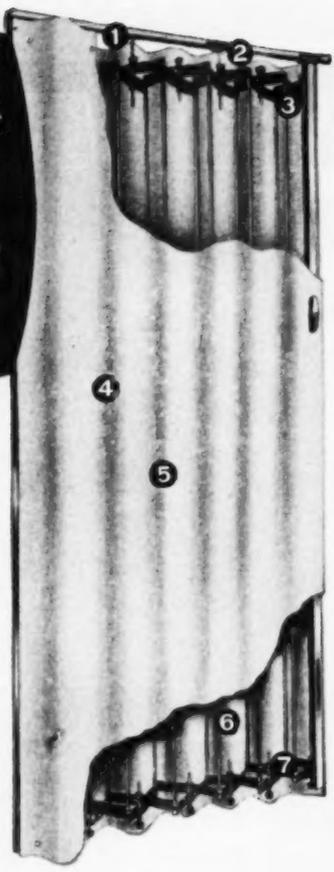
Section 3..

- 1/2" PLYWOOD
- 3/4" PLYWOOD DOORS
- 3/4" PLYWOOD SHELVES
- 1'-0 3/4"
- 2"x12"
- 6'-10"
- 3/4" PLYWOOD SHELF



NOW!
 Have the Sales Advantage
 of a Quality Folding Door
 yet actually
 Cut Construction Costs!
 with
"SPACEMASTER"
 folding door

Now you can be one of the hundreds of builders who spark house sales with folding doors—and *actually cut your construction costs* at the same time. With "Spacemaster," by the makers of famous "Modernfold" doors, you *save on initial cost*, because "Spacemaster" usually costs less than wood doors and necessary extras... you *save on preparation costs* because you can eliminate trim and wood casing... you *save on installation time*, because "Spacemaster" goes up with 8 screws in 10 minutes... and you *save on labor costs*, because you can eliminate fitting, mortising, planing, sanding and painting. With "Spacemaster" you get all these advantages—and *quality* too.



check these **SPACEMASTER** quality features!

- 1. **Shallow metal track**, covered when door is closed, almost invisible when door is open.
- 2. **Quiet, "sure stop" slides.**
- 3. **Balanced Hinge Construction**, both top and bottom for smooth operation.
- 4. **Vinyl-coated, heavy-textured fabric covering.** Durable, fade resistant, easy to wash with soap and water.
- 5. **More folds per opening** for better appearance.
- 6. **Vertical steel rods**, two on each hinge, welded, not crimped.
- 7. **Compression Springs** at bottom of door to equalize fabric tension.

Sizes: Two heights; 6' 6" and 6' 8½". Three maximum extension widths; 2' 6", 3' 0" and 4' 0". Doors can be used as pairs.
Color: Popular "Decorator Gray," that blends easily with any color scheme.



here's how easy it is to install "Spacemaster"!

- Step 1:** Cut drilled track to opening width. Mark and drill holes in header.
- Step 2:** Slide track onto door. Lift into opening and insert screws.
- Step 3:** Screw 4 spring-steel clips to jamb. Snap jamb post over clips. That's all. Average tested time for entire operation—11 minutes.

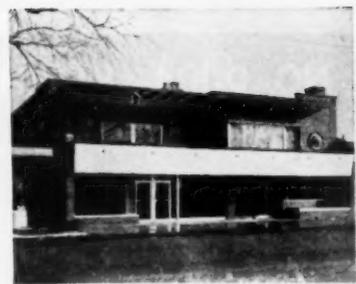
Find out how you can spark sales with "Spacemaster." See your building supply dealer or local "Modernfold" distributor. Clip coupon for more information.

SPACEMASTER folding doors
 by
modernfold
 NEW CASTLE PRODUCTS
 New Castle, Indiana

New Castle Products
 P. O. Box 558,
 New Castle, Indiana

Gentlemen: Give me full information on "Spacemaster" doors.

Name.....
 Company.....
 Address.....
 City.....County.....State.....



The relation of the apartment above with the store is indicated in complete view of the front

No. G-47
store and apartment
work to mutual
advantage of both

In the new office and apartment building for the Klarich Construction Company, Chicago, Illinois, the designer laid out the building, especially the second floor, with particular consideration for the physical surroundings. In order to take advantage of the grass and trees on the golf course across the street, the designer planned a large, open balcony across the front of the building. He further enhanced the view by making the front rail solid with the cap approximately three feet four inches above the finished second-story line. This gives the owner, who occupies the second-floor apartment, a measure of privacy and effectively screens the heavy traffic on the street below.

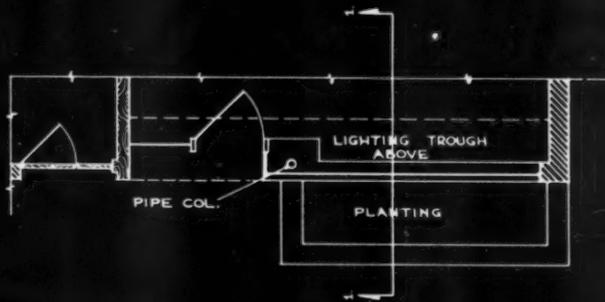
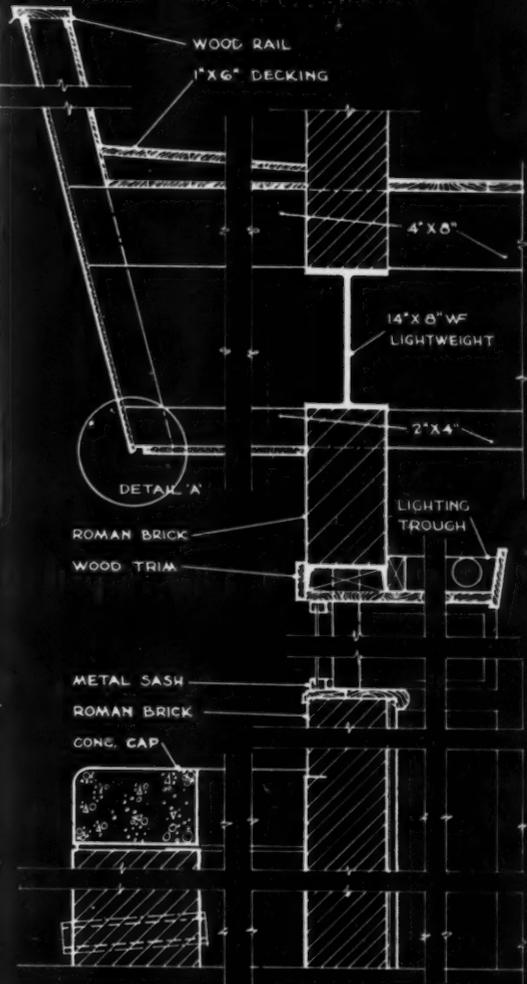
Front wall of the balcony, which splays out, is finished with smooth stucco and trimmed at top and sides with wood facing. Soffit of the balcony extends about six inches out from building line, with the front wall of the two stores and entrance to the third below set back three feet eight inches from the sidewalk line. Thus the balcony overhang provides generous shelter or shade.

The store fronts are a continuous expanse of metal trim, moldings and doors, with Roman brick, stone and wood used as surrounding materials. Large planter in front of the show window provides a contrasting accent to the store-front detail.

AMERICAN BUILDER'S STORE FRONT DETAILS

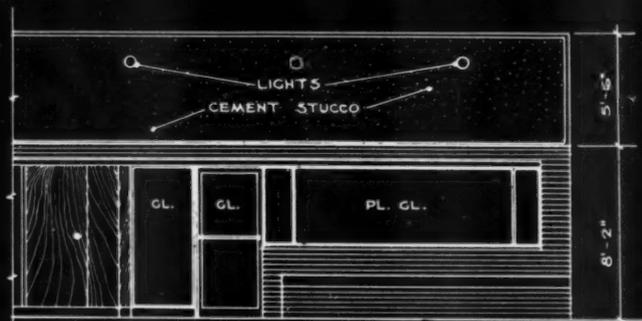
Detailed by K. Roderick O'Neal, A.I.A. for American Builder

NO. G-47 OFFICE ENTRANCE DETAILS...

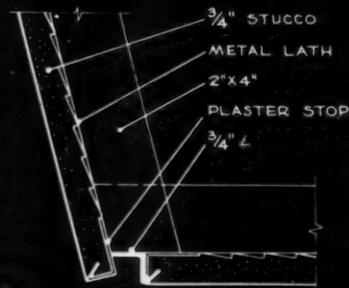


Plan ...

Section 1-1...



Elevation ...



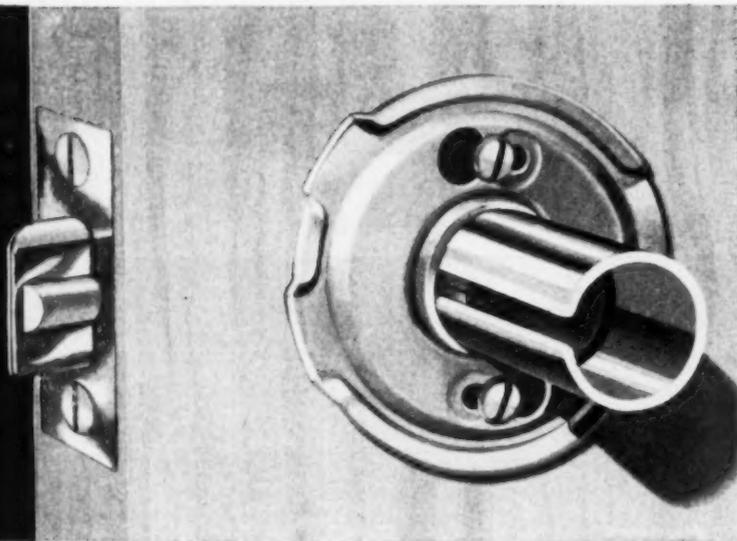
Detail A ...

contractors and builders tell us . . .

the Greatest Feature in Locksets!

KEY SLOT CLAMP PLATE

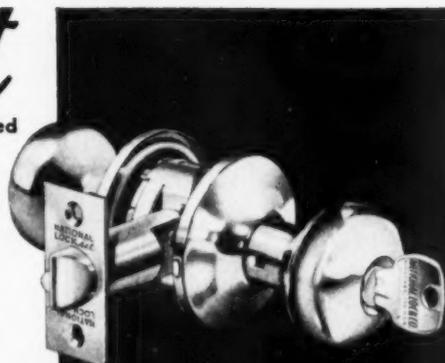
- ☆ Assures much faster, easier installation
- ☆ Aids doing a workmanlike job
- ☆ Provides pre-positioned screws
- ☆ Eliminates nuisance of lost parts
- ☆ Holds lockset firmly



available in both series "440" and series "410"

NATIONAL LOCKset
Patent Applied

Popular Key Slot Clamp Plate is one of the novel features of NATIONAL LOCKset which saves so much valuable time "on the job." Ask your wholesaler for an installation demonstration. It will prove to you that NATIONAL LOCKset provides a much faster, easier installation. Sell Series "410" as your deluxe line for discriminating people. Sell Series "440" as your budget-priced lock for every home in the block.



Buy from
your wholesaler



distinctive hardware . . . all from 1 source



NATIONAL LOCK COMPANY

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MERCHANT SALES DIVISION

AMERICAN BUILDER

MAKE MORE

Profits

WITH

Challenger

STAINLESS STEEL

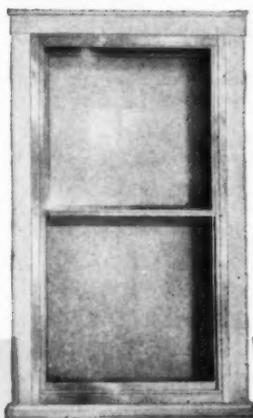
Combination SCREEN and

STORM DOORS



- Because Challenger doors create a better first impression . . . and longer lasting satisfaction
- Completely equipped with heavy duty door check
- Over 200 welded points in Stainless Steel frame for extra strength
- TUFFLEX soundproof insulation
- Expanding channels for custom fitting
- Mortise Stainless Steel lock, Stainless Steel hinges and reinforced push-bar

Announcing! Challenger Aluminum Combination SCREEN and STORM WINDOWS . . .



- Featuring Stainless Steel Triple Channels for smooth, friction-free sliding of glass and screen inserts
- Self-Storing — Easy Cleaning
- Draft-free ventilation
- Beauty — Savings

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complete information
on the Challenger
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how portable power tools help lick the housing shortage



PORTABLE POWER TOOLS IMPORTANT COST CONTROL FACTOR IN HOME BUILDING BOOM

1. Power saws have reduced wood-cutting operations from hours to minutes.
2. Belt sanders take time-consuming elbow grease out of counter, cabinet and other finishing.
3. Power drills, with augers for wood, stone, masonry, metal and composition materials, have been a contribution to all trades.
4. Electric floor sanders, with their companion tools, edgers, have helped speed occupancy of new homes. Have wide usages, too, in home remodeling.
5. The disc sander is another all-utility power tool. It is used for rough sanding, and, equipped with wire brush or cup

- grinding wheel, it quickly removes irregularities on concrete facing, etc.
6. Power saws, equipped with abrasive discs, speed cutting of tile, concrete, metals and composition materials.
7. The electric power shear has speeded up installation of chimney flashing and other sheet metal work.
8. Door fitting and cabinet work, among other jobs, have been accelerated by power electric edger-planers.
9. The oscillating sander is an ideal tool for smoothing gypsum wallboard joints.
10. Striking 3,600 blows a minute, the portable electric power hammer makes short work of hole boring in concrete.

COULD the postwar housing shortage have been relieved in the short time that was required if home builders had been limited to the use of tools available to them 35 years ago—that is, after World War I?

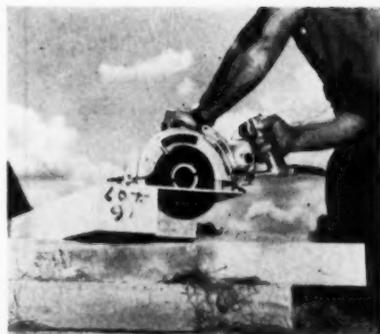
The unanimous opinion of builders to whom this question was asked is "No." If they had had to balance mounting postwar labor costs against jobs that were "done by hand" in 1918, there would have been inordinately high costs and no fast production-line schedules.

Here is a picture-graph showing how portable power

tools save time and money on the Gen-Mor project in Niles, Illinois. All of the tools are owned by H. Morton Robbins, the builder, who is also vice president of the Chicago Metropolitan Home Builders Association. The project consists of 225 ranch-type, two- and three-bedroom homes which sell for \$15,950 to \$18,905. The photographs were taken by the Skil Corporation, manufacturers of power tools. They bring into focus the important role electric powered saws, sanders, drills, tuck pointers, shears and hammers play in today's building.



Carpenter is using power saw to trim roof sheathing, reducing operation time from hours to minutes. The same saw, with its straight cut depth of 2 $\frac{3}{8}$ inches and 2 $\frac{1}{2}$ -inch depth cut at 45 degrees, is powered to cut masonry, metal, all types of composition material



The same portable power saw used for wood cutting is now equipped with a cutoff abrasive disc for cutting building stone. Resinoid bonded abrasive discs, reinforced with interwoven nylon cord, will "give," but not shatter. When cutting stone, saw offers a wet or dry cut, having a water-feed attachment for use where dust is a hazard



Portable power saw is also a handy tool for making quick and accurate pocket cuts in flooring for chimney, heating, ventilation or plumbing ducts

Time, of course, is always a factor, but the power saw also minimizes worker fatigue. This carpenter is expending little physical effort as he cuts fire stops for insertion between studs



Electric edge-and-surface plane is particularly suitable for fitting doors and for work on other jobs where accurate fitting is required. This 3-inch plane is adjustable during operation with a click lever which makes 1/64-inch adjustments from zero to a maximum of $\frac{1}{8}$ inch. It bevels right or left at 45 degrees. Reinforced, non-slip cog-belt drive minimizes shock load on the cutter head

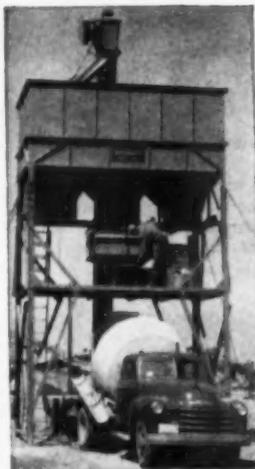


This short, "stubby" drill will allow work in restricted areas, such as between studs. With a $\frac{1}{2}$ -inch (steel) capacity, this close-coupled tool permits the attachment of 2-inch special auger to spindle after chuck is removed. Drill pictured is only 11 $\frac{1}{2}$ inches in over-all length and is only 3 $\frac{1}{2}$ inches wide



All-purpose, close-coupled drill, driving long, 1 $\frac{1}{2}$ -inch diameter auger bit, bores holes for plumbing and electrical installations
(Continued on page 178)

Lumber Dealers Everywhere . . .
 Add A Successful
READY MIX BUSINESS
 to your yard
 the **WINSLOW BINANBATCH**



This plant set-up results in additional profits—at a minimum investment.
 Used in smaller communities—where a reasonable total investment will bring satisfactory earnings.

Write for more details—Manufactured by
Winslow Scale Company
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WITH **Jiffy**
SAWHORSE BRACKETS

- NO NAILS
- NO BOLTS
- NO SCREWS

All welded construction. Use any 2x4s for legs and crossbar.

Set up or knocked down instantly. Easy to move from job to job, and easy to store.

For sale in most hardware and lumber stores. If your dealer cannot supply you, write us direct.



At Work



At Home



At Church

GRAND HAVEN STAMPED PRODUCTS CO.
 GRAND HAVEN, MICH.

power tools

(Continued from page 177)



Portable electric shear speeds up work on metal chimney flashing. Shear is used for straight and contour cutting, and cuts on radius as small as one inch. It cuts metals up to 16-gauge



Oscillating sander is being used here to smooth taped gypsum wallboard joints. This tool is also used in wood finishing operations, and, equipped with a felt pad, speeds rubbing, polishing

Three-inch portable electric-powered belt sander quickly sands kitchen counter-top into a smooth, level surface, free from sanding marks or ridges. Sander is equipped with vacuum dust collector



Equipped with a wire cup brush, the powered disc sander makes short work of mortar splashes and other dirt or debris

A powered floor sander is readying a new home for occupancy. Builders have wide use for tool, too, in home remodeling work



Portable electric hammer speeds boring of holes in concrete porch for installation of ornamental railing. Equipped with turning wrench and handling drills from 1/4 inch to 1 1/2 inch, tool is plugged into rectifier box which changes AC current to DC for magnetic-type hammer. It strikes 3,600 blows a minute

These glass "whiskers"

GIVE YOU A NEW AND IMPORTANT
REASON FOR USING

BESTWALL[®] WALLBOARD and WEATHER-SHIELD SHEATHING

NOW—the best gypsum wallboard and sheathing has glass "whiskers"—long, strong, incombustible threads of Fiberglas in the gypsum core that mean better nailing qualities, greater resistance to cracking, shattering and breakage in use, handling and service. An exclusive Certain-teed development, this Fiberglas reinforcing acts on the principle used in reinforcing concrete. It has 3 specific advantages:

1. BETTER NAILING

The new, improved Certain-teed gypsum boards nail better—and hold the nails better. Less brittle than ordinary gypsum board, they do not shatter under heavy hammering.

2. GREATER FLEXURAL STRENGTH

The increased resilience provided by the glass fibers means greater resistance to stresses and strains of handling in transit and in use. Laboratory tests show up to 80 percent greater resistance to shock.

3. EASIER HANDLING AND APPLICATION

These panels can be quickly scored and snapped, or sawed, and always break clean—especially important when trimming out for electrical outlets, etc. This means better, faster construction for builders . . . more satisfied customers.

Remember, *only* Certain-teed gypsum wallboard and sheathing are reinforced with Fiberglas. It's another "first" by the company that gave you famous Firestop Bestwall, the first gypsum wallboard with a 1-hour fire resistance rating in single-layer application. Write now for full details on this important new development.

*T.M. Reg. U.S. Pat. Off. by Owens-Corning Fiberglas Corp.



Photograph shows broken edge of Bestwall panel with new Fiberglas* reinforced gypsum core.

Certain-teed



Reg. U.S. Pat. Off.

CERTAIN-TEED PRODUCTS CORPORATION
ARDMORE, PENNSYLVANIA

Export Department: 100 East 42nd St., New York 17, N.Y.

SEPTEMBER 1953

Quality made Certain . . . Satisfaction Guaranteed

ASPHALT ROOFING • SHINGLES • SIDINGS • ASBESTOS CEMENT ROOFING
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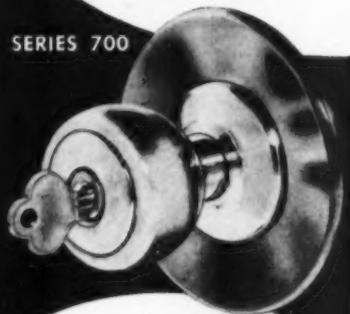
179

PRECISION BUILT

HARLOC

*Pacemaker
Shelton*

SERIES 700



A Superior
**KEY-IN-KNOB
LOCK SET**

Featuring

- Dual action opening with positive key stop
- Five pin tumbler cylinder
- Fast, easy cylinder removal for key change
- Free of die casting
- Quality — for a lifetime of satisfaction

**EASY TO INSTALL—
IN 3 EASY STEPS**

FOR INTERIOR DOORS

Pacemaker pre-assembled tubular sets. Featuring the Harloc fully automatic push-button in knob lock set for bath or bedroom doors. The ideal companion for Pacemaker Shelton Key-In-Knob.



Write for literature and prices.

**HARLOC
PRODUCTS CORPORATION,
NEW HAVEN, CONN.**

off-the-street parking— a builder's problem?

By **John F. McCarthy**
Attorney at Law



Building and zoning ordinances, obtaining information about them and procuring variations thereof, always have presented problems to builders.

These ordinances divide municipalities into districts and specify the types of use for each district. They are sustained by the courts if they bear some reasonable relation to the public welfare, health, safety and morals. The courts repeatedly have said, on questions of building and zoning, that they will not substitute their judgment for that of a city council or zoning commission, and will not act where the only difference is a varying opinion on the merits of a particular matter. In other words, the courts will set aside a building or zoning ordinance only where the ordinance is arbitrary and unreasonable.

For some time, urban communities have had the problem of traffic congestion and parking. This has become more serious since the close of World War II, as the number of vehicles on the street has increased substantially. Some cities have attempted to solve this problem by requiring that newly constructed or converted buildings make provision for off-street parking. The Building and Zoning Committee of the City Council of Chicago, after a study by its staff of experts, has just approved and recommended that the council pass such an ordinance.

This proposed ordinance applies to all types of new construction and all types of conversions, either those increasing the number of units, offices or apartments, or those increasing the capacity or use. The proposal requires a private garage or an open area, adequately improved, on the same lot as, or in close proximity to the building to be

served. The ordinance contains a detailed schedule of the parking facilities required for each type of construction. The following are a few examples:

1. For dwellings not over two stories in height for one, two and three or more families, one parking space for each family dwelling unit.
2. For apartment buildings not over three stories in height, parking spaces equal to 75 per cent of the dwelling units containing one or more bedrooms and equal to 50 per cent of the units without bedrooms.
3. For apartment buildings over three stories in height, parking spaces equal to 60 per cent of the dwelling units containing one or more bedrooms and equal to 40 per cent of the units without bedrooms.
4. For tourist homes, cabins, motels and trailer courts, one parking space for each sleeping room or suite or each trailer space.
5. For retail stores, one parking space for each 300 square feet of retail sales floor area over 2,000 square feet.
6. For industrial and manufacturing uses, one parking space for each four employees and for each vehicle used in conduct of business.

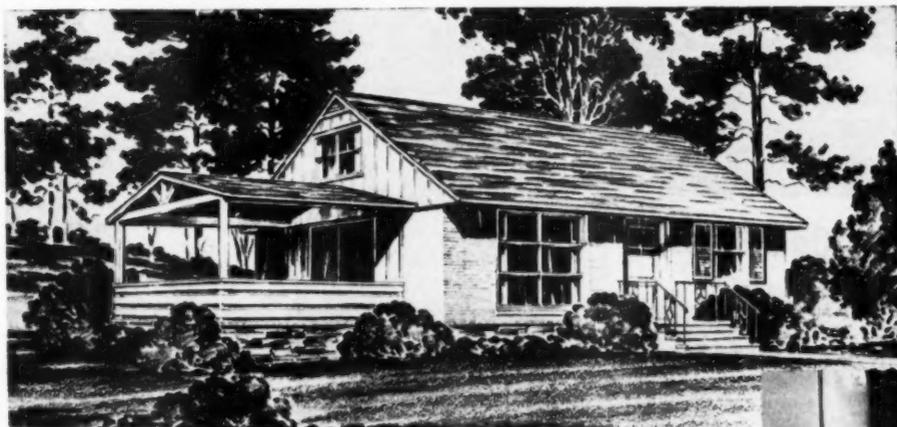
A few days ago, a builder was telling a story of how he almost bought a large tract of vacant land for development on which he could have built only a fence. The answer is that the local building and zoning ordinances had reserved that property for conservation purposes, but the builder did not know it until he had almost completed his deal.

Building, zoning and parking ordinances are necessary, but builders will continue to have problems with them. The requirements which they impose will continue to add to builders' costs and prices.

"MODERN LIVING" SOLD THESE ATLANTA HOMES WITH...

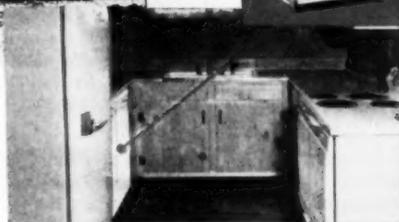
Hotpoint

Automatic Electric Dishwashers!



One of the beautiful Ridgewood Heights homes that include a 25-foot living room, two bedrooms, den or guest room, two full baths, porch, breakfast bar, and a roomy kitchen with a built-in Hotpoint Automatic Dishwasher.

Hotpoint's Automatic Dishwasher . . . the world's finest dishwasher . . . a built-in feature in Ridgewood Heights Homes.



High on a heavily wooded hill overlooking the valleys of Peachtree and Nancy Creeks in suburban Atlanta, the Georgian Village Corporation built these beautiful Ridgewood Heights homes—as a development of Etheridge & Vanneman Inc.

At a price of \$16,790, these 1475 square foot homes are completely air-conditioned, and include such features as Rusco steel windows, Ratox ventilated closet closures, recessed lighting fixtures, and Reynolds reflective insulation. But above all, the feature that created the extraordinary buying interest was the built-in Hotpoint Automatic Dishwasher.

Like hundreds of other builders all over America, the builders of Ridgewood Heights grasped the merchandising opportunity provided by Hotpoint Dishwashers, and

offered their buyers *real freedom from the most disliked household task—dishwashing*. No woman . . . or man . . . likes to wash dishes. So these smart builders are eliminating this distasteful chore by installing Hotpoint . . . the world's finest dishwasher. No wonder their homes sold so rapidly!

Additional optional equipment included the world's finest Hotpoint refrigerator, electric range, automatic washer, and automatic dryer. The homes were adequately wired to accommodate these modern labor-saving appliances.

Today's buyers are demanding better living in the homes they buy . . . *modern living, electrically*. You can provide it—thus enhancing your reputation as a builder of quality homes—with Hotpoint all-electric kitchens and home laundries.

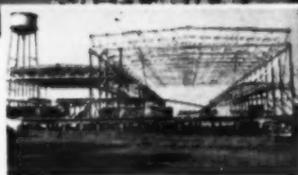
Hotpoint

... Pacesetter of Progress!

RANGES • REFRIGERATORS • DISHWASHERS • DISPOSALS® • WATER HEATERS
FOOD FREEZERS • AUTOMATIC WASHERS • CLOTHES DRYERS • ROTARY IRONERS • CABINETS • DEHUMIDIFIERS
HOTPOINT Co. (A Division of General Electric Company) 5600 West Taylor Street, Chicago 44, Illinois



Photographs show how engineered timber construction is used in Crossett's new mill building.



Crossett's New Oak Flooring Mill Demonstrates Efficiency and Economy of Wood Truss Construction

Crossett is taking its own recommendation by using wood construction exclusively in the new Crossett oak flooring mill. Construction shown above adequately meets load specifications — and at a substantial saving.

Architects, engineers and contractors find that timbers fit today's needs. Engineered timber construction withstands emergency winds and seismic loads. It resists combustion, free from the hazards of load-bearing collapse under extreme heat. It possesses all the elements essential to permanent construction.

Crossett timbers are engineered to specific stress values. Augmented with Teco ring connectors and grids, load bearings provide excess safety factors. Available in untreated, WOLMANIZED* treated and creosoted stock, they qualify under Southern Pine Inspection Bureau standards as well as Federal Specifications MM-L-75lb.

• Trade-mark, Reg. U.S. Pat. Off.

FOR FURTHER DETAILS, write Crossett to obtain specific information regarding your own designing problems. See for yourself how timber construction can answer many of your difficult design and building problems today.



JOIST TO TRUSS JOIST TO BEAM JOIST TO HEADER



CROSSETT LUMBER COMPANY
CROSSETT, ARKANSAS

182

Catalogs — and Manufacturers Literature

402—CONCRETE HOMES

—this new 32-page booklet in full color presents a variety of styles and sizes of concrete homes located from coast to coast. Floor plans, adequate descriptions and large exterior photographs of 23 homes are included. Advantages of concrete to builder and owner are presented in factual, down-to-earth language. Recommendations for concrete basements for utilitarian and recreational facilities also given. Portland Cement Association, Dept. AB, 33 W. Grand Ave., Chicago 10, Ill.



403—TILE FLOORING—

KenRubber tiles, in a selection of 22 patterns and five standard shades, are illustrated in their natural colors in this handsome, eight-page brochure. Rubber tile floor patterns are shown in actual installations. Standard tile sizes are 9x9 and 6x6 inches, in 1/8- and 3/16-inch thicknesses. One-inch wide "feature strip" adds variety to floor designs. Kentile, Inc., Dept. AB, 58 Second Ave., Brooklyn 15, N.Y.



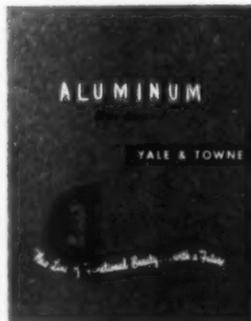
404—CUTTING TOOLS—

new 84-page catalog covers manufacturer's complete line of cutters for sash, doors, cabinets, furniture, glue and mitre lock joints; carbide tipped cutters for Formica; planer, jointer, moulding and shaper knives; panel-raiser cutters, band and circular saw blades; also sanders, polishers and planers and a full line of machinery and tools for woodworking and building operations. Woodworkers' Tool Works, Inc., Dept. AB, 222 S. Jefferson St., Chicago 6, Ill.



405—ALUMINUM HARDWARE—

four-page brochure presents company line of anodized aluminum hardware for schools, hospitals, other institutional and commercial use. Pictured are locksets, auxiliary mortise locks, door pulls, stops and holders, sash fasteners, pushplates, flush-bolts and letter-slot trim. Simplicity of line and finish of hardware is said to complement modern materials and color schemes. The Yale & Towne Mfg. Co., Dept. AB, Stamford, Conn.



♦ FOR MORE INFORMATION USE COUPON, PAGE 218

AMERICAN BUILDER



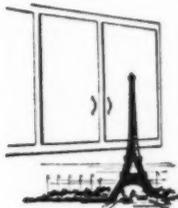
BUILDING BUY-WORDS ^{by} Herb Willson

An Advertising Page.

IF YOU ARE LOOKING for added sales appeal for your low cost housing, don't miss Cermak's Budget Bevel plastic wall tile! I find it hard to believe that this good looking tile is available at such a reasonable price and in a full range of colors. True, they are not in the same class as Cermak's quality line of Cleveland Bevel Edge tile, but once installed their appearance is identical. These 4 1/4 x 4 1/4" Budget Bevel Tiles are available in 24 plain and marblized colors. Their surface is entirely opaque. I'm sure you'll find that Cermak's Budget Bevel tiles will add many times their cost to the value of your new homes. For complete information, write to Cermak Tile Company, Inc., 4901 Brookpark Rd., Cleveland 29, Ohio.



BUILDERS HAVE TOLD ME that in many home selling situations these days, it takes an added "Pinch of Spice" to make a quick sale. By using Fremont Rubber Tile as one of your special feature items, you've created a floor that not only adds a colorful, luxurious appointment to dens, hallways, kitchens, baths, playrooms but "points up" the permanent beauty of the home. Fremont Rubber Tile installs quickly, is easy and inexpensive to clean, gives noise-free walking comfort, lasts many years. Available in 6" x 6" and 9" x 9" sizes, 3/32" or 1/8" gauge, in a wide selection of decorator colors. See your local dealer or write Fremont Rubber Company, Fremont, Ohio.



SOON TO BE ANNOUNCED is a new kitchen cabinetry "natural" finish . . . *French Provincial*. It's an exclusive by the cabinetry manufacturer, MUTSCHLER, who sells only complete custom-designed kitchens. And here's something of more than passing interest to builders and suppliers: The MUTSCHLER dealer organization works in cooperation with *Associate Dealers* . . . paying commissions on sold referrals, while doing all the "dirty work"—planning, installation and decoration.

Some of their territories also are open for direct franchise, with training school for your personnel. Write MUTSCHLER BROTHERS CO., Nappanee 13, Indiana, for information and details.

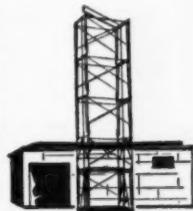
IN-SINK-ERATOR has just announced a new model food waste disposer made particularly for builders. It has all the famous, nationally advertised features that have made IN-SINK-ERATOR so popular with the ladies; continuous feed, automatic reversing action, simple self-service and a host of others. The Model 33 has a simple arrangement for installation in new buildings where rough-ins may be controlled. It's a money saving advantage that lets you feature a brand name, house selling product. The women I know really go for the time saving, step saving convenience of the IN-SINK-ERATOR. I've found that it has a magical way of helping builders to sell houses . . . fast. For complete information write In-Sink-Erator Mfg. Co., Racine, Wisconsin.



YOU DON'T HAVE TO SPEND a lot of money for an ACCURATE level! Take the David White light construction Model 8020 for example: RUGGED and EASY TO READ, this plain-type level comes complete with tripod, carrying case, rod, etc., for only \$38.00. Or, for a convertible-type level that accurately plumbs vertical lines, there's the David White Model 8022 (shown), which sells for \$74.00 complete. Write for FREE descriptive leaflet. Address

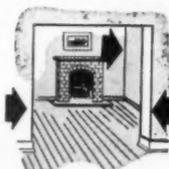
requests to the DAVID WHITE COMPANY, 318 W. Court St., Milwaukee 12, Wisconsin.

NEW FOR THE CONSTRUCTION BUSINESS, this SAFWAY light-duty material hoist accessory kit enables you to assemble a hoist from standard SAFWAY tubular steel scaffolding. Scaffolding forms the framework. The kit supplies the rest . . . cathead pulley assembly, platform guide and platform. Handles a maximum load of 2000 lbs. Can be built to height of 150 ft. when guyed. Sectional guides are furnished to fit either 5 ft. or 6 ft. 4 in. high end frames. Either the kit or scaffolding can be rented or bought from one of the 129 SAFWAY distributors near you. Write today for more facts. SAFWAY STEEL PRODUCTS, INC., 6246 W. State Street, Milwaukee, Wis.



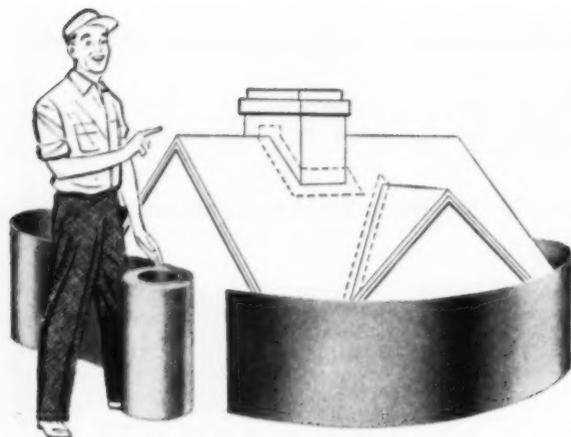
THERE'S MORE THAN MEETS THE EYE in kitchen quality, I learned from a trip through the plant of GENEVA MODERN KITCHENS. I saw how GENEVA doors and drawer fronts are sound deadened and painted both inside and out to prevent rust . . . drawers glide smoothly, quietly . . . cabinet shelves are wire and adjustable . . . finish is chip proof. And GENEVA manufactures the largest

variety of stock size wall and base cabinets in the industry . . . special cabinets on request. Learn how you can profit by selling GENEVA quality. For complete information write Dept. BG 2, GENEVA MODERN KITCHENS, Geneva, Illinois.



F.H.A. MAKES A CHANGE. A new directive, M.P.R., Revision No. 41, Paragraph 414-D, Sub-paragraph 5, provides that external corners of dry wall construction be finished with rust-resistant metal angles or other material acceptable to the underwriters. I am reminded that The Richkraft Company complied with M.P.R. even before it was issued. Their aluminum Richbead goes even farther with a Richbead for both exterior and interior corners. It's easy to

install on new or old construction and it comes in 1/2" and 5/8" sizes—8-ft. lengths, 25 pieces to the box. Ask The Richkraft Co., Room 928, 510 N. Dearborn St., Chicago 10, Ill.



