

April

1961

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American Builder

TWO DOLLARS


Buyers Guide

Issue

Including

Light Construction's
Only Directory

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At least twice a day,

Berry's anti-sway feature

*protects your reputation
as a quality builder*

Along with features like climate-proof weather seal • adjustable track hangers • diamond grid construction • safety lock tracks • rugged lifting arm • Paintlok-steel that won't swell, shrink, check, peel.

And only the Berry steel garage door offers you all these features to maintain the name you've established. At least twice a day, when the customer opens the door and when he closes it, your high standards are revealed. The anti-sway feature, for instance, eliminates binding at the jambs. It assures that the door will open—at a nudge, every time, in all kinds of weather. And Berry's quality cuts down those costly and annoying callbacks. What's more, the world's largest manufacturer of residential garage doors makes the price right and installation easy. Choose from one-piece and sectional models. Window lites optional. See your distributor or write: Berry Door Corp., 2400 E. Lincoln, Birmingham, Michigan. In Canada: Berry Door Co., Limited Wingham, Ontario.



*... full five-year
guarantee*

You Save TWICE with these NuTone Products for...

Apartments and Remodeling

* Low Initial Cost * Low Installation Cost



NUTONE NON-DUCT RANGE HOOD-FAN



If your home, or apartment has no provision for ducted kitchen ventilation, this is for you . . . It's NuTone's Non-Ducted Hood-Fan . . . the sensational #3400 Series . . . a new, self-contained ventilating system that attaches easily under the range cabinet or to the wall in only a matter of minutes! 30"-36"-42" sizes in Antique Copper, Stainless Steel, Silver or Copper Anodized, White or Copper Enamel. Priced as low as \$84.95 List.

NUTONE NON-ELECTRIC DOOR CHIME & VIEWER



NEW Non-Electric Door Chime with Optical Lens Viewer. Wide angle lens offers clear view of entire doorway area. Complete privacy for viewer. Gold Anodized window nameplate. List Price \$7.95. Chime also available without viewer \$4.95 List.



Model MC-309

NUTONE WALL HEATER & FAN



Heat PLUS Ventilation combined in one fixture. Saves installation cost, avoids double cutouts and double wiring. The Heater and Fan operate separately or at SAME TIME. Connects to standard house wire. \$56.95 list . . . Other Heaters \$18.95 and up.



Model
9300



New NuTone Catalogs

WRITE TO NUTONE, INC.
Dept. A, Cincinnati 27, Ohio

— See Next Page —>

A Cheerful Earful
FOR YOUR HOMES

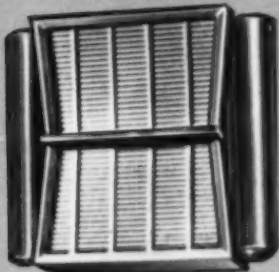
NuTone Door Chimes

NEW Styling
Trouble-Free
Performance



L-31 "Pacesetter"
Chord Tone Chime
\$13.95 List

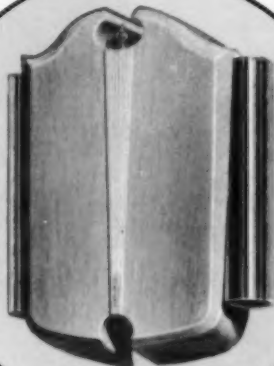
L-16 "Futura"
\$7.95 List



2 notes

A Musical Welcome

Any home is more inviting with a friendly musical "hello" at its doorway! Here's elegant charm for your hallways . . . living rooms or kitchens. Attractive to the eye . . . soothing to the ear.



2 notes

L-37 "Built-In" Door Chime and Clock
Simplified installation. No clock outlet needed. \$22.50 List
Silver, Gold or Copper Anodized.

Chord Tones



Fits
Flush
with
Wall

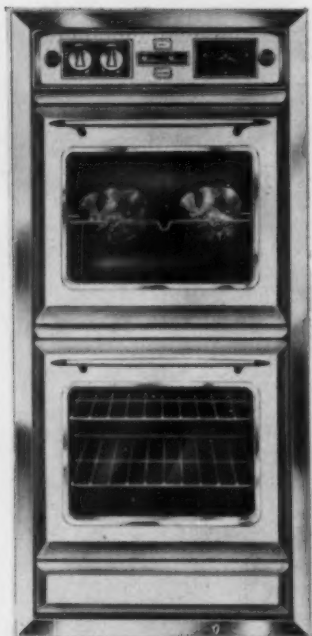
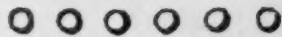
Chime
Housing
Recessed

SEE OTHER SIDE

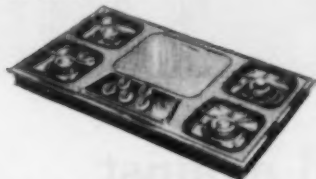
L-22 "Jewel." Traditional design
in Walnut or Lime Oak. \$9.95 List

25 Chime Models . . . PLUS a complete line of Pushbuttons and Transformers

Modern Maid Means Money



MODERN MAID double oven gas built-in with the high speed "Infra Ray" ceramic burner gives your homes an extra sales appeal that is not available in any other built-in oven.



"Super Thin" range tops allow an extra three feet of drawer space per kitchen.

2.

... MEANS MORE MONEY TO YOU BECAUSE MODERN MAID HELPS SELL YOUR HOMES FASTER. There is no need to switch from one manufacturer to another just to find the proper built-in for your homes because MODERN MAID offers a complete line of built-ins. Here are just three examples:



The New "Town House 24"
ONE PIECE BUILT-IN

3.

SAVE approximately \$117.50

per kitchen with a new one piece built-in. The "Town House 24" slides right in the space normally occupied by a 24" base cabinet. Your choice of gas or electric, brushed chrome or colors.