PROTECT THAT ROOF with FOLLANSBEE TERNE METAL

The roofs of the homes you are building need the protection of metal—Follansbee Terne Metal—at all critical points. Valleys, flashings, gutters, copings, gravel stops are better—last longer—with Follansbee Terne Metal, the metal best suited for all weather-sealing jobs. Here's why:

It's Easy to Work—Ductile, Terne forms a tight bead . . . coating can't crack or peel . . . the tin and lead coating makes it easier to solder. Contraction or expansion are never serious problems with Terne!

Easy to Handle—Terne comes in convenient 50 ft. rolls without cross seams. Can be cut to any length.

Versatile—Terne can be used with any type of roofing material . . . flashes safely with other metals.

Permanent—Terne will outlast the life of the building, as proved by complete roofs of Terne still in good condition after 75 or more years!

Follansbee Terne Metal is tough, easily-worked, copper-bearing steel, hot-dip coated with a lead-tin alloy . . . supplied in 50-ft. continuous, seamless rolls, in widths of 4", 6", 7", 8", 10", 12", 14", 20", 24", or 28", and in 8, 20 or 40 lb. coating weights. Carried nationally by all leading sheet metal distributors.

REMEMBER . . . every roof needs Follansbee Terne Metal at the points of wear. See your sheet metal contractor today!

FOLLANSBEE STEEL CORPORATION

GENERAL OFFICES, PITTSBURGH 30, PA.

Cold Rolled Strip

Seamless Terne Roll Roofing

Polished Blue Sheets and Coils

Sales Offices—Chicago, Cleveland, Detroit, Indianapolis, Kansas City, Los Angeles, Milwaukee, Nashville, New York, Philadelphia, Rochester, San Francisco, Seattle, Toronto and Montreal, Canada.
Mills—Follansbee, W.Va.



FOLLANSBEE METAL WAREHOUSES

Pittsburgh, Pa. Rochester, N.Y. Fairfield, Conn.

Catalogs

406 — DRILL ATTACHMENT—four-page color folder gives complete step-by-step line drawing description of new "Korner King" right angle drill attachment. Unit attaches to standard 1/4-inch electric drill, makes holes in hardest wood up to 2 9/16 inches in diameter. Permits drilling in otherwise inaccessible spots. Two-speed drive triples drill range, allows conversion to slower r.p.m. High-speed bits reduce torque and thrust. R.C.S. Tool Sales Corp., Dept. AB, Joliet, Ill.



408 — FOLDING DOORS—vinyl-coated, fabric-covered units for homes and commercial establishments are pictured and described in four-page folder. Examples of how "Foldoor" adds flexibility to rooms and puts wasted floor space to work are cited. Units serve as a door closure or movable wall and are installed in new or existing buildings. Covering fabrics, available in wide color range, are washable, fire-resistant. Holcomb & Hoke Mfg. Co., Dept. AB, 1545 Van Buren St., Indianapolis 7, Ind.

407—FIBER TUBES—"Sonovoid" laminated fiber tubes, used to form concrete slab voids in reinforced concrete floor, roof, wall and bridge deck are presented in this eight-page folder. Tubes are made in 27 sizes, 2 to 36.9 inches o.d., and in lengths up to 24 feet or longer. Product is stated to reduce dead weight by displacing concrete at neutral axis of construction. Slab design tables, using varying diameter tubes, give details using different length spans. Sonoco Products Co., Dept. AB, Hartsville, S.C.



409—ALUMINUM BLINDS—Eight-page folder presents six salient features of "Flexalum" venetian blinds with spring-tempered aluminum slats and vinyl plastic tape. Cutaway drawings of operating mechanism, detailed specifications of slats, tape and cords given. Color range permits 165 combinations of slat and tape colors. Laboratory tests for salt spray, washability and complete immersion show product's advantages. Hunter-Douglas Corp., Dept. AB, 150 Broadway, New York 38, N.Y.



♦ FOR MORE INFORMATION USE COUPON, PAGE 218

AMERICAN BUILDER

Buyers find all they want in

"Century" NU-GRAIN asbestos-cement siding shingles

"CENTURY" sided homes give *more* than full measure! These tough, durable shingles combine the appearance of old-fashioned split wood shingles and the lasting qualities of stone. They are virtually maintenance-free, and never need protective paint. They won't burn, rot, or rust —or tempt termites.

And home buyers and remodelers are really enthusiastic about the three attractive, lasting colors in which NU-GRAIN shingles are made: NU-GRAIN Brown, NU-GRAIN Gray, and NU-GRAIN Green (illustrated). When the shingles are applied, the vertical joints between them disappear in the continuous grain pattern, and their straight-butt shadow lines are clear and pronounced.

Home-conscious people by the millions have seen and admired "Century" NU-GRAIN shingles on actual homes and in K&M advertisements (in color) in *Better Homes & Gardens* magazine. Get the complete story from your K&M Distributor or write directly to us.

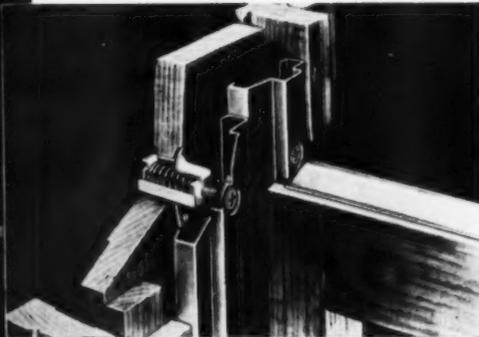


Nature made Asbestos . . .
Keasbey & Mattison has made it
serve mankind since 1873

America's first maker of asbestos-cement shingles

KEASBEY & MATTISON
COMPANY • AMBLER • PENNSYLVANIA

**FEATURES
that add
up to
SALES**



THE HEART OF THE "400"

The metal sash guides and the spring tension units make the "400" an outstanding, fast selling prime window. The sash guides give all weather protection.

REMOVABLE

Easily removed for washing or repairing.



EASILY INSTALLED

Takes no more time or effort than ordinary prime windows.

QUICKLY ADJUSTED

Two minutes with a screw driver and the window slides as desired.



**CONTACT YOUR
LUMBER DEALER
OR**

ALASKA
Glass Sash & Door Supply
Anchorage, Alaska
Don Able Millwork and
Building Supply Co.
Juneau, Alaska

COLORADO
Prefabricators, Inc.
3800 Race Street
Denver, Colorado

NORTH CAROLINA
Malta Mfg. Co.
Malta, Ohio

SOUTH CAROLINA
Dealers Supply Company
420 West Mcbee Street
Greenville, South Carolina

CONNECTICUT
Malta Mfg. Co.
Malta, Ohio

GEORGIA
Randall Brothers
Atlanta, Georgia

IOWA
Presto-Matic, Inc.
24th and Spring Streets
Omaha, Nebraska

ILLINOIS
Lumbermen's Supply Co.
2020 Burlington Avenue
Kansas City, Missouri

IDAHO
Utah Sash & Door Factory
2341 South State Street
Salt Lake City, Utah
Lumbermen's Supply Corp.
3002 Mission Avenue East
Spokane, Washington

INDIANA
Allied Wholesale Company
1212 S. Walnut Street
South Bend, Indiana

KENTUCKY
Malta Mfg. Co.
Malta, Ohio

KANSAS
Lumbermen's Supply Corp.
2020 Burlington Avenue
Kansas City, Missouri

MARYLAND
Dixie Millwork Co., Inc.
Hagerstown, Maryland
Monumental Millwork, Inc.
1101 S. Brunswick Street
Baltimore, Maryland

MISSOURI
Lumbermen's Supply Co.
22nd and Olive Streets
St. Joseph, Missouri
Defiance Window Mfg. Co.
1605 S. Kingshighway
St. Louis, Missouri

MAINE
Malta Mfg. Co.
Malta, Ohio

MASSACHUSETTS
Springfield Millwork Co.
Springfield, Massachusetts

MINNESOTA
Vetter Mfg. Co.
Stevens Point, Wisconsin
Presto-Matic, Inc.
24th and Spring Streets
Omaha, Nebraska
Marvin Lumber & Cedar Co.
Warroad, Minnesota

MICHIGAN
Royal Oak Wholesale Co.
2121 S. Michigan Avenue
Saginaw, Michigan
Ros Curtis Company
831 Osborn Lake Road
Milford, R. I., Michigan
West Michigan Sash &
Door Co.
Grand Haven, Michigan

MONTANA
Lumbermen's Supply Corp.
3002 Mission Avenue East
Spokane, Washington

NEBRASKA
Presto-Matic, Inc.
24th and Spring Streets
Omaha, Nebraska

NEW HAMPSHIRE
D'Arcy Company, Inc.
Dover, New Hampshire

NEW YORK
General Millwork Corp.
529 Main Street
Utica, New York
Cameron Lumber Company
Newburgh, New York
The Gibson Door Company
1 Arnold Avenue
Utica, New York
Rock Island Wholesale Co.
52 Leslie Avenue
Buffalo, New York
Wood Glass Company
Newport Ave. Eastwood
Station
Syracuse, New York
Mercury Millwork Corp.
Garden City, Long Island,
N.Y.

NEW JERSEY
Malta Mfg. Co.
Malta, Ohio

OHIO
Taleado Door & Sash Co.
901 Haag Avenue
Taleado 7, Ohio

Akron Sash & Door Co.
Akron, Ohio
Cincinnati Sash & Door Co.
Front and Freeman Streets
Cincinnati, Ohio
Great Lakes Sash &
Door Co.
3820 Lakeside Avenue
Cleveland, Ohio
Interstate Sash & Door Co.
836 Savannah Avenue
Canton, Ohio
Teachout Sash & Door Co.
100 Spring Avenue
Columbus, Ohio
Malta Mfg. Co.
Malta, Ohio

OREGON
J. D. Olson Mfg. Co.
271 W. 7th Avenue
Eugene, Oregon
Oregon Pulp & Paper Co.
Salem, Oregon

PENNSYLVANIA
W. C. Ashenfelter & Son,
Inc.
Colonial and Del River
Philadelphia, Pennsylvania
N. B. Epstein Company
Scranton, Pennsylvania
Lyman-Felheim Company
2010 Holland Street
Erie, Pennsylvania
Whipale Bros., Inc.
Loceyville, Pennsylvania

RHODE ISLAND
Malta Mfg. Co.
Malta, Ohio

TENNESSEE
Nashville Sash & Door Co.
152-2nd Avenue North
Nashville, Tennessee

UTAH
Utah Sash & Door Factory
2341 South State Street
Salt Lake City, Utah

VIRGINIA
Virginia Sash & Door Co.
Box 1097
Roanoke, Virginia
Sash Door & Glass Corp.
Sixth & Slocum Streets
Richmond, Virginia

WEST VIRGINIA
W. A. Wilson & Sons, Inc.
1409 Main Street
Wheeling, West Virginia

VERMONT
Malta Mfg. Co.
Malta, Ohio

WASHINGTON
Lumbermen's Supply Corp.
3002 Mission Avenue East
Spokane, Washington
Dealers Millwork Supply,
Inc.
1441 West Elliott Ave.
Seattle 99, Washington

WISCONSIN
Vetter Manufacturing Co.
Stevens Point, Wisconsin
Wilbur Lumber Company
Waukesha, Wisconsin

METALS BY

A. R. B.

WINDOW SALES CO.

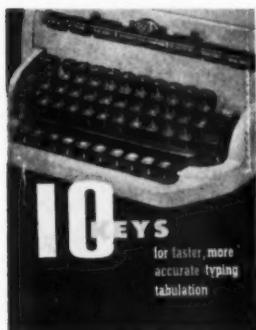
306 E. State Fair Ave., Detroit 3, Mich.

Catalogs

410 — ARCHITECTURAL PORCELAIN — emphasizing the acceptance of porcelain parts by architects and builders. 12-page booklet shows standard product applications. Structural drawings and information on "Seaporclad" laminated sandwich-type curtain wall and ashlar material are included. Characteristics, advantages, construction detail drawings utilizing the material are given. Seaporcel Metals, Inc., Dept. AB, 28-20 Borden Ave., Long Island City 1, N.Y.



411—ELECTRIC TYPEWRITER—speed and ease in statistical typing through the use of the 10-key Tabulator Electric Typewriter is the subject of this four-page folder. A faster way to perform columnar tabulation for builders' billing and statistical work is given. Typist can tabulate accurately from column to column or to any desired position in relation to the decimal point by setting one stop for each column, using only one key for each tabulation. Remington Rand Inc., Dept. AB, 315 Fourth Ave., New York 10, N.Y.



412—GARAGE DOORS—new models of sectional and one-piece overhead-type doors with easy opening and closing action are featured in this 12-page catalog. Sectional doors are shown in a range from eight feet wide, seven feet high to 10x10 feet, single width, and up to 16 feet wide by seven feet high for double-width openings. Rigid types in 8x7-foot to 16x7-foot dimensions are also offered. Frantz Manufacturing Co., Dept. AB, Sterling, Ill.



413—BONDING AGENT—a permanent bond between gypsum and acoustical plasters or Portland cement to nearly any interior surface including concrete and cinder blocks, stone, brick, glass, plywood and painted and unpainted plaster walls is represented by "Plaster-Weld," described in this eight-page folder. Possessing great tensile and shear strength, unaffected by humidity or condensation, resistant to most acids and alkalis, it is easy to apply, dries in 40 minutes. Larsen Products Corp., Dept. AB, 4934 Elm St., Bethesda, Md.



♦ FOR MORE INFORMATION USE COUPON, PAGE 218

SEPTEMBER 1953

Trade PROBLEMS for PROFITS with flexible CAPITOL KITCHENS



OVERSINK CABINETS
Sizes: 42", 48", 54", 60", 66"



SINK AND TUB COMBINATION
Size: 48" with sliding drainboard



WALL CABINETS
Sizes: 15", 18", 21", 24", 27", 30", 36"



BASE CABINETS
Sizes: 15", 18", 21", 24", 27", 30"

THERE'S no problem in making a profit when you profit from the solutions that Capitol Kitchens offer you. Here's why — Capitol builds such a wide line of steel kitchen cabinets and sinks that you can build or modernize any kitchen — large or small — with standard Capitol cabinets.

LOOK AT THIS FLEXIBILITY!

1. More than 40 different sizes and types are standard.
2. Two types of corner base cabinets — stationary or Roto-base.
3. Two types and three sizes of sink fronts.
4. Ten different sizes and types of sink cabinets.
5. All of the "most-needed" fillers.
6. Sink tops of porcelain, linoleum or Formica.

Large or small kitchens — L-shaped, U-shaped or straight — you'll find Capitol's flexibility will do the job — and profitably for you, too.

Write for information about the nationally advertised, nationally accepted, complete Capitol line.



HU-104

187

3

sure ways to better,

1. Plywood subfloors

FIR PLYWOOD subflooring can be applied in less than half the time required for lumber. Big panels cover large areas quickly . . . fit standard joist spacing without wasteful cutting and fitting.

Plywood subfloors are solid. Won't cup, squeak, swell or shrink . . . protect against drafts and air infiltration. Rigid plate-like action gives added protection against windstorms or earthquakes.

Specify PlyScore for Subfloors

*PlyScore is the economical unsanded construction grade of interior-type fir plywood. Glue is highly water-resistant (but not waterproof) and will withstand occasional wetting on the job.



2. Plywood underlay

TILE, linoleum or wall-to-wall carpeting lays flat, stays flat over smooth, flat fir plywood. Large, smooth panels do away with "humps" and ridges which mar beauty, offer points of wear.

Fir plywood underlay cuts costs, too. Saves time and labor. No felt needed; coverings can be placed directly on the plywood. No pre-drilling or special fastenings needed with plywood underlayment.

Specify PlyPanel for Underlay

*PlyPanel is the versatile "one-side" grade of interior-type fir plywood. For underlayment, for paneling, cabinet work and other indoor jobs where only one smooth side is required.



3. Plywood combined

HERE'S a real cost-cutter. Use a single thickness of fir plywood for both subfloor *and* underlay: Because plywood gives great structural strength *plus* smooth, flat surface, you save two ways: you save on materials, you save on labor.

Combined subfloor-underlay of fir plywood gives entirely adequate construction for any finish floor including tile, linoleum or carpeting.

Specify PlyPanel for Subfloor-Underlay

*PlyPanel is the versatile "one-side" grade of interior-type fir plywood. Use it for combined subfloor-underlay, for paneling, cabinet work, and other indoor uses where only one smooth side is required.

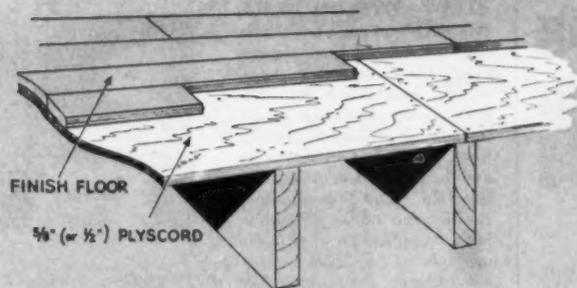


BE SURE OF QUALITY! SPECIFY DFPA-INSPECTED FIR PLYWOOD

* Always look for these registered industry trademarks—your guide, guard and assurance of DFPA quality-tested fir plywood. For detailed specification data write (USA only) Douglas Fir Plywood Association, Tacoma 2, Washington for 1953 Basic Catalog.



go down fast, cut labor costs in half

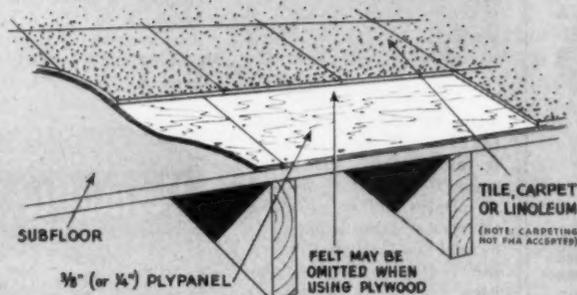


APPLICATION: Apply with face grain across joists. Usual installation is over joists 16" o.c., but spacing up to 24" o.c. satisfactory with 25/32" strip flooring. Use 8d com. nails for 5/8" plywood, 6d for 1/2"; nail 6" o.c. at panel edges, 10" o.c. on other bearings.



faster floor construction

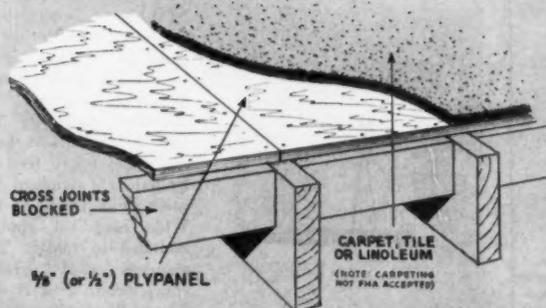
makes floor coverings look better, last longer



APPLICATION: Preferable to place panels with face grain running across joists, breaking joints over joists. Nail approximately 6" o.c. on panel edges, 8-10" o.c. elsewhere. Ringed nails hold better.



subfloor-underlay gives really big savings



APPLICATION: Apply panels and nail as for subflooring above. Note blocking along panel edges at right angles to joists.



Why Clients are quick to approve **BASE-RAY** heating

RADIANT BASEBOARD



1 BASE-RAY® is the outstanding way to provide your clients with the Magic of Radiant Hot Water Heating. They're quick to grasp the fact that it's "like heating their homes with the sun."

2 BASE-RAY gives maximum personal comfort, blankets outside walls and windows with a shield of heated air—an effective guard against cold infiltration. Floor-to-ceiling temperatures practically constant, even in coldest weather. No cold feet and no cold corners.

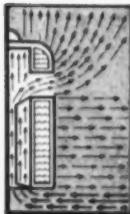


3 BASE-RAY, served by a sturdy cast-iron Burnham Boiler, costs little more than a forced air system . . . only a dollar or two added to monthly payments carries the difference. And *value-wise* there's just no comparison!

4 BASE-RAY's rugged cast-iron construction withstands hardest knocks, will not dent, resists corrosion for a lifetime, provides real long range economy.



5 BASE-RAY with its low sweeping lines fits inconspicuously into any room. Saves space, promotes smart, uncluttered interior decor . . . can be painted to blend with any color scheme.



6 BASE-RAY delivers true radiant heat. Since there are no false fronts or grilles the warm surface of BASE-RAY is exposed directly to the room, thus giving unobstructed radiant heat.

7 BASE-RAY is fully waterbacked. This, plus the excellent heat retaining properties of cast iron, means BASE-RAY continues to deliver radiant heat long after the burner shuts off.

8 BASE-RAY offers a unique low cost installation procedure called the "series loop" system, making big savings possible. Readily installed in new or modernization jobs.

Burnham is the pioneer in the manufacture of Radiant Hot Water Baseboard Heating. Homeowners who have BURNHAM BASE-RAY say they'd never want any other heating method. Why don't you investigate its possibilities? Mail coupon today for the complete story.

*Reg. U. S. Pat. Off.

Burnham Corporation

**BOILER DIVISION
IRVINGTON, NEW YORK
FIRST IN THE MANUFACTURE OF
BASEBOARD HEATING**



Burnham Corporation AB-93
Irvington, New York

Please give me full data, including 6-page illustrated folder on BASE-RAY.

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

Catalogs

414 — GYPSUM WALL BOARD—14-page booklet in full color contains suggestions for remodeling basements, attic rooms for children, attic apartments and installation of interior partitions, of interest to designers and builders. Instructions on selection and installation, specification tables and drawings, application pictures, methods of wallboard joint concealment are included. National Gypsum Co., Dept. AB, 325 Delaware Ave., Buffalo 2, N.Y.



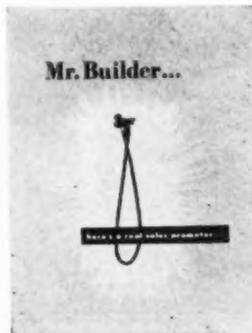
415 — CONSTRUCTION INSULATIONS — 20-page booklet includes design and application data on Fiberglas roll and batt blankets, pouring wool, perimeter insulation and utility batts. Information on advantages of insulation in general, condensation, ventilation and other insulation design considerations are given. Photographs illustrate approved product-installation methods in homes and other buildings in the light construction category. Owens-Corning Fiberglas Corp., Dept. AB, Toledo 1, Ohio.



416 — PERLITE AGGREGATE—said by its makers to form a better lightweight aggregate in place of sand in plaster and concrete for all types of domestic and commercial construction. "Permalite" is described in this eight-page folder. Its advantages for a base coat plaster for structural steel fireproofing and in concrete for lightweight roofs and curtain walls are detailed. Great Lakes Carbon Corp., Perlite Div., Dept. AB, 612 S. Flower St., Los Angeles 17, Calif.



417—BATHROOM SPRAY—four-page folder presents the "Lifetime" shampoo spray, giving complete installation instructions, suggested layouts with various standard bathroom fixtures. Unit is installed on bathroom wall; the water feed is controlled by a standard diverter-valve arrangement on the tub. Wide range of applications included in folder. Made of stainless steel with brass spray head. T & S Brass & Bronze Works, Inc., Dept. AB, 32 Urban Ave., Westbury, Long Island, N.Y.



♦ FOR MORE INFORMATION USE COUPON, PAGE 218

AMERICAN BUILDER

All in a day's work...

with a BERGER CONVERTIBLE TRANSIT-LEVEL



Joseph Anemon of A. Lowe Co., on the job

Laying out building site



Marking batter boards



Measuring ceiling height

"We keep our Berger Convertible busy on all kinds of construction—from the ground up," says Frank Murphy, Project Director of A. Lowe Co., Building Contractors, Newark, N.J.

"One day you'll see it at work laying out a new factory site, marking batter boards, checking elevations for excavating and grading. Or it's measuring elevation of concrete piers for the steel columns of an office building, setting lintels, aligning and plumbing structural steel. On another job, we'll have it picking up elevations for finished floors, measuring hung ceiling heights, setting door bucks, and checking all other stages of construction."

That's the kind of a "good day's work" you can expect from a Berger Convertible Transit-Level because it's built for builders... designed to be consistently accurate, simple to set up for quick readings, easy to level up, rigid and sturdy enough to take the bumps in the field and stay on the job without time lost for repair.

The table below shows some of the reasons why—compares the Berger with the other two leading instruments. Note the bronze and brass construction—the materials used in fine engineers' transits. Note the plate level... the 60 second sensitivity of its telescope level vial. They prove the accuracy with which the Berger is made. See why it's considered the best buy at any price!

Before buying a Convertible... Compare!

	Berger Convertible	Convertible No. 1*	Convertible No. 2**
TELESCOPE	24-26 power 34 mm. clear aperture bronze vial sensitivity 60 sec.	less 30 mm. clear aperture fabricated vial sensitivity 90 sec.	less 33 mm. clear aperture zinc die cast vial sensitivity 120 sec.
OPTICS	Coated	Coated	Coated
FOOT PLATE	Brass Trivet integral	Aluminum Trivet integral	Brass Trivet points separate
HORIZONTAL CIRCLE	Forged Brass	Aluminum	Brass
YOKE FRAME	Bronze	Aluminum	Zinc
TANGENT PIECE	Brass	Aluminum	Integral with clamp
TELESCOPE CLAMP	Brass	Aluminum	Zinc
PLATE LEVEL	Yes	No	No
CASE	Mahogany transit case	Level type box	Level type box
STRAP	Padded leather handle	Plain leather *Retails higher than Berger	Plain leather **Retails lower than Berger

Take a Berger into the field—see its accuracy in action. Write for literature on this and other Berger Instruments—12" Dumpy Level, Service Transit-Level and Hand Level. And ask about our Engineers' Instruments.

C. L. Berger & Sons, Inc., 39 Williams St., Boston 19, Mass.
344 Madison Ave., N. Y. 17, N. Y.

Engineers' Transits
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Builders' Instruments
SEPTEMBER 1953

THE BEST IN  SIGHT IS

BERGER

ENGINEERING AND SURVEYING INSTRUMENTS... SINCE 1871



View across the living room toward the bedroom hall

house designed around a porch

This plan glorifies a roomy porch built across the rear. Indoor planting makes it an outdoor room with indoor comfort. Large sliding glass doors connect it with the living room, and doors also open onto it directly from kitchen and one of the bedrooms. This arrangement makes possible an outdoor dining and liv-



Built-in! Beautiful! Budget-priced!



The range with the **COPPER DOOR**[®]
*Lifetime metal with easy-to-clean copper finish.

the New Idea in Kitchens!

PRESTELINE Built-In Electric Range

INDIVIDUALIZED COOKING TOPS
As many burners as you want, arranged any way you want them.
Exclusive Presteline stainless steel counter tops complete with burners.

BUILT-IN EYE-LEVEL OVEN
No stooping! No bending! Enjoy carefree cooking in a full size, fully automatic oven installed at exactly the right height.

GLEAMING COPPER OR SATIN SILVER
Non-tarnish metal finishes brighten

your kitchen... wipe spotlessly clean with a damp cloth.

GLOWING DECORATOR COLORS
Five lovely pastel shades in both ovens and range tops make complete color planning possible!

POPULAR PRICES—Presteline units cost no more than an ordinary range!

FITS STANDARD KITCHEN CABINETS—Exclusive with Presteline! No costly special cabinet or counter work is necessary for installation.



Take the TIME-See...
Presteline

George T. Stevens & Associates
612 N. Michigan Avenue, Chicago 11, Illinois
Please send me complete information including sizes and prices for Presteline built-in ovens and range tops.

NAME _____
ADDRESS _____
CITY _____ STATE _____

AB-9



Lot size is 59 by 111 feet. Floor plan shows how porch becomes integral part of living area in house

ing room or even a sleeping porch.

Used successfully as a house type in a subdivision near St. Petersburg, Florida, by Welbilt Homes, Inc., the plan has real possibilities for any locale. Welbilt decorated its model in modern colors: deep Chinese green and brown in the living room; a yellow kitchen, with cabinets painted Chinese green on the inside, and tile in brown and yellow; one bedroom in tangerine with a beige wall; the guest bedroom in oyster grey and dark grey.



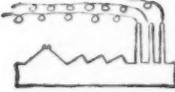
View of living room showing dining end. Curtained sliding glass doors to porch are at extreme left

AMERICAN BUILDER



Gold Bond
announces
SURFASEAL

New "armor" on shingles resists

dirt  stain  and  weather!

New Gold Bond Chroma-Tex Asbestos Siding Shingles give your houses the freshest colors . . . the richest graining . . . of any asbestos siding shingle. Now this beauty has brilliant extra life added to it by the exclusive Gold Bond Surfaseal Finish.

Surfaseal is a transparent protective coating—a tough "armor" that makes Chroma-Tex extra-resistant to moisture and staining . . . helps maintain Chroma-Tex's famous color freshness! You give houses tremendous added sales appeal . . . assure yourself

of client satisfaction . . . when you specify Gold Bond Chroma-Tex.

Maintenance-free! Rugged Chroma-Tex just never wears out. The homeowner never has to paint for preservation!

Fireproof! Chroma-Tex absolutely will not burn. It banishes fire hazard from sparks and flying embers.

Call Your Local Gold Bond dealer and tell him you want to see Chroma-Tex . . . the freshest-colored, most beautiful asbestos siding shingles on the market!

NATIONAL GYPSUM COMPANY • BUFFALO 2, N. Y.

Lath, Plaster, Lime, Sheathing, Roofing, Sidings, Gypsum Roof Decks, Wall Paint, Textures, Rock Wool Insulation, Metal Lath, Sound Control Products, Fireproof Wallboards and Decorative Insulation Boards.

You'll build or
remodel better with

Gold Bond®

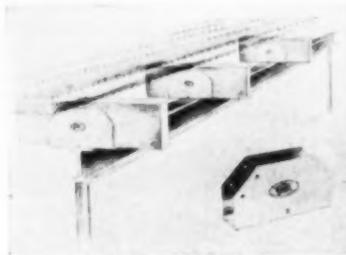
new products



JOIST SPLICER, SUPPORT

AB95301

This metal splicer eliminates the need for specifying long joists on construction jobs. The manufacturer states that its application saves up to \$30 in actual joist costs on an average small home. It is made of heavy gauge steel plate, formed



and punched for use with 2x4, 2x6, 2x8, 2x10 and 2x12 joists.

The splicer's appearance permits exposed beam construction and eliminates lapping of short joists which decreases joist center space, often interfering with placement of 14-inch heating ducts. After splicers are placed on center beams, joists can quickly be dropped from side to center and nailed. Gee Mfg. Co., Dept. AB, 2600 W. 79th St., Chicago 29, Ill.

NATURAL REDWOOD FINISH

AB95309

A new product which permits Redwood to retain its natural kiln-dried appearance is called "Dry-Redwood Liquid Raw-Hide Color-Fix No. 9." Field tests have indicated that, when applied according to directions, no variance from the original color of Redwood occurs, even though heretofore the application of any substance to Redwood has tended to change its color to some degree.

According to the manufacturer, the treatment consists of one coat of the new product followed by one or more coats of the company's "Liquid Raw-Hide Clear Finish." The latter, a resin-free product, has been accepted as a standard finish for Redwood manufactured by the Behr process. Number of finish coats following the application of the color fix is dependent on the climatic condition to which the Redwood is to be subjected. Linseed Oil Products Co., Dept. AB, 1107 S. Fremont Ave., Alhambra, Calif.

REDESIGNED BATHROOM FIXTURES

AB95320

Bathroom fixtures of functional design have been introduced. The line includes six lavatories and two water closets of vitreous china. The washing area of the lavatories is large and roomy, wider at the front, gradually narrowing towards the back. Wide overflows are hidden under front apron. Styles feature two- and four-inch shelf-back and slab-type models in wall-hung or pedestal and legs installations.

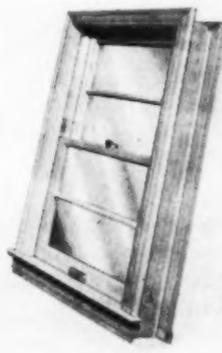
Front apron styling of lavatories is

repeated on tank cover of the water closets. Rectangular base of one unit makes it easier to clean. Siphon jet unit is available with round or elongated bowl. Close-coupled tanks of both units give appearance of a one-piece fixture. Fittings and all exposed metal parts of these fixtures are finished in Chromard. Units are made in white and several colors. American Radiator & Standard Sanitary Corp., Dept. AB, P.O. Box 1226, Pittsburgh 30, Pa.

REMOVABLE WINDOW UNIT

AB95313

This unit, including frame, weather stripping and glazed 1 $\frac{3}{4}$ -inch checkrail sash, is adjustable for wall thicknesses of from 4 $\frac{7}{8}$ to 5 $\frac{1}{4}$ inches. The adjustment is



accomplished by the use of jamb liners, furring strips and reversible blind-stop extensions. Frame sizes are available in modular and in some picture window openings. The side weather stripping is full jamb, one-piece aluminum, extruded to form the sash paths.

The removable feature consists of a hinged clip which hooks over a recessed finger in the weather stripping. By pulling the clip down and raising the sash slightly, tension is automatically released; pushing the sash against the spring-tensioned weather stripping releases the sash from the run on the opposite side of the window, and the unit slides from its frame. Dierks Lumber & Coal Co., Dept. AB, 700 Dierks Bldg., Kansas City, Mo.

OIL-FIRED HEATING UNIT

AB95316

An oil-fired, factory-assembled, "packaged" automatic heating unit, 36 inches high, is designed for installation in the smaller one-bathroom home, motel, apartment unit or other structure with a minimum heating load and restrained hot water demand. It is shipped with insulation, combustion chamber, tankless water heater, oil burner, controls and accessories in place. A white enameled cabinet with front access panel is shipped separately. Over-all width is 30 inches, depth is 26 inches.

Tankless heater is rated at three gallons per minute, providing an adequate supply of hot water for normal requirements. Control system assures adequately heated water available at all times while maintaining a predetermined maximum temperature in the radiation, especially



applicable to radiant-panel heating. Plant has a gross output of 99,000 Btu's with a firing rate of one gallon of oil per hour. The National Radiator Co., Dept. AB, 221 Central Ave., Johnstown, Pa.

◆ FOR MORE INFORMATION USE COUPON ON PAGE 218

... A DOOR AND FRAME PACKAGED UNIT - - INSTALLS IN 20 MINUTES ...

SAVES TIME • LABOR • MONEY • WASTE • WORRY • SKILL

ADJUSTABLE FOR WALL THICKNESS 4-1/2" TO 5-

SLIP THE HALVES TOGETHER AND NAIL IT TO THE

NOTHING TO SAW, FIT OR PLAN

FASTENERS ON MITRE JOINTS

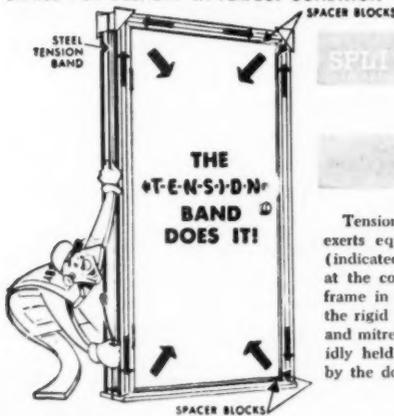
DOES A BETTER JOB ... KILN DRIED LUMBER ...

JOB ENGINEERED FOR EASY INSTALLATION ...

THE SAVING IS IN THE LABOR OF INSTALLATION

DOOR HUNG AND LOCKED ... FRAME TRIMMED BO

CRATED FOR DELIVERY IN PERFECT CONDITION *



* PACKAGING PATENTED PATENT NO. 2489029

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National Woodworks, Inc.
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BURBANK, CALIF.
Ready Hung Door Mfg. Co.
200 South Victory Blvd.

DALLAS, TEXAS
Ready Hung Door Mfg. Corp.
1113 Dragon

DENVER, COLORADO
Prefabricators, Incorporated
P. O. Box 5222

GRAND RAPIDS, MICH.
Haskelite Manufacturing Corp.
701 Ann St., NW

HOUSTON, TEXAS
Ready Hung Door Mfg. Co.
P. O. Box 124

NEW YORK, N. Y.
Bailey-Whalen Company
17 Park Ave., W. Orange, N. J.

SAN ANTONIO, TEXAS
Ready Hung Door Mfg. Corp.
200 Seguin Street

SEATTLE, WASH.
Acme Millwork, Inc.
P. O. Box 668, Kirkland, Wash.

SIOUX FALLS, S. DAK.
Jordan Millwork Co.

TORONTO, CANADA
C. Lloyd & Son Limited
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READY HUNG DOOR CORP., Fort Worth 2, Texas



SPLIT JAMB ... ELIMINATE

PATENTED CRATING DELIVERS WITH JOINTS SQUARE AND

TIGHT ... QUALITY ...

ANY STYLE OR SIZE DOOR

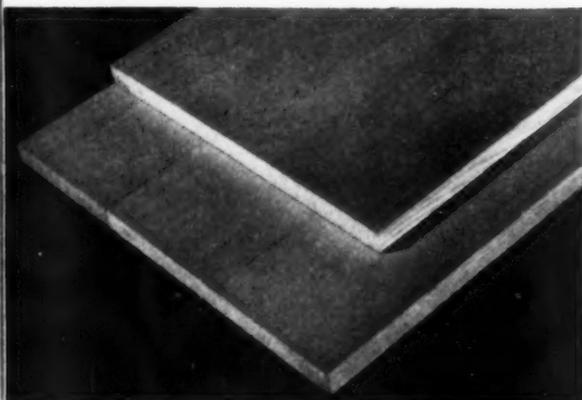
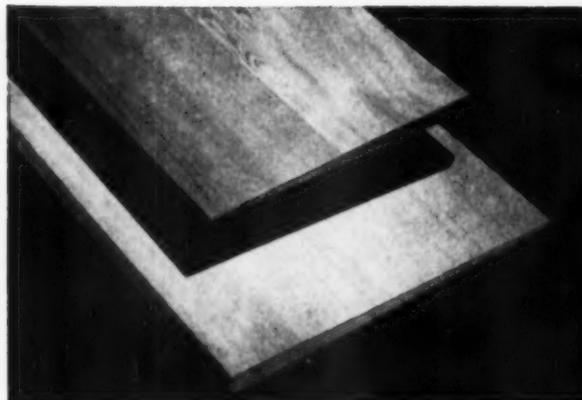


Look for this Trade Mark *



PAT. NO. 2489029 *TD. MK. REG. U. S. PAT. OFF.

Increasing the supply of
WIDE LUMBER ITEMS



WITH

WEYERHAEUSER 4-SQUARE
Glued-up LUMBER

When the quantity of lumber items that are chronically in short supply is increased, that's welcome news for builders . . . because the increased supply offers a means of satisfying more customers.

Weyerhaeuser 4-Square Glued-Up Lumber is increasing the supply of wide lumber items. Edge-glued lumber is helping builders to meet the needs of their customers for *more* wide lumber.

Weyerhaeuser supplies two types of edge-glued lumber, one an exterior type, and the other an interior type.

Exterior type edge-glued lumber is a general purpose lumber. It may be used as exposure lumber, or for interior application. It is designed to be equal to, and interchangeable with, regular stock in species, grades, patterns and uses. It is available in bungalow siding, finish, stepping, selects and in wide items.



Exterior Type: BUNGALOW SIDING of Western Red Cedar. **SELECTS** of Idaho White Pine, Engelmann Spruce and Inland Red Cedar. **FINISH, STEPPING and WIDE CLEARS** of Douglas Fir and West Coast Hemlock.

Interior Type: WIDE GLUED-UP LUMBER of Idaho White Pine, Engelmann Spruce, Inland Red Cedar, Idaho White Fir, Larch and/or Douglas Fir. **INDUSTRIAL CLEARS** of Douglas Fir and West Coast Hemlock.

Interior type edge-glued lumber is designed for interior construction purposes, industrial uses, and any application where water-proofness is not a use factor. It equals or excels regular lumber in the above interior uses. The light color of the glue line makes interior type edge-glued ideal for natural interior finishes. Industrial clears and other grades of wide interior type edge-glued lumber are available in a variety of widths up to 30".

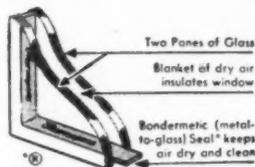
More and more builders are ordering Weyerhaeuser 4-Square Edge-Glued Lumber in an ever increasing variety of items because they have found that it gives them a greater volume of needed wide lumber items.

The edge-gluing of lumber is a proved Weyerhaeuser development. If you are not now enjoying the advantages of glued-up lumber, ask your Weyerhaeuser 4-Square Lumber Dealer about it—or write for details.

Weyerhaeuser
Sales Company
ST. PAUL 1, MINNESOTA



Windows in this home add beauty, color and value. Come winter, the owner won't have to move back from these windows to avoid chilliness—they are *Thermopane* insulating glass.



How Good Window Planning Puts Extra Value Into Homes

When Arthur V. Hansen, Architectural Editor of *American Builder*, planned his own home he based his window treatment on the sun, the site and its views, and a natural desire for comfort. Result—a mighty livable house.

Windows are placed to take in winter sun for solar heat and are shaded by a 3-foot overhang to keep out the high, hot sun of summer. And they're *Thermopane** insulating glass. That means, of course, more comfort for the owner and his family. It makes areas near the windows warmer, more usable in winter. It means lower fuel costs and less chance of condensation on windows.

Thermopane keeps rooms cooler in summer, too, and quieter year 'round.

These are real values—salable values. After all, houses are bought for living. Doesn't it make sense, then, that adding livability adds salability? Ample windows, well-placed windows, insulated windows do just that.

Thermopane insulating glass is made in more than 90 standard sizes so you can use it economically in almost any type of sash. Your L·O·F Glass Distributor or Dealer can provide a list of these sizes and sash for low-cost installation of *Thermopane*. Or mail the coupon.

*®



Thermopane
INSULATING GLASS

LOOK FOR THE NAME ON THE SEAL BETWEEN THE PANES

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

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

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City _____ Zone _____ State _____

NEW!

A push button
with a
lifetime finish

SHOWN ACTUAL SIZE

Will not tarnish
or corrode!
Costs just pennies!
Always looks
like a million!

KEYNOTE

piano action

PUSH BUTTON

NOW! Keynote opens the door to real push button value. Excellent in design. Low in price. Enduring and dependable . . . with the outstanding, famous quality of all Edwards products.

GOOD DESIGN! Smart classic simplicity that complements all types of architecture. Slim and streamlined for narrow door trims.

PIANO ACTION! Instant positive contact at feather touch.

NEVER TARNISHES OR CORRODES! Lifetime finish needs no polishing. All exposed parts heavy plastic . . . always in working order . . . never rusts or stains outside of house.

EASY MOUNTING! Convenient surface mounting . . . with just two screws. Covers old doorbell opening. Not necessary to drill or ream special hole for wires.

SMART COLORS! Brown, ivory, chrome®, brass®, with contrasting push-key. Blends with all exterior finishes.

FINE QUALITY . . . LOW COST! Outstanding push button in the economy class. Exceptional good looks. Finest performance. Just 26¢ to 52¢ each, depending on color.

*Edwards special 'Vaculized' finish gives the lustrous beauty of polished brass or chrome.

EDWARDS

ASK YOUR ELECTRICAL SUPPLIER ABOUT KEYNOTE!

EDWARDS COMPANY, INC., NORWALK, CONN.
In Canada: Edwards of Canada, Ltd.

new products

CHEST-TYPE FREEZER

AB95319

New freezer offers seven cubic feet of storage space in a cabinet of essentially same exterior dimensions as former six-foot models by use of space-saving wrapper-type condenser and high-density insulation. Lock-type latch, with key;



interior trim of colonial blue; rear-mounted spring-action hinges that act as a counter-balance to offset the lid weight; and a compressor unit of internally spring-mounted design, assuring quiet operation, are among the unit's features.

A high-speed freezing section is separated from the frozen food storage compartment by a metal grid. Over-all food capacity is 245 pounds. Dimensions are 36 inches high, 39 inches wide and 25¼ inches deep. Kelvinator Division, Nash-Kelvinator Corp., Dept. AB, 14250 Plymouth Road, Detroit 32, Mich.

COLOR FOR FOLDING DOORS

AB95307

Cocoa Brown has been added as a standard finish to the nine other standard lacquers for Ra-Tox folding doors (illustrated) and room dividers.

These products are made of narrow slats of basswood woven into fabric by a warp of strong seine twine. Doors and room



dividers are suspended from the top, and open and close to the sides. They are delivered complete, ready to install. Hough Shade Corp., Dept. AB, 1044 Jackson St., Janesville, Wis.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218

AMERICAN BUILDER

*Tips on Selling Homes...
remember—
House Buyers are Fuss Budgets!*

**Rheem Imperial Gas
& Electric Water Heaters**
carry a 10-year guarantee
backed by the World's
Largest Manufacturer
of Automatic Storage
Water Heaters.

**Rheem Winter Air
Conditioners** provide
safe, care-free,
economical heating—
automatically.



They may not say so, but when they're looking for a house they're thinking of its upkeep. Show them a Rheem Gas Furnace and a Rheem Water Heater and they'll know that here's a house built for their comfort—and their budget.

Rheem appliances are made for fussy budgets, are built to serve and last. Only

Rheem's exclusive method of Fire-Testing every Furnace at the factory, of Pressure-Proving every Water Heater can assure such economical, trouble-free service.

Let Rheem help you sell the budget-minded buyer on your home. See your Rheem contractors today. They can prove that Rheem is the best buy for builders.

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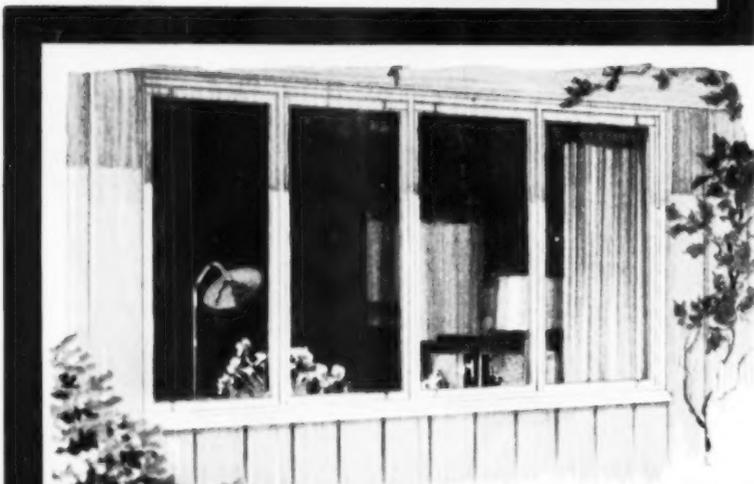


Pella[®]

WOOD CASEMENTS

Are easy to install
... make your homes
sell faster

HERE'S WHY PELLA WOOD CASEMENTS ARE EASY TO INSTALL . . . When received on the job, they are simply set into rough wall openings, caulked and secured in place by steel interlocking fins. Pella Wood Casements are completely assembled and prefitted at the factory — cut installation costs to a minimum. Stock-size units can be combined into hundreds of custom-like effects.



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MORE PEOPLE
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WOOD CASEMENTS • MULTI-PURPOSE WINDOWS • ROLSCREENS • WOOD FOLDING DOORS • VENETIAN BLINDS



ROLSCREEN COMPANY, Dept. E35, Pella, Iowa
Please send me without obligation "PELLA CASEMENT Installation Instructions in Full Size Casement Details No. 1050M."

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FIRM _____

ADDRESS _____

CITY _____

STATE _____

new products

SHINGLE CUTTER

AB95302

Redesigned asbestos shingle cutter is engineered for greater portability and efficiency. A weight reduction of 43 per cent is accomplished by the use of heat-treated aluminum alloy for the knife bars. Alloy is sufficiently rigid and tough to withstand heavy impacts and rough handling.

Knives are of double-bevel type, providing greater support to the cutting edge.



Knife blades are made of high-carbon tool steel, accurately ground and heat-treated. A front-end punch with a fixed gauge for aligning nail holes, and a notching attachment for making all-angle and irregular cuts are standard equipment. Numerous designs, sizes and thicknesses of asbestos shingles can be cut efficiently with this device, the makers say. Specialty Tool Manufacturers, Dept. AB, 732 S. Illinois St., Belleville, Ill.

HORIZONTAL SEPTIC TANK

AB95328

This unit carries a guarantee protecting the owner against tank failure due to corrosion or structural failure for 20 years after installation. The guarantee is made possible by the tank's construction and protective, corrosion-resistant covering inside and out. A bituminous emulsion is also applied to the inside of the tank for extra protection against sewage acids.

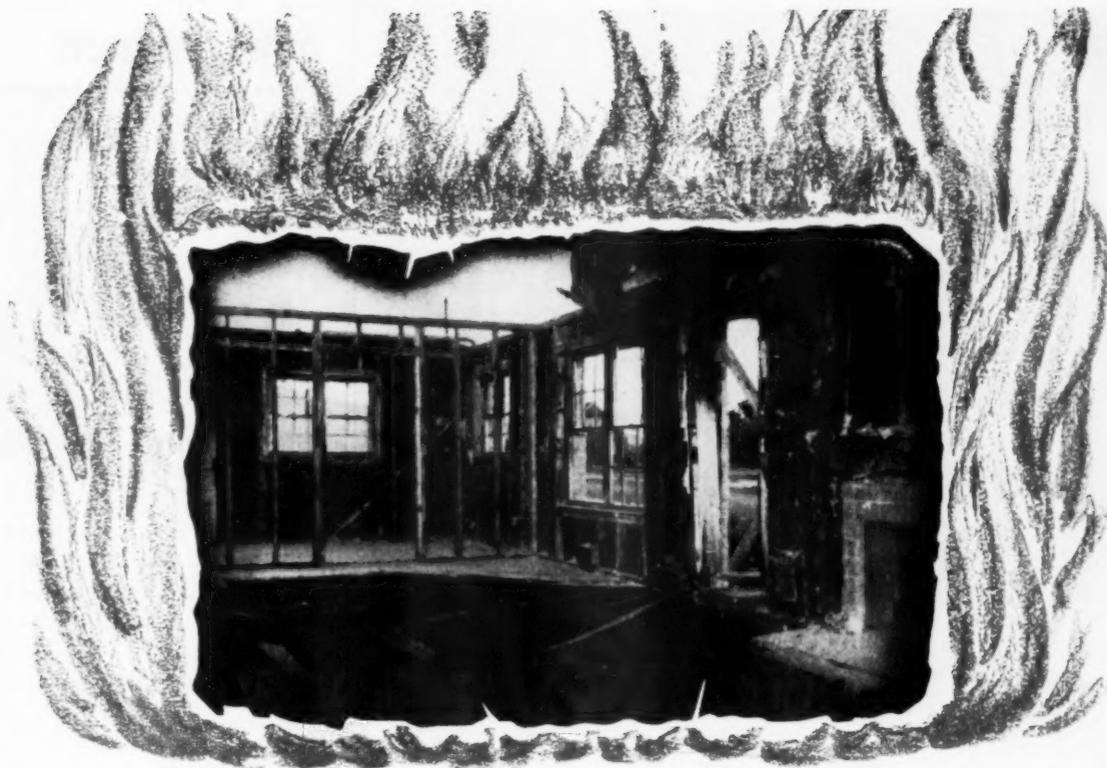
Horizontal design assures thorough digestion of sewage and a clearer effluent for drainage into the ground.



Tanks are available in 300-, 500- and 600-gallon sizes; those of 500- and 600-gallon capacity meet FHA, VA and U.S. Public Health Service standards. San-Equip Inc., Dept. AB, E. Brighton and Glen Aves., Syracuse 5, N.Y.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218

AMERICAN BUILDER



"WINDOWS RESIST FIRE"

reports ROANOKE (VA.) BUILDING MATERIALS DEALER



DOUBLE-HUNG and PICTURE WINDOWS



SLIDING and PICTURE-SLIDE WINDOWS



VIEWALL PICTURE WINDOWS



ALWINTITE

aluminum **WINDOWS**

ALWINTITE DIVISION
GENERAL BRONZE CORPORATION

Stewart Avenue, Garden City, N. Y.

"Fire completely destroyed this new house, in Roanoke County, Va., but the builder was able to use all the ALWINTITE aluminum windows again," reports Alton N. Lowe, Sales Mgr., C. Grady Cates, Inc., prominent Roanoke building materials dealer. "The only alterations necessary were the replacement of a few muntin bars, cleaning and adjusting the balances."

That's the story, exactly as we received it, and it's just one more good reason why builders everywhere are featuring ALWINTITE in more and more of their new construction.

The complete ALWINTITE line includes double-hung, horizontal sliding, picture sliding and VIEWall windows. All are precision engineered, and designed for easy time-saving installation. Let us show you how ALWINTITE can help add to the attractiveness and salability of any house—regardless of its style, color, size or location.

Write today for complete information. Address Dept. AB-539.



Architect: Roche & Roche, New York

This wall decorates two rooms

Instead of wondering how to decorate a wall, what about this . . .

Let the wall itself decorate the room. Build it with a few panes of patterned glass and a simple wood frame.

There you are—a translucent partition that decorates *two* rooms. It ap-

peals to people's desire to be different. That means a quick nod of approval when they see this idea in your houses.

Blue Ridge *Patterned Glass* lets light pass from room to room. That helps brighten rooms with windows on one or two sides. A wonderful answer to the dark hall problem.

The beautiful Blue Ridge patterns give light, but with privacy. You can suit your decorating scheme by choosing from linear, checkered or over-all patterns—in plain, textured or *Satinol** finish. Your L·O·F Distributor or Dealer can show you samples. And mail the coupon for our book of decorating ideas. ®

BOOK OF 42 DECORATING IDEAS. "New Adventures in Decorating" shows how leading architects and decorators have used this lovely glass to add light and distinction to home interiors. Send coupon for free copy.



Libbey-Owens-Ford Glass Company
Patterned & Wire Glass Sales
B-193 Nicholas Building, Toledo 3, Ohio

Please send me my free copy of "New Adventures in Decorating".

Name (please print) _____

Address _____

City _____ State _____

BLUE RIDGE
Patterned GLASS



new products

AUTOMATIC SAW SETTER

AB95306

Both rows of teeth on both sides of the saw are given a uniform set in one fast run through this automatic setter. A 26-inch, eight-point hand saw can be set in 32 seconds, it is claimed. This speed and



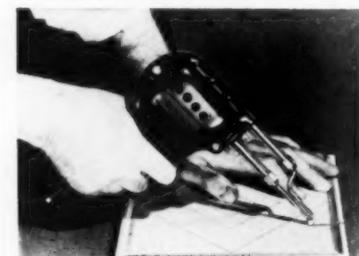
precision results from the "twin-hammer" action, both hammers being powered by a single spring. Only three adjustments are needed for automatic operation: insert the saw, select the points per inch (from four to 16), and adjust the depth of set. No special skill is needed for accurate operation.

Setting speed for hand saws ranges from 6½ to 15 seconds per foot, for saws with four to eight points per inch up to 1½ inches wide. Hardened steel anvils and hammers, precision bushings and lifetime lubricated bearings where needed assure long life. Unit is equipped with motor and pedal switch. Foley Manufacturing Co., Dept. AB, 3300 Fifth St. N.E., Minneapolis 18, Minn.

SOLDERING-CUTTING GUN

AB95303

Curves, holes, angles, straight lines or diagonals can be cut with the "Quick-Hot" electronic, portable soldering gun. Equipped with a special cutting tip, the gun will cut, perforate or trim a standard plastic tile or an odd-shaped mitre, cap outcorner or curved base piece. The gun is claimed to make smooth-finished cuts exactly to a pattern penciled on the back of the tile which is placed face down on



flat metal or glass surface. Manufacturer states that tool will also cut asphalt and rubber tile, linoleum and like materials.

The gun is also effective as a soldering device; fitted with a long-reach soldering tip, it is stated to handle all soldering requirements within its 250-watt rating. Built-in spotlight automatically illuminates the work. Wen Products Co., Dept. AB, 5808 Northwest Highway, Chicago 31, Ill.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218

Now, a low-cost dishwasher to help sell your homes!



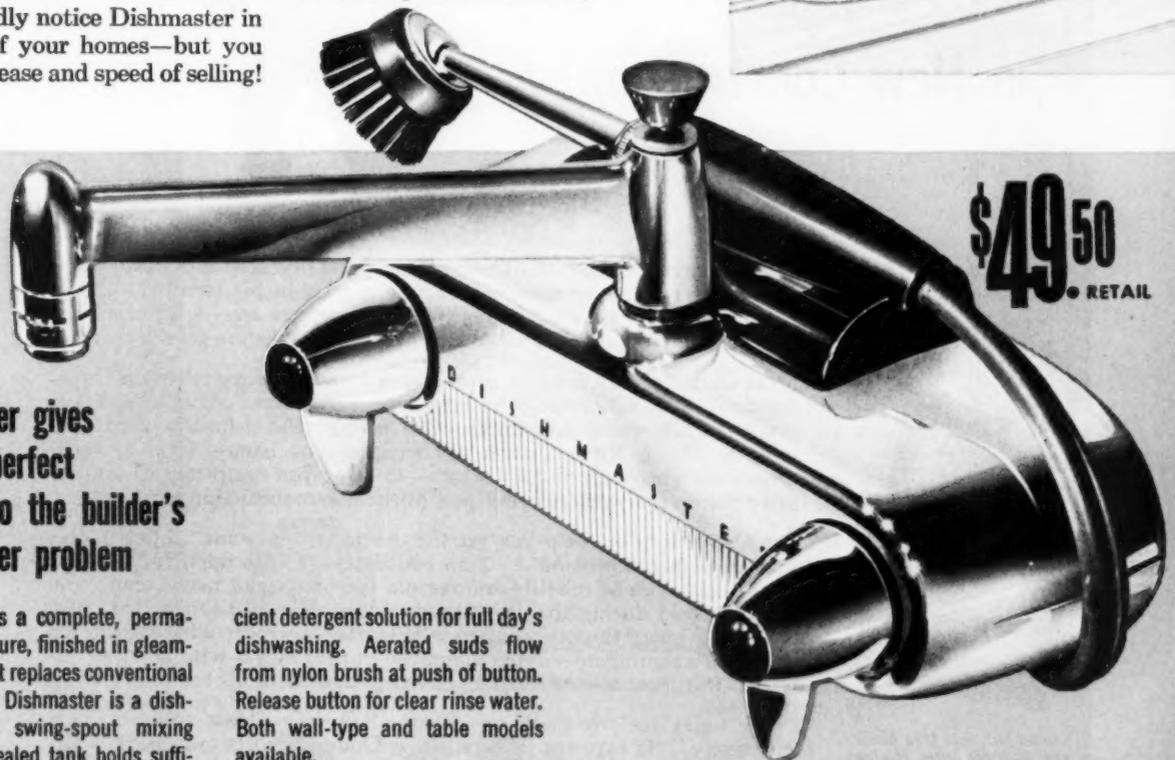
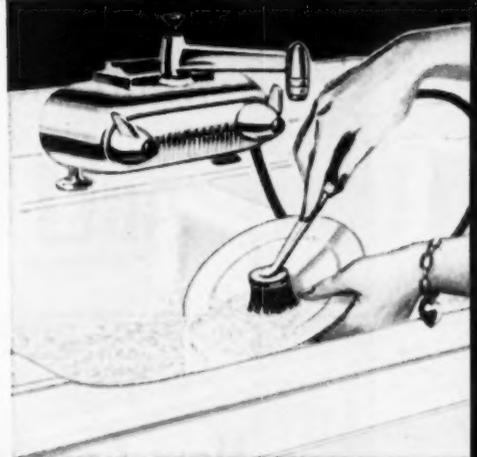
Sensational Dishmaster
WASHES dishes
in SCRAPING time!
Requires no floor space!
Installed in minutes, even
by inexperienced workers!

Offer your prospects sensational *push-button dishwashing*—at an amazingly low cost to you! Watch Dishmaster help sell your homes! Just look at these advantages:

- **Saves cost of faucets!**
- **Takes place of faucets!**
- **Fits any sink!**
- **Needs no special piping!**
- **Quickly, easily installed!**
- **Requires no floor space!**

You'll hardly notice Dishmaster in the cost of your homes—but you will in the ease and speed of selling!

Here's why: *Because Dishmaster does a complete job of washing dishes, glassware, silver, pots and pans—in just the time it takes to get dishes READY for washing in high-priced "automatics!" What's more, you can prove it to any prospect in a minute!* Cash in on these exclusive sales features and on the powerful national magazine advertising that's pre-selling Dishmaster for you. Send coupon for the facts!



Dishmaster gives you the perfect answer to the builder's dishwasher problem

Dishmaster is a complete, permanent sink fixture, finished in gleaming chrome. It replaces conventional sink faucets. Dishmaster is a dishwasher and swing-spout mixing faucet. Concealed tank holds sufficient

detergent solution for full day's dishwashing. Aerated suds flow from nylon brush at push of button. Release button for clear rinse water. Both wall-type and table models available.

Send Coupon for Details on Dishmaster Deal!

DISHMASTER
 The Push-button Dishwasher

GERITY-MICHIGAN CORPORATION

Dept. W-2, Builder Division, 10 S. Superior Street, Toledo 4, Ohio

Send me details of the Dishmaster Deal for Builders.

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 Firm _____
 Street _____
 City _____ Zone _____ State _____

This man ***KNOWS***

where he's

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in New Construction!

He's a contractor who uses Dodge Reports. They keep him posted *daily* on every phase of the new construction market in his territory. Dodge Reports tell him *who* and *where* his best prospects are—*what* and *when* they're going to build and when action should be taken to get the business.

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Let Dodge Reports help *you* get the contracts you want. They'll keep you ahead of competition . . . keep you alert to golden opportunities that might otherwise be missed—among old customers and new—stand you in good stead during the days ahead. More than 900 Dodge field men constantly comb the new construction market to report what's going on and what's coming up—being planned—out for bids—who gets the contracts. Put these men to work discovering business leads for *you!*

Write today for free book on "Dodge Reports — How to Use Them Effectively." It explains in detail how Dodge Reports can take the all-important *first* step to business for you.



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Timely, accurate, comprehensive construction news service

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exciting
new

Flintkote Color-Line*

**gives you insulating siding that
blends perfectly with modern
architectural style**

Get ready to make yourself some extra profits...and some good friends...with Flintkote's beautiful new line of insulating siding.

COLOR-LINE is loaded with new eye-appeal, new *buy* appeal, and is made-to-order for color-seeking prospects.

You can offer pastel color freshness that customers have never seen before in insulating sidings...dewy green, warm red, rich brown and dignified gray. And new striations, that *do not pattern on the wall!*

A new, beautifully grained texture surface enhances the Flintkote practical advantages you know so well.

Apply smart-looking Flintkote COLOR-LINE Sidings on your new houses, as well as for fall modernization. They'll go over big with home-owners.

Sign on THIS COLOR-LINE! You never *had* such siding value to sell!



*Now available *in the West* in gray, green, brown and red (Narro-Lap). In the East, in gray and green... Shake design.

the extra years of service cost no more!

THE FLINTKOTE COMPANY, Building Materials Division
30 Rockefeller Plaza • New York 20, N. Y.

Roly-Doors Help Sell Any Price Home . . .

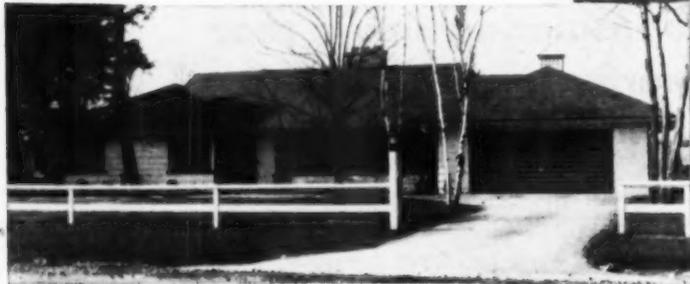
MORRISON

Roly-Door

**STEEL SECTIONAL
GARAGE DOORS**

READ THE FACTS . . . ACTUAL STATEMENTS OF PROMINENT BUILDERS

● Here's what Norman Kaye of Kaye Manor says:
"There is no doubt in the minds of our sales force that Roly-Door has been beneficial in the sale of many of our homes."



● Let Harold G. Shipp, G. S. Shipp and Son, Ltd., tell you:
"Because both our prospects and purchasers have been so favorably impressed by their modern styling and ease of operation, we are sure that Roly-Doors have been a real help in selling many of our homes."

● A. Sidney Roth, of Rothrock Builders explains it this way:
"We have found that the Roly-Door meets our high standards of performance and has given us trouble free service in over 200 installations."



ONLY ROLY-DOORS GIVE YOU ALL THESE ADVANTAGES

- Four Sectional, Overhead Steel Garage Doors.
- Will not rot, warp or absorb moisture.
- Quiet, free rolling, ball-bearing operation.
- Rugged, welded steel construction.
- Low installation cost.
- Conforms to any style of architecture.
- All metal surfaces and hardware are coated with zinc phosphate.
- Red oxide baked prime coat.
- Can be painted with regular house paint in your choice of color.
- Pin tumbler locks . . . keyable to fit home doors.
- Meets all Building Codes.
- Three sizes — 8, 9 and 16 foot.

HERE IS PROOF that successful builders everywhere are increasing the "sales appeal" of their new homes . . . regardless of price class . . . by installing Roly-Doors. Sell your new homes faster . . . easier. Let Roly-Doors give your homes the *extra* value that turns quality-conscious prospects into enthusiastic buyers.

**For complete information, see
your Roly-Door Distributor or**



ROLY-DOOR DIVISION, Morrison Steel Products, Inc.
644 Amherst Street, Buffalo 7, N. Y.

Gentlemen: We need more information on Roly-Doors for Quality Homes.

Firm Name.....
 Address.....
 City..... Zone..... State.....

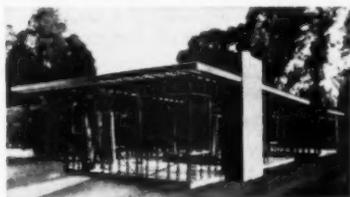
In Canada, Roly-Door Distributors, Ltd., 1330 Bloor, W., Toronto 4.

Also manufacturers of MOR-SUN WARM AIR FURNACES and CARRY-ALL TRUCK BODIES

new products

STRUCTURAL STEEL SECTIONS AB95308

"Lightsteel" units are stated to be ideal for homes, industrial and commercial structures. A complete range of studs, joists and accessories is available. Sections are made from cold rolled strip steel and feature a double trussed, scientifically proportioned, open web design.



By their use, plus modern welding methods, architects find they are unhampered by many design restrictions.

Supplementary structural track and bridging for use as top and bottom plates, bracing and sills are also in production. Track sections are made slightly oversize to fit around the standard sections; bridging is slightly undersize to fit within the flange of standard sections. Penn Metal Co., Inc., Dept. AB, 205 E. 42nd St., New York 17, N. Y.

DOUBLE-GLAZED WINDOW AB95315

The first all-glass double-glazed insulating window, called "TwindoWeld," edges of which are electrically fused to provide a glass-to-glass seal having no metals, bonding materials or other assembled parts in its construction, is in manufacture. It is designed for residential glazing and other building applications where quantities of relatively small-size insulating units can be used. The glass comes in sizes up to 50x62 inches.

TwindoWeld consists of two layers of 3/8-inch-thick glass separated by a 3/16-inch air space. Air between the panes is removed in the manufacturing process



and replaced by specially dried air (see illustration). Internal air pressures are adjusted to enable the units to withstand atmospheric pressures in altitudes up to 3,000 feet. Constituting an efficient thermal insulating unit, this glass is also claimed to reduce condensation problems. Pittsburgh Plate Glass Co., Dept. AB, 632 Duquesne Way, Pittsburgh 22, Pa.

◆ FOR MORE INFORMATION
USE COUPON, PAGE 218

SEPTEMBER 1953

A NEW MAGAZINE



... Serving the
nation-wide swing to

PREFABRICATION

PF, the Magazine of Prefabrication, answers the need for a publication to keep you posted on the sensational swing to prefabricated housing taking place in all parts of the country. It's the new official journal of the industry, serving some 12,000 dealer-builders in 47 states, manufacturers, realtors, mortgage lenders, suppliers, housing officials, and others seeking information about the opportunities this expanding field offers.

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Prefabricated Home Manufacturers' Institute
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MONARCH

ASBESTOS SIDING and SHINGLE

CUTTER

GIVES YOU THE EDGE WITH

- EASE OF OPERATION
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- LONG LIFE

Applying asbestos siding and shingles is simple with the Monarch Cutter. Can be operated by anyone—quickly, easily and accurately. Monarch's malleable casting have greater toughness, higher resistance to corrosion and will stand up under the heaviest service.

27" and 32"
MODELS AVAILABLE
FOR IMMEDIATE
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Check these Features:

- Notcher • Front Nail Hole Punch • Gauged Punch on Handle
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Write today for full information and name of your nearest distributor.

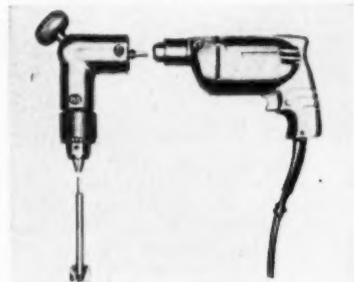
TEXAS FOUNDRIES, Inc., Lufkin, Texas
ORGANIZED for SERVICE

SAVES YOU MONEY
ON LABOR COST

new products

DRILL ATTACHMENT AND BITS AB95305

The "Korner King" is a new right-angle drill attachment offered in a kit with ten high-speed bits. The right-angle drive triples the range of heavy-duty electric drills by adding two more speeds to their operation. The unit converts 3/4-inch capacity drills of 2,000 r.p.m. to 1,000 r.p.m. with 80 per cent more power;



it reverses this gear ratio simply by snapping the switch off and on for high-speed drilling of sheet metal.

The drive's compact design allows drilling in otherwise impossible locations, as between joists and studs or in tight corners. Special shaft extensions for the high-speed bits permit penetration of any thickness and alignment of holes through any series of obstructions, it is stated. The ten bits of 3/8-inch to 2 1/2-inch diameters have curved cutting blades, requiring less thrust, developing less torque. R.C.S. Tool Sales Corp., Dept. AB, Joliet, Ill.

ACOUSTICAL TILEBOARD AB95304

With noise reduction coefficients of .60 to .75, these perforated acoustical tileboards are available in 1/2- and 3/4-inch thicknesses. They are made in 12-inch squares and have a beveled butt edge. Recommended application is with adhesive over solid backing or nails over furring strips. Three holes in each corner are shallow-drilled for application with collar or flat-head nails.

Tiles feature a light-color base stock and smooth white surface which gives high light reflection. They are easily



cleaned with a brush or other dry cleaning methods, or with a damp cloth. Tiles may be repainted without affecting their sound absorption qualities. Minnesota and Ontario Paper Co., Insulate Division, Dept. AB, 500 Baker Arcade Bldg., Minneapolis 2, Minn.

♦ FOR MORE INFORMATION
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AMERICAN BUILDER

POWERFUL TRIP-HAMMER ACTION MAKES HANSEN

"Best for
Builders"

HANSEN tacks

- CEILING TILE
- INSULATION
- SCREENS
- CORNERITE
- HYDRON
- BUILDING PAPER

MASKING WINDOWS with HANSEN ONE-HAND TACKER

MATERIAL is held in one hand—tacked with other operating Hansen Tacker. Strips protect window while spraying—then quickly ripped off. Just one of many uses in building and other types of construction.

36 MODELS
80 STAPLE SIZES

Hansen makes a complete line of tackers and staplers—with a model and size staple to suit your individual needs. Use Hansen and save time, steps, materials.

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BOOKLET
T-40



A. L. HANSEN MFG. CO.

3059 RAVENSWOOD AVE., CHICAGO 40, ILL.



Barcol. OVERdoors

... for a distinctive
"main entrance" to
the modern American home

Alert builders and architects are giving modern homes more "face value" by making the garage door an important part of exterior design. Barcol OVERdoors in a wide variety of individual "stylized" designs have proved convincingly that they add "buy appeal" to any home. And their beauty is more than skin deep—it is backed up by quality workmanship and durable hardware of heavy-gauge quality. Barcol's patented cam-closing action assures a weather-tight fit without sticking or jamming. Twin torsion springs give perfect counterbalancing—and ball-bearing rollers help door open and close easily. Two price lines fit every home requirement. Sold, installed and guaranteed by your factory-trained Barcol distributor.



Photo by Fred Colman, reproduced by Architect A. Royce Eastman; Contractor W. H. Brown

Add "electronic" sales appeal with Barcol Radio Control

Headline your home values with electric operation for garage doors, radio-controlled direct from the dashboard of owner's car. Once they try it, 90% buy it. This star feature upgrades buyers' standards of home value several hundred dollars—yet cost averages under \$350.00 for 2-car operation (freight and installation cause a variation). Try it yourself—your Barcol distributor has a special proposition for builder's own residence or office installations. Phone him today!



CALL YOUR BARCOL OVERdoor DISTRIBUTOR

Look under "Doors" in phone directory or write for complete information.

BARBER-COLMAN COMPANY, DEPT. Q39, ROCKFORD, ILLINOIS, U. S. A.

Name

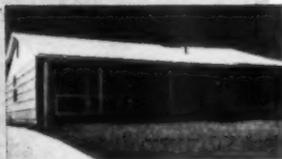
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City & State

Like so many others . . .

The builders of
Place Homes* are
SOLD on...

GLIDE-ALL Sliding Doors



"They Save Us Time and Money"
... Says Mr. Robert B. Place: President, Place Homes, Inc.

"In our business time is really money, so one of the first things that interested us in Glide-All Sliding Doors was the fast, easy installation.

"The extra, easily accessible closet space these durable, trouble-free doors provide gives our homes an important plus feature at relatively low cost."

You and your customers will applaud the advantages of Glide-All Sliding Doors, too. They are available in overhead hanging roller or bottom roller types. 8' floor-to-ceiling or 6'8" standard heights.

Write us today for the complete details and literature.

*Place Homes Inc., South Bend, Indiana, are manufacturers of pre-cut, packaged houses sold through franchised builder-dealers throughout the midwest.