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**TENNESSEE
STOVE WORKS**
CHATTANOOGA 1, TENNESSEE

ONE OF THE LEADING STOVE MANUFACTURERS SINCE 1904

PLEASE SEND PRICES AND FOLDER ON THE 1961 LINE OF MODERN MAID GAS AND ELECTRIC BUILT-INS AND AUTOMATIC DISHWASHERS IN MATCHING COLORS.

NAME _____

ADDRESS _____

CITY _____ STATE _____

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New homes can now be protected against termites for 10 years or more with aldrin

—and there's no significant increase in building costs.

ALDRIN has proved to be one of the most effective termite controls in use today.

Aldrin schedules easily into construction procedures and allows many units to be treated in each working day.

Aldrin is listed in the minimum property standards of F.H.A. for termite control on all types of new construction—slab, basement and crawl

space. The U. S. Forest Service, the Armed Forces and many other Federal, State and local agencies responsible for building construction have listed aldrin for use as a soil poison.

Aldrin is long lasting—proved 100% effective for more than 10 years. Because of this, you can use and specify aldrin chemical termite barriers with complete confidence.

Shell Chemical Company, Agricultural Chemicals Division, 110 West 51st Street, New York 20, N. Y.

Shell
Chemical 
Company
Agricultural Chemicals Division

OPPORTUNITY

Are we building too many houses?

It would be a great mistake to let the charge that this country is overbuilt in housing go unchallenged.

There is no serious overbuilding: in fact, the need for the right kind of house in the right place is the greatest in our history.

What has happened is that the character of the market has changed, and is continuing to change. Some builders failed to fully assess what had happened, and overbuilt in certain price ranges and in a few areas. The "inventory" of unsold houses, however, is very small. Builders are now moving rapidly to restudy local markets, bring out new designs, make needed changes.

With Congress now considering a monumental series of new housing bills, it is important that the charge of overbuilding should not be allowed to gain momentum, or used as an excuse to stop housing action.

The basic U. S. need for 1.5 to 2 million houses a year in the sixties has been established beyond question. Two Presidential committees have confirmed it, as well as numerous private studies and surveys. AMERICAN BUILDER fixed this goal in its "Set Your Sights" editorial campaign in 1957, and has re-affirmed it many times since. The actual need is far greater than statistics show; it looks like this:

Aim for higher standard of living. The dynamic American economy does not subscribe to a philosophy of housing need based on "just keeping people out of the rain." There's an enormous unfilled demand from people who want to upgrade their living.

Explore small town markets. The smaller towns and nearby rural areas have not had financing and marketing help comparable to other areas. Steps are under way to expand this market. Smart builders are exploring the potential, which is great.

Try a lower price level. An enormous field for sustained building volume lies in lower cost homes. Builders are experimenting with new construction methods, and new financing approaches to expand this market. New long term financing incentives will stimulate such work.

Seek specialized markets. We need greater emphasis on the elderly or retirement house market. More than 500,000 persons a year enter this category. There are now 16.6 million Americans 65 or older. They can be sold through special attention to their requirements: single family houses easy to live in, group housing, or low cost projects sponsored by churches, fraternal groups.

City rebuilding and renewal. This is a field where both private and public effort will skyrocket in the next few years. It has been described as a 50 billion dollar market. Town houses, row housing and new types of group housing will be aided by new financing and zoning concepts. Housing for families displaced by road building, slum clearance and rebuilding will be important.

New approach to remodeling. To keep our old communities from deteriorating, new emphasis will be placed on remodeling and property improvement. Plans for new FHA and private financing on a long term, low-down payment basis are under way. These would permit adding rooms or major additions at low interest cost.

Add to the above the uncountable jobs needed to replace 10 million sub-standard housing units revealed by the 1960 Census and you get a picture of a housing market far greater than the 1,250,000 built last year. It's a picture that refutes any charge of overbuilding, and in fact, cries out for new efforts to expand construction.

Joseph B. Mason, Editor

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NEW Firestone
TRANSPORT-100
BOOSTS TRUCK
TIRE MILEAGE 50%
...AND MORE



NOW... on your trucks... get an extra tire mile for every two you run!

109 million test miles prove the Firestone all-wheel position Transport-100* delivers 50% and more original tread mileage and more all-weather traction than any other regular original equipment Firestone tire. Even when half-worn it gives *faster starts* and *quicker stops* than most truck tires when new. Why? ■ A new tread design.

■ Torque-toughened Firestone Rubber-X; Shock-Fortified cord. ■ A flatter crown to equalize tread print pressure. ■ A broad center rib for better load distribution. ■ "Stone guards" to keep tread pebble-free. See the new Firestone Transport-100 at your nearby Firestone Dealer or Store! In Nylon or Tyrex® rayon cord, tubeless or tubed.

*Firestone T. M.

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Now! Best Skilsaw models in 36 years!

with new "Burnout Protection" motors, backed by full year FREE service policy!

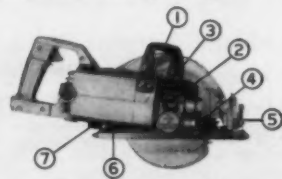
Take it from us—you simply can't afford *not* to use these newest versions of world famous Skil worm-drive saws, they're that much better!

12 major improvements. To start with, we took the finest Skil power saws ever made (the 6½" Model 367, 7¼" Model 77 and 8¼" Model 825) and gave them new B-P motors that give "Burnout Protection" even during frequent, excessive overloads. Next, we made oil level control and oil pressure relief automatic. Then we added a new airflow

hood for better cooling, and the convenience of an easier-to-read bevel gauge and a telescoping blade guard that can't bind even on trickiest miter cuts.