..and so are
their
customers



Glide-All Sliding Doors are
Easiest to Install •• As Easy as

- A** Top track is easily mounted on ceiling with screws.
- B** Aluminum bottom channel is simply screwed to floor.
- C** Doors are mounted on tracks by engaging top rollers in steel top track—then engaging bottom door guide in aluminum floor channel.

They provide easier-to-use closet space

They complement the design and beauty of any home

They're well named for they glide smoothly and easily

4 Woodall Plants Coast-to-Coast Save You Shipping Time and Costs!

Glide-All Sliding Doors are a product of
WOODALL INDUSTRIES INC.
DETROIT 34, MICHIGAN

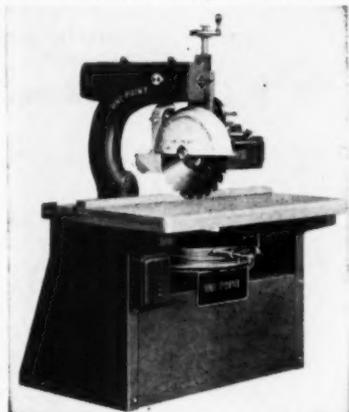
Write to Plant nearest you
CHICAGO, 3504 Oakton St., Skokie, Ill. • LAUREL, Miss., P. O. Box 673 • NEW YORK, Glen Cove Rd., Mineola, N. Y. • SAN FRANCISCO, 1970 Carrol Ave.

new products

RADIAL SAW

AB95310

The improved "Uni-Point" radial power saw is designed with a blade which cuts exactly at the same point in the table, whether adjusted for a bevel, miter or compound miter cross cut angle. This feature eliminates many machine adjustments and reduces set-up time on others.



The technique of "one point cutting" on general shop work, manufacturers claim, will save up to 25 per cent in production man hours.

Steel construction is used throughout the housing and ram assemblies. Steel ladder bearings ride on hardened steel bearing ways. Unit generally uses a five h.p. motor and uses a 16 inch saw blade, giving a five inch depth of cut. Telescoping ram design provides a 25 inch cross cut capacity. American Woodworking Mach'y Co., Dept. AB, Hackettstown, N.J.

SINK COMBINATION

AB95312

This 54 inch standard sink combination has two drawers, one with built-in cutlery tray. Sizeable shelves behind the right and left hand cupboard doors provide ample storage space.

The acid-resistant porcelain sink has one bowl and a double drainboard. Unit comes equipped with a chrome swing spout faucet, stainless steel cup strainers and chrome handles on drawers and doors. Unit is also available in a 66 inch



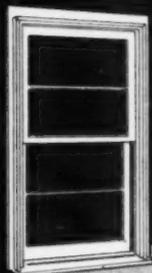
model, the sink having two bowls and a double drainboard. Capitol Kitchens, Division of Hubeny Brothers, Inc., Dept. AB, Roselle, N.J.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218

AMERICAN BUILDER

BILT-WELL

SUPERIOR UNIT WOOD WINDOW

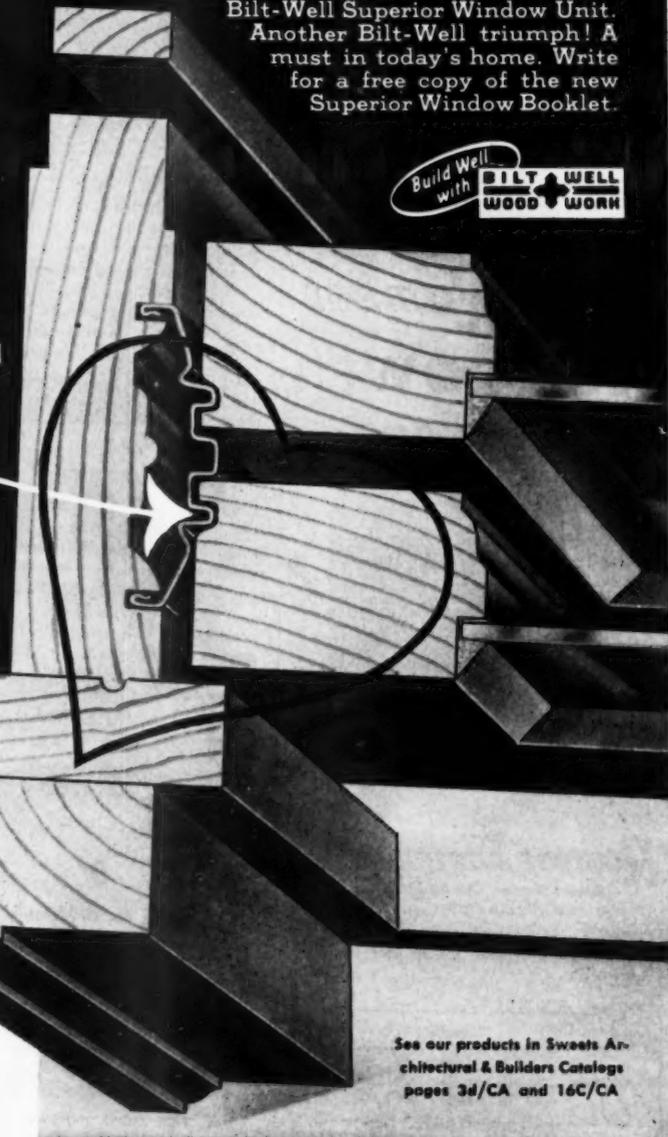


The Heart of the
BILT-WELL
SUPERIOR WINDOW
is its Flexible
Jamb Liner
Weatherstrip



Twice as weather-
tight . . . with only
 $\frac{1}{10}$ th the lifting
effort!

Absolutely the best double hung window . . . there's never been another window of equal simplicity for assembling—for unsurpassed ease of installing—for free sliding and snug fitting qualities. Here's a KD, bundled, semi-assembled, completely prefitted, fully weather-stripped, counterbalanced window—ready to assemble by Jobber, Dealer or Builder. Compare its superiority with any window—feature for feature, point for point. Herein will be the proof of its superiority: The patented Superior jamb-liner weatherstrip is the heart of the Bilt-Well Superior Window Unit. Another Bilt-Well triumph! A must in today's home. Write for a free copy of the new Superior Window Booklet.



Here's a list of
the **BILT-WELL LINE**

- Superior Unit Wood Windows •
- Nu-Style & Multiple-Use Cabinets •
- Carr-door Garage Doors • Sectional Overhead Garage Doors • Combination Doors • Screens & Storm Sash •
- Basement Unit Windows • Shutters •
- Exterior Doors • Interior Doors •
- Entrances • Louvers & Gable Sash •
- Corner China Cabinets • Ironing Board Cabinets •
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See our products in Sweets Architectural & Builders Catalogs pages 3d/CA and 16C/CA



NEW *Ramset* PLUS-POWER JOBMASTER

Ask your local RAMSET Dealer or mail the coupon for details about RAMSET'S newest powder-actuated tool for steel and concrete fastening. Does many heavy-duty jobs at light-duty cost. Saves $\frac{1}{3}$ cost of heavy-duty powder loads. Ask also about new Tru-Set Flat Head Drive Pins, especially designed for PLUS-POWER JOBMASTER, for additional economy on many jobs.

Ramset Fasteners, Inc.

Ramset Division, Olin Industries, Inc.
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Please send details on PLUS-POWER
JOBMASTER and new Tru-Set Flat Head
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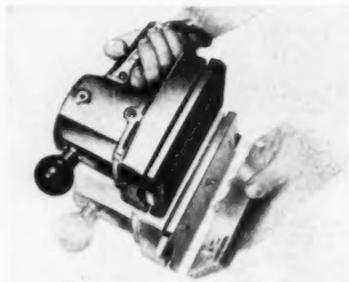
AB-9

new products

MOTOR-DRIVEN SANDER AB95332

A rotary motor-driven sander with straight-line reciprocating action and the power to do a professional finishing job has been placed into production. This new model "53" is the first motor-driven sander of its kind to offer straight-line action, according to the maker, who says it will not gouge, leave lap marks, cut orbital swirls, or other hard-to-cover abrasive patterns.

The sander also features a unique paper-holder assembly that detaches from the machine at the flick of a finger.

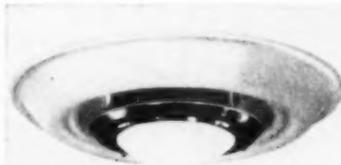


An extra paper-holder unit is furnished so that grits can be switched quickly without bothersome paper change. It is designed for rugged duty on construction work. Compact in construction, it weighs approximately $5\frac{1}{4}$ pounds, uses standard size $3\frac{3}{4}$ x9-inch abrasive sheets. It has a polished aluminum housing, lifetime sealed ball bearings and is driven by a 110-120 volt, 60 cycle a.c. rotary motor. Dremel Mfg. Co., 2409 18th St., Racine, Wis.

AIR DIFFUSER-LIGHT FIXTURE AB95326

Combined air diffuser and recessed conical lens lighting fixture for use in any room in the house is furnished complete in several sizes or neck diameters, accommodating 100- to 200-watt bulbs.

As an overhead heater, the unit is connected with heating duct in the ceiling, gently forcing warm air downward and



outward in a circular pattern above the heads of room's occupants. Supply air and room air are mixed within a few inches of the diffuser. Its heating capacity ranges from 7,000 to 23,000 Btu's per hour, and its cooling power from 80 to 350 cubic feet of air per minute. Connor Engineering Corp., Dept. AB, 500 Fifth Ave., New York 36, N.Y.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218



Vitroliner, the pioneer prefabricated chimney, is a complete packaged chimney ready for assembly on the job in one hour or less. Vitroliner is pre-cut at the factory—with a tailor-made roof flashing and flue housing that eliminates cutting or fitting on the job.

COMPARE ALL COSTS BEFORE YOU BUY

Reduced installation time makes Vitroliner the highest quality prefabricated chimney available at the lowest installed price. That's why they are nationally accepted and the choice of many leading home builders, prefabricators and single contractors as well.

Vitroliner is a quality product, engineered and constructed for long life. It is designed to harmonize with the architectural lines of ranch houses and today's modern homes, and can be finished in any architectural color scheme.

The standard flue housing illustrated is 19"x19" square and 21"x21" on the top. The De Luxe flue housing for larger homes is 19"x34" and 21"x36" on the top.

Approved by F.H.A. and listed by Underwriters Laboratories for ALL FUELS. Also approved by local building authorities and State Insurance Rating Bureaus.

- LOW INITIAL COST
- LIGHTWEIGHT—10 TO 15 LBS. PER FT.
- HIGH HEATING PLANT EFFICIENCY
- MANUFACTURED IN 6", 7", 8" AND 10" DIA.

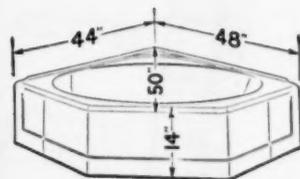
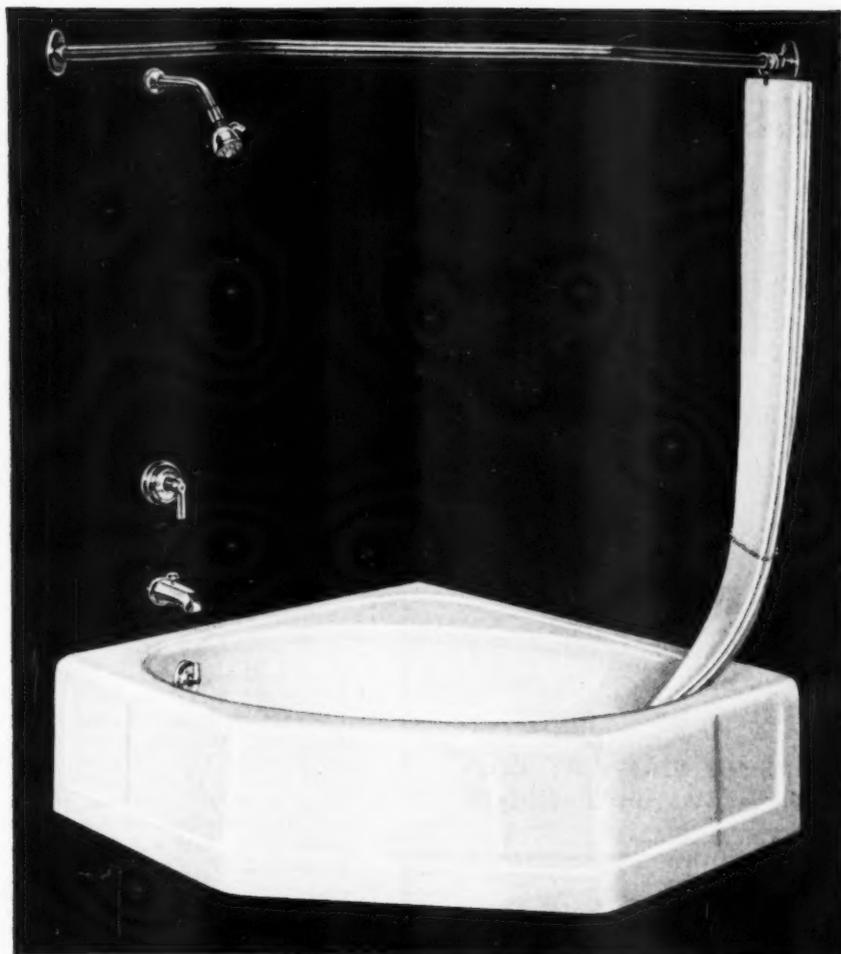
WRITE FOR CIRCULAR TODAY



CONDENSATION

ENGINEERING CORPORATION
3511 W. POTOMAC AVE., CHICAGO 51 ILL.

AMERICAN BUILDER



Enameled Iron Corner Bath

*Mayflower corner bath, with
Niedecken mixer fitting and
multi-spray shower head.*

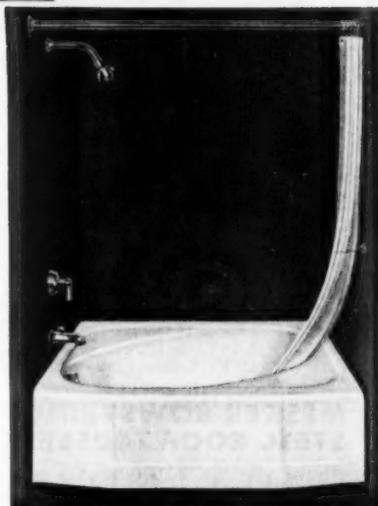
KOHLER MAYFLOWER

New styling for fine bathrooms

The Mayflower offers opportunities for many interesting new bathroom arrangements plus new individuality and beauty in plumbing fixture design. The distinctive oval bathing and showering area is wide and roomy. Access is safe and easy over the low front. Integral seat is added safety feature, convenient for foot or sponge bathing.

The sparkling, easy-to-clean Kohler enamel is protected from strain because it is fused to a strong rigid base of cast iron. Available in popular Kohler white and six colors.

Kohler Co., Kohler, Wisconsin. Established 1873

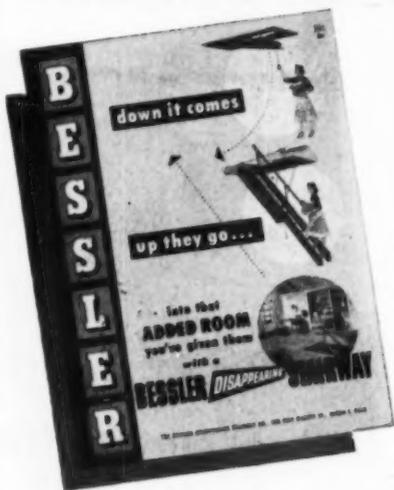


*Mayflower recess bath with
two integral seats. Length
48", width 44", height 14".*

KOHLER OF KOHLER

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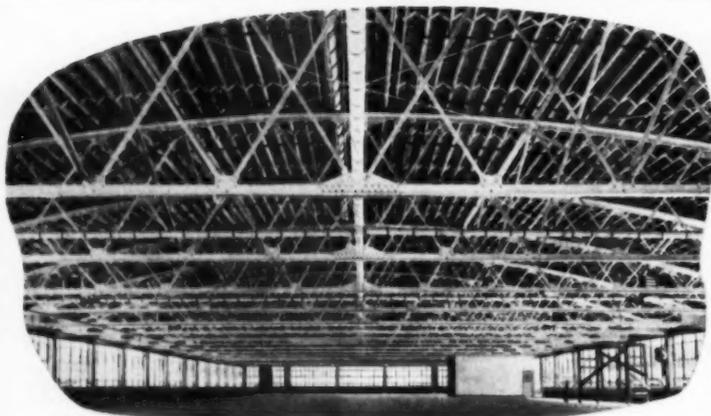
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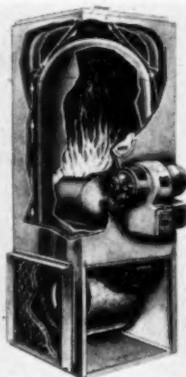
new products

COMPACT HEATING UNIT

AB95331

Delco Appliance Division announces the newest addition to its Delco-Heat product line, OBC-75H. The new unit is priced low. The new design features wrap-around casing, simplified construction.

The OBC-75H is engineered for maximum operational economy. It features a



pressure-atomizing oil burner, 16-gauge heat transfer unit (seam-welded), stainless steel combustion chamber, heavy-duty steel cabinet, large-capacity blower, spun glass air filter, Delco-built coordinated controls, and is designed for application in closet, utility room or basement. Delco Appliance Division, General Motors Corp., Lyell and Whitney Sts., Rochester 1, N.Y.

DOOR LOCK-PULL

AB95311

A lock for screen, storm and combination doors is now being produced in heavy-gauge aluminum. Its pivot-hinged handles provide positive locking action. The unit is said to lock even badly warped doors effectively.

Simple construction of the latching catch makes it possible for the lock to serve both as door lock and door pull.



By engaging the lock with the latch in the retracted position, it will allow the door to swing free, and the lock will then serve as a door pull. The unit is completely reversible for right- or left-hand doors. Schlage Lock Co., Dept. AB, 2201 Bayshore Blvd., San Francisco, Calif.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218

AMERICAN BUILDER



with **Columbia-matic** **TENSION SCREENS**

Give your homes the plus sales advantages of Columbia-matic Tension Screens. Columbia-matics are the only screens on the market offering automatic tension. Wherever they have been introduced, Columbia-matics have made a hit with both builders and buyers. They are the perfect way to screen a double-hung window . . . the perfect complement to modern double-glazed windows.

Precut to your specifications. Perfect fit assured. No fitting. Can't swell, stick, warp.

Easily installed. Ready to mount from inside. Only 7 screws. No template.

Cost less than ordinary, full-length screens. Installation time is cut to a fraction of that required for wooden screens. Takes an inexperienced man less than 5 minutes. No painting.



Patented bottom rail is spring-loaded . . . automatically puts right amount of tension on screening. Keeps it drum-tight to blind stops at all times . . . automatically compensates for unevenness in

Only Columbia-matic **gives AUTOMATIC TENSION**

sill; temperature changes. Screen can't sag or ripple. Easy-open tension locks anchor screen firmly, flip up to open. Side-mounted, no hardware on sill to snag clothing. Another Columbia-matic exclusive.

These are the Columbia-matic features home buyers go for:

Save time—Easy to put up and take down from inside. Anyone can do it in seconds.

Save work—No more struggling with clumsy wooden frames or ladders. Columbia-matics have top and bottom rails only. Roll up for compact storage.

Save money—All rustproof aluminum. No drip stains on house. No painting, maintenance. Full-length aluminum mesh gives complete insect protection.



16,000 Columbia-matics!

Mr. Clifford O. Boren, President, San Diego Building Contractors' Association, says:

... "We have used 16,000 Columbia-matic Screens in our Redwood and Hubner developments. We have found them completely satisfactory. Not only do our customers like them, but they save us considerable on installation costs..."

Clifford O. Boren
President,

Clifford O. Boren Contracting Co., Inc.

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Columbia Mills, Inc.
Dept. **A-9**, Syracuse 2, N.Y.

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NEW DRIVE-IT 320 with BREAK-OPEN ACTION



**MAKES SPLIT-SECOND FASTENING
TO CONCRETE OR STEEL... EASIER THAN EVER**

BREAK-OPEN ACTION for fast, easy loading and extraction makes new **DRIVE-IT** "320" the easiest operating stud driver on the market. This smooth-working action means a greater saving to you on concrete or steel fastenings.

Here are other exclusive **DRIVE-IT** features that make it the best tool available:

ONE POWER LOAD. No need to buy and stock various strength power loads with exclusive **DRIVE-IT** power control method.

AUTOMATIC EXTENSION BARREL allows fastenings inside junction boxes and other recesses. No need to buy and attach extra barrels.

SWIVEL SAFETY PAD of tough rubber and steel protects operator and permits fastenings next to walls.

SAFE two-handed firing sequence and length of tool offer maximum protection. Can't be discharged accidentally or in mid-air.

DRIVE-IT pins are listed and approved by Underwriters' Laboratories.



DRIVE-IT
the original

POWDER ACTUATED TOOL

216

new products

GLASS JALOUSIES

AB95317

Louwer windows and doors for porches, breezeways and rooms have movable glass panels that slope outward like louwer boards, admitting air and light, excluding air and wind. The units provide unobstructed visibility at all times, whether panels are open or closed.

With extruded aluminum frames, sealed aluminum casings and welded metal corners, the jalousies are watertight and vibrationless. All units are

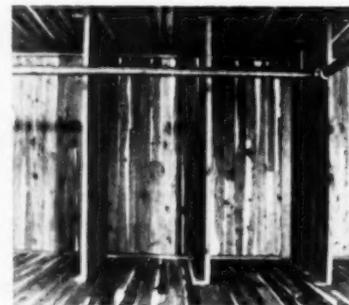


equipped with plastic weatherstripping at the head and sill where the top and bottom glass louvers compress it to a complete seal when vanes are tightly closed. Precision adjustment and exact balance assure easy operation, with free action of up to 30 louvers on a single control. Recessed inside screens of aluminum frames and mesh are held in place by easily-turned clips. All Weather Jalousies, Inc., Dept. AB, State Highway 46, Teterboro, N.J.

CEDAR CLOSET LININGS

AB95325

Cedar closet linings can be installed directly over open studding, eliminating closet plastering and requiring no painting. Southern juniper, known commercially as "Tennessee Aromatic Red Cedar," is impregnated with the natural cedar oil. Since it retains its fragrance through the years, this wood maintains



its reputation as a practical closet lining, as well as being a selected wood for chests and cabinets.

This cedar is 3/8-inch thick, tongue-and-grooved and end-matched for easy erection and air-tight construction. It is factory packed and sealed in four- and eight-foot bundles for small and large installations, with minimum waste. Geo. C. Brown & Co., Inc., Dept. AB, Greensboro, N.C.

♦ FOR MORE INFORMATION
USE COUPON, PAGE 218

AMERICAN BUILDER

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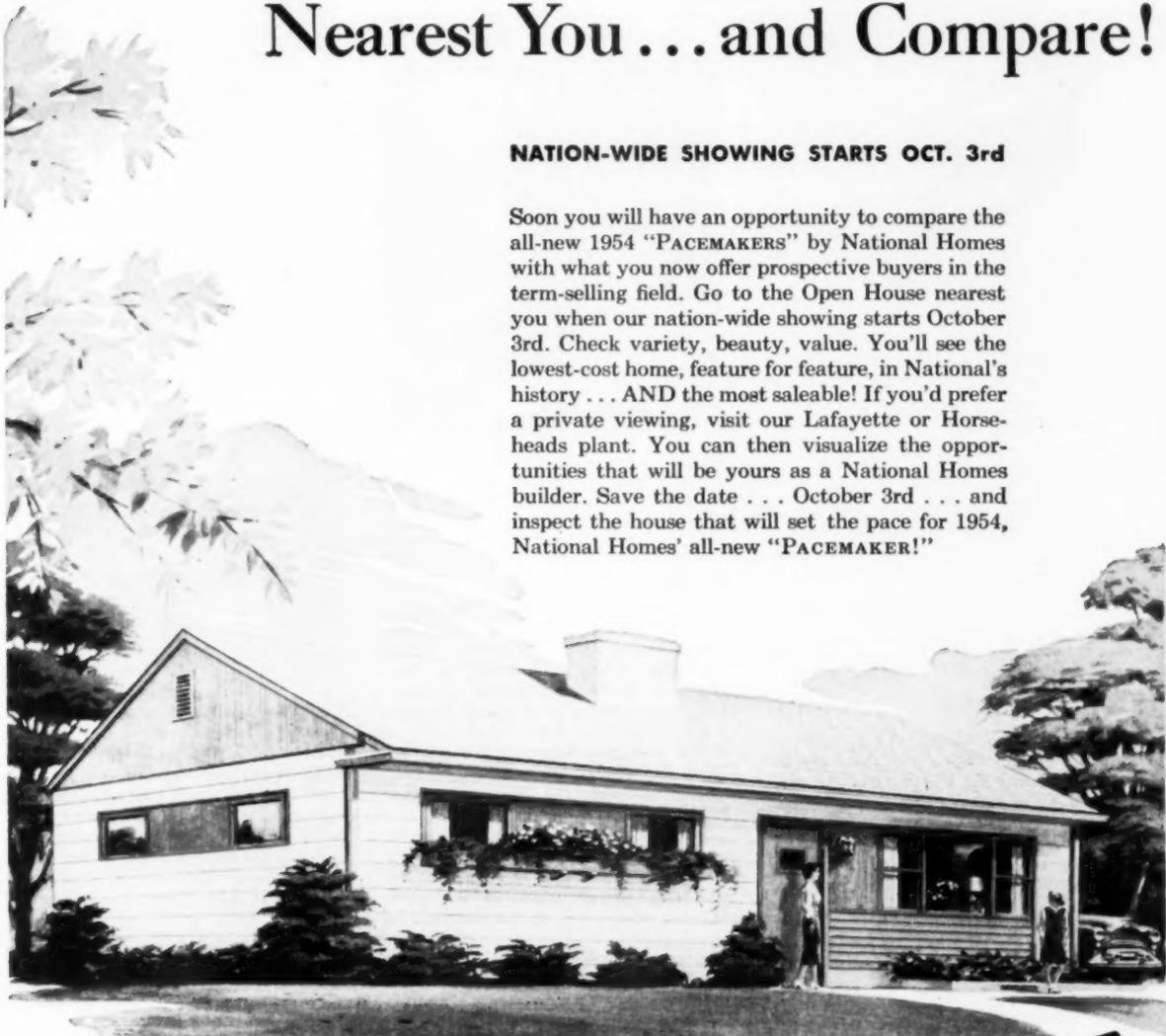
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NATION-WIDE SHOWING STARTS OCT. 3rd

Soon you will have an opportunity to compare the all-new 1954 "PACEMAKERS" by National Homes with what you now offer prospective buyers in the term-selling field. Go to the Open House nearest you when our nation-wide showing starts October 3rd. Check variety, beauty, value. You'll see the lowest-cost home, feature for feature, in National's history... AND the most saleable! If you'd prefer a private viewing, visit our Lafayette or Horseheads plant. You can then visualize the opportunities that will be yours as a National Homes builder. Save the date... October 3rd... and inspect the house that will set the pace for 1954, National Homes' all-new "PACEMAKER!"



1954 "PACEMAKERS" by National Homes will be advertised in full color in Saturday Evening Post, Life, Better Homes & Gardens, This Week, Parade, Good Housekeeping and other leading magazines. Think what such promotional backing could mean to YOU!

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HOMES[®]

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MAGAZINE

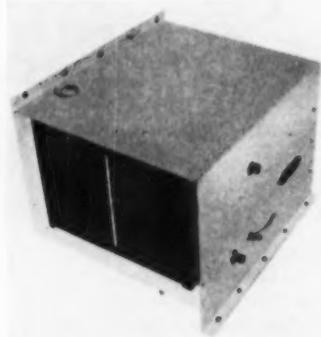
National Homes' prefabricated panels and structural parts as they leave the assembly plant carry the Good Housekeeping guarantee seal and the Parents' Magazine seal of commendation as advertised therein.

new products

AIR CONDITIONER

AB95323

A two-package, summer air conditioning system for the low- and medium-price home building field is introduced. According to its manufacturer, its cost will



add less than three per cent to the cost of a modern medium-sized home. The unit lends itself to installation in existing homes as well as new ones. Its design is stated to reduce duct work to a minimum.

The unit's capacity, as designed for a large housing project, is 15,700 Btu's per hour. It requires no water and is installed independently of the heating system. The generator unit is 32x13 $\frac{3}{4}$ -x27 inches and, for exposed installations, is furnished with a weatherproof cover. Conditioner unit is 28x21x23 $\frac{3}{4}$ inches, including air filter, twin fans and cooling coil. York-Shipley, Inc., Dept. AB, P.O. Box 349, York, Pa.

STAPLING TACKER

AB95318

This gun-type tacker shoots patented wedge-pointed carbon steel wire staples up to $\frac{9}{16}$ -inch leg length. It can be used for applying all types of insulation materials, building papers, batt wool and foil, canvas, roofing felt, shingles, siding, ceiling tile, wiring and similar building applications.

The tool's spring action works on the principle of double leverage for smooth action and power. It is designed to fit the



hand comfortably. A non-clogging mechanism prevents jamming of staples, permitting only one staple at a time to be ejected from the staple track. Stapler holds 125 staples for fast continuous tacking. Arrow Fastener Co., Inc., Dept. AB, 1 Junius St., Brooklyn 12, N.Y.

MORTISING TOOL, MARKER

AB95329

Two carpenter tools, a butt marker and a mortising tool, are being introduced under the trade name of "Gohm." The first is used to mark position in one operation for all butts on doors and jambs; it is claimed to eliminate guesswork and adjustments. It folds to fit in any standard tool box.

The mortising tool (illustrated) is constructed to fit a standard $\frac{1}{4}$ -inch electric drill. Simple to operate, its makers state that doors and jambs for a five-room house can be mortised in



less than one hour. Its use eliminates the possibility of errors in exacting cuts; no templates are needed. Knight Mfg. Co., Dept. AB, 914 Citizens Bank Bldg., Flint 3, Mich.

SKYLIGHT GLASS BLOCK

AB95321

A new glass block called "Skytrol" is designed for use in skylights, both structurally and optically. The normal insulating value of the glass block has been increased by the addition of a fibrous glass screen sealed in the block, creating a double cavity. This screen gives a better insulating characteristic to the block and offers better daylighting control by diffusing the light, the manufacturers say.

Panels of the block can be used in new buildings and to replace existing skylights. Construction specifications are adaptable to all types of buildings. Special supervision in construction is

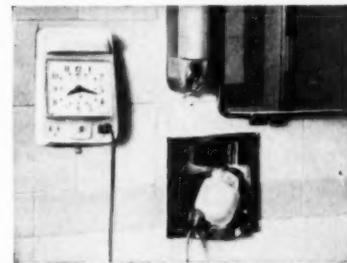


not necessary. The block is 12 inches square, four inches thick. Pittsburgh Corning Corp., Dept. AB, 307 Fourth Ave., Pittsburgh 22, Pa.

BUILT-IN CLOCK

AB95322

A built-in electric clock designed to give new houses added sales appeal serves as a timepiece, provides two outlets for other electric appliances and has a night light. The unit is installed over a standard 4-inch wall box and shows no cord of its own. Its two outlets can supply current simultaneously to a heater, electric razor or other electric appliance.



The seven watt bulb gives light to save stumbling during the night.

The "Tel-in-Wall" is designed of white plastic. It measures 7 $\frac{1}{8}$ x4 $\frac{1}{8}$ inches; white dial has black characters and red hour dots; black hour and minute hands and a red sweep second hand; night light is controlled by a red switch below the dial. General Electric Co., Apparatus Dept., Dept AB, 1 River Road, Schenectady, N.Y.

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Save Time—Just Insert Key Numbers and Mail To:
American Builder, 79 W. Monroe Street, Chicago 3, Illinois

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OIL-FIRED FORCED AIR FURNACE
FEATURES NEW, MODERN,
MASS PRODUCTION
WRAP-AROUND DESIGN FOR
LOWEST BIDDING PRICE
EVER OFFERED
BUILDERS!



Costly frills and extras

eliminated without sacrificing quality



To offset rising costs, General Motors Delco-Heat now offers you top-quality, top-performance heating units at new, low prices for truly profitable installation. The new economy OBC75-H oil-fired Conditionair is compact—only 25x25x66 $\frac{3}{4}$ for use in closets or other small out-of-the-way spots. 75,000 Btu/Hr. output. Has new wrap-around steel cabinet with Delco Green enamel finish. The 16 ga. steel heat transfer unit is seam welded to eliminate combustion leaks. The Circle-Air Radiator adds an extra heating surface—improves efficiency. Other great Delco features are the Quik-Action stainless steel combustion chamber; Delco-Heat Pressure Oil

Burner powered by the vibration-free Rigidframe Motor; centrifugal blower; replaceable air filter; wrap-around wipe sheets; knockouts in side panels that permit installation of filter at either position; and base pan with knockout for floor return.

Similar in every detail, the new Model GBC90-H answers all your needs for an economy Gas-Fired Conditionair. Both models shipped assembled.

For warm air, hot water or steam installations—gas- or oil-fired—for every kind of heating problem, contact your Delco-Heat Distributor. Or write Delco-Heat, Dept. ABH, Rochester 1, N. Y. In Canada, Toronto 13, Ontario.

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Supplied with Round or Special Shape Holes
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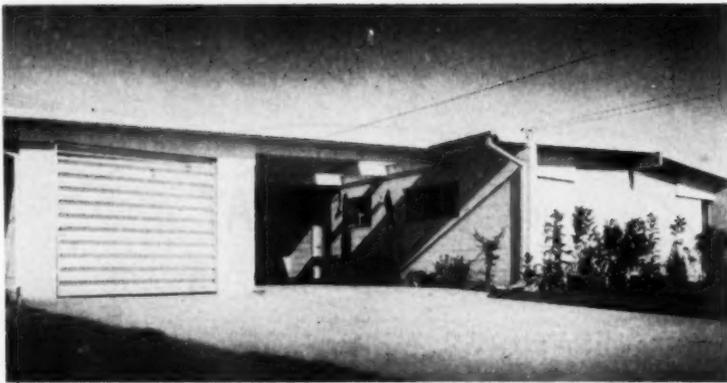


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SIMONDS SI-CLONE SAWS

You get Simonds Guaranteed Quality, the buy-word in saws for more than 100 years, at no more than you would pay for regular saws... see price list. And Simonds Si-Clone line includes 13 types up to 12" diameter. So get the Si-Clones you need today at your local hardware or woodworking machinery dealer.

GUARANTEE: Made of SIMONDS STEEL fully guaranteed against any defect in material or workmanship.

built to last, for \$12,000



The block walls are painted with two coats on the outside (one with sealer), an oil-base paint on the inside. Ridge is 4x12-inch beam projecting beyond walls of the house. Plywood pieces set into upper corners of end elevation are design accents



The economical rectangular shape with its uniform wall openings and unbroken roof lines encloses 1,176 square feet of living space, plus 427 square feet more in garage and carport

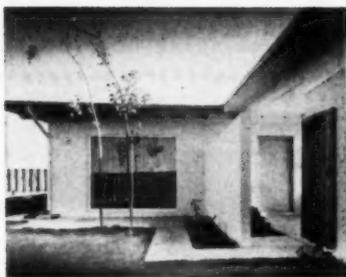
Using lightweight concrete blocks for walls and partitions, aluminum doors and windows, architects Fred-

erick E. Emmons and A. Quincy Jones have designed a house which is speedy to build and easy to main-



Rafters are covered on underside with gypsum board, sheathed on roof surface to receive composition roofing, gravel

Kitchen has metal cabinets, plastic counter tops, two-compartment sink with garbage grinder. Left opening is fixed glass



Block wall screens living room terrace from front entrance approach. Roof of house covers carport and garage



Openings for doors and windows are left in block walls. Aluminum doors and windows go in without trim. Grooves in the blocks receive flanges on the windows. Mastic is applied for waterproofing. Sash have sills attached

tain. The house was developed for mass production in the building program of the Pardee-Phillips Construction Co., in the Los Angeles area. It won an award of merit from the National Association of Home Builders.

Stock flush metal doors complete with frames and hardware are ready to install. Sash, both casement and fixed, are aluminum, and an 8-foot glazed door is used for the opening from living room to terrace.

Wardrobes have fitted stock sliding doors complete with tracks. The garage door is upward acting. Heating is by dual forced air gas-fired wall furnace centrally located. Floor is of double slab concrete construction, finished with asphalt tile.

The house is selling for \$12,000 on a lot 60x110 feet.

BRAND NAME PRODUCTS USED

Alcasco aluminum windows
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 Fiberglas insulation
 Glide-All wardrobe doors
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 Kem-trie exterior paint
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6 revealing pages crammed with Cost-Study facts, figures on insulation

Designed for Insulation Contractors, this pamphlet provides inside facts on how you can Slash Insulation Costs!

Here's what this vital pamphlet contains:

- Actual time/cost figures on every insulation handling operation from factory shipment through installation. Includes (for both bulk and reflective-type materials):
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and save**

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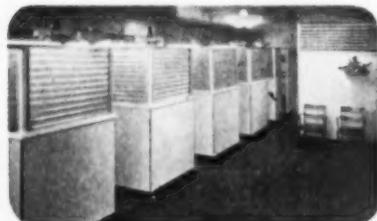
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HOW to BUILD a cantilevered



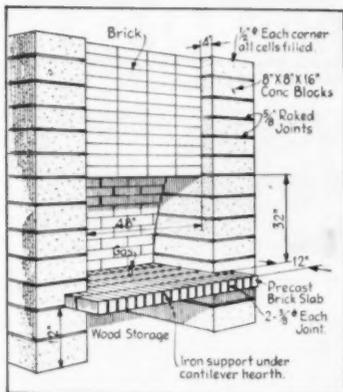
From a house designed by Richard O. Spencer in Hollywood, California

THE fireplace with raised hearth makes a strong point of interest and attraction in any living room. The job looks even better if the hearth is cantilevered out to make a generous ledge which can be used in a variety of ways. These two fireplaces were built by Alfred L. Tank, a Los

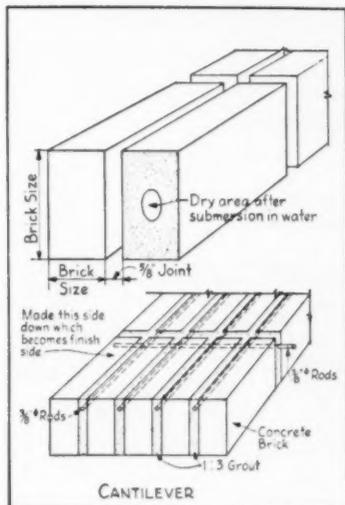


IN this fireplace the hearth slab is 50 inches deep and protrudes beyond the plane of the wall 20 inches. The steel goes the entire depth of the hearth slab and also crosswise between ends of the brick. The weight of the brick and steel supports the cantilevered portion, so that three or four persons could jump on it without damaging it.

HEARTH



Angeles mason contractor. The hearth slabs are made in one piece, with $\frac{3}{8}$ -inch steel reinforcement in the mortar joints, then set in place.



Building the hearth slab . . . Units must be wet until a small dry egg is left in center when the brick is cut in two. In using common brick, submerge it totally for from two to five minutes

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a Plus Value that sells homes

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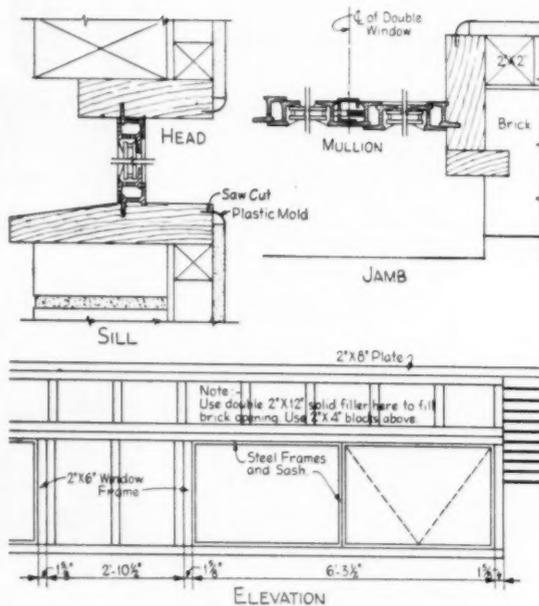
builder designs load-bearing window



Load-bearing window in place in Stoltz-built ranch house

Michael Stoltz, president of the Seneca Construction Co. of Spokane, has designed a special frame which he uses with the Truscon steel ranch window using Thermo-pane. The frame is built of 2x6's with a 2x10 sill. This sill takes the place of the two or three separate members often used. Double 2x12 headers rest directly on the window.

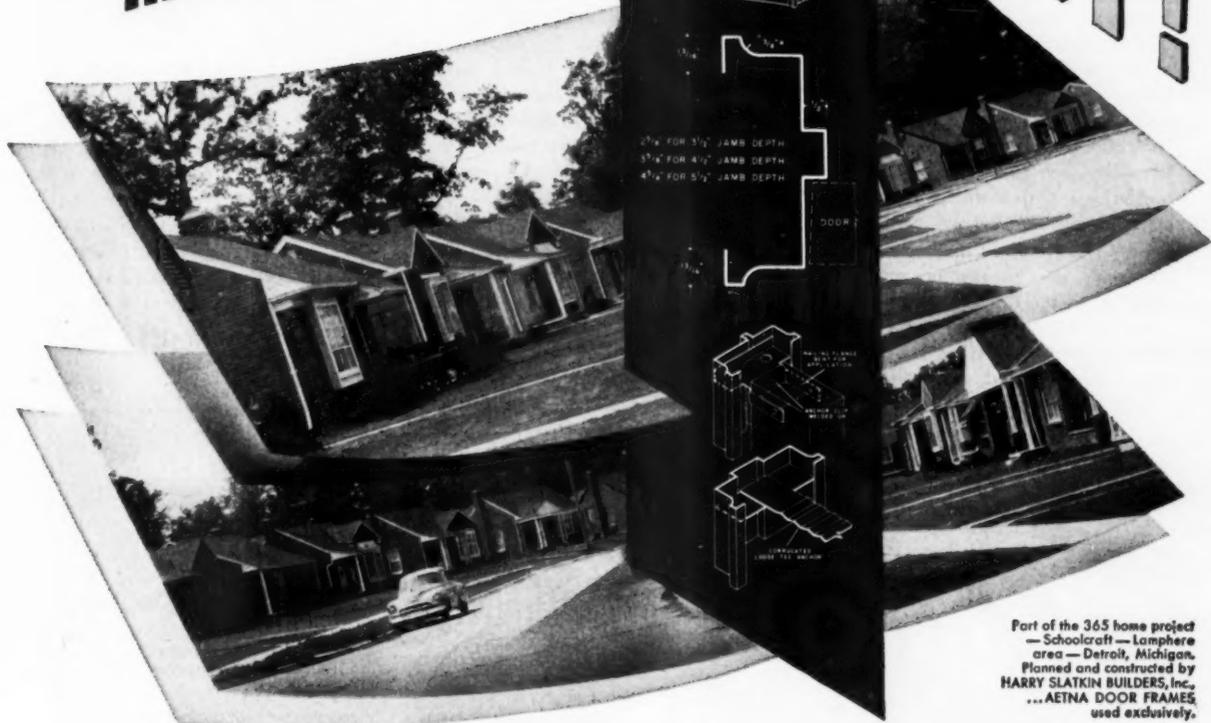
Key points in this construction are: (1) headers are not recessed into brick but rest on the 2x6 frame; (2) frame is of exactly the right width, so no cutting of brick is necessary; (3) instead of using two separate window units, which would require masons to make corners, one big frame is used and the space between the two windows is filled in with redwood paneling.



Details showing construction of load-bearing window

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lower cost, more comfort from proper sizing of air conditioning units

.....

Among the many problems which have confronted residential all-year air conditioning has been that of proper sizing of the machine for a given house.

It has been generally recognized that calculating cooling loads for houses by the methods used for commercial installations results in oversized units. This in turn means higher costs and less actual comfort, since an oversized unit will operate intermittently and thus not keep the humidity line as constantly as will be the case with a unit which operates continuously.

Latest progress in methods of sizing takes into precise account the capacity of the house to store cooling at night, as well as factors outside the house, such as roof overhangs, size of windows, design and

construction of roofs and walls, trees and other shading features—in short, anything that has a measurable effect on the amount of cooling needed. An example of this new type of sizing method is Carrier's "24-Hour Load Calculation Method."

The earlier methods have attempted to determine the maximum heat gain during the hottest part of the day and size the air conditioning equipment to handle this. But Carrier's new system recognizes that in a home, wide fluctuations in temperature are not a problem. The major problem is to determine the amount of cooling required to establish an average temperature within the comfort range.

So this new approach to sizing is based on calculating the average heat gain over a 24-hour period,

taking into account the storage effect of walls and furnishings, and calculating wall, window, roof design and shade factors. Simple tables are used to determine the exact 24-hour cooling requirement for walls and windows oriented in any direction, with roof overhang, wall color and construction, and roof design and construction included.

As a result, the equipment required can be of smaller capacity than was once believed possible, at the same time providing more efficient operation. Amounts of air handled are lowered, resulting in less expensive air distribution systems. Operation of the system sized in this way will be fairly constant throughout the day, resulting in a constant control of humidity and hence more comfort.



with the ORIGINAL Carved Raised Panel Wood Sectional Overhead Door

For individuality the "built-in" beauty of the Raynor Carved Raised Panel Door *invites comparison!*

With the design carved in 1" thick panel blanks (especially constructed by dielectrically gluing together narrow strips, for maximum strength) only the rugged durable construction and smooth performance of the Carved Raised Panel Door can match its beauty.

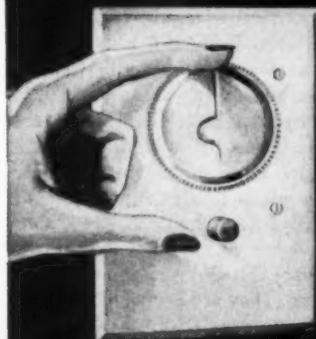
Equipped with "Meter-Balanced" springs and Patented Graduated Seal, a Raynor Carved Raised Panel Wood Sectional Overhead Door can be operated by a woman or small child with ease.

Carved Raised Panels for these doors are available in two sizes—square, approximately 16" x 16" and long, narrow or streamlined, approximately 41" x 16".

See our catalog in *Sweets*. Check your telephone directory for the name of the Raynor Representative nearest you.

RAYNOR MANUFACTURING COMPANY - Dixon, Illinois
Builders of a complete line of wood sectional overhead doors

LIGHT . . .
just right
for any
occasion



with the
powerstat
Wallbox Dimmer

- Any amount of light from darkness to full brightness
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BRISTOL, CONNECTICUT



Now, a new concept in light control... the **powerstat WALLBOX** Dimmer offers the beauty, comfort, convenience and versatility of *controlled light* for every room in the home.

By simply turning a knob, any amount of light can be selected — to provide the correct light for every occasion and activity . . . subtle and flattering light for entertaining, bright light for reading and sewing in the living room . . . bright light for table arranging, candle glow for dining in the dining room . . . bright light for reading, lower light for dressing and night light in the bedroom . . . bright light for working, intermediate for serving in the kitchen . . . bright light for safe illumination, lower for night light in hallways and bathroom . . . bright light for games and cards, lower for conversation, television or movies in the recreation room.

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11093 Demers Avenue, Bristol, Conn.

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COMPANY _____
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CITY _____ ZONE _____ STATE _____



Clench your fist



...You'll Clinch the Sale!

It's that easy to prove that ADJUSTO-SEAL is the world's best weatherstrip... whether it's combined with metal for door bottom use, or with plastic for around doors and windows.

When customers see how ADJUSTO-SEAL's thousands of vertical wool fibers snug right down against that uneven surface... you can start for the cash register. For the occasional customer who still hesitates... just pick up an ordinary weatherstrip and try the same thing.

That's all, brother! You've clinched the sale. Because no other weatherstrip can pass the "clenched-fist" test.

BE SURE TO FEATURE BOTH ADJUSTO-SEAL PRODUCTS!



The NEW PLASTIC AND PILE ADJUSTO-SEAL for around doors and windows comes marked at 1 ft. intervals for easy dispensing, and is packaged two ways: in bulk, on reels of 50 yards; or in individual packages containing 17 feet (enough for around one average door or window).

This new Schlegel product has all the properties that have made ADJUSTO-SEAL door bottom weatherstrip so popular with your customers. Door bottom strips available in standard sizes.

If your Jobber doesn't carry ADJUSTO-SEAL, write: SCHLEGEL Manufacturing Co., Dept. AB, Rochester, New York Oakville, Ontario, Canada



room size keys design



Colonial touch characterizes houses of this community

Generous rooms are a feature in the ranch-style homes of the new community of West Avondale in Canton, Ohio, of which the subject house is a part.

All of the houses, built by Dougherty Homes, Inc., are basically six-room units of frame, brick, stone or a combination of each. Plans are arranged for two or three bedrooms with preference given to size and quality of rooms rather than quantity. Each house has one-and-one-half baths.

Located on lots that vary in size and contour, the homes cost from \$18,000 up. They are insulated through-

(Continued on page 230)

TODAY'S "MOST-WANTED" HOMES HAVE ELECTROMODE HEATERS ALL-ELECTRIC



MODEL WJA BATHROOM HEATER

For BEAUTIFUL BATHROOMS—that add sales-appeal to your houses—install Electromode Automatic Wall Heaters. Choice of gleaming chrome or baked-on white enamel finish to harmonize with other fixtures. Also ideal for nursery or any small room.

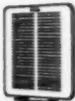
- ▶ AUTOMATIC
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Completely SAFE

Only Electromode has the sealed-in CAST-ALUMINUM HEATING ELEMENT. No danger of fire, shock or burn. Automatic safety switch prevents overheating.

For BIG COLD ROOMS

Model WA Electromode Automatic Down-Fix Wall Heaters. Handsome silver grey hammertone finish. 1500 to 4000 watts.



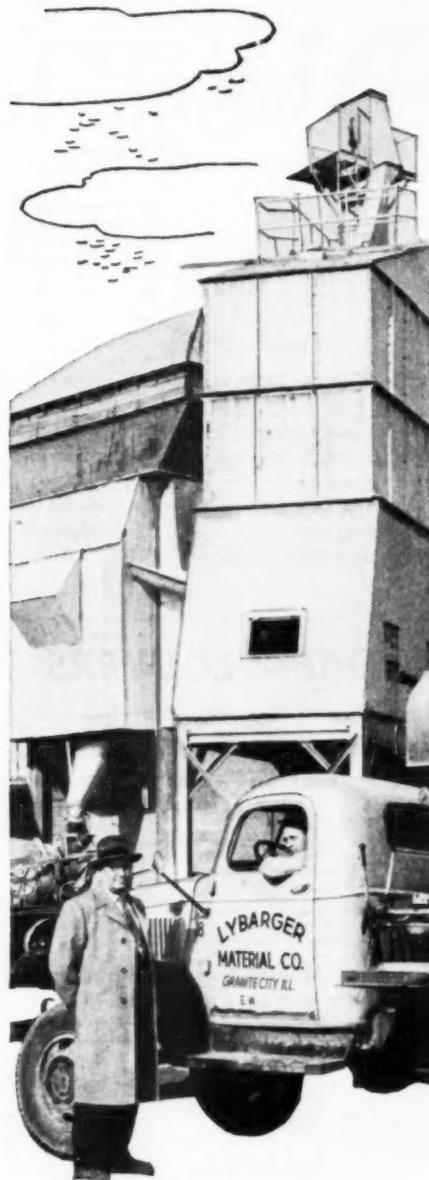
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ELECTROMODE CORPORATION

45 Crouch St. Dept. AB-153 Rochester 3, N. Y.

When quality concrete is a matter of reputation

...you can't take a chance on a "cure all"!



Construction men throughout southwestern Illinois will tell you about Charley Lybarger. How he built an outstanding ready-mixed and block concrete business on *reputation* . . . and how his five sons are today continuing the Lybarger tradition.

Charley Lybarger discovered many years ago that air entrained in concrete makes it more workable, more versatile, and more durable. But he also knows that *no* air entraining cement can be counted on to produce quality concrete every time . . . that only by adding the *required* amount of

air entraining agent *at the mixer*, can he produce concrete that's right for every job!

That's why the Lybarger Material Company of Granite City, Illinois, never takes chances on "cure alls" . . . when it's safe, simple and sure to follow the "prescription" technique.

★ ★ ★

If you have any problems or questions on the use and mixing of air-entrained concrete, the Marquette Service Engineer will be glad to help and advise you—contact any Marquette office.

Marquette Cement

MANUFACTURING COMPANY

SALES OFFICES: Chicago • St. Louis • Memphis • Jackson, Miss. • PLANTS: Oglesby, Ill.
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SEPTEMBER 1953



229

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 PHONE DEATER 3333 OR DUNDET 5211

February 27th, 1952

Gentlemen:
 After many years of specializing in masonry water proofing, using various products we found Kay-Tite by far the most outstanding Results on every job where it has been used have been very satisfactory.

Our contracts cover all kinds of buildings, residential, government and commercial. We do work on all types of masonry, inside, out, side and above and below grade. All work is covered by bond and guaranteed.

We always recommend Kay-Tite and are most happy to attest to the dependable quality of your product as it has enabled us to give a long term guarantee on all jobs.

Very sincerely yours,
 Alco Waterproofing Co.

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FACTS

STAY TIGHT
with
KAY-TITE
For MASONRY ONLY

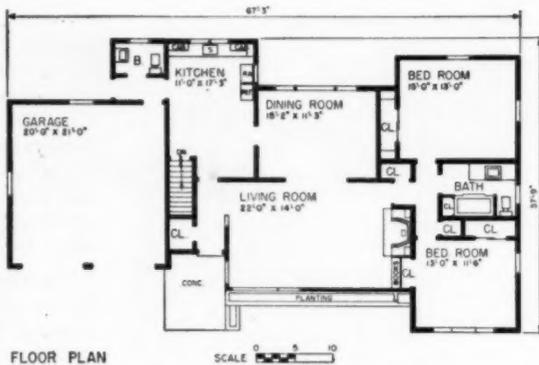
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 1717 WESTLAKE AVENUE, NORTH SEATTLE 9, WASHINGTON
 More than 20 years of satisfactory performance

room size keys design

(Continued from page 228)



Large rooms are a feature in the layout of all houses

out; have forced-air gas furnaces, automatic heaters and laundry facilities in the basements where the walls are finished in a semi-glazed tile.

When completed, the community will contain 94 homes located on a 40 acre tract. All of the homes will be ranch-type but none will be alike.

USE "MIDGET" LOUVERS

For Easy
Inexpensive Ventilation



Jobber and Dealer
Inquiries Invited

ONLY THE "MIDGET" LOUVER HAS
THESE PATENTED FEATURES

Slots for Tension and Sure-Grip Swedge Fasteners for tight fit and firm, permanent anchorage.

For efficient ventilation, you can rely on "Midget" Louvers—all aluminum—last forever. 2 styles—for indoors or out. 6 sizes—1" to 4" diameter.

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IMPROVED 78" ONLY
3 lb. MAGNESIUM LEVEL \$14⁸⁵

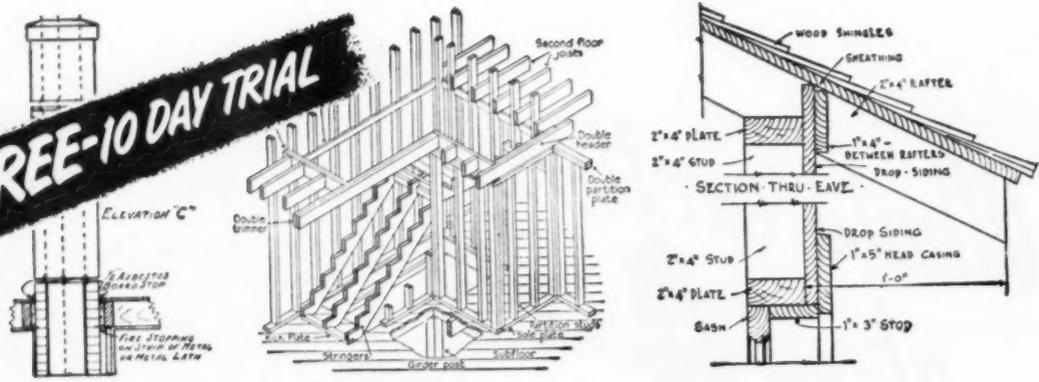
For setting door jams and window frames! No other like it. 4 Plumbs, 2 LEVELS. Use either end or edge up. Weighs only 3 lbs. I-Beam type—non-warp, stronger than aluminum. Direct from factory. Patented.

NO FACTORY REPAIRS NEEDED

Spirit tube holder (50c) replaced in a minute with ordinary screwdriver. Screw threads into frame, nut holds with double clamping action. 60" \$13.85—72" \$14.35 Express paid cash with order, or C.O.D.

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reasons why
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Color-Grained Siding

1

Ruberoid Color-Grained *asbestos-cement* Siding* has skyrocketed in popularity for one reason you can't ignore. It means money in your pocket. It insures substantial savings on side-wall construction and eliminates initial painting costs. Take this typical cost comparison, for example, of a Long Island home requiring approximately 15 squares (1500 sq. ft.):

Applied Cost per Square

Wood Shakes	\$35 x 15 sqs. = \$525
Clapboard Siding (Including painting)	\$32 x 15 sqs. = \$480
Color-Grained Siding	\$19.50 x 15 sqs. = \$293

Not only does Color-Grained Siding help you cut building costs . . . it adds to the saleability of your houses.

*Patent Nos. 2307733, 2307734, others pending

The **RUBEROID** Co.

ASPHALT AND ASBESTOS BUILDING MATERIALS

SEPTEMBER 1953

2

The decorator-designed, color-styled beauty of Color-Grained Siding, with its genuine "shake" texture, has revolutionized the siding industry. To give new impetus to the great and growing popularity of Color-Grained Siding, Ruberoid has added a new quality feature. It's *DUROC*, the revolutionary finish that keeps colors fresh and bright, resists dirt, stains and weather.

Color-Grained Siding solves your two basic problems . . . satisfaction for the owner . . . and a profit for you. Ask your Ruberoid dealer to show you samples or write The Ruberoid Co., 500 Fifth Avenue, New York 36, N. Y.

ShadoWedge makes deluxe combination

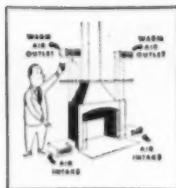
For a real luxury siding, combine Color-Grained Siding with ShadoWedge. ShadoWedge is a tapered asphalt undercoursing strip with a thicker lower edge that results in rich, deep shadowlines. It provides extra weather protection plus a look of luxury at only slightly greater cost.

233

Sell houses faster with this
**EXTRA SALES
 FEATURE!**



**Heatilator
 units assure
 correct
 FIREPLACE
 construction**



The Heatilator unit saves heat usually wasted up chimney.

Specify Heatilator Fireplaces for your houses . . . and you can offer every prospect a fireplace that will never cause a moment's grief, that will be smokeless and troublefree!

Assures correct construction. The Heatilator unit is engineered according to established and proved principles of fireplace design. In one compact unit, it provides all vital parts from floor to chimney flue. It standardizes and simplifies construction. It saves time ordinarily needed for detailing the masonry and for close supervision during construction. And the Heatilator unit puts no limit on mantel design.

The Heatilator unit draws in air from floor level, heats it, and circulates it to warm every corner of the room. Heat usually wasted up the chimney is put to work! The Heatilator Fireplace provides quick comfort in cool weather, and is especially desirable in southern homes, summer camps, and basement recreation rooms.

You are protected against guesswork, rule-of-thumb construction, and all the mistakes that result in faulty fireplaces and client dissatisfaction. When you specify the Heatilator unit, you know your client's fireplace will be built exactly as you plan it . . . smokeless and trouble free! Specified and recommended by leading architects and builders for over 26 years. Sold by building material dealers everywhere.

HEATILATOR® FIREPLACE



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Please send me your new A.I.A. folder with full details and specifications on Heatilator Fireplace units.

Name _____

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City _____

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split-level homes—



Sketch of the "Riverside," typical split-level home of three-bedroom design, built on five levels

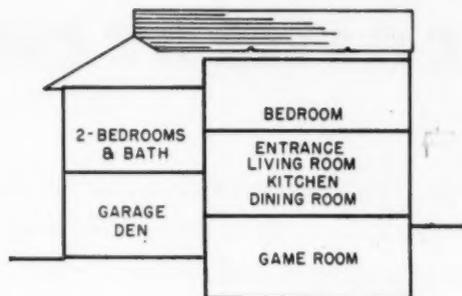


Privacy and accessibility are provided between the various sections of a split-level-type home



With bedroom level raised six steps, garage and den are provided at ground level

compact and convenient



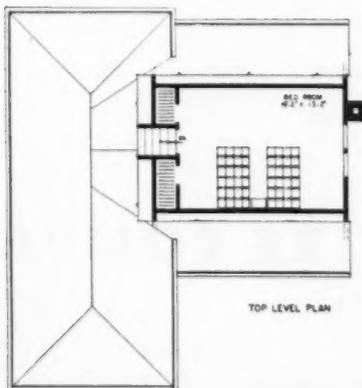
Cross section of the split-level house, indicating position of the five levels, rooms contained in each

Offering the compactness of a five-room apartment, yet possessing a potential of eight rooms plus garage, this house, built on five different levels, is a typical example of the extra living area and space economies which can be realized by split-level homes. The integration of different levels presents considerable flexibility in the division and arrangement of rooms, and enables families to subdivide living areas according to their own convenience.

This home, called the "Riverside," contains 1,078 square feet of space in the main living area. A six-step stairway leads up to the bedroom-bathroom wing; by descending six steps from the living area, one is on the den and garage level. The basement is six more steps below the den.

An extra bedroom, 13x13 feet in area, can be made of the space at the top of the six-step stair leading up from the bedroom-bath wing.

The house was designed by Samuel Paul, AIA, and was selected from his book "New Split-Level Homes."



At fifth level, space for an 18x13-foot bedroom is available; room can be finished at later date

Sell houses faster with this
**EXTRA SALES
FEATURE!**

New
Service-way
gives direct
access to
basement!



The new **Service-way** makes a basement handy for quick, easy storage of lawnmowers, garden tools, bicycles and storm windows. The extra-wide Service-way opening gives plenty of clearance for freezers, ping-pong tables, and hobby shop equipment. Clothes can be carried directly from laundry to clothesline with fewer steps—fewer stairs to climb. A real help to busy housewives.

Adds value to home—worth many times its moderate cost. The Service-way is one of the most desirable features you can add to a modern home. It simplifies dozens of household jobs. Repairmen, meter readers and children with muddy feet can go direct to the basement from outdoors.

Rugged! The Service-way is made of heavy-gauge steel, yet the door can be opened with one finger. Overlapping flanges assure snug fit, keep out rain, snow and wind. Slide bolts lock door securely from inside. Comes fully assembled, ready to install. Made by the makers of the famous Heatilator Fireplace. Mail coupon today for full information.



Finger-tip control! Double-action springs counterbalance the weight of the steel door in all positions.



Modern, practical design, blends with any style architecture... comes ready to install.

HEATILATOR SERVICE-WAY



Heatilator, Inc.
589 E. Brighton Ave.
Syracuse 5, New York

Please send me folder on Service-way specifications.

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Address _____

Architect

Builder

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for top quality ceilings

PLASTER... reinforced

Large residential ceilings require quality construction for lasting beauty.

You get top quality by using plaster reinforced with Keymesh galvanized reinforcement... applied to gypsum or insulating lath.

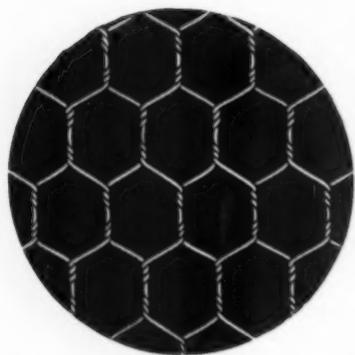
This network of multi-directional galvanized reinforcing wire adds greatly to the strength of ceilings. It also helps assure a uniformly full thickness of plaster over the entire ceiling. It guards against cracking. And, where radiant heating is installed in

ceilings, Keymesh helps give more uniform heat distribution, as well as accelerating it.

Some architects and builders want this same strength and quality on walls as well as ceilings. Others find that Keycorner applied to inside corners, wall-ceiling junctures and points of weakness, and Keybead at outside corners, give them the quality they require.

That's why the Keystone system of plaster reinforcement is called—3 Keys to Stronger Plaster.

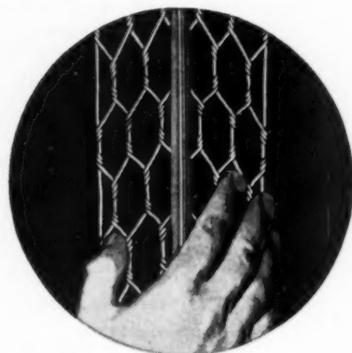
3 KEYS TO STRONGER PLASTER



Keymesh has been proved through the years as a superior reinforcement for stucco. Now plasterers are recommending it for ceilings to increase strength and protect against cracking.



Keycorner is preformed to fit accurately and snugly in corners and at wall and ceiling junctures. It also is ideal where strip lath is required... doesn't rust... eliminates waste.



Keybead combines open-mesh reinforcement with a precision-formed bead. It assures a solid plaster corner, reinforced with a network of galvanized wire, preventing rust streaks.

KEYSTONE STEEL & WIRE COMPANY

Peoria 7, Illinois



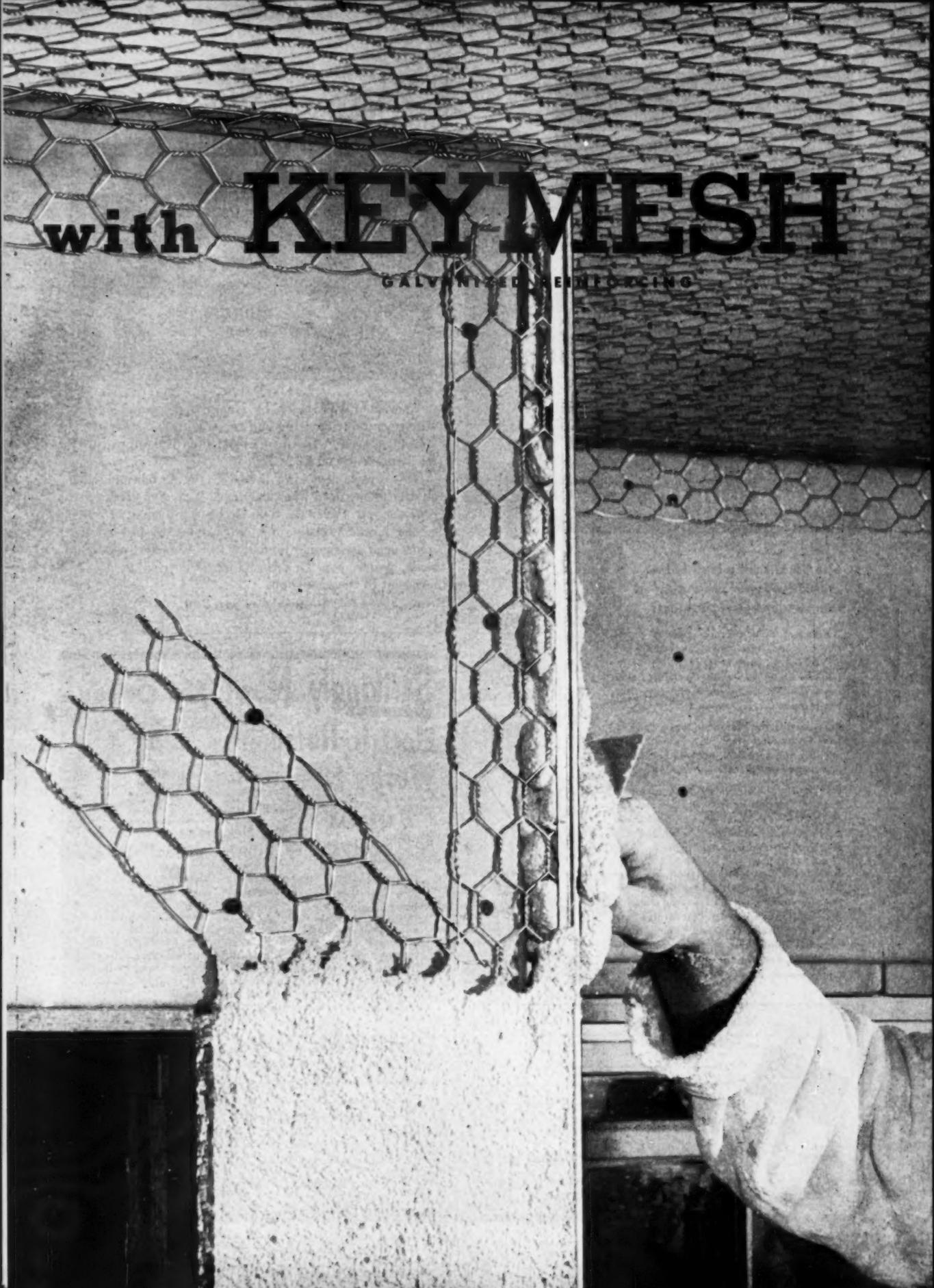
KEYMESH • KEYCORNER • KEYBEAD • KEYSTONE NAILS • KEYSTONE TIE WIRE
KEYSTONE NON-CLIMBABLE FENCE • KEYSTONE ORNAMENTAL FENCE

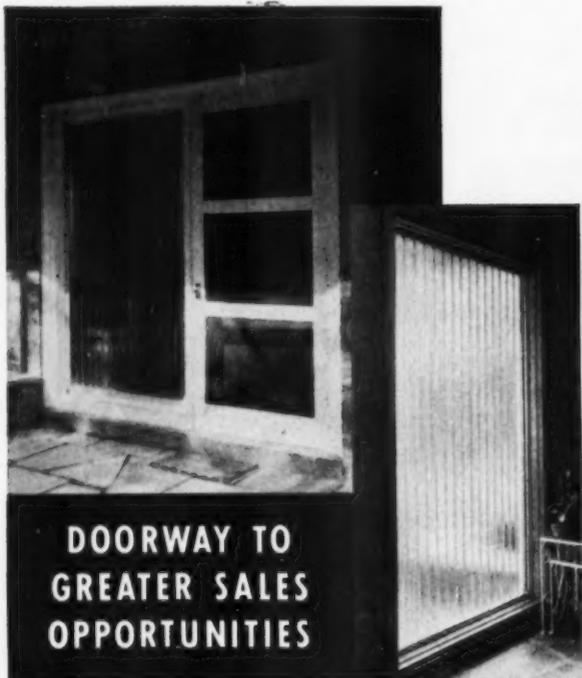


34 11a 34

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DOORWAY TO GREATER SALES OPPORTUNITIES

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... Add Eye-Appeal and Buy-Appeal
with Structural Corrugated Glass**

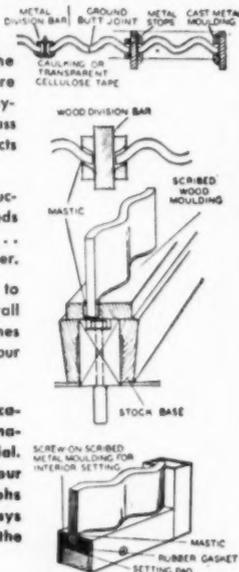
Translucent, light diffusing glass is in the modern mood. It can make your homes more interesting ... more inviting ... more buyable. Mississippi's Structural Corrugated glass adds that something extra that turns suspects into prospects ... sells on sight.

Home buyers love the effects that only Structural Corrugated glass can create ... floods interiors with flattering "borrowed" light ... makes rooms seem more spacious, friendlier.

And Structural Corrugated glass is easy to install. No plastered partitions. Eliminates wall painting. Always looks new. Give your homes the bright look that buyers look for. See your nearby Mississippi Glass distributor.

Send today for free Installation Specifications bulletin. Illustrated, detailed explanations for working with this modern material. Also ask for free booklet, "Modernize Your Home With Decorative Glass." Photographs of actual installations. Many ideas on ways to use this exciting new medium. Mail the handy coupon below.

Residence of Byron T. Sample, Assoc., Stainback & Scribner, Archt., Charlottesville, Va. Gen. Contr. Edw. Van Laer, Inc., Charlottesville.



what power tools do you need for a remodeling business?



This shop was set up by Henry and George Bertch, who operate a repairing and remodeling business in the Pasadena area in California. The shop is equipped with the items listed on page 240.

This complement of tools enables the Bertches to make anything they need when they need it, and so gives them precise control over the time factor in job costs.

The builders maintain quite a stock of fast-moving items such as framing lumber, cabinet lumber, plywood, nails, paints, etc. This inventory is carried in a shed adjacent to the tool shop.

(Continued on page 240)

Strikingly New! No Other Electric Hammer Works Like

"Super Slugger" Neoprene "Cushion Snap"—No Kick!



"Super Slugger" has a terrific wallop — yet weighs only 7½ pounds! Its new patented "Cushion-Snap" impact motion eliminates kick, direct vibration and operator fatigue. Plug in this heavy-duty hammer anywhere — use it for drilling, chipping or channeling masonry or concrete, cutting sheet metal, stripping linoleum or plastic flooring, scaling rust and hundreds of other jobs (full line of tools available). "Super Slugger" works fast — multiplies work output. Low in cost, it is simple to maintain — will save you money. Investigate!

Manufactured by Noble & Stanton, Inc., Bedford, Ohio

TEMPO PRODUCTS CO.

2075 EAST 65th STREET • CLEVELAND 3, OHIO

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TODAY

- Please Send Catalog, Prices and Complete Data
 Please Arrange Demonstration of Super Slugger

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COMPANY _____

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Please send free Installation Specifications bulletin and booklet, "Modernize Your Home With Decorative Glass."

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WORLD'S LARGEST MANUFACTURER OF ROLLED, FIGURED AND WIRED GLASS



Vinylflex
PLASTIC FLOOR TILE

THE ALL-PURPOSE FLOOR TILE

acclaimed the floor of floors
by leading builders

RESILIENT



Vinylflex is so easy on the feet . . . and it's high slip resistance is a real safety factor. Quiet and warm underfoot.