The list of improvements goes on and on to make these, unquestionably, the finest saws ever to carry the name "Skilsaw" . . . and that's saying a lot!

Ask your Skil distributor for more information, today. Look under "Tools-Electric" in the Yellow Pages. Or write: Skil Corporation, Dept. 106D, 5033 Elston Avenue, Chicago 30, Illinois.



(1) New plastic-covered top handle for cooler handling. (2) Automatic oil level control. (3) New air flow hood. (4) Push-button blade lock. (5) Easy-to-read bevel gauge. (6) Stronger steel foot. (7) New sawdust ejector system.



...and SKILSAW POWER TOOLS

WHAT'S NEW *and what to do about it*

Congress moves to enact Kennedy housing legislation

President Kennedy's special message to Congress on housing covered such a broad front as to effect the business of every builder in the country. Much of it involved long range legislation that will take years to achieve. But on the whole it was accepted by builders as a strong attempt to raise the level of building activity. Indications are that most of his requests will be enacted into law. The 40-year, no down payment loans for FHA attracted major comment. Financing men, as could be expected, viewed with alarm.

Builders "cautious but hopeful": changing their home designs

Views of 50 leading builders polled at the recent Builders' Intentions Conference at the Housing Center in Washington showed that only 7% expect a decline in business in 1961 from 1960. Half expected no change, and 44% a better year. Significantly, every builder polled said he is making "major design changes" inside and out. More than half said they were moving into new market areas. And the percent of those specializing in low cost houses moved up from 18 to 28%.

Now might be the time to follow the leaders—who, by the way, are predicting a 30% increase for themselves. Take a new look at your market and your product. If they don't match, change one or the other—fast.

Slow market sends builders back to school

The combination of a slow market and changing conditions is causing record numbers of builders to go back to school. The trend was first evident at the NAHB convention in Chicago where every clinic, meeting and educational session was jammed. Since then builder training courses of all types have been heavily attended. NAHB is now conducting a series of sales courses in 25 cities, the first of which have been sellouts. They are sponsored by Owens-Corning Fiberglas Corp., conducted by experts: Stan Edge, Jim Mills and Bill Molster.

Its a good year to brush up. For information on Sales Courses, write William Molster, NAHB, 1625 L Street, N.W., Washington, D. C.

Save the good FHA men before it's too late

The FHA is starting to replace its local directors. The Chicago chief was one of the first to go—and most big cities stand to lose their directors to the spoils system. Not everyone is happy over the prospect. Says one prominent Southwesterner: "We're trying to keep our man in Houston, Bill Painter. He's a real workhorse." A common cry: "I wish something could be done to keep the technical men in and the politicians out."

If you've got a good man locally, get to work now. Things to do—Write FHA's new head, Neal Hardy; Wire your Congressman, endorse your man before it's too late.

The changing market: average FHA house priced at \$14,607

FHA's just released figures on the 1960 home market show that valuations, taxes, mortgage amounts and buyers incomes all rose sharply. The average FHA home was appraised at \$14,607. Table shows some of the significant changes since 1950.

	1950	1961
Mortgagor's income	\$4,213	\$ 7,168
FHA property valuation ..	8,594	14,607
Market price of site	1,035	2,470
FHA mortgage principal ..	7,307	13,569
Floor area (square feet) ..	894	1,091
Number of rooms	4.6	5.5

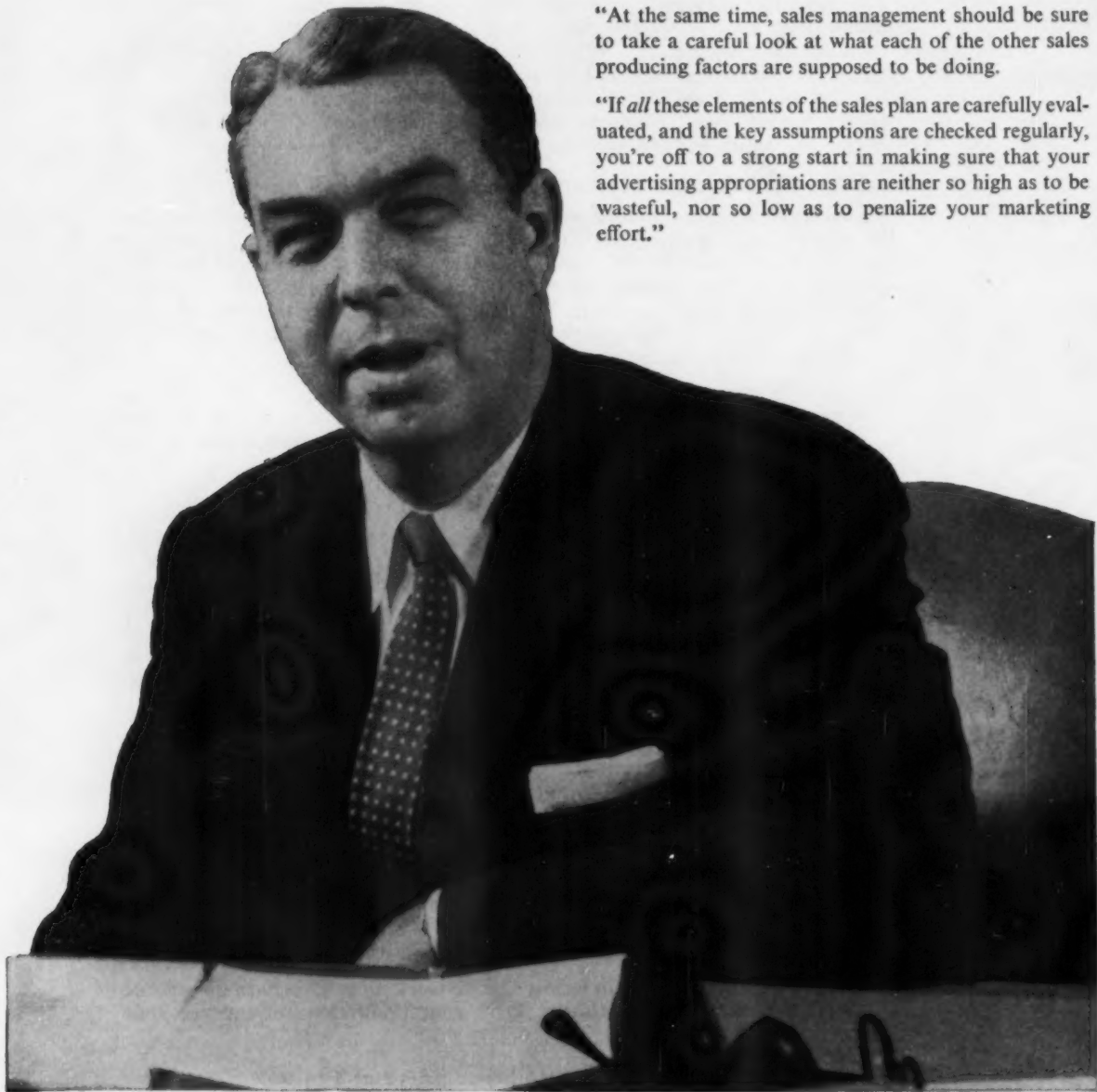
"How much is enough for advertising?"

JOHN R. SARGENT, partner in the nationally-known management consultant firm of Cresap, McCormick and Paget, points the way toward solution of one of top management's knottiest problems.

"Good sales management generally knows the crucial sales problems faced by each one of its products. Through good advertising advice plus experience, trial and error, and some judicious advertising testing, sales management also can come to have a good understanding of what advertising can and cannot do.

"At the same time, sales management should be sure to take a careful look at what each of the other sales producing factors are supposed to be doing.

"If *all* these elements of the sales plan are carefully evaluated, and the key assumptions are checked regularly, you're off to a strong start in making sure that your advertising appropriations are neither so high as to be wasteful, nor so low as to penalize your marketing effort."



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WHAT'S NEW *and what to do about it*

Shell Houses in the spotlight: sales (and stocks) soar

Sales of shell houses have set new records, and stocks of companies in the business have soared. Latest idea is the sale of these houses in various stages of completion: the buyer can select any phase of completion from a mere shell to an almost completed house.

Most spectacular entrant is Certain-teed Products Corporation, with its IEH Homes sold through authorized builders or lumber dealers. Cooperating builders have a choice of house plans, material lists and other advantages including financing and merchandising.

Reaction of builders to the Certain-teed program has been mixed. Some view this as competition. One prominent builder told American Builder, "I have switched my roofing and siding orders to another company." Others say that IEH is opening a big, new, untouched market they wouldn't get anyway. Most significant: a good many builders are getting into their own versions of the shell house business.

It's a market worth looking into. For a list of Shell House manufacturers, write AMERICAN BUILDER.

Why builders go broke: lack of liquidity

The recession caught a good many builders with too high an inventory, too much land or too little capital. Result: the number of bankruptcies rose sharply last year and is still continuing. Average builder "turnover" is normally about 12%: that's the number that leave the business for one reason or another each year. It's estimated the figure may rise to 20% this year. The casualties have been all up and down the line from very large to very small firms. The reasons come down mostly to one word "liquidity." When sales slowed down, these builders found for the first time that they had not been making as much money as they thought. Their estimating and record keeping was faulty. The limited capital they had was "locked in." Many found that trade-ins instead of a boon were a terrible liability.

Turnover has always been high in the building industry because every year brings in a new crop of untrained, inexperienced firms who often have to learn the hard way. Best way to avoid trouble: strengthen your estimating, accounting, cost control and cost record systems.

"Sweat equity"—a boon to sales in lower-price range

An Ohio builder sold 175 houses in two weeks when he moved into a program allowing the buyers to finish up the houses by their own labor. Most of the downpayment is thus earned by the buyer—it's called "sweat equity."

The idea isn't new, but it has been making great gains throughout the country and builders have found it the best way to tap the very low-priced field. Usually the house as sold leaves the painting to the buyer. Sometimes he also installs interior doors and trim. He also does all his own driveways and walks.

Look into "sweat equity" procedures, check the financing with a smart mortgage broker who can advise on how to handle paper work.

Prefab stocks advance—emphasis on financing and service

Stocks of several of the largest prefab manufacturers—including Inland and National—have advanced sharply on the market. But sales have not been enough to justify such action. Spokesmen for the industry say optimism is built on one concept "all inclusive service." By this they mean that prefabbers are increasingly expanding the "house package" they offer to builders with such aids as financing, land purchasing, cost controls, merchandising, model home displays and sales training. Most important of all is the financing. Another factor in the stock activity may be the entrance of prefab firms into the shell house market.

If you're interested in prefab services, write one of the 69 firms listed in AMERICAN BUILDER'S Directory of Home Manufacturers—page 78 of this issue.

New from Hotpoint

SPACE SAVING APPLIANCES



CK55-B

NEW COMPACT REFRIGERATOR-FREEZER

- Big Inside, Trim Outside—only 28" wide, yet has big-family capacity.
- True Two-Door Combination—with separate 89 lb. zero-degree freezer.
- Space-Saver Hinges—no side clearance needed for door.
- Roomy No-Frost Refrigerator—has real porcelain crisper.
- Handy Glide-Out Shelves.