GREASE PROOF



Vinylflex is resistant to greases, fats, oils, acids, alkalis, gasoline and naphtha.

EASY TO INSTALL



Vinylflex is easy and inexpensive to install. It is non-shrinking and non-curling.

EASY TO MAINTAIN



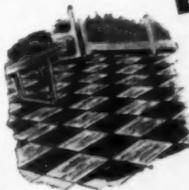
Ease of cleaning makes for low maintenance costs. It retains its colorful beauty with minimum care.

ON OR BELOW GRADE



Vinylflex flexibility permits it to snug into floor irregularities. Can be installed on almost any sub-floor . . . on or below grade.

RESISTS INDENTATION



Vinylflex has exceptional resistance to furniture and other indentations.

Vinylflex Has been subjected to practically every condition possible for a floor covering to encounter and has always stood the test with a better than needed safety margin. VINYL FLEX is ideal for residential, commercial and institutional installations. It is colorful, sanitary, durable, and economical! Everywhere, builders who have installed VINYL FLEX are acclaiming this HAKO floor tile because it combines all the best characteristics desired in a floor tile . . . it is really the floor of floors!



OTHER PRODUCTS

Coronet
PLASTIC
WALL TILE

AND

Asphalt Tile
FLOORING

SINCE 1903

HACHMEISTER-INC.
PITTSBURGH 30, PA.

HACHMEISTER-INC.
Pittsburgh 30, Pa.
Dept. AS

() Send me your full-color catalogs describing HAKO floor tiles

() I would like to see your representative

Name _____

Address _____

City, State _____



LEGION Seamless drawn stainless steel sinks and sink bowls for every purpose.

These are lifetime products—no costly replacements.

Legion has the largest assortment of seamless drawn stainless steel sink bowls in the United States.

Single, double and triple flat rim bowls in assorted sizes can be used with all types of tops—formica tile, linoleum, plastic or stainless steel. Hard wearing sink tops—designed for homes and apartments. Solid stainless steel or stainless steel over $\frac{3}{4}$ " plywood base (Pat.)

Write for catalogues.



LEGION STAINLESS SINK CORP.

40th Avenue and 21st Street, Long Island City 1, N. Y.

Branch offices: 21 E. Van Buren St., Chicago, Ill.; 420 Market St., San Francisco, Calif.

power tools for remodeling

(Continued from page 238)

CHECK LIST OF POWER TOOLS

CONCRETE MIXERS

Jaeger concrete mixer

DRILLS

Mall $\frac{1}{2}$ -inch drill Craftsman drill press
Milwaukee $\frac{1}{2}$ -inch

JOINTERS

Boice-Crane 6-inch jointer Union 6-inch jointer

ROUTERS

Stanley Router

SANDERS

Clarke 5-inch disc sander Porter-Cable 3-inch belt sander
Craftsman 6-inch belt sander A vibrator sander

SAWS

Boice-Crane 10-inch tilting arbor saw
Comet Jr. trailer-mounted saw Mooradian swing saw
Delta 8-inch tilting arbor 2 Speedomatic hand saws
Delta 8-inch table saw A 14-inch band saw

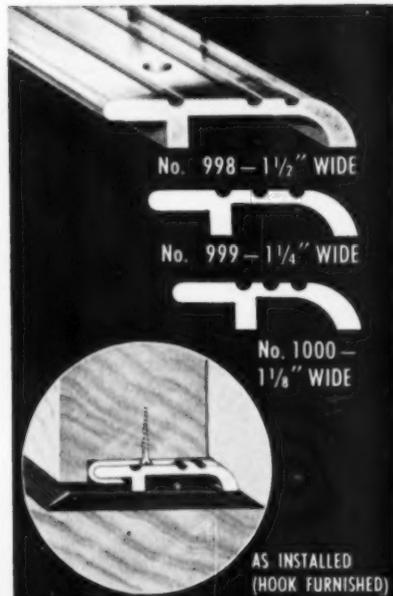
STAPLE GUNS

Bostitch staple gun Dual-fast staple gun

STUD DRIVERS

Remington stud driver

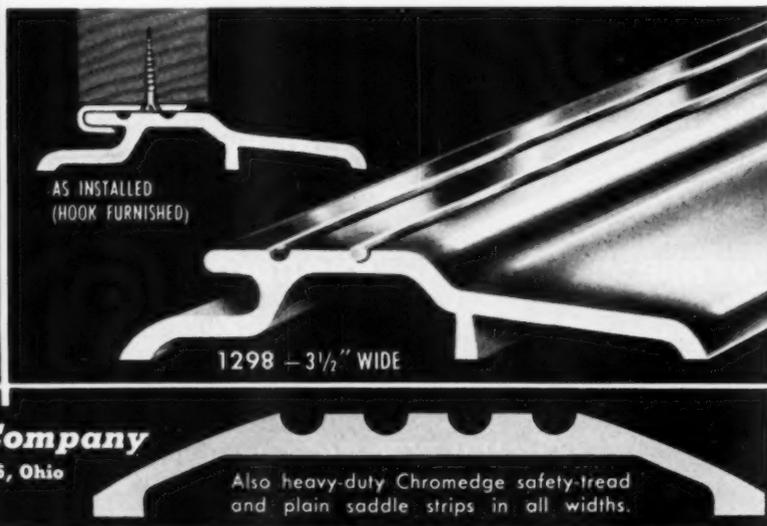
CHROMEDGE® Weatherstrip Thresholds



Left: Highly durable Chromedge weatherstrips, in three popular widths, for mounting on standard wood threshold. Interlocking hook, concealed in mortised door edge, combines rigidity with enough "spring" for a snug fit. Drilled and countersunk for screws.

Below: Heavy-duty, reinforced Chromedge threshold No. 1298. Concealed weatherstrip fits in mortised edge of door, forms wide interlock that bars dirt, drafts, or moisture. For either inside or outside doors. Drilled and countersunk for screws.

Stock lengths: 36, 37 and 49 inches; 6 feet and 12 feet.



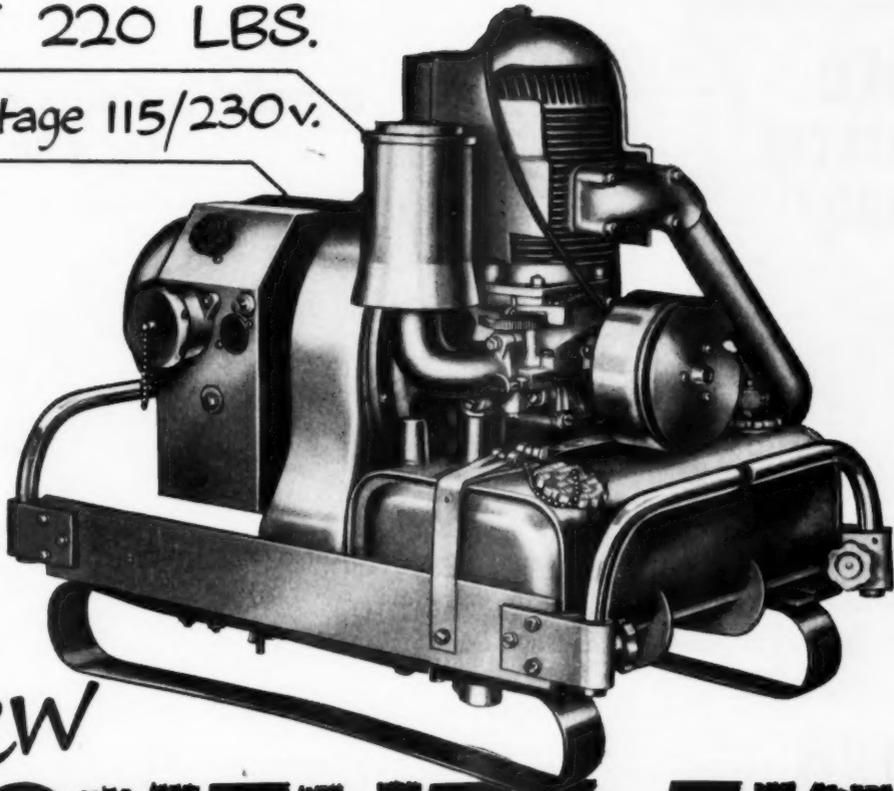
The B & T Metals Company

Columbus 16, Ohio

Also heavy-duty Chromedge safety-tread and plain saddle strips in all widths.

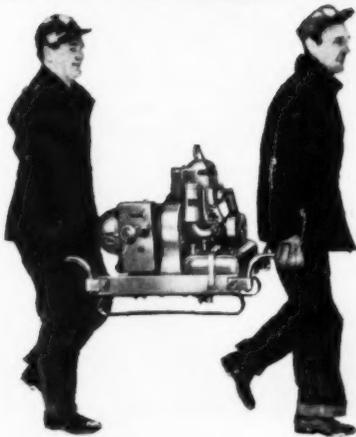
ONLY 220 LBS.

Dual Voltage 115/230v.



New **HOMELITE 5KW**

GENERATOR for OPERATING POWER TOOLS



The New Homelite 5 KW Generator weighs only 220 pounds, complete with gasoline engine. Equipped with adjustable handles for easy carrying by 2 or 4 men.

Here is a new Homelite Generator that measures up to all the requirements for greatest efficiency with power tool operations. It's small, compact . . . light enough for two or four men to carry . . . and it gives you both 115 and 230 volt current up to its conservatively rated 5,000 watt capacity. With this new generator you can have all the power you need to operate light or heavy power tools any place you need it. You can oper-

ate electric saws, grinders, drills, routers, sanders, table or radial saws . . . with no drain on the generator or the efficiency of your tools.

You can operate these tools, or floodlights, when you need them, any place without worry over your power supply.

Write, for complete information on this new, rugged, dependable, high-powered Homelite Generator, today.

Manufacturers of Homelite
Carryable Pumps • Generators
Blowers • Chain Saws

Canadian Distributors: Terry Machinery Co., Ltd.,
Toronto, Montreal, Vancouver, Quebec.

SEPTEMBER 1953

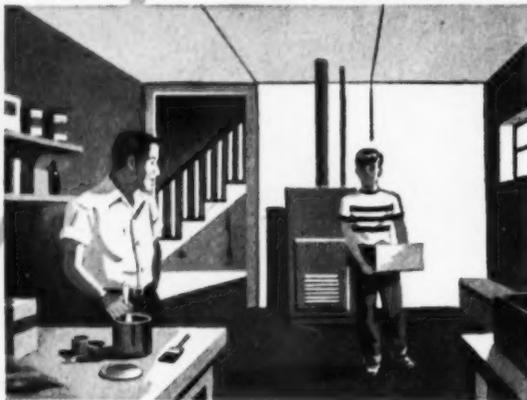
PERFORMANCE • DEPENDABILITY
HOMELITE
CORPORATION
SERVICE

509 RIVERDALE AVENUE • PORT CHESTER, N. Y.

241

Sote ASBESTOS BOARD

Sote Board's basic qualities give it unlimited applications. Sote Board may be worked with ordinary wood tools, nailed or screwed without pre-punching, without fear of breakage. Its high asbestos content makes it ideal for heater rooms, garages, as well as ordinary finishing *inside or out*. For more details, send coupon.



Nova JALOUSIES

for doors
and windows

Picture window beauty with full ventilation... Yours with Nova Jalousies! Installed on doors, an added source of ventilation, *even through a locked door!* The worm gear adjustment locks in any position. Fully opened, Nova Jalousies keep prowlers out, children in... Closed, they present a positive weather-seal. For full details, send coupon.



HOMASOTE COMPANY NOVA SALES



Co. Trenton 3, N. J.

HOMASOTE COMPANY, Trenton 3, N. J., Dept. 19D

Send detailed, illustrated literature on

Sote Asbestos Board Nova Jalousies All Homasote-Nova Products

NAME _____

ADDRESS _____

CITY & STATE _____

STATE _____

My lumber dealer is _____

242

a model portable tool box for a carpenter



This handy box is a standard item in the equipment of the Henry Bertch company, building contractor in South Pasadena, California. Saws can be removed without breaking their teeth; the level has a place near the

(Continued on page 244)

Mr. Builder

HERE'S THE
KOTA
HORIZONTAL
GLIDE

ALL
EXTRUDED
ALUMINUM

Kota "Top Hung"

Kota "Double Hung"

Kota Deluxe Horizontal Slide

The perfect High Quality Window for low-cost housing

26 different style windows for every room... for every home

KOTA
STORM-SCREEN DOORS
KOTA PRODUCTS, INC.
Route 25A - Rocky Point, N. Y.

AMERICAN BUILDER



LONG-BELL



KITCHEN *Cabinets...*

**Priced To Give You EVERY
Selling Advantage!**

1. Satin-smooth wooden cabinets can be finished naturally or enameled in decorator colors!
2. Designs are constantly added to allow use of the latest kitchen appliances!
3. Special cabinets allow making use of space formerly wasted!
4. Wooden cabinets will not rust, create no special maintenance problems!
5. Long-Bell cabinets are engineered on a 3" module, make it easy to fit the wall space in any kitchen!
6. Long-Bell cabinets are available in a variety of shapes and sizes to meet standard or special requirements!

Priced for Profits, Long-Bell Kitchen Cabinets meet the demand for a high quality, *low cost* installation. Door and drawer fronts are of rift grain Douglas Fir — perfect for popular natural finishes or fashionable enamel colors. And, Long-Bell Cabinets are constantly being improved for use with new kitchen appliances, such as high-level ovens, dish-washers, cabinet-top ranges, etc.

Easy to Install in new or old homes, Long-Bell Kitchen Cabinets build *repeat* sales. Extra units can be added to kitchens at any time! What's more, Long-Bell's precision manufacturing methods pay off in uniform appearance . . . insure customer satisfaction! Join the many other successful dealers who have learned to "Look to Long-Bell" for kitchen cabinets that build sales . . . boost profits!

West Coast Fir • West Coast Hemlock and Cedar • Ponderosa Pine • Douglas and White Fir • Southern Pine and Hardwoods • Oak Flooring • Plywood • Timber Fabricators • Long-Bell Factory Products • Treated Products

The Long-Bell Lumber Company

Established 1875 — Kansas City 6, Mo.

DIVISIONAL SALES OFFICES

EASTERN DIVISION — KANSAS CITY, MO.

WESTERN DIVISION — LONGVIEW, WASH.

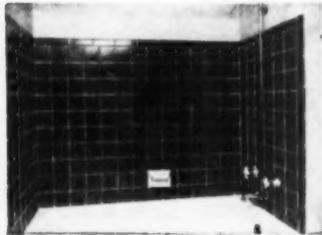
FACTS FOR BUILDERS

ABOUT "CONSTRUCTION BY ADHESION"



HERE ARE NEW METHODS WHICH
MEAN SUBSTANTIAL SAVINGS IN LABOR AND
MATERIALS FOR MODERN CONSTRUCTION
in both **NEW** building and **MODERNIZATION**

WRITE TODAY FOR RECOMMENDED SPECIFICATIONS ON
1. Setting Genuine Clay Tile. 2. Insulating Ducts. 3. Insulating walls and ceilings
either by Direct Adhesion or in conjunction with Surface Anchors. 4. Installing
floor runners; bonding furring strips.



1.
Today it is normal procedure to install clay tile in hotel bathrooms without losing a night's revenue. This illustration shows one of the 144 rooms in the White Plaza Hotel, Dallas, Texas, in which MIRACLE ADHESIVE was used to do the job from the time the guest left his room in the morning until he returned that afternoon.

2.
Plaster applied over wire and cork which has been attached to aluminum ducts using MIRACLE ADHESIVE and MIRACLE SPINDLE ANCHORS of John Hancock Mutual Life Insurance Co. Building, Boston, Mass. ARCHITECT, Cream and Ferguson, BUILDER, Turner Construction Co.



3.
FIBERGLAS insulation Type FF-613, 2" thick — bonded to concrete ceiling using MIRACLE PRONGED ANCHORS at Radio City Studio 6B, New York, N. Y. CONTRACTOR, William J. Scully, Inc., New York, N. Y.

4.
WOOD RUNNERS installed on concrete floors with MIRACLE ADHESIVE and MIRACLE ANCHOR NAILS to support 2" solid partitions. Washington Circle Apartments, Washington, D. C. GENERAL CONTRACTOR, Charles H. Tompkins Company.

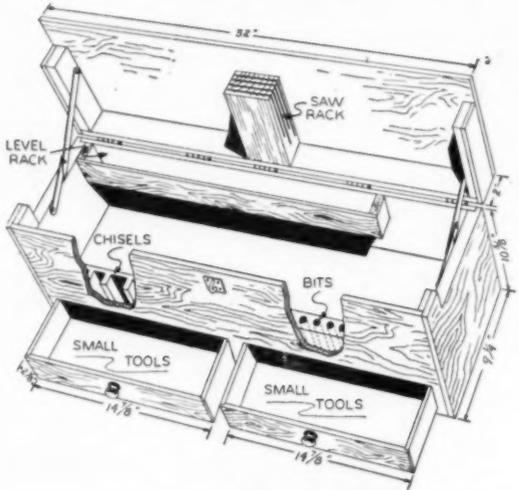


VISIT MIRACLE EXHIBIT AT ARCHITECTS SAMPLES CORP.
101 PARK AVE., NEW YORK CITY

model portable tool box

(Continued from page 242)

top where it won't be broken; there is plenty of room to keep the small tools handy especially for remodeling and repair work. Every new carpenter who joins up with Bertch makes his own box. Builder supplies the tools.



professional QUALITY

MASTER

For the professional weatherstrip installer, there is no finer weatherstrip equipment than that sold under the "Master" name.



WEATHERSTRIPS and the "ORIGINAL" MASTER SASH BALANCE

- Thresholds
 - Rib Strips
 - Interlocking Strips
 - Cushion Bronze
 - Cushion Aluminum
 - Metal Casement Strips
 - Door Bottoms
 - Felt and Rubber Strips
 - Caulking
 - Tools
- ZINC • BRASS • BRONZE • ALUMILITE • STAINLESS STEEL

MASTER METAL STRIP SERVICE, INC.
1710 North Kilbourn Avenue Chicago 39, Illinois
Same Management For Over 30 Years

To the builder who is building 15 homes or less in 1953...

Chances are, you could be building more homes, or building homes more profitably, or both. That is, if you build P & H prefabricated homes for the \$8,000 to \$15,000 price range. Here's why.

P & H Homes sell easier and faster than any others in their price range. They are more attractively designed, have a higher grade of materials, better construction, and more "extras" than any homes in their class. The handsome design, open planning, broad window areas, and ample storage space give you plenty to talk about when you sell P & H Homes. And they're nationally advertised. Many builders have doubled, even tripled their sales by switching to P & H.



The architect-designed 2 and 3 bedroom P & H Homes meet all code and financing requirements.

You'll cut your costs, too. You can have a P & H Home under roof in a day. No delays, no waiting for materials to arrive. Homes arrive, complete with hardware, glazing, millwork, and trim, ready for erection. You can gear construction to sales, and schedule sub-

contractors without worrying about costly delays. Your buyers get their homes faster, always on time.

And because you build and sell all year around, you can get more favorable sub-contracts.

There's extra financing help available, too, when you build P & H Homes. You can get construction loans from the Builders Acceptance Company, a P & H subsidiary, when local sources are limited.

Risk, for P & H builders, is about as low as it can be in home building. You can break ground for each home after the buyer makes his down payment, order the P & H Home after his credit has been approved. A P & H construction loan can be opened before you make any big layouts for labor or sub-contracts. You are ready for final payout 30 to 45 days after you start. How else could you operate with less risk?

You'll have plenty of help in your P & H Home building operation . . . land planning, supervising construction, holding open houses, advertising, selling, financing.

Start building and profiting the P & H way now! Write or wire for complete details on P & H Home building today.

P & H HOMES

HARNISCHFEGER CORPORATION

19 Spring St., Port Washington, Wis.

Phone Port Washington 611

the **P&H** *Line*



TRUCK CRANES



DIESEL ENGINES



POWER SHOVELS



PRE-FABRICATED HOMES



ELECTRIC HOISTS



SOIL STABILIZERS



WELDING EQUIPMENT



OVERHEAD CRANES

General Electric Water Heaters
install anywhere in your houses—
in a matter of minutes!



YOU SAVE TIME and money because new G-E Table-top Water Heaters are top-connecting. They install in minutes . . . an easy *top* installation that eliminates hours of high-cost labor.

They install anywhere in your house!

Upstairs, downstairs, basement or attic. A flue-less G-E Water Heater installs easily, economically. For under-counter installation, G-E Table-top Water Heaters are available without tops . . . (and at lower cost).

Why General Electric?

Because a recent survey shows that 53 out of every 100 people interviewed are pre-sold on G.E.! They can depend on G-E Water Heaters to deliver constant, plentiful hot water! Install a water heater that will help sell your house . . . a reliable, well-known *General Electric* Water Heater.

For the best in water heaters . . . call your G-E wholesale distributor or your plumbing jobber.

You can put your confidence in—

GENERAL  ELECTRIC

**IN REMODELING . . .
profit is a matter
of fighting hidden costs**

Estimating remodeling jobs is a tricky business. Nothing can be taken for granted. The floor under the linoleum in the kitchen or bathroom may have rotted away, for example; or in adding even a single new electrical outlet, it may be legally mandatory to bring the whole electrical service up to the requirements of a new code for the town.

One of the best devices to use in coping with the problem of hidden costs is an alteration-remodeling check list. This one was developed by Henry and George Bertch, remodeling specialists in South Pasadena, California. If there is any doubt in their minds about any of the points covered here, they make every effort to clear it up before casting up their estimate.

ALTERATION-REMODELING CHECK LIST

LEGAL

1. Does ceiling height of affected room meet minimum requirements?
2. Do front set-back, side and rear yard clearances comply with code?
3. Will or are distances between structures on lot sufficient to comply with code?
4. Will zoning ordinance allow additional units if proposed?
5. Will any windows required by code be blocked off by new construction?
6. Are there and will there be two doors between bathroom and any room where food is prepared or served?
7. Is either a vent or forced ventilation provided for over kitchen range?
8. Will extra living unit require additional garage or off-street parking area?
9. Is percentage of lot covered by buildings within legal limits?
10. Do existing structures conform with code or must they, before adding to?

CARPENTRY (Structure)

1. Are walls and ceilings in close alignment between rooms where partitions are to be removed, or must one wall be furred?
2. Will ceiling joist or roof loads bear on partition to be removed?
3. Do existing ceiling joists show deflection and need "strong-backs" or other support?
4. What are the probable locations of studs (cutting doors, windows, etc.)?
5. Are termite or dry rot conditions evident (around toilet, etc.)?
6. Will direction of second-story floor joists allow rearrangement of upstairs bath if proposed (to allow easy routing of drain pipes)?

CARPENTRY (General)

1. Will any special mill sets be required to match existing moldings, casings, base, etc.?
2. Are floor boards under linoleum cupped so that plywood will be needed under new linoleum?
3. Will surface condition and thickness of hardwood floors allow refinishing without replacement?

PLUMBING

1. Will lead waste on plumbing need replacement?
2. Does sink drain enter wall low enough to accommodate garbage disposer or double sink?
3. Will any walls to be moved involve rerouting of pipes?
4. Are any drain or water supply pipes under large paved areas affected?
5. Will there be sufficient fall to drain pipes for plumbing units installed toward rear of structure?
6. Is existing water heater of sufficient size to carry additional needs (dishwasher, additional bath, etc.)?

(Continued on page 248)

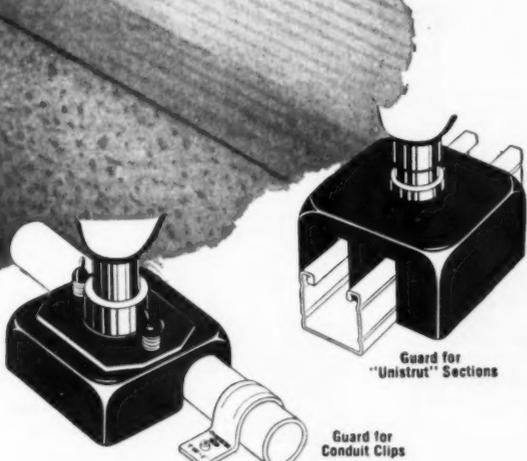
Now... set fastening studs
wherever they're needed

MODEL 450 REMINGTON STUD DRIVER

Here's new economy... new speed in construction fastening! The Remington Stud Driver joins wood or steel sections to concrete or steel surfaces in seconds... easily sets as high as 5 studs a minute. Powerful 32 caliber charges drive studs arrow-straight. The tool's light weight—only 5½ pounds—simplifies handling wherever studs are needed.

New guards for specific uses now make the self-powered Remington Stud Driver more versatile than ever. These attachments take all the guesswork out of stud location... assure fast, accurate fastening for every job. Illustrated are just 4 of these special guards. For full information about the complete line and about the Remington Stud Driver, send the coupon below.

*A complete line of guards
for special applications*



Listed & Approved by Underwriters' Laboratories, Inc.

MAIL THIS COUPON TODAY

Industrial Sales Division, Dept. AB-9
Remington Arms Company, Inc.
939 Barnum Ave., Bridgeport 2, Connecticut

Please send me my free copies of the new booklets showing how I can cut my fastening costs.

Name _____
 Position _____
 Firm _____
 Address _____
 City _____ State _____

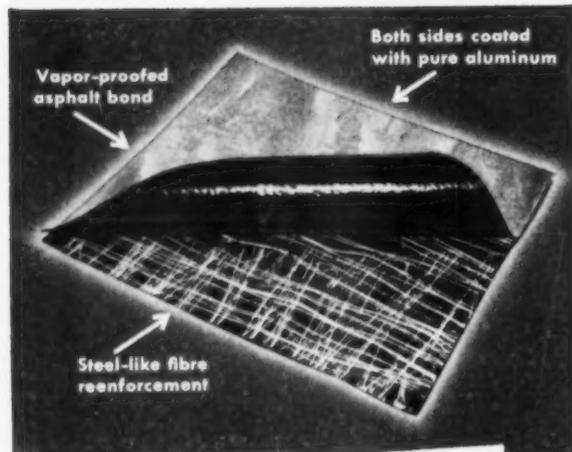


"If It's Remington—It's Right!"

Remington

Only Sisalation

OFFERS THESE 4 BIG ADVANTAGES—
AT ONE LOW COST!



Sisalation—the toughest vapor barrier and reflective insulation—gives you:

- 1 2-way reflective insulation—equivalent value of about 1 inch of bulk type insulation.
- 2 Dependable prevention against costly condensation damages—paint peeling, wood rotting, interior wall staining.
- 3 Protection against entry of drafts, dust, etc.
- 4 The unequaled strength of rugged fibre reinforcement needed for unbroken application.

All for 1 low material and labor cost!

Because of its amazing strength, Sisalation is easily stapled in place without rips or tears. For the average 5-room house, Sisalation costs only about \$25 to \$30. Available in 36" and 48" widths at your Lumber or Building Supply Dealer. For further information write Dept. AB-9.



The **SISALKRAFT Co.**

Chicago 6, Illinois • New York 17, N.Y. • San Francisco 5, Cal.

hidden remodeling costs

(Continued from page 246)

7. Will additional or larger septic tank be needed for additional plumbing loads?

ELECTRICAL

1. Will existing electrical service comply with code and be of sufficient size to accommodate additional lights or convenience outlets?
2. Will any ceiling lights have to be recentered where partitions are moved?

PAINTING-DECORATING

1. In rooms to be repapered, will old layers of paper have to be steamed off? What is the condition of plaster underneath?
2. Will minor changes (cutting or closing of door or window) require complete redecoration of room?

HEATING

1. Is existing furnace of sufficient size to service additional floor area or rooms?
2. Can vent be installed easily on installation of new floor furnace?

MISCELLANEOUS

1. Can finish hardware be matched?
2. Are walls plastered behind built-ins that are to be removed?
3. Will difficulty be experienced in removing old linoleum?
4. Is foundation of sufficient size to carry second story if proposed?
5. Is there sufficient clearance under house for accessibility?
6. Is structure settled or out of level?
7. Can required roof vents be cut easily? (Tile or slate roof?)
8. Is area of proposed work readily accessible for delivery of materials, etc.?
9. Can preassembled plastic laminate counter tops be carried into structure without difficulty?
10. Will driveway support heavy trucks (ready-mix concrete) without damage?
11. Can proposed new structures close to property line be painted, plastered, etc.? Is there sufficient clearance between proposed and adjacent buildings?

DISTINCTIVE ORNAMENTS



...for the HOME

WEATHER VANES

Several sizes with a wide choice of ornaments for every taste and purse.

These distinctive ornaments add charm and individuality to the home. IPC Line is complete with 75 interchangeable ornaments for your customers to choose from. Made of durable cast aluminum of high quality. Write for complete Dealer's "Wall Hanger" Catalog today. There's a good profit in these ornaments.

POST MARKERS



Charming designs to set off the home. Reflector-type and Genuine Scotchlite letters available.

POST LANTERNS



Distinctive designs to add charm to home or yard.

FOR BETTER LIGHTNING PROTECTION

INSTALL



COMPLETE PROTECTION

Be safe. IPC Complete Protection safeguards life and property. Cost is nominal for protection offered. Write for FREE booklet that tells how IPC really protects.

INSIST ON GENUINE

IPC

STRAN-MARK CABLES!

Write for complete information.



INDEPENDENT PROTECTION CO.

1605-07 South Main Street • Goshen, Indiana



... of course, it's electric!

Now! a twin bonus for builders

Famous Westinghouse Laundry Twins

...available At New Low Prices

Now you can add the proved "buy appeal" of a Westinghouse Laundromat® and Clothes Dryer to even the lowest priced home . . . because these famous laundry twins are now available in new models at attractive builder prices.

The new Laundromat and Clothes Dryer still give you Westinghouse quality. The Laundromat, model LS-7, is completely automatic. Its cycle can be stopped, started, or repeated, by the flexible single-dial action control. Its patented Agi-Tumble action washes regular

loads and delicate fabrics thoroughly, gently, and safely.

The Clothes Dryer, model DS-7, is full sized, and fully automatic, too! Its time control dial, together with direct air flow drying, offers faster drying for all types of clothes.

There's simply no comparison with any other low-priced laundry equipment. In every way, the Westinghouse Laundromat and Dryer are truly "America's Favorite Laundry Twins".

Ask us for full details.



EXCLUSIVE SLANTING FRONT

on each of the twins permits easy access into basket. Large door makes extremely handy loading and unloading platform.



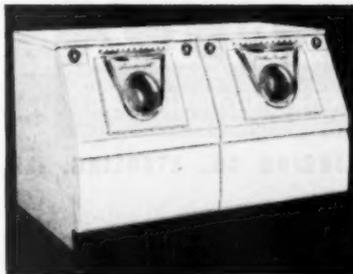
LARGE-SIZE LOADS

Laundromat will wash up to 9 lbs. of clothes, dry weight. Clothes Dryer will dry same load.

WESTINGHOUSE ELECTRIC CORPORATION
Electric Appliance Division • Mansfield, Ohio

Makers of Refrigerators, Home Freezers, Ranges, Laundromats, Dryers,
Dishwashers, Water Heaters, Vent Fans and Food Waste Disposers.

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



DE LUXE MODELS FOR EXTRA APPEAL

Model LB-6 Laundromat has extra convenience features, such as Weigh-to-Save Door and Water Saver. D-6 Clothes Dryer has 3-Way Dry Dial and Singing Signal.

FRANTZ
GARAGE DOORS AND HARDWARE

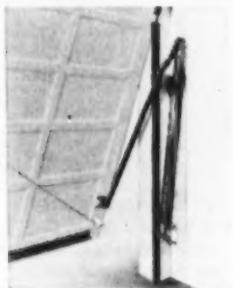
No. 10
Overhead
GARAGE DOOR

"Sells" Itself because—
it "OPENS" itself!



FEATURING

"POWERMATIC" ACTION



- Just release the latch — door swings open!
- Fits standard 8' x 7' single-width openings. Other models available to fit 8' x 6'6", 9' x 7' and 16' wide by 7' high.
- Torsion springs on arms start door open, then "Powermatic" takes over—a remarkable extra-value feature that clinches the sale.

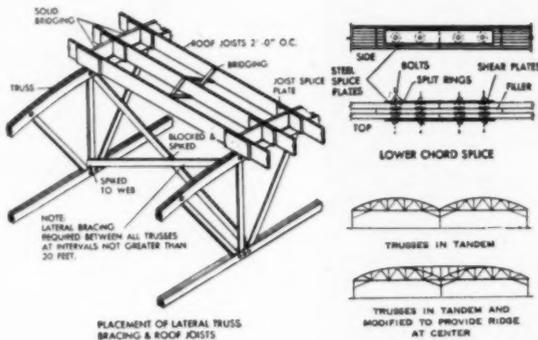
Sell the door that sells itself! The Frantz No. 10 does the selling job for you because it has everything you could want in a one-piece door, plus "Powermatic" Action that clinches the sale every time! Needs only 2" headroom, and is as beautiful in looks as in operation. Pre-fitted at the factory for easy installation, designed to give years of trouble-free service, you can show this door with pride. Check up on the No. 10 and other Frantz Overhead Door models. Write for a copy of Catalog No. 302, which gives full details of the beauty and easy operation of FRANTZ line of Overhead Garage Doors.

SELL FRANTZ - AMERICA'S BEST ENGINEERED OVERHEAD DOOR

FRANTZ
GARAGE DOORS AND HARDWARE

FRANTZ MANUFACTURING CO., STERLING, ILL.

bow string trusses



Courtesy Rilco Laminated Products

Bow string trusses afford economical and practical support for clear spans up to 100 feet and even more where the load bearing level is above required headroom and where truss farming may be concealed or is not objectionable if left visible

uniformly distributed design load tables for bow string trusses

Pattern	Length Out to Out	Total Load Pounds per Lineal Foot	Minimum Bearing (Inches)	Est. Shipping Weight
Standard Six-Panel Monocord Bowstring Truss				
F730	28	725	7	850
	30	675		
	32	625		
F735	33	940	8	1230
	35	850		
	37	835		
F740	38	840	9	1390
	40	800		
	42	760		
F745	43	765	10	1650
	45	725		
	47	690		
F750	48	835	11	1840
	50	800		
	52	770		
F755	53	765	12	2200
	55	730		
	57	705		
F760	58	735	13½	2500
	60	715		
	62	685		
F765	63	885	9½	3600
	65	860		
	67	825		
F770	68	760	10	3870
	70	740		
	72	715		

Courtesy Weyerhaeuser Sales Company

AMERICAN BUILDER



FOR TODAY'S
"SHOW ME" BUYERS...

THIS
MONEY-BACK
GUARANTEE!



It's nothing new with us—this Balsam-Wool guarantee. For years it has stood unchallenged as one of the most comprehensive guarantees ever offered by an insulation manufacturer. Today, when so many prospective home buyers want *definite* evidence of quality materials, this guarantee can be more useful to you than ever.

The Balsam-Wool guarantee is additional evidence, too, of the important **SECOND** value which an insulation should offer. The first value, of course, is insulation's primary job of reducing fuel bills and increasing comfort. The second value is the ability to keep re-sale value of the house high.

Balsam-Wool offers this important **SECOND** value because it resists settling or packing—because it has an efficient vapor barrier—because it is windproof. That's why Balsam-Wool has been known for years as a *lifetime* insulation. **WOOD CONVERSION COMPANY**, Dept. 119-93 First National Bank Bldg., St. Paul 1, Minnesota.

 **Balsam-Wool***
Sealed Insulation

*REG. U. S. PAT. OFF.

Balsam-Wool...Products of Weyerhaeuser...Nu-Wood®



**Gives You
BEAUTY that Sells and Sells**



Baths, kitchens, powder rooms of Viklon Metal Tile sell on sight! They're the center of attraction in any of their 26 fade-resistant decorator colors, gently rounded bevel, and sparkling glossy finish.

QUALITY that Lasts and Lasts

These rugged squares of metal with a hard-baked finish possess rigid structural stability. They will not warp, chip, or craze. They resist heat, ordinary household chemicals, and abrasive action of repeated washings.



ECONOMY that Saves and Saves



You start saving the minute you specify Viklon! The initial price is low and installation is relatively simple. Light in weight, no extra supports are required. And Viklon Tiles can be bent, cut, lapped . . . with ease!

Approved for government installations



VIKON TILE CORPORATION 5-J
WASHINGTON, N. J.

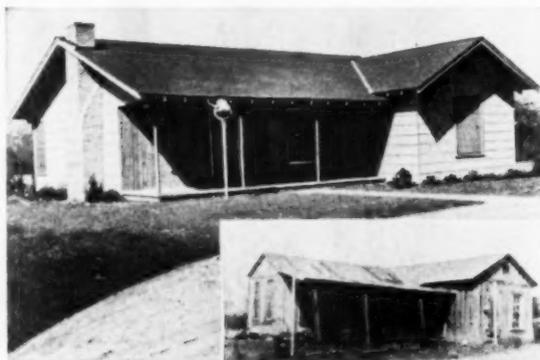
Please send me, without cost or obligation, the complete story of Viklon Tile together with full color brochure and sample tiles.

Name.....

Address.....