BIG
CAPACITY

DELUXE
FEATURES

EASY
INSTALLATION

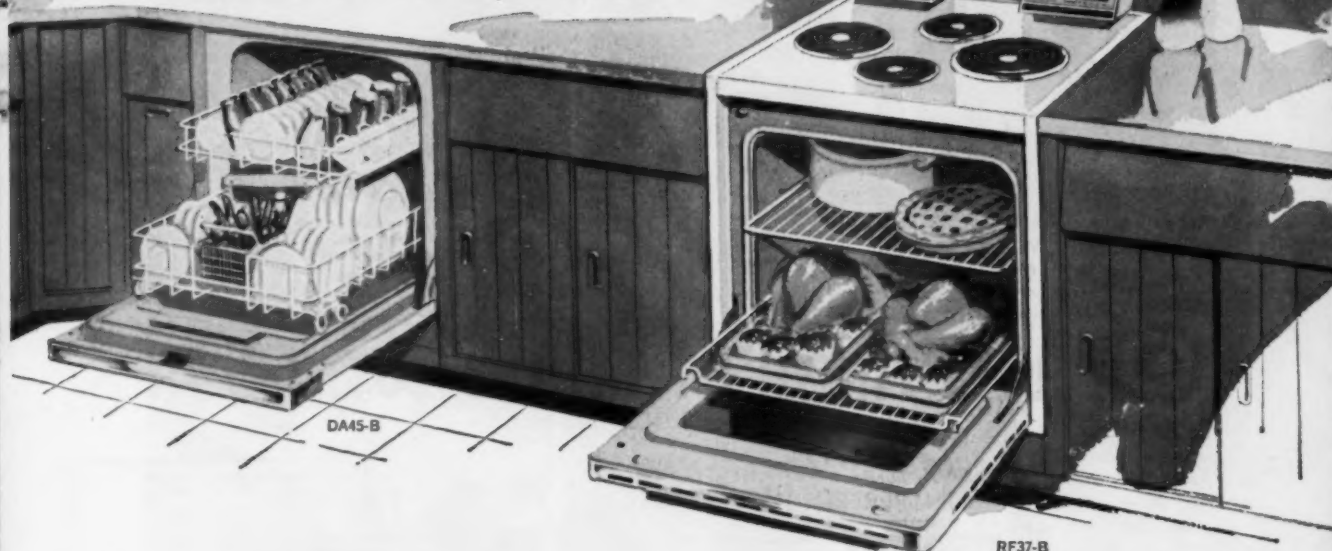
In a wide variety of models and prices

ELECTRIC RANGES • REFRIGERATORS
AUTOMATIC WASHERS • CLOTHES
DRYERS • CUSTOMLINE® • DISHWASH-
ERS • DISPOSALL® • WATER HEATERS
FOOD FREEZERS • AIR CONDITIONERS
ELECTRIC BASEBOARD HEATING

Hot

NEW AUTOMATIC DISHWASHER

- Exclusive Dual Jet-Spray Action—separate washing arm for each rack, for more thorough cleaning.
- Easy Installation—plumbing and electrical connections can be made from front.
- Huge Roll-R-Racks—roll out for easy loading, hold service for 12.
- Two complete washes, each with fresh detergent.
- Spot-Less Quadruple Rinse—super wetting agent released automatically in last rinse for spot-free results.



Today every building inch counts more than ever before! And Hotpoint takes fewer inches to give your kitchens that luxury look at low cost. For example, the Hotpoint Town and Country Range combines oven and surface section in one low-cost compact unit just 30" wide. The new Hotpoint Compact Refrigerator-Freezer is a true 2-door combination, but it's only 28" wide.

These are not stripped-down economy models. They're full capacity models loaded with deluxe features you can demonstrate and sell... yet still keep your selling price low! Contact your Hotpoint distributor and see the full line. You'll see why Hotpoint appliances are built for builders—like you.

NEW TOWN AND COUNTRY RANGE

- Low Installation Cost—slides in like a drawer, needs just one electrical connection.
- Twin Control Towers—easy to see and reach, yet away from "little fingers" and spatters.
- Automatic Oven Timer—turns oven on and off with pre-set clock control.
- "Super 2600" Speed Unit—heats so swiftly it boils a can of soup in 65 seconds.
- Removable Window Door—for easy oven cleaning.

point

A Division of General Electric Company, Chicago 44, Illinois



Ready Hung DOORS®

PAT. NO. 2489029

SIMPLY SLIP THE HALVES TOGETHER IN THE OPENING AND NAIL IT TO THE WALL IT'S DONE IN 20 MINUTES!

REDUCES FINISH CARPENTRY COST 65%!

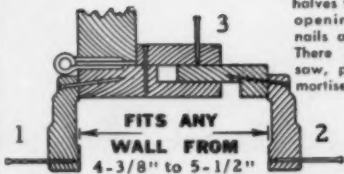
CRATED* FOR DELIVERY IN PERFECT CONDITION



Tension in the steel band exerts equalized pressure (indicated by the arrows) at the corners to draw the frame in tight contact with the rigid door. Frame joints and mitres are therefore rigidly held square and tight by the door itself.

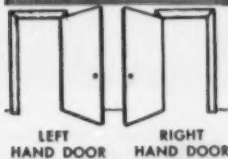
Spacer blocks between the door and frame serve a dual purpose: (1) They block the frame around the door during shipment, and, (2) Are used to maintain proper door clearances while the door is being installed. Faces are protected by cardboard when shipped by common carrier.

* PAT. NO. 2489029



Simply slip the halves together in the opening and drive nails at 1, 2 and 3! There is nothing to saw, plane, bore or mortise!

- Fasteners on mitre joints in the trim keep mitres tight indefinitely.
- Doors conform to the Commercial Standard for the style used. Units are furnished left and right with 1 1/2" inside doors in all standard sizes.
- Butts or hinges are 3 1/2 x 3 1/2, full mortise type. READY HUNG DOOR units are completely assembled with all hardware installed except door knobs.
- The READY HUNG DOOR manufacturer in your territory carries in stock standard units with the trim pattern specie and hardware popular in your area.
- Looks identical to conventional doors when installed.



WHEN ORDERING specify the following: (Write as shown in sample order below)

Quan. Hand* Size Door Style Specie & Grade Trim Pattern Finish & Style** of Lock
2 RH 2-0x6-8 RHD Flush Birch "A" #XXX Trim Brass Pass. Lock

*When the door opens TO YOU and the KNOB is on the RIGHT hand side, it's a right hand door.

**Locks are furnished in Passage, Bath, Closet and Bedroom Styles.

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National Woodworks, Inc.
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A. W. Hastings & Co., Inc.
Somerville, Mass.
BUFFALO, N. Y.
Ingersoll Door Co.
BUFFALO, N. Y.
The Whitmer-Jackson Co.
CEDAR RAPIDS, IOWA
Rock Island Millwork Co.
Wholesale Division
CHARLOTTE, N. C.
Miller Millwork Corp.

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CINCINNATI, OHIO
Acme Sash & Door Co.
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Dayton-Akron Sash & Door Co.
DECATUR, ILL.
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READY HUNG DOOR CORP., FOOT WORTH 5, TEXAS

Small broker's office sells itself



This handsome building doubles as business base and advertisement for a yacht brokerage firm.

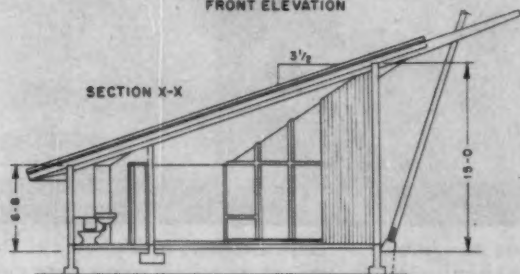
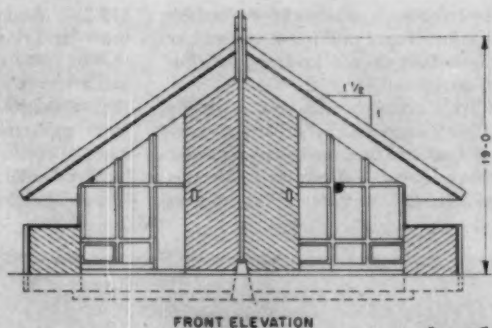
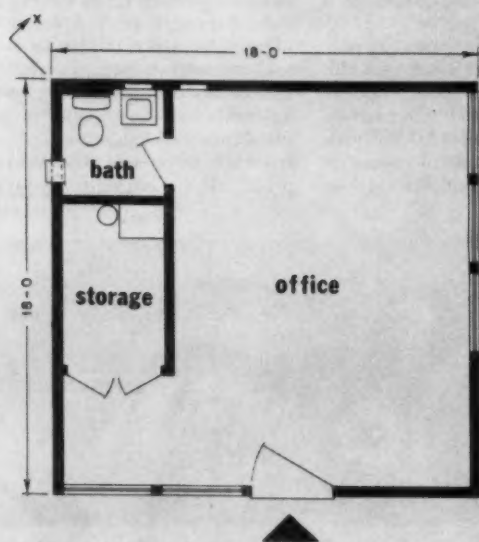
Simple, functional design and speedy erection make this compact office a builder's delight.

It's the home of Columbia Yacht Brokers in Portland, Oregon; but the handsome, versatile structure easily could house anything from a real estate office to a roadside hot-dog business.

Designed by Vancouver architects McCoy and Bradbury, the building makes maximum use of West Coast lumber. The wood effects give the structure considerable warmth and a nautical flair.

The building's unusual shape reflects a growing trend in commercial building design (see detail, below). That's to design so the building not only will serve as a business office but will act as a promotion for the business it houses.

◀ **EASY TO BUILD**—West Coast lumber adds nautical touch to architects' McCoy and Bradbury design for yacht broker's business office in Oregon.



SPECIAL WESTERN SECTION



How can you sell 200 houses

Laramore Construction Company did it on a bean farm in obscure area outside Los Angeles. His story proves there's more than one way to beat depressed markets.

The answer for builder Laramore was to put the right houses on the right land, sell them for the right prices and terms with the right advertising and sales program. The next question became—how do you find out which of each is right?

Market research tells you, according to Lou Laramore, president of Laramore Construction Company, builders of more than 8,000 houses in the Los Angeles area. His sales figures proved

him right—Eastgate development alone within the last year boasted sales of 2,200 houses priced from \$11,960 to \$15,350. And these were made on a bean farm out in the “sticks.”

What role did market research play in Laramore's success? First, it told him that though the bean farm was far from civilization, it held some advantages. Population growth along with hundreds of large and small industries was headed for it. Second, it told him

that the farm's proximity to the Pacific Ocean and the freeways of Los Angeles, Long Beach, and Santa Ana, provided a huge source of prospects.

Then the question came up—what kind of houses to build? Market research said that Laramore could make out best with homes in the \$12,000 to \$14,500 range, featuring low down and monthly payments, low closing fees.

So Laramore worked out a finance plan under which the homes would be sold on contract with only \$295 down to non-vets plus \$90 closing costs. The balance would be payable in monthly installments of \$94.50 at 6.5% interest. Once the buyer had paid \$995 on the principal (including the down pay-



Smart merchandising gets customers inside
Handsome wrought-iron gate and stone fence creates motif for the entire Eastgate subdivision. Theme attracts large crowd.



Smart planning frees buying parents from “kids”
Laramore keeps supervised playground near sales office to free parents of baby-sitting while they look over the model homes.