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

**the magic of remodeling
—inside and out**



This transformation of an Arkansas farm shack won a state-wide home remodeling contest

By rebuilding a dilapidated four-room shack into an attractive, modern house with five rooms and bath, an Arkansas farm family effected the transformation shown in the photographs and won first prize in a state-wide home remodeling contest. Exterior walls were covered with light green asbestos-cement siding shingles. Pine paneling was used for the porch wall. The structure was

(Continued on page 254)



Top—original one-story section of the house and the two-story addition made about 50 years ago. Below—the house today, with a new wing and asbestos-cement shingles for siding and roof

Built to sell fast when you install interiors of **Roddiscraft PANAWALL**



- low first cost
- low installation cost
- no matching problem
- informal charm of random widths
- no periodic redecorating

Beautiful, modern Roddiscraft Panawall adds to the sales value of the home you build. Panawall is permanent . . . easy-to-install. Once installed, maintenance costs are practically eliminated — a feature your customers will appreciate.

Roddiscraft Panawall is 1/4" hardwood plywood made of random-width veneers V-grooved at the joints. No matching problems . . . takes less labor to install.

See your Roddiscraft dealer or write for complete information on Panawall and other Roddiscraft decorative paneling items — Craftwall, Parquetwall, Cedrela, Plyweave.

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MARSHFIELD, WISCONSIN

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 Marshfield, Wis. 115 S. Palmetto St.
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Weatherproof Homasote

in sizes up to
8' x 14'



Combine insulation, quiet and mildew protection with "one-piece" wall or ceiling construction! Homasote "Big Sheets" range in sizes up to 8' x 14' — eliminate unnecessary battens and joints. $\frac{1}{2}$ stronger than diagonal wood sheathing, they are permanently crackproof and do not flake — provide a perfect base for paint and wallpaper. For complete specifications, send coupon.

Eye-appealing, space saving; they fold to 10% of their full expanse. They give ventilated full closure as closet doors, space dividers and window drapes. . . Available in endless combinations of sizes, shapes and colors. Built of the finest mildew-proof, warp-proof, inner core bamboo — with specially designed hardware for long life, easy operation. Send coupon for illustrated booklet.

Novafold Bamboo Doors and Window Drapes



HOMASOTE COMPANY



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Co. Trenton 3, N. J.

HOMASOTE COMPANY, Trenton 3, N. J., Dept. 20D

Send detailed, illustrated literature on

Homasote Novafold All Homasote-Nova Products

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ADDRESS _____

CITY & ZONE _____

STATE _____

My lumber dealer is _____

254

magic of remodeling

(Continued from page 252)



Decorative fir plywood, known as Sea Swirl, used for paneled walls and built-in bookcase in a modernization plan.

given a concrete pier foundation, a fireplace and new asphalt roofing.

Transformation No. 2—the two-story house shown in the photographs—is a farm house in Illinois which is beginning a third cycle of service. Originally, some 80 years ago, it was merely a one-story cottage (seen as the "ell" in the "before" photo). Stage two began about 50 years ago with the two-story addition on the left. Now the original part of the house has given way to a new wing which includes a basement playroom, a combined living-dining room, a second-floor hobby room and a porch. White asbestos-cement shingles were used for siding for the entire building, and the roof was covered with the same material in red.

The two interior photographs show the use of fir plywood in home modernization. This versatile material comes in 4x8-foot panels, is effective in ceiling applications as well as for wall finish.



Decorative plywood used on the ceiling of a bedroom. The material is produced by Associated Plywood Mills of Eugene, Oregon

AMERICAN BUILDER

The tool the boss reaches for...

Porter-Cable



If there's a Porter-Cable tool around, trust the foreman or one of the older hands to reach for it first.

Why? Because for more than 20 years these tools have led the field in handling ease. Weight is evenly distributed so they're easier on the muscles, easier to guide. Naturally, less strain and more control means greater accuracy on the job.

Handling ease is one of the qualities responsible for Porter-Cable's leadership in electric tool design. It's an in-built feature that makes these fine tools first choice among experienced craftsmen.

Latest Porter-Cable Belt Sander shown above. Model 503 — \$135.
Send for free catalog describing complete line.

PORTER-CABLE MACHINE CO. 1009 N. Salina St., Syracuse 8, N. Y.

Routers • Saws • Belt Sanders • Orbital Sanders • Drills • Planes • Shapers • Chain Saw • Hedgecutter • Combination Drill-Sander

Leadership in electric tool design led to these Porter-Cable originals . . .

-  FIRST belt-type hand sander
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-  FIRST cam-type chuck on new Porter-Cable Router
-  FIRST kick-proof saw

Porter-Cable

Quality Electric Tools



SQUEEZING-INTO SPECIALIST

Here the Hydrohoe excavates a narrow lot on a busy corner. Its ability to work in extremely close quarters permits it to handle jobs that would normally require expensive hand labor.



For trenching, pit digging, and other specialized excavating, the all-hydraulic Hydrohoe is the stand-out performer, especially when the work requires squeezing into tight places. Here's why:

1. Hydraulic outriggers provide outstanding stability.
2. Extremely short tail swing permits maneuvering in narrow alleys, small lots, congested plants . . . work under almost impossible conditions.
3. Hydraulic ejector pushes dirt out of 12 or 18-inch dipper quickly, cleanly without even hoisting dipper to full dump position.
4. Telescoping boom makes it easy to duck under wires or tree branches — reach into confined spots and bring out big loads.
5. Can be converted to crane in amazingly short time — right in the field.

Here is the builder's answer for a fast, compact, labor saving crane-dragshovel. Your Hydrocrane distributor will be happy to give a convincing demonstration. 14H53

BUCYRUS-ERIE CO.

SOUTH MILWAUKEE, WIS.

**corduroy roads
saved 47 work days
for builder**



Heavy timbers pave the way. Without them, unseasonable rains would have made new unfinished streets cut through former estate completely impassable.

Use of corduroy roadways more than three-quarters of a mile long during an extremely rainy season last February and March is credited with saving 47 work days at the Stratton Heights development in New Rochelle, New York.

Rather than delay building operations and face a heavy work schedule in the spring, Ben Okun Associates, the builders, decided to install this roadway of heavy 4x12 timbers and shift it from section to section of their 70-acre tract as work progressed. Cost of the initial installation, plus the expense involved in shifting the roadway, was estimated at \$20,000.

The sponsors were inclined to minimize the expense since the road not only permitted heavy trucks to deliver materials but let prospective purchasers in to see the work actually under way. As a result, the first section of homes sold out quickly. All air conditioned, the houses comprise a split-level priced at \$28,500 and a ranch-style unit priced at \$26,900.





*As fundamental as
proper lighting...*



*A well-built house
is always better
when it includes
raceways for
telephone wires*

Planned outlets—whether for lamps or telephones—help make the houses you build more livable. Better looking, too, in the case of telephone outlets.

Telephone outlets and raceways are your only guarantee of *concealed* telephone wiring.

It's good practice to include telephone raceways in all your new homes. You protect the appearance of walls and woodwork. You impress prospects and make your homes more saleable. And you enhance your own good reputation.

Your Bell Telephone Company will be glad to help in planning economical raceway installations. Just call your nearest Business Office.

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Backed by 12 years
development and use

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TYPE "A"

PLASWOOD PANEL

An extra-strength panel board, made from specially treated long wood fibers. Made in two densities—one as sidewall sheathing—one as underlayment for asphalt and rubber tile, linoleum, wall to wall carpeting.

High resistance to indentation—exceptional nail-holding power—strong bracing qualities—these, along with positive lower cost of Plaswood make it the answer to stronger, more economical construction.



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Send this coupon today.

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Please send me the facts about Plaswood and the name of your nearest jobber or dealer.

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century of service for Paine Lumber Company

Paine Lumber Company, Ltd., Oshkosh, Wisconsin, is celebrating its centennial this year culminating 100 years of service in the mill-work industry. Paine Lumber Company is, today, the world's largest mill devoted exclusively to the production of hollow-core flush doors, incorporating the ventilated air-cell principle. The manufacture and sale of doors, however, was not originally the company's primary activity, but became its premium product after a unique history of pioneering and originality in the fields of lumbering and millwork.

Paine Lumber Company began its long history when Edward L. Paine of New York, founder of the company, stood on the banks of the Fox River, Wisconsin, in the fall of 1853. The westward movement was in full swing, urged and prompted by Horace Greeley's advice to all young men that they "go west." Paine, encouraged by the general trend, went west to see for himself.

A lumberman by profession, Paine was quick to see the possibilities of the west timberland that he viewed in the Fox River valley. He moved his family and his business interests to the vast, new and rich timberland, and the Paine Lumber Company was born.

Oshkosh became a center for lumbering and milling and Edward L. Paine was one of the few who pioneered the upper Mississippi region in this capacity. There were twelve mills operating in Oshkosh in 1854. Paine met competition by introducing the first circular saw into his new steam mill. Twenty years later C. N. Paine & Company, as it was known then, was one of 47 saw mills and 15 shingle mills. Oshkosh had become known as "Sawdust City."

From 1853 to 1883, C. N. Paine & Company was a producer of lumber. By the 1870's the timber lines had receded sufficiently to cause many saw mills to shut down or to turn to other activities. C. N. Paine & Company entered into the field of sash, door and blind manufacture. By 1883, C. N. Paine & Company

(Continued on page 260)

CASH IN

on

RED CEDAR CLOSET LINING

SEAL-
PACKAGED
FAST-MOVING

Nationally
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BROWN'S

SUPERCEDAR

Guaranteed 90% Red Heart—100% Oil Content

Our national advertising annually produces thousands of customer inquiries which are turned over to our dealers for follow-up. Here is an active market for cedar closet lining. Brown's SUPERCEDAR is a fast-moving, profitable item and is produced by the largest and oldest experts in the business. Sold only through leading jobbers and millwork distributors.



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PRODUCT OF

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LARGEST MANUFACTURERS OF
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annular-threaded linoleum underlay drive screws



To make your linoleum underlays hold tightly and lie flat permanently, secure them with Hassall annular-threaded linoleum underlay drive screws. They are cement-coated for maximum gripping power. Heads are flat countersunk type. Size: 1 1/4" x #3 gauge. State quantity when writing for prices to:

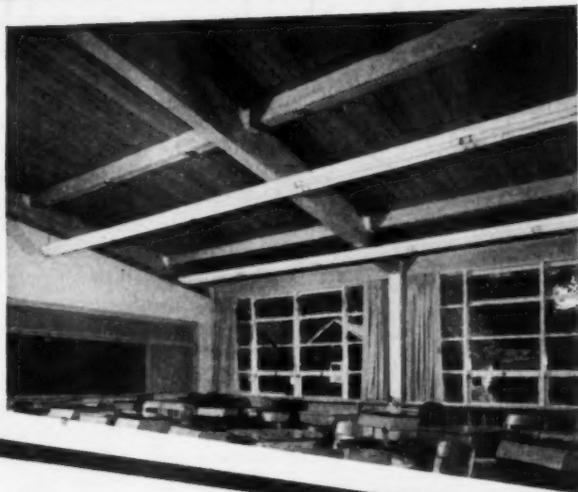
JOHN HASSALL, INC.

P.O. Box 2151
Westbury, N. Y.
Established 1850



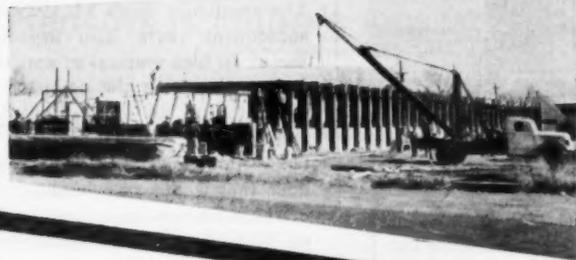
AMERICAN BUILDER

HURLEY CONSTRUCTION CO., ST. PAUL, MINN.



Architects: Smith & Voorhees, Des Moines, Iowa

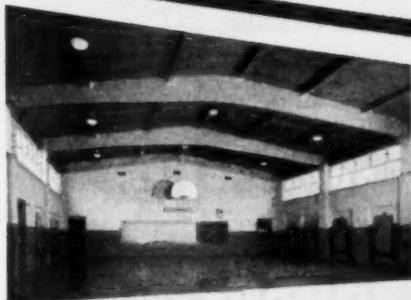
"Besides saving the cost of hard to get material, Rilco cut our erection costs. The natural beauty of the wood allowed us to leave the beams exposed. No furring for a ceiling was necessary; we just nailed the Rilco decking directly to the top of the beams and purlins.



Take it from contractors like Mr. Hurley. They know that Rilco glued laminated wood structural members with their availability, easy erection and natural wood beauty can save up to \$500 per schoolroom. The next project you have that calls for glued laminated wood arches, beams or trusses—get a quote from Rilco. Rilco's engineers are pleased to consult with you about your requirements and give "on the job" cooperation.

SAVED \$500 per SCHOOLROOM with RILCO BEAMS

"We were able to give the best bids for the Webster Grade School at Pella, Iowa and the West Side Grade School at Eagle Grove, Iowa," says Gene Hurley, "because we knew Rilco Beams, Purlins, Columns and Decking cost less than other types of heavy construction material.



"Beams arrived on the job ready for erection; we didn't have to touch them with a saw or drill. The heavy paper covering prevented marring or scratching during erection. Another factor that kept construction costs down—we didn't have to hire a specialized crew. The carpenters on the job did all the erection easily with the connectors furnished by Rilco."

RILCO
works wonders with wood

RILCO LAMINATED PRODUCTS, INC.

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Butt Weld DUR-O-WAL

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Design

**"YOU CAN SEE THE DIFFERENCE
THAT MAKES A BIG
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Across the nation the building industry is hauling butt-weld Dur-O-wal. This superior reinforcing member utilizes architecture's oldest reinforcing principle . . . trussed design . . . for both vertical and horizontal reinforcing. Electrically welded of premium quality steel (strength 100,000 p.s.i.), Dur-O-wal handles fast, lays flat, cuts time and costs. Write nearest plant.

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Automatic
**FRAMING
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SOLVES ALL
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**ALL YOU NEED
TO KNOW IS WIDTH
OF BUILDING AND
PITCH OF THE ROOF**

No more bulky squares, rafter tables, slide rules and other extras to carry while figuring roofs. Just set Sharp's Automatic Framing Square to pitch of roof and it automatically solves every problem and provides direct marking guide for all cuts. Gives exact figures for length of rafters. Cuts given in square readings and in degrees for power saw work. Opens to 90-deg. angle.

A sturdy, all-metal tool that folds up into one compact unit . . . 1 foot long, 2 inches wide. Fits in pocket easily. Full money-back guarantee. Order today direct from Sharp's Manufacturing Co. P. O. Box 332, Dept. O, Salem, Oregon Prepaid \$9.85—If COD Postage Extra

SHARP'S

Automatic **FRAMING SQUARE**



\$9.85

PREPAID

**One Setting gives you the marking
for both Plumb Cut and Mitre Cut**

Blade gives marking for Plumb Cut of Common and Hip Rafter.



Bevel Bar automatically adjusts itself for all Mitre Cuts on Hip, Valley or Jack Rafters.

Paine centennial

(Continued from page 258)

was reorganized as a corporation and took the title it now bears.

The plan to produce sash and doors required more logs at a time when timber was getting more inaccessible. The foresight of George M. Paine, president of the company in 1885, was evidenced when he convinced the Chicago & North Western Railway that some of the "inaccessible" pine timber could be transported by railroad.

But the consumption of pine continued at such a rate that by the end of the 19th century, the pineries of the Midwest were greatly depleted. West coast lumber was able to compete with the pine markets of the Midwest. It was then that the Paine Lumber Company was the first to use Wisconsin birch as a hardwood substitute for pine.

From 1899 to 1934, the company produced the hardwood door, made possible by the use of tools like the Shimer bit and the use of the Lindermann dovetailer. Conservation of wood became more necessary as time went on. By using veneers and insert panels, the amount of lumber needed for a door was markedly reduced.

The continuing battle between production of quality doors, rising lumber costs and timber reserve depletion demanded a very revolutionary approach in the manufacture of doors during the 1930's. The economic crisis of 1929, and subsequent years, also urged the use of an idea unusual in approach. It was then that the company decided to use an idea patented by Nathan Paine in 1910. His idea was the production of a hollow-core door that would save lumber.

Extensive research was carried on to find a suitable construction method for a hollow-core door. The research finally led to a type of door developed in France and used extensively aboard ships. The French liners used the Rezo door because it was light in weight and virtually warp-proof.

The Paine Lumber Company purchased the American patent rights and began to test the Paine-Rezo door in 1935. Since then the Paine Lumber Company has turned out

(Continued on page 262)

Kencork helps sell homes faster

YET COSTS NO MORE*



Kencork is nature's most adaptable flooring for any size home

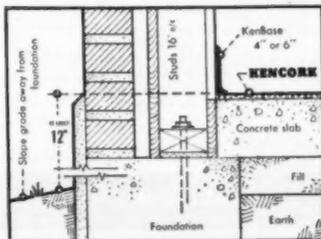
Home buyers know all about Kencork...want it because they've seen it and read about it month after month in their favorite magazines...in colorful advertisements as well as impartial news stories. That's why it's smart selling to remind every prospect about the exclusive advantages of Kencork Floors and Walls. Explain that the preferred random tones are perfect with any color scheme, period plan or decor. Yes, Kencork in one or more rooms takes your houses out of the ordinary class with conventional floors and makes them easier to sell.



***KENCORK COSTS NO MORE THAN HARDWOOD
WHEN INSTALLED OVER CONCRETE!**

Install Kencork over any interior surface... even over concrete in contact with the earth where drainage is away from installation and sub-floor is 12" above grade.

Kencork installed prices are surprisingly low. Your Kentile Flooring Contractor will gladly furnish you with an estimate...he is listed under FLOORS in your Classified Phone Directory.



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"best of all" POWER TOOLS



**Model 72
MALLSAW
\$64.50**

- 7-inch Blade
- Compact Design
- Rugged Construction



Here's one of the many MALLSAWS you can choose from to meet your exact requirements. This 7-inch blade model has a cutting capacity of 2 3/8"—cuts a 2x4 at 45°. Its many features include: automatic telescoping blade guard, precision, heat treated gears, depth and bevel adjustment and rip guide.

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MALL DRILL
\$34.95**

- 1/2" Capacity
- Abundant Power
- Lightweight



For holes-in-a-hurry (big or small) this famous MALLDRILL does a real job. Powerful motor—yet lightweight. Geared chuck, interchangeable handle, locking trigger switch, polished finish. Use in wood, masonry or steel. Converts to hole sawing, grinding, sanding, many other applications. Send for full details on Model 128 and the complete line of MALLDRILLS and MALLSAWS for the building trade.

40 Factory-Owned Service Warehouses, Coast to Coast, To Serve Our Customers and Thousands of Dealers.

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Company _____

Address _____

MALL TOOL COMPANY

7732 S. Chicago Ave.

Chicago 19, Illinois

Paine centennial

(Continued from page 260)

more than 6,000,000 Paine-Rezo hollow-core doors.

Now, in its 100th year, the Paine Lumber Company can take pride in its long period of achievement and can well be grateful for the foresight of its founder who went west and found that opportunity in America needs only ingenuity and fair-dealing to become a success.

Trane air conditioning manual has new edition

A newly revised 380-page edition of "Trane Air Conditioning Manual" has been issued by the Trane Co., La Crosse, Wisconsin for \$5. A new chapter has been added to cover fan application and selection, basic fan laws and duct design data. The manual opens with a simplified presentation of the physical laws governing heat and cold and applies these laws to practical problems of air conditioning. A chapter on the physiology of the human heat control mechanism explains comfort standards. Other chapters discuss heat gain and loss, properties of air and the psychometric chart, refrigeration and calculations for the conditioned air supply.

GET HIGH EARLY STRENGTH WINTER CONCRETE with Standard Cement plus Solvay Calcium Chloride

- Provides Additional Cold Weather Protection
- Permits Positive Control of All Temperatures
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- Lowers Your Costs

To speed up operations and permit use of concrete in shorter time—especially in cold weather—add Solvay Calcium Chloride to your Portland Cement concrete mixes. Works equally well with all Portland Cements, including standard, high early, air entrained and low heat cements. It helps lengthen the pouring day and cuts costly protection time in half. For full details write to Dept. 34-3 for free book, "The Effects of Calcium Chloride on Portland Cement."

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 IN COLD WEATHER—**
 Be Sure to Specify
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CALCIUM CHLORIDE

Ask the man behind the gun . . .

White gives you everything you want in an engineer's transit



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WHY are more and more engineers and builders choosing White Engineers' Transits? Basically, the reason is simple: White transits are designed and built for the man in the field. They incorporate all the work-saving, accuracy-boosting features . . . the rugged construction . . . the simplified quality components that you want. In addition, you get coated optics, covered leveling screws and internal focusing Telescope. Wide frame tripod is optional.

YOUR CHOICE OF THREE RETICULES AS SHOWN BELOW —



Fig. I Cross hair arrangement for our standard levels.



Fig. II Stadia hair arrangement for our standard transits.



Fig. III Special stadia hair arrangement, furnished upon request.

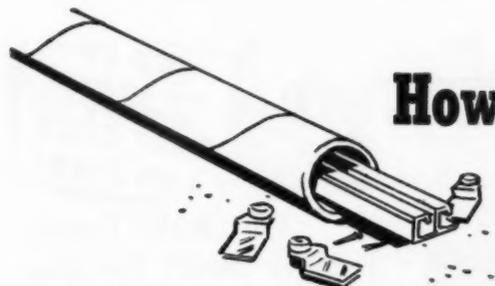
To get the details on the complete White line of instruments for Engineers, Surveyors and Builders, write for Bulletin 1053. DAVID WHITE COMPANY, 311 W. Court Street, Milwaukee 12, Wisconsin.



We offer the most expert REPAIR SERVICE on all makes, all types of instruments

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AMERICAN BUILDER



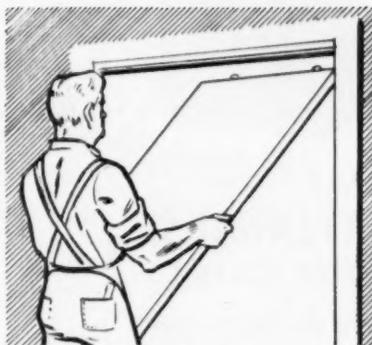
How to install sliding doors in as little as 6 minutes



1 Mount track to header, keeping face of track flush with opening. (35 seconds)



2 Use template to position carriers, attach with single screw. Mount guide-strip on bottom rear. (2 minutes)



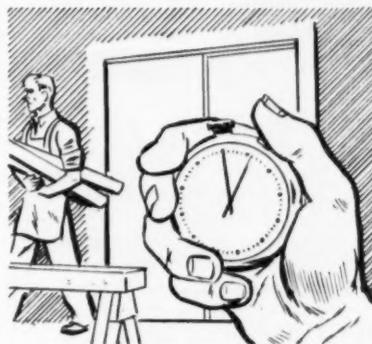
3 Hold rear door at angle and engage rollers on bottom of track. Let hang. Do same with front door. (30 seconds)



4 Bottom clearance should be $\frac{1}{8}$ ". Loosen screw, raise or lower door, tighten. Insert other screw. (100 secs)



5 Open doors. Place floor guide halfway under doors, screw to floor. Move doors and secure other side. (55 secs)



That's all! Time, less than 6 minutes for a pair of by-passing doors! Rocket Sliding Door Hardware goes up fast!

You save twice when you use Rocket Sliding Door Hardware. First on the cash-cost of the hardware, then on the time-cost of installing it.

You get fine features in the Rocket. The handsome self-facing track mounts flush, needs no fascia plate. Headroom is low, nylon rollers are quiet and construction is absolutely sturdy.

Pre-Packaging brings Rocket Hardware to the job complete, protected and cut to standard size. (4', 5', 6' or 8' openings, for single, bi-parting or bypassing doors). Also special sizes.

It all adds up! Low cost, easy handling, fast installation and excellent operation make the Rocket the top seller in its field. See your supplier or write us for full information. Grant Pulley & Hardware Company, 31-63 Whitestone Parkway, Flushing, New York.

**For cutting costs
without cutting quality...**

Rocket

SLIDING DOOR HARDWARE



Grant Pulley & Hardware Company manufacturers of Sliding Door Hardware, Drawer Slides, Sheaves & Track, Curtain and Drapery Hardware, Industrial Slides.

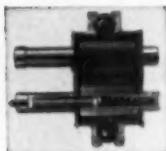
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FORGET 'EM**



THE AVALON
\$10.95 list

**ONLY
RITTENHOUSE
DOOR CHIMES**

have the **FLOATING
PERCUSSION UNIT!**



This is the only chime striker unit that eliminates metal to metal contact between plunger and solenoid tube.

HERE'S WHAT it does—assures dependable, quiet, service-free chime performance. It ends annoying hum, buzz and sticking plungers. No Rittenhouse Door Chime with Floating Percussion Unit has ever been returned for servicing because of jammed or sticking plungers . . . most common cause of failure with conventional chime design.

plus Matchless Tone

The melodious golden tone of Rittenhouse Door Chimes is due to flawless craftsmanship, finest quality materials and precision engineering. More than a million in daily use.

**and A Style
for Every Home**



THE SENTINEL \$15.95 list

There's a Rittenhouse Chime design for every type home—apartment, cottage, ranch or mansion. 15 models from \$4.95 to \$116.00 list.

See your electrical contractor or write direct for all the facts on the complete Rittenhouse Door Chime Line.

**Rittenhouse
DOOR CHIMES**

THE RITTENHOUSE CO., INC.
13 Owen St., Honeoye Falls, N. Y.

**low-cost, air conditioned
subdivision for Memphis**



Sam N. Inman, Inc., Memphis builder, has opened a project comprising 76 houses, all of which are air conditioned. Homes in the subdivision, Park Manor, sell for \$11,400 to \$13,000. This is the first all air conditioned project in Memphis, and 28 homes were sold in the first two months of its opening.

The houses are two- and three-bedroom brick, with carport. Two-ton refrigerated water-cooled Mayfair air conditioning units, including Marley water tower, have been installed in each dwelling.

Under GI loan, down payment is \$800 for three-bedroom unit, \$715 for two-bedroom; under FHA loan, down payment is \$3,700 for three- and \$3,200 for two-bedroom home.

**FED UP
with Complaints
about Drawers
THAT STICK
AND BIND?**
**NOW! Provide
Fingertip Drawer Operation—**

a feature
housewives want
in built-ins
with—



Roll-ez
**ROLLER BEARINGS
FOR WOODEN DRAWERS**



Installed in built-ins, Roll-ez do away with the wooden drawer nuisance of sticking and binding; add immeasurable value to your homes at negligible cost. Compact, rugged, virtually indestructible, these durable plastic rollers eliminate wood-to-wood contact and maintain perfect drawer alignment, assure smoothly operating drawers throughout a lifetime of use. Installation is quick and easy. AND . . . because they allow a simplified drawer construction and faster fitting of drawers, save important time and labor. Six styles, they fit readily into your plans.

AND TWO
MORE STYLES

Write for Literature Today!

JUNIOR-PRO PRODUCTS CO.
3206 Morganford Rd., St. Louis 16, Mo.

NEW OPENING FOR AGENTS

Due to a recent redistribution of areas, a few positions are open for reliable agents. Steady income selling product popular for 31 years. Contact . . .



Est. 1922

AMERICAN Roof Truss
1038 East 87th
Chicago

BUY

DEFENSE BONDS

Now! A new "break" for the driver

... is a "break" for your delivery costs! The world's most comfortable truck cab cuts driver fatigue!

Keeping the driver happy by reducing driver fatigue is not the only virtue of the new Ford Truck DRIVERIZED CAB.

Easier driving, for example, means safer driving! Easier driving means greater efficiency in terms of more trips, more stops, more deliveries per day—which means a more profitable operation.

The new Ford Truck DRIVERIZED CAB is just one of many new *time-saving* features that help *get jobs done fast!*

For sustained speed travel, Ford provides new LOW-FRICTION power in V-8 or Six. For faster, easier handling, Ford provides Synchro-Silent transmissions in every model—and new "short-turn" front axles.

Both Standard and Deluxe DRIVERIZED CABS offer all the features mentioned on this page. See your Ford Dealer for full details.



DRIVERIZED DELUXE cab shown in photos available at slight extra cost.



SWING open the new, wider doors! Door handles are the easy-operating push-button type... like you get in quality cars. Door latches are new rotor-type.



HOIST your size 12's into the cab! Plenty of room between the seat and door pillar. No need to do a toe dance getting into or out of a Ford "DRIVERIZED CAB!"



SLIDE into the wide, comfortable seat. Bounce on it to test the super-cushioning action of Ford's exclusive seat shock snubber and new non-sag springs.



SWEEP your eyes across the new one-piece windshield. With picture-window visibility like this you can really navigate. Safer driving, of course! Less eye-strain!



GLANCE back through the 4-ft. wide rear window. Heads right or left, you can see the space you're backing into. Why pay extra for rear quarter windows?



STRETCH your arms into big cab roominess. With more hip-room than any of the 5 other leading makes, FORD DRIVERIZED CABS banish that "squeezed-in" feeling.



World's most powerful Pickup truck with the world's most comfortable cab. 6½-ft. box, over 4 ft. wide. Clamp-tight tailgate. Choice of V-8 or Six engine.

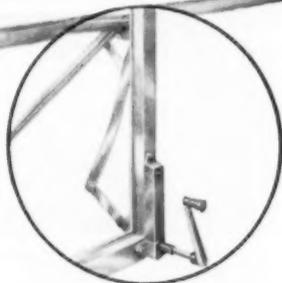
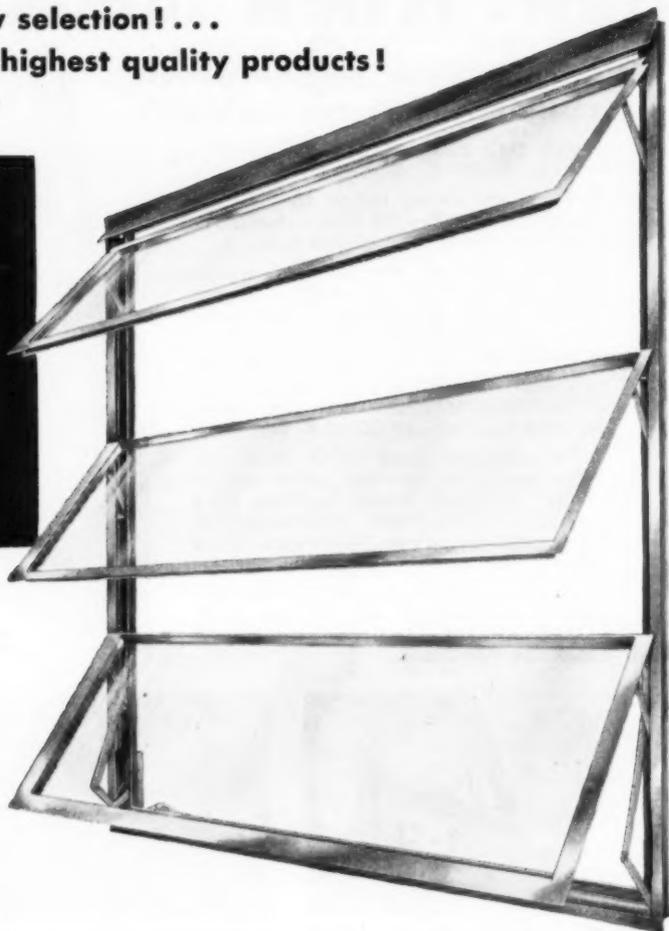
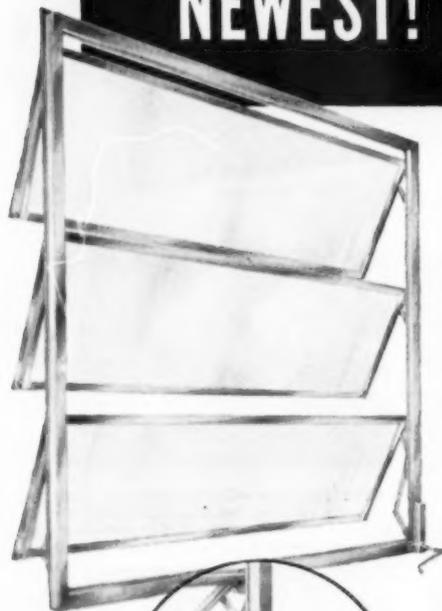
FORD ECONOMY TRUCKS

SAVE TIME! SAVE MONEY! LAST LONGER!

THE BIG LINE IS GROWING BIGGER!

to give you greater window selection! . . .
to help you standardize on highest quality products!

HERE'S
TRUSCON'S
NEWEST!



Sturdy operating mechanism protected against weather, sand, dirt, salt spray. Simultaneous, equalized ventilator opening. Positive closing.

Aluminum Awning Windows

● The window advances are coming from Truscon! Last summer Truscon announced the Ranch Window that set new standards in steel windows for popular one-story homes. This spring Truscon introduced its sensational aluminum casement in modular sizes. Now . . . Truscon offers you what the trade has been waiting for . . . its customary quality design and sturdy construction in a brilliantly new aluminum awning window.

Truscon Aluminum Windows feature modular sizes to match standard masonry dimensions. Approximately 8% more light and ventilation per window opening. Heavy extruded aluminum sections with a minimum frame depth of 1 7/8". Weathertight construction with vinyl plastic weatherstripping. Protected operating mechanism. Many more features you'll want to know about. Write Truscon for latest bulletins. Watch the big line for the big news. When Truscon offers a new product you can bank on its satisfactory performance.



TRUSCON STEEL DIVISION

REPUBLIC STEEL CORPORATION

1050 ALBERT STREET • YOUNGSTOWN 1, OHIO

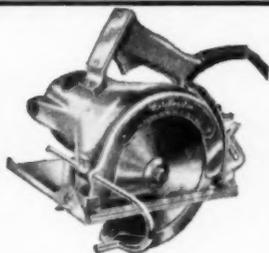
Export Department: Chrysler Building, New York 17, N.Y.

TRUSCON®

a name you can build on

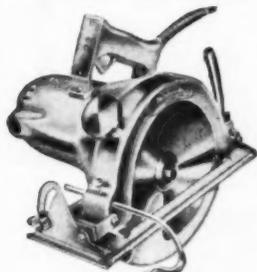
These Preferred Power Saws

Do Better Work For You!



Model 160—6" Saw
 (Can be furnished with blade on right or left side)
 Vertical depth of cut—2"
 Bevel cut at 45°—1 1/4"
 Net weight—10 lbs. 8 oz.

BRADFORD



Model 180—8" Saw
 Vertical depth of cut—29.32"
 Bevel cut at 45°—2 1/16"
 Net weight—17 lbs. 8 oz.

BRADFORD Electric Saws are fast becoming the power saw that craftsmen prefer. These finely balanced, precision power saws make quick, easy work of the toughest sawing jobs. They handle perfectly in any position. They're better designed, inside and out, for smoother sawing, less fatiguing effort, more accurate work.

Own a new Bradford Electric Saw—the power saw preferred by craftsmen. See them at your Bradford dealers! Write for illustrated literature.

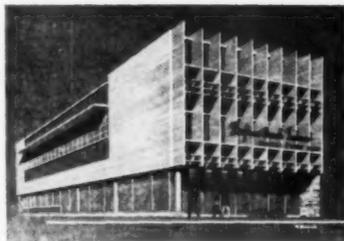
THE BRADFORD MACHINE TOOL CO.

654 Evans St. Cincinnati, O.

Precision Since 1840



Savings and Loan goes modern



This ultra-modern structure, completed in May, houses the Daytona Beach Federal Savings and Loan Association. Built by the Carlson Construction Co., all workmanship on the structure was done by members of the Building and Construction Trades Council of Daytona Beach. They spent 135 working days on the job, handled 30 tons of steel, 400 yards of concrete, 1,400 square feet of glass. Corrugated Transite was used for one entire wall to give the effect of a hanging drape. The facade features glass and stainless steel doors.

Design of the building was done by the Bank Building Equipment Corporation. Cost of the structure was around \$200,000.



Part of lobby and waiting space showing Transite wall

SINCE 1912
 Protection for Masonry

STOP Leaks

IN YOUR MASONRY INSTANTLY



WATERPLUG

STOPS THE LEAKS

In every type usable below-grade room, tunnel, dam, water-supply system and cellar. Ask for Circular No. 14.



THORSEAL

SEALS THE SURFACE

Against entrance of moisture into masonry, prevents mildew, which causes sour odors in interior rooms. Ask for Circular No. 16.



QUICKSEAL

FOR BEAUTIFUL FINISH

In pastel shades for finish coat over THORSEAL base applications. Ask for Circular No. 15 and Color Card 32-8.

Write for Pictorially described literature "HOW TO DO IT"

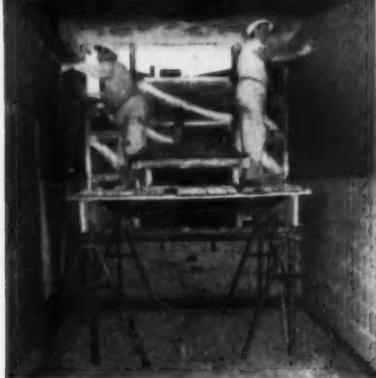


Standard Dry Wall Products

NEW EAGLE, PENNSYLVANIA

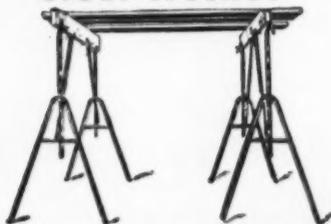
DO

ALL OVERHEAD WORK
This easy, low-cost way!