Salesmen offer prospects low down payment, attractive terms

Homes are sold on contract with only \$295 down to non-vets, \$90 closing costs. Balance is in \$94.50 monthly payments.

Prospects throng to bean farm subdivision in low-price range.

Market research that said \$12,000 to \$14,000 range would sell best proves prophetic at Eastgate, Los Angeles.

a month for 11 months?

ment), he would be required to make application for taking over the first trust deed loan. Laramore estimated that this would take about 36 months. At this time the builder would take back a second trust deed for any difference between the first loan and the amount still due. Meanwhile, there would be no balloon payments.

"It's one thing to know what price class you want to be in, and another to hit it when the homes start going up," Syd Bartlett, general manager for Laramore, said. "So, we figured backward. We listed our fixed cost items and the difference between these and our selling prices had to take care of construction costs."

Bartlett said that many builders start with the house then let the other items fall where they may. He explained that when this is done the builder sometimes finds himself in a higher price bracket than he intended.

These were Laramore's fixed costs: land: \$2,800; financing: \$875; advertising and selling: \$500; overhead: \$300; profit: \$1,200.

These items total \$5,575. By deducting this amount from the selling price, Laramore arrived at the total money available for building the house. Deducting the fixed costs from the original \$13,350 price of one house left \$7,675 with which to build it.

How was it possible to build an out-

standing house for \$7,675? "Simply," said Bartlett, "by carefully watching every single item of cost then cutting it wherever you can. That means you must look at your material, labor and construction costs, and improve them wherever you can."

A big part of Laramore's success is due to careful researching of the local market. But important, too, was the care taken in putting to work the most modern, up-to-date materials, construction methods and merchandising techniques.

Designers for Eastgate were L. C. Major and Associates of Downey, Calif. Marketing Engineers of Santa Ana handled advertising and promotion.



Smart construction cuts cost of house

Laramore searches constantly for ways to speed construction time. This enables him to offer buyers more house for the money.



Smart design for low price sells prospects

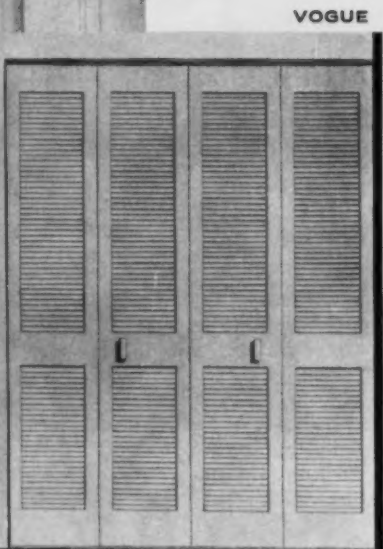
Handsome ranch model (fully landscaped) goes for under \$15,000 and proved an outstanding seller despite depressed market.



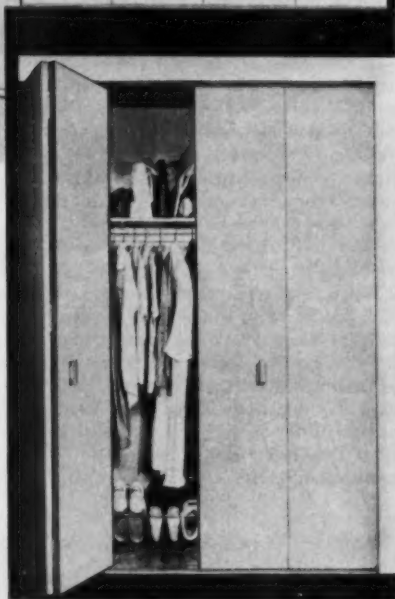
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faster,
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*The look of custom design preferred by
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- **3 DECORATOR STYLES** ...Patrician, Moderne, Vogue... designed to give a custom-finished look.
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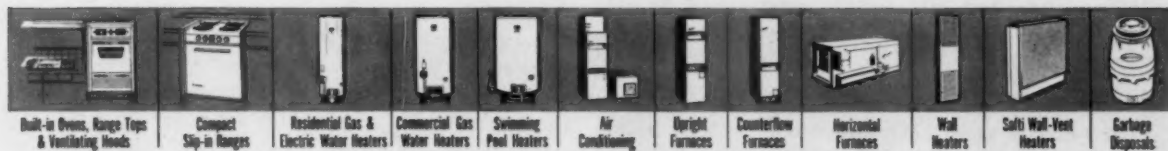
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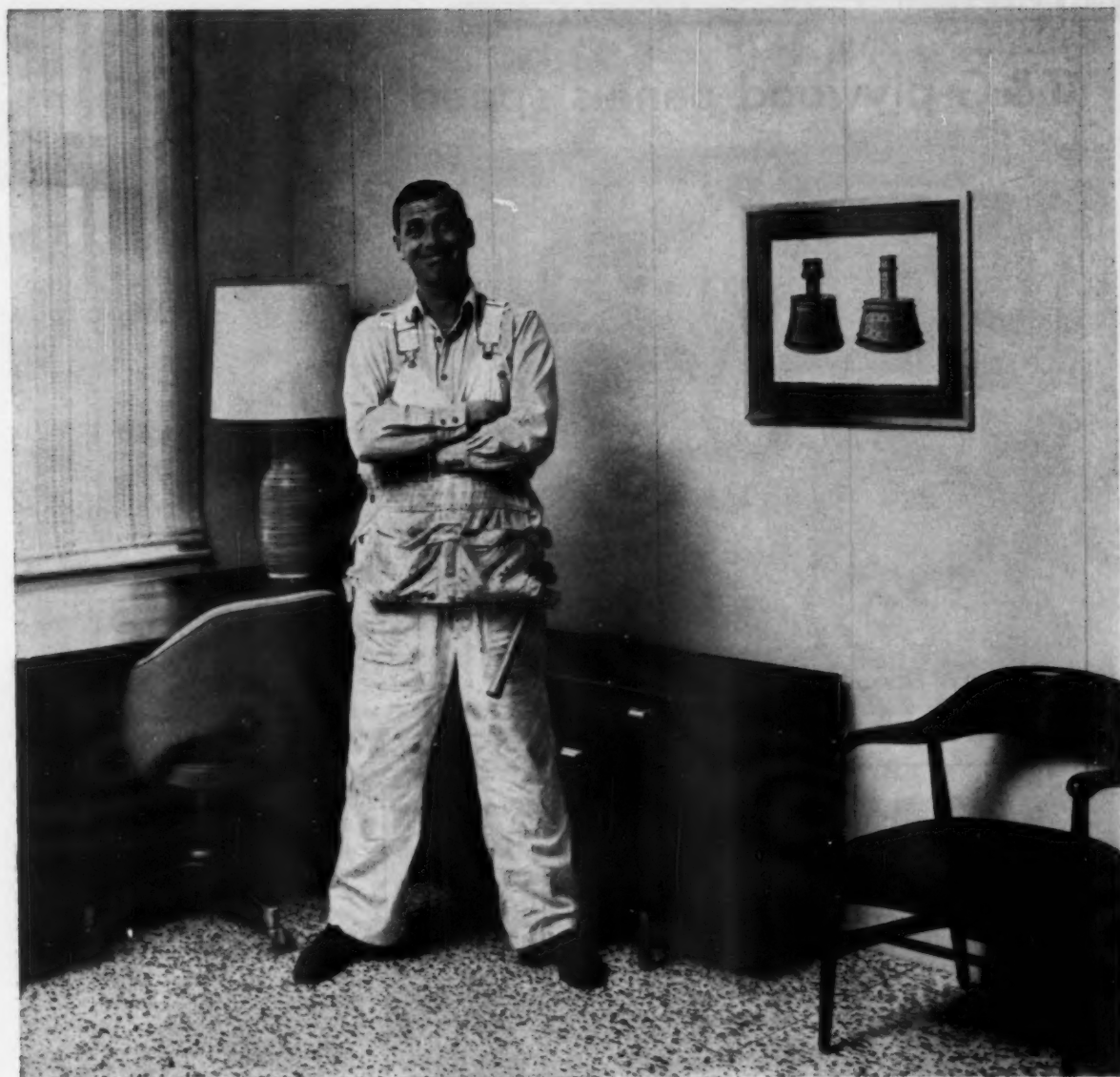
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4:55 P.M.
PROBLEM: A NEW OFFICE BY MORNING