"TROUBLE SAVER"

Adjustable
Steel Trestles



SAFE! STRONG! ECONOMICAL!
Adjustable for Height and Width



• Details of the quickly adjustable "Trouble Saver" Steel Trestle.

Builders, contractors, maintenance men and others save time, labor and material with "Trouble-Saver" Adjustable Steel Trestles. They're unequalled as a safe, sure, low-cost method of handling all overhead work under a wide variety of conditions.

Write for new catalog and complete information.

SIZES - SPECIFICATIONS, ETC.

Size No.	Low Point	High Point	Number of Adjustments	For Working Heights
2	16"	22"	4	7½ to 7¾'
3	2'	3'	5	8 to 9'
3½	2½'	3½'	5	8½ to 9½'
4	3'	4¼'	6	9 to 10¼'
6	4½'	6'	9	10 to 12'
8	5½'	8'	11	11½ to 14'
10	6½'	10'	15	12½ to 16'
12	7'	12'	19	13 to 18'

THE STEEL SCAFFOLDING CO., INC. Dept. AB

856 Humboldt St., Brooklyn 22, New York
Telephone: Evergreen 9-2802

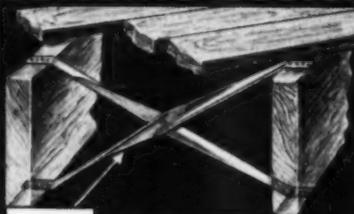
"\$1.63 a day buys this home"

Full page ads in a Florida newspaper carrying the above head bring into sharp focus the importance of installment selling, not only to the prospective buyer but to all others concerned in the transaction. It is selling the easy way, as compared with the hard way when the total price is mentioned.

A prospective home buyer can be frightened away by telling him that the total price of a house is so many thousand dollars. Even if he believes that he can swing the deal, he doesn't like to talk in terms of thousands, especially when it is a case of obligating himself for a long period of years to repay this substantial sum.

The realtor who advertises two-bedroom homes for \$1.63 a day has the right merchandising approach. By putting the price of a home, garage, or other structure, within the imaginative powers of the prospect, the seller prepares a far more favorable sales approach than if he featured the total sale price.

CUT BUILDING COSTS!



Patented forged brass nuts assure extra rigidity and strength for superior load carrying durability.

Bridge Wood Joists the FASTER... BETTER Money-Saving Way

WITH NEW Metal CHAN-L-CROS CROSS BRIDGING

Chan-L-Cros is an advanced method of bridging wood joists that provides greater floor strength and cuts building costs. It reaches you ready for quick, easy installation... speeds construction because it eliminates sawing and fitting of wood. This greatly reduces time and costs... increases the contractors profit!

Other Advantages That Make Chan-L-Cros Better

It distributes a concentrated load to adjacent joists to prevent deflection of beams by the practical application of the principle of tension... it is flexible enough so that joists off required centers can be fastened just as securely as those precisely placed... provision for nailing meets requirements of all building codes... does not interfere with laying of subflooring... cannot separate from joists when under load or as lumber shrinks.

Chan-L-Cros is available in sizes for 8, 10, and 12 inch joists... suitably finished to resist rust. It is also recommended for construction of arched ceilings.

Write for Complete Data!
JUNIOR-PRO PRODUCTS CO.
3206 Morganford Rd., St. Louis 16, Mo.

THE NEW

calder

OVERHEAD GARAGE DOOR LINE

has a style and size for every need



CALDER "STURDY" DOOR



CALDER "LEVELINE" DOOR



CALDER "FLUSH" DOOR



CALDER COMMERCIAL DOOR

Here's a brand new line of doors that has *everything*. Made by a manufacturer with over half a century of designing and engineering experience, the new Calder doors are available in every conceivable size and style for every conceivable need. Special designs and sizes to order and for extra appeal to the customer and extra profit for you—all Calder doors can be equipped with radio controlled electric operators.

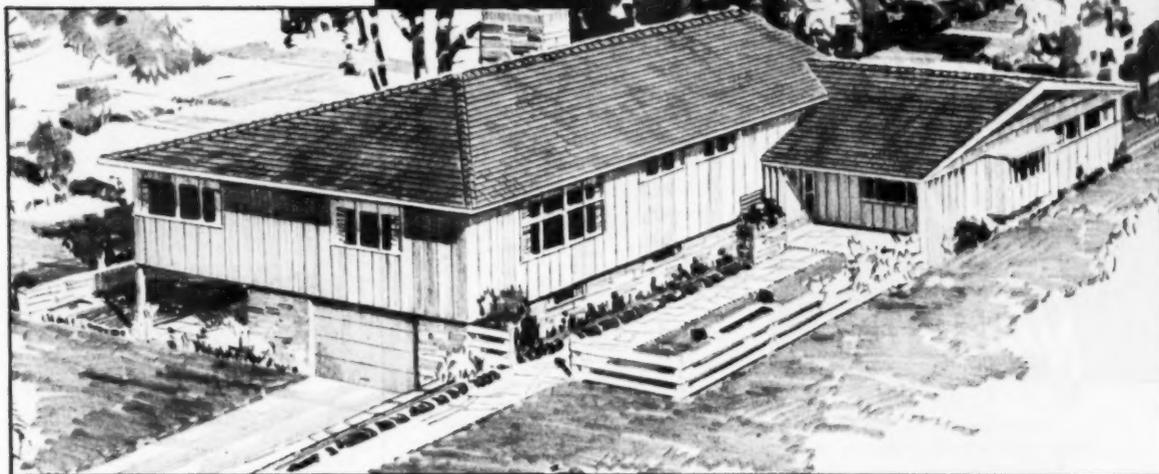
Send for complete information and our new, free, illustrated catalog.



calder
MANUFACTURING CO.
LANCASTER 12, PENNA.

Appearing in Oct. 10th

The Saturday Evening
POST



“Show-House,” the new model home advertising feature, selects a

Barrett Asphalt Shingle Roof!

On October 10th the second of a unique series of two-page ads devoted to new homes will call for the attention of The Saturday Evening Post's 10,000,000 readers. This editorial-style ad presents an unusual model home or “SHOW-HOUSE” designed by experts and packed full of ideas. Close-ups of all features including the Barrett Roof are illustrated in full color.

Barrett has the distinction of being the first roofing manufacturer to be represented. On the basis of beauty, practicability and cost, Show-House designers selected Barrett Dublecote* Multi-Shingles* in pastel blue for the roof of this modern home. Copy will describe the selling points of Barrett Shingles—their unusual range of colors—their good looks, economy, durability, long-lasting weather protection and fire-resistance.

Here is a low-cost opportunity for you to build sales. Keep in mind that a large percentage of the Post's

readers are homeowners, many of whom are in the market for a new roof. Get a few copies of the October 10th issue of the Post. Display the Show-House feature in your window and inside your store. Arrange a showing of Barrett Shingles around the ad. Use it as a sales argument.

We believe you will find Barrett's participation in Show-House a source of direct sales. This is in keeping with our policy that—building *your* business . . . is good business for Barrett.



BARRETT DIVISION

ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

205 W. Wacker Drive, Chicago 6, Ill.
36th St. & Grays Ferry Ave., Philadelphia 46, Pa.

*Reg. U. S. Pat. Off. 1327 Erie St., Birmingham 8, Ala.

*your
homes
sell
faster*



... when buyers notice they are built with MALT-A-MASTER wood window units with removable sash.

MALT-A-MASTER wood window units connote "quality." Here is a unit with removable sash, built-in weatherstrip and invisible balances. Since Malta mills them, you are sure of precision milling, quality woods and the most careful workmanship. The price is less than you would expect.

MALT-A-MASTER makes your houses stand out and keeps them moving.

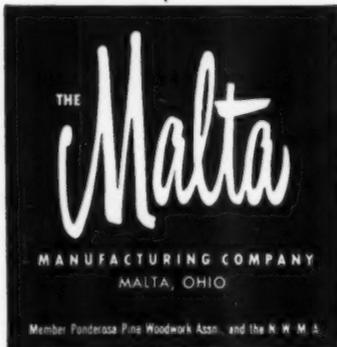
Malt-a-Master

makes your houses STAND OUT



*Supreme Quality
Since 1901*

Sash can be removed in a matter of seconds for easy window washing or painting.



cutting fireplace costs in half



In Atkinson's houses, the pipe insulation flues are self-supporting and rise from the top of prefabricated metal fireplaces about 11½ feet to the chimney. Chimneys are wood with a fireproof stucco lining

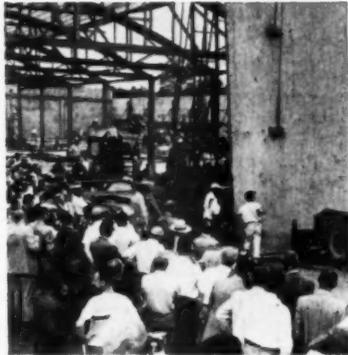
The W. P. "Bill" Atkinson Lumber and Manufacturing Company is making a better than 50 per cent reduction in the cost of building fireplaces in the company's new 1,500-home development in Midwest City, Oklahoma. By using prefabricated high-temperature pipe insulation instead of conventional materials for flues, the cost of the fireplaces has been cut from about \$600 each to less than \$300.

Tested for nine hours in a maximum wood flame without ill effects, the pipe insulation flue has been approved by the VA and FHA. It is called Kaylo, and is a hydrous calcium silicate material produced by the Kaylo Division of the Owens-Illinois Glass Company. Designed by O. J. Olsson, Atkinson designer, and Kaylo engineers, flue material costs about \$50 per installation.

Two layers of Kaylo, both 1½-inches thick, are used for the flue. The sections of material are bound together with wire and the joints sealed with fireproof cement. A rectangular piece of the material is used for the adaptor to make the transition from the 12½ by 14½-inch opening at the top of the fireplace to the 12-inch diameter of the first layer of Kaylo.

AMERICAN BUILDER

timber trusses, precast concrete walls speed warehouse erection



Architects and engineers viewing timber truss erection at GSA Virginia project

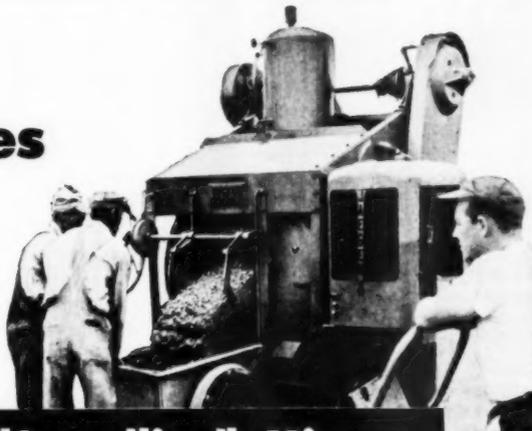
Douglas fir trusses and tilt-up concrete walls are major factors in the speed with which a warehouse covering 26 acres is being constructed in Franconia, Virginia.

More than 770 Arch-Teco bow-string timber roof trusses, each with a span of 71 feet, three inches, cover the million and one-quarter square feet of floor space in this building, said to be the largest engineered timber structure of its type in the nation. Precast concrete panels are 20x26 feet. Begun last December, the project is scheduled for completion in August.

Contractor is Barrett & Hilp, Inc., San Francisco, California. All timber trusses are fabricated by Timber Structures, Inc., Portland, Oregon, shipped to the job site where they are assembled with Teco wedge-fit ring connectors by a TSI foreman and crew of seven local laborers. Material courtesy of Timber Engineering Co.

Don't miss "Winter Building" in October. Renew your subscription now.

more
batches
per
day
with



Jaeger "Speedline" Mixers

Seconds saved at both ends of every mixing cycle add up to more batches per day for Jaeger owners. Famous "Skip Shaker" loader speeds the batch into the drum in 5 to 7 seconds. Batch discharge is just as fast because bigger bucket and flight blades carry more concrete to discharge spoon. Free from break-down over many years: machined steel drum tracks, Timken bearing carwheel-type drum rollers, heavy-duty automotive transmission. Sizes 6, 11 and 16S. Ask for Catalog M-10.



3 1/2 S Auto-Loader loads while a batch is mixing, then automatically shakes load into drum. Produces 12 to 15 more yards daily.

THE JAEGER MACHINE COMPANY

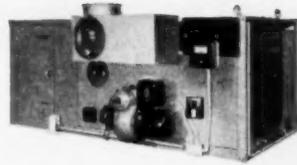
521 Dublin Ave.
Columbus 16, Ohio

Distributors in 153 Cities in the U. S. and Canada

PUMPS • COMPRESSORS • HOISTS • TOWERS • PAVING EQUIPMENT

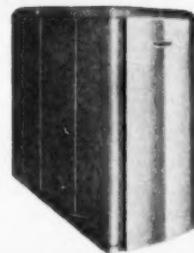
SEPTEMBER 1953

the



1. **SUSPENSION . . .** for horizontal installations. Btu output from 80,000 to 1,000,000.

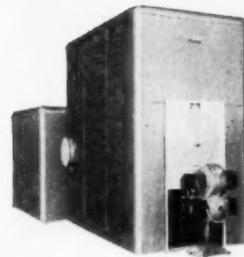
BIG



2. **POWAIRE . . .** for residential and commercial installations. Btu output from 152,000 to 320,000.

3

IN THE
WARM AIR HEATING FIELD!



3. **POWERATED . . .** for industrial needs. Btu output from 380,000 to 3,800,000.



JACKSON & CHURCH CO.

Saginaw, Michigan

271

conventional 10-year financing



This 792 square foot house sells for \$4,550, is covered by a 10-year conventional loan

That modern touch **RESOLITE**

Shade from the sun, but with bright daylight inside — that's why Resolite translucent structural panels are bringing the modern home closer to the outdoors. Resolite is better for skylighting because it filters out much of the heat, gives a soft, restful daylighted interior, as in this weather-tight, Resolite-roofed patio of a Florida residence.



Resolite is a rugged structural sheet of Fibreglas-reinforced resin plastic, flat or corrugated for added structural strength. The material is unaffected by weather extremes of heat, cold or moisture. It will not rust, oxidize, mildew or rot. It is simple to apply with screws or nails and with ordinary tools and skill; it is easily adapted to roof, wall or partition.

A wide variety of color and corrugation patterns lends Resolite easily to endless possibilities in interior or exterior decoration.



Beautifying the interior or exterior by either reflected or transmitted light, Resolite panels are ideal for decorative and utility partitions, with a selection of color for any motif. The effect of length and height is enhanced by utilizing the corrugation patterns.

For complete information, and name of nearest distributor, write Dept. A-9

RESOLITE Corporation
ZELIENOPLE, PA.

"Non existent," was Lyn Boyd, Pampa, Texas lumber dealer's answer to Title I financing. Boyd has turned to conventional sources for loans in moving his low-cost houses. Actually, the 10 year, 7 per cent loan saves buyers money over the 20-year, 5 per cent standard amortizations.

In reality the system operates very simply. For Boyd's lowest cost \$4,550, two-bedroom house the lender will issue a \$3,400 mortgage. The buyer pays \$550 down and the lumber dealer carries \$600 on a second mortgage arrangement.

The loans differ from standard second mortgage transactions as the lumber dealer's equity comes second to that of the lending institution. The mortgage firm, however, collects the lumber dealer's equity monthly for 40 months. A charge of 1 per cent is made for this.

At the end of 40 months, the monthly payment drops from \$65 to \$50. Monthly payments include a reserve for insurance and taxes.

The 7 per cent financing is looked upon favorably by banking circles and was used by the lumber dealer to encourage the lender to hold closing costs to \$90. Boyd pointed out that a mortgage of 10 years at 7 per cent interest would cost the buyer less than a 20-year, 5 per cent loan. For instance, \$3,400 at 7 per cent for 10 years is \$1,190 cost to the buyer while \$3,400 at 5 per cent for 20 years is \$1,700 cost to the buyer.

Other advantages beside the low closing costs are the non-penalty for closing the loan before the end of its amortized period, and the speed



Living room is 12x18 feet. Oak flooring is an extra; standard model has asphalt tile laid over slab floor. Note the gas-fired wall furnace

answers tight mortgage situation

with which the buyer can build up an equity in his investment.

These flat-top contemporaries were shown for the first time during National Home Week by Lynn Boyd, Pampa, Texas lumber dealer. The result: 10 sales. The designs are the outgrowth of the San Angelo plan that intrigued Boyd when it first gained national publicity. (See *American Builder*, Oct. 1952.)

Boyd produced three of these houses in his quest for low-cost units. Familiar with the economies that could be achieved with slab construction and flat-top roofs, he did some redesigning, and came up with this present two-bedroom unit containing 792 square feet and sell-



FLOOR PLAN

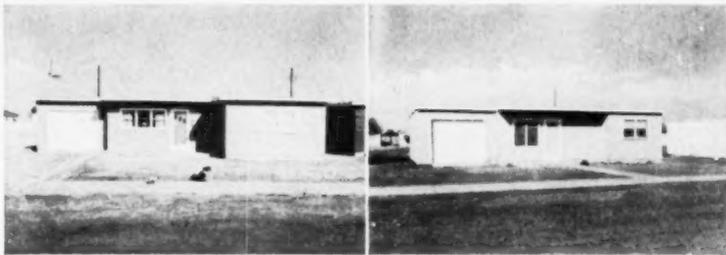
Floor plan is the lumber dealer's improvement of the San Angelo plan

ing for \$4,550. His design differs from the San Angelo plan in that he includes many items which the San Angelo house omitted. Ventilating windows in the living room, an outside entrance to the kitchen, a furnace, back-to-back plumbing, and weather stripping are a few.

A garage, driveway, hardwood flooring, when included, cost extra. Top price for a three-bedroom unit with garage, concrete drive, hardwood floors on a \$1,000 lot is \$7,000. (Continued on page 275)



Kitchen has low-cost plywood cabinets. Its 12x12-foot over-all area provides space for dining. Cabinets and appliances align along two walls



Three-bedroom unit with garage and flat work sells for \$7,500.

The two-bedroom house with a garage sells for \$5,100

L.A. BUILDER BOOSTS SALES WITH THERMADOR BILT-INS



Selling 4,000 houses has convinced builder Henry Cox that kitchens are a key-point in house sales. Mr. Cox (left) arranges with Thermador Sales Manager, Frank Ballman, to equip his new homes with Thermador Bilt-in Ranges.

Innovations in multiple house building—angular arrangement of rooms, elimination of most full height walls, and work-saving electric kitchens with Thermador—make Henry C. Cox a leading Southern California builder.

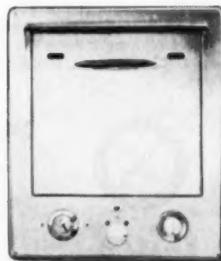
Kitchens receive his special attention as they are the work centers of most homes. Mr. Cox says that when women inspect a new house "kitchens are the first thing they look at!" Thermador—the original bilt-in range—permits unusual flexibility of arrangement: saves steps and bending over, allows additional storage space, and fits into any kitchen decor more beautifully.



Bilt-in Cooking Top—Stainless steel cooking tops are built into a peninsular counter, conveniently accessible to both the kitchen and dining areas. This arrangement also allows more counter-area work space.

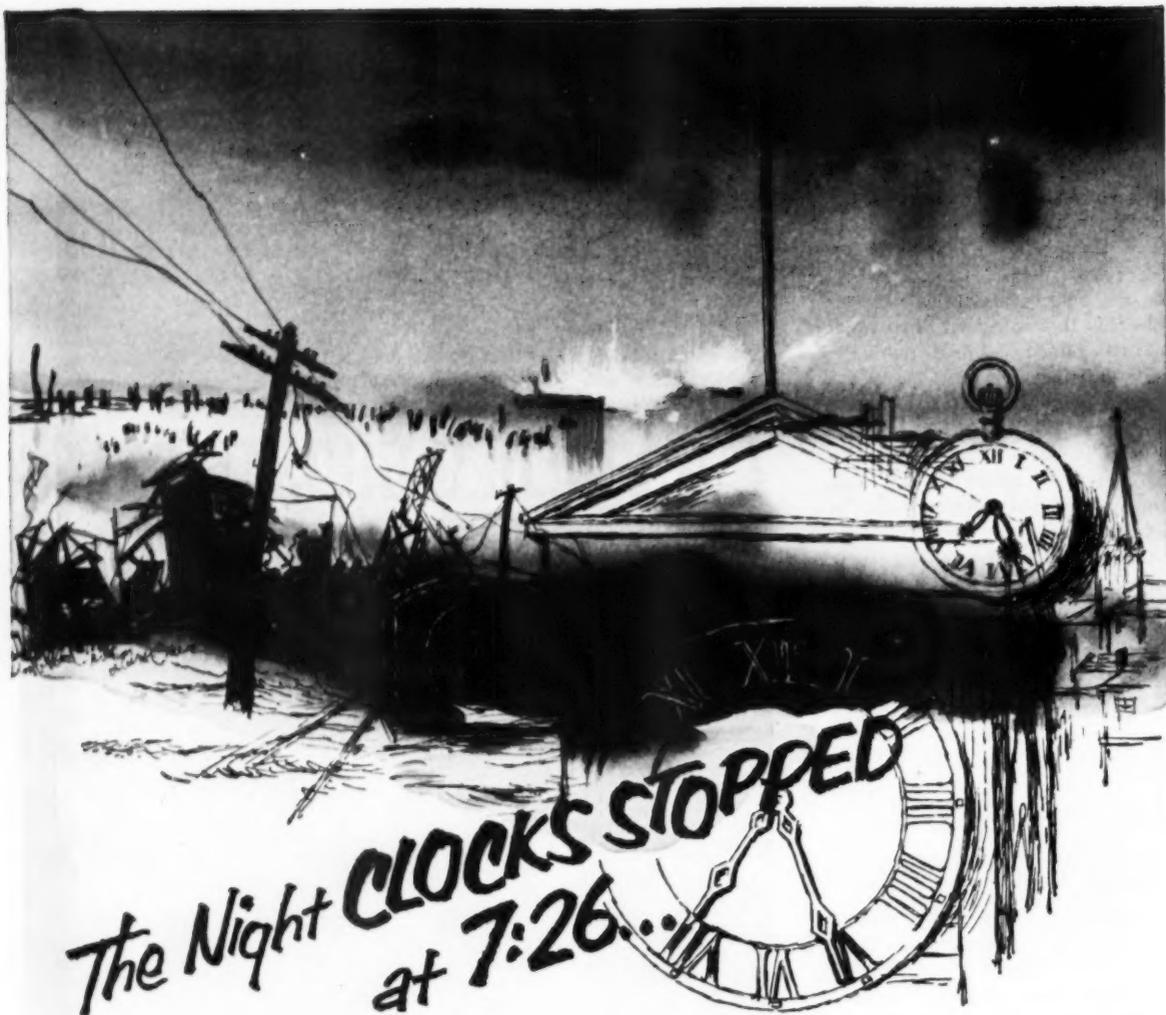
For literature write:

THERMADOR ELECTRICAL MANUFACTURING CO.



Bilt-in Oven—Stainless steel Thermador ovens are installed at work height to eliminate stooping or low-level lifting. Thermador Bilt-in Ovens are completely automatic and fully insulated for safety and economical use of power.

5119 District Boulevard
Los Angeles 22, California



Some 9,500 people were in South Amboy, N. J., that drizzly evening in 1950. At the waterfront, longshoremen were transferring the last of 12 freight cars of ammunition to lighters that would carry it to a waiting vessel in Raritan Bay.

But the City Hall clock never got to 7:27—and the freighter's deadly cargo never got loaded. Explosions shattered windows over a

radius of 12 miles; and hundreds of people looked at their arms and legs and saw that flying daggers of glass had stabbed them.

At dawn, 312 of the injured had been counted.

★ ★ ★

Such disasters have happened many times before in America. They could happen again. And if they do—and when they do—there must be blood plasma on hand to take care

of the injured. For blood saves lives!

But blood cannot be mined or manufactured. It must come from the veins of healthy men and women. Men and women who feel concern for a suffering neighbor. So give blood—now! Whether your blood goes for Civil Defense needs, to a combat area, or to a local hospital—this priceless, painless gift will some day save an American life!



**Give
Blood
Now**

**CALL YOUR
RED CROSS TODAY!**

National Blood Program

**Business Executives!
✓ Check These Questions!**

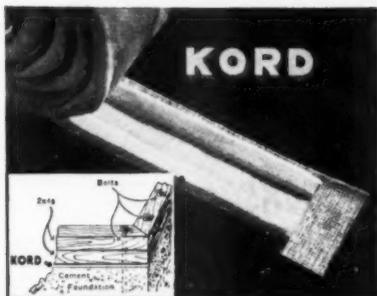
If you can answer "yes" to most of them, you—and your company—are doing a needed job for the National Blood Program.

- | | | | | | |
|--------------------------|---|--------------------------|---|--------------------------|--|
| <input type="checkbox"/> | Have you given your employees time off to make blood donations? | <input type="checkbox"/> | Have you set up a list of volunteers so that efficient plans can be made for scheduling donors? | <input type="checkbox"/> | Was this information given through Plant Bulletin or House Magazine? |
| <input type="checkbox"/> | Do you have a Blood Donor Honor Roll in your company? | <input type="checkbox"/> | Have you arranged to have a Bloodmobile make regular visits? | <input type="checkbox"/> | Has your company given any recognition to donors? |
| <input type="checkbox"/> | | <input type="checkbox"/> | Has your management endorsed the local Blood Donor Program? | <input type="checkbox"/> | Have you conducted a Donor Pledge Campaign in your company? |
| <input type="checkbox"/> | | <input type="checkbox"/> | Have you informed employees of your company's plan of co-operation? | | |

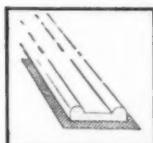
Remember, as long as a single pint of blood may mean the difference between life and death for any American . . . the need for blood is urgent!

THE MODERN SOLUTION TO AN OLD PROBLEM

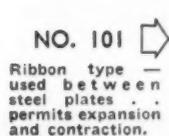
KORD Extruded Prefabricated Caulking Compound.



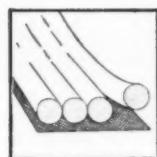
A modern technical development reducing wastes and labor costs.



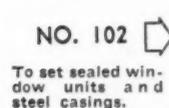
NO. 1
Channel type KORD... used as sketched on sill gaskets... between concrete and wood.



NO. 101
Ribbon type — used between steel plates... permits expansion and contraction.



NO. 5
Four strip KORD — for stone setting... weather-proofing joints. Also eight strip No. 501.



NO. 102
To set sealed window units and steel casings.

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ARCHITECTURAL FILE
or write for copy

See Sweet's File #1 or send for full information today.

STERLING PAINT & VARNISH CO.

184 Commercial St. Malden, Mass.

conventional financing

(Continued from page 273)

500. Costs over and above the base price of the house are:

Garage with concrete floor \$550
Oak Flooring \$350
Duplex Heater \$ 50
Concrete Driveway \$100

CONSTRUCTION

Ready-mixed concrete is poured into the forms which were set by Boyd's carpenters. A concrete finisher is paid hourly to finish slab.

Framing members are precut at the yard and hauled to the site. Ceiling rafters are 2x12's cut on a diagonal from 6⁷/₈ to 4⁷/₈ inches. The diagonal cut produces low rafters for the slightly pitched roof.

Carpenters lay the asphalt tile. Oak flooring, which can be had at additional cost, is laid on 1x4 screeds laid in mastic.

Carpenter crews install the wall-board. Painters tape the joints.

Boyd's carpenters do most of the work. Only the plumbing and wiring jobs are subcontracted. Another economy that the lumber dealer can pass on to the buyer results from precutting a house in the yard.

COST BREAKDOWN

Kind of Siding	Asbestos
Deca Wall	\$ 20.01
Bath Accessories	14.70
Heating	138.50
Frame Lumber	513.74
Siding	116.60
Nails	23.16
Hardware	53.45
Reinforcing	42.96
Roofing	85.60
Sheetrock	156.16
Insulation	83.50
Doors—Complete	184.15
Windows—Complete	227.75
Casing and Base	52.30
Paint and Wallpaper	77.46
Asphalt Tile or Oak Flooring	83.10
Molding	10.04
	1,883.18

Carpenter Labor	761.41
Paint Labor	225.00
Plumbing	625.00
Dray	22.50
Concrete Slab	145.24
Sidewalks	100.90
Wiring	100.00
Kitchen Cabinet	99.95
Miscellaneous Items	9.38
Window Shades	10.17
Weatherstrip	9.00
	2,108.55

Lot Cost	225.00
Lot Profit	275.00
Total	4,491.73
Sales Price	4,550.00
Gain on Contract	58.27
Estimated Profit on Material	532.87
Lot Profit	275.00
Total Profit	\$ 866.14



Builders have proved that kitchens equipped with genuine Trade-Wind Clipper Ventilators are far easier to sell. There's a double reason for this. The quality construction and honest performance are features you instinctively "talk up." That makes the sales job easier. Furthermore, the use of a Trade-Wind implies that fine quality items have been selected elsewhere for the house.

Next time when you specify a kitchen ventilator remember this—Trade-Wind is built only to the highest quality standard—never down to a price.

DEPENDABLE AS THE TRADE WINDS

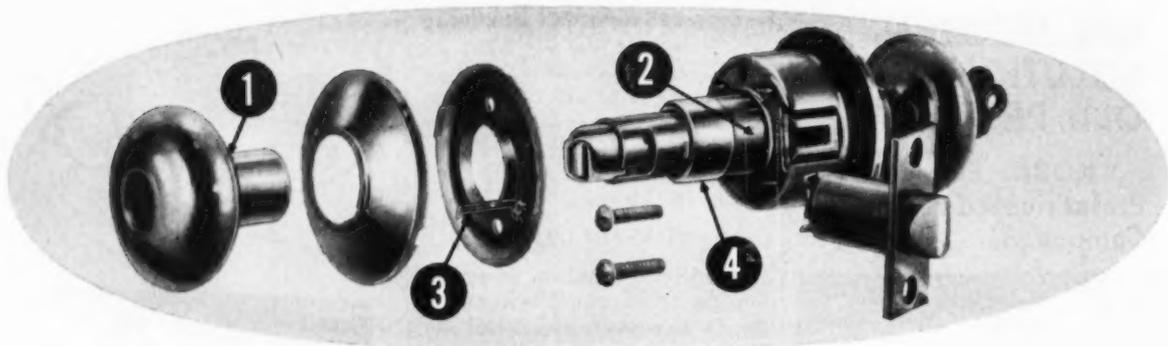


No. 2501 FOR AVERAGE ROOMS.
This popular ceiling model with 2 centrifugal blowers develops 425 cu. ft. per min.—ample power to keep kitchens, laundries and game rooms up to 2000 cu. ft. clean, cool and free from odors. 2-speed control switch.

WRITE FOR COMPLETE INFORMATION

Trade-Wind Motorfans, Inc.
5705 So. Main St. Los Angeles 37, Calif.
Please send literature on Trade-Wind Ventilators.

Name _____
Address _____
City _____ State _____



Inside story on the "extras" in Arrow's new cylindrical lockset line



LOOK FOR THIS Cherokee brown package on your dealer's shelves.

THESE ARE THE FEATURES YOU WANT IN LOCKSETS

- 1. Arrow's solid brass exteriors** are coated with durable weather-resistant lacquer that preserves their handsome appearance.
- 2. Heavy gauge metal** is used for internal working parts of new arrow locksets.
- 3. New rose attachment** eliminates unsightly rose screws, holds rose firmly under spring tension.
- 4. Arrow's 5-pin tumbler construction** is widely recognized as a locking unit that

gives users maximum security.

These outstanding features plus simple modern styling and easy installation, without special tools or gadgets, make these the right locksets for you.

Easily reversible, 10% heavier than competitive lines, arrow's moderate prices will surprise you. Arrow has been able to minimize manufacturing costs by concentrating on a complete line of cylindrical locks and ignoring costly slow-moving specialties.

ASK YOUR DEALER TO SHOW YOU THE FACTS AND FIGURES ON THIS LINE

ARROW LOCK COMPANY

395 BROADWAY, NEW YORK 13, N. Y.

stop sign halts house hunters

STOP! Do you realize what you've seen?

This notice confronts all visitors at Ho-Ho-Kus Park Estates in Ho-Ho-Kus, New Jersey, as they leave a model home. George Washburn, sales manager for George H. Beckmann, Inc., devised this reminder, reasoning that while today's house hunters are choosy and shop around, few carry notebooks and can remember all they have seen.

His "bulletin" begins with a list: "full three-coat plaster, guaranteed dry cellar, full insulation, ceramic tile bath . . ." and 16 other items. In case the visitor may still be uncertain whether he can afford all this, the notice adds a breakdown of down payments and monthly installments.

"If you are a veteran," it reads, "with \$1,200 cash and making \$95 a week; with \$2,000 cash and mak-

ing \$90; with \$4,000 cash and making \$80; with \$6,000 cash and making \$70 . . . you can't find a better buy in Bergen County."

Save Time & Money with **LEVELALL**

THE NEW IMPROVED WATER LEVEL FOR SIMPLEST ONE MAN OPERATION ANYTHING YOU NEED LEVEL LEVELALL DOES IT.

A sturdy instrument that can be left on the job for any workman to use. Cannot be put out of adjustment and even with the most casual handling its principle is so simple anyone can level points quickly and accurately. For footings, forms, better boards, sills, lintels, floors, ceilings, roads, driveways, lawns, piping, lawn contouring and all general construction work normally needing an expensive instrument.

1 qt. extra Level-Flu Liquid shipped with Deluxe Model only.

Complete with instructions, high quality vinyl polychloride tubing filled with Level-Flu Liquid, mounting brackets, and metal case.

See your Hardware or Building Supply Dealer

FASTER THAN \$100 ENGINEER INSTRUMENTS

REGULAR 50 FEET	DELUXE 75 FEET
\$8.95	\$12.95

DEALER INQUIRIES INVITED

LEVELALL, 83K Webster St., Rockland, Mass.

Mail me 75 Deluxe Levelall @ \$12.95
50 Levelall Instruments @ \$8.95
I will guarantee satisfaction or money back upon return of Levelall within 30 days.

Name _____
Address _____
City _____ Zone _____ State _____

Send C.O.D. I will pay postman full purchase price plus delivery charge on arrival.
 Full purchase price is enclosed. Send postpaid.
(Package prepaid on orders in U.S.A. only! Prices higher in Canada. Order from Levelall Reg'd., 1615 Deane St., Montreal, Que.)

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Blocks, Continuous or Regular Strip, and Slats

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the Original
WHIZ SAW



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NO. 2
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**AMERICA'S FIRST AND FINEST
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WHIZ-SAW, #2, one of the most versatile cutting tools ever invented, cuts with amazing speed . . . wood, formica, micarta, bone, plastic, fibre, asbestos board, pressed wood, hard rubber, etc., up to 2 inch thicknesses. Ideal for all craftsmen. The original

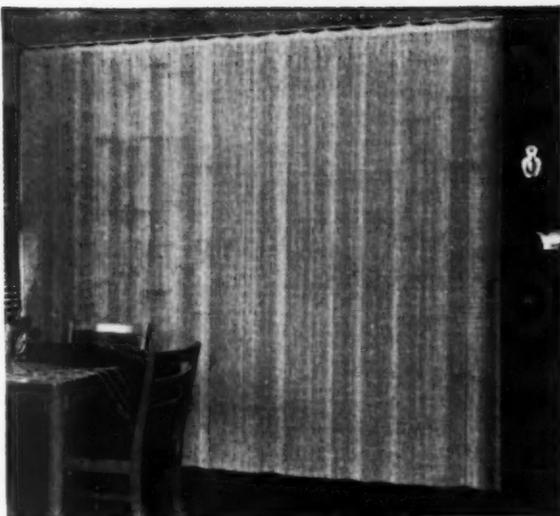
WHIZ-SAW Model #1 cuts up to 1 inch thickness. (\$55.00) **WHIRL-SAW, Model #3**, 4½ inch circular blade, cuts up to 1¾ inch thickness. (\$49.00)

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THE *Forsberg* MFG. CO., BRIDGEPORT, CONN.

Makers of the Famous Whale & Viking Tools

SEPTEMBER 1953



for Beauty and Service -
with Economy -
**BAMBOOFOLD DOORS
and ROOM DIVIDERS**

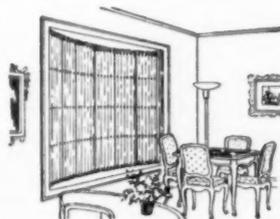
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When used in new construction, you save the cost of furring, trim, roughing and extra hardware.



We invite you to let us show you samples, to quote prices, to give you the names of distinguished, satisfied users. Also to tell you about many attractive woven woods imported by us from other parts of the world. Kindly address your inquiry to Dept. 14.

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CORPORATION**

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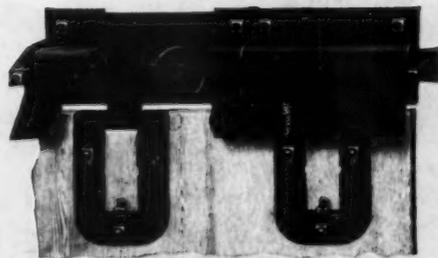
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