FLOOR COVERING...5 STAR CONCERT—ALSO BY PABCO

9:00 A.M. SOLVED: THANKS TO NEW MOVABLE PABCOWALL!

The new Movable Pabcowall System is a studless, 2 $\frac{3}{4}$ " thick interior gypsum partition that costs 50% less installed than many conventional systems.

In addition, new Movable Pabcowall: saves valuable floor space; is one-hour fire rated; is quickly erected, dismantled, moved and re-erected; has a noise reduction coefficient of 37.7 decibels and weighs less than 7.5 pounds per square foot of finished wall. Height limit 10'0".

And the beauty of Pabcowall is that it adapts to any decor. Handsome 2 ft. modules provide a smooth, clean surface that can be readily painted or vinyl covered. Available with steel or aluminum trim. So for speed, economy and customer satisfaction . . . specify new Movable Pabcowall.

For free architectural specifications, write (on your letterhead): Pabco Technical Services Dept., 475 Brannan St., San Francisco.

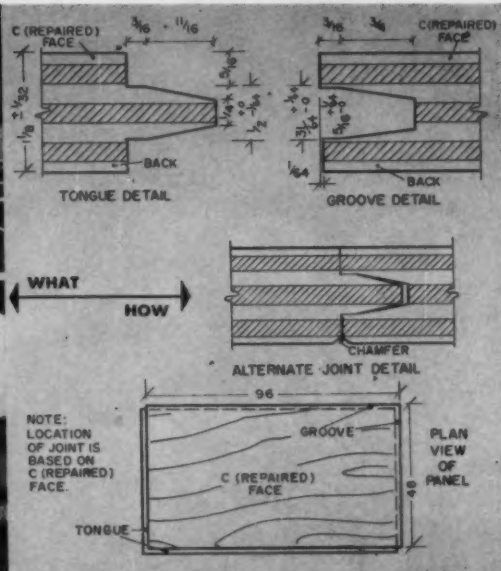
PABCO SINCE 1884

Pabcowall is made for the West by the Pabco Gypsum Division, Fibreboard Paper Products Corporation, San Francisco, California

T&G plywood panels speed floor framing



SPEEDY—Workmen fit tongue and groove subfloor panel into place on a California housing job. Method developed by Doug-



las Fir Plywood Association is a refinement of single layer combination subfloor-underlayment but cuts costs 5 to 10%.

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PLASTIMAYD CORP. 2208 S. E. 7th Ave. • Portland 14, Ore.

New tongue and groove plywood sub floors introduced by Western plywood manufacturers are proving standout performers on a California subdivision.

The panel method is a refinement of the single layer combination subfloor-underlayment treatment which eliminates blocking under panel edges. They are being used by C. B. Chacksfield of Gardena on his 154-unit Rolling Hills housing development.

Key to the method is the tongue and grooving of 2.4.1 panels of fir plywood 1-1/8" thick. These are laid as subflooring over girders on 4' centers. Standard panels of 2.4.1 plywood require at least 2x4" blocking under the panel edges between girders. The new panel eliminates this requirement and simplifies the floor framing scheme—thus cutting costs.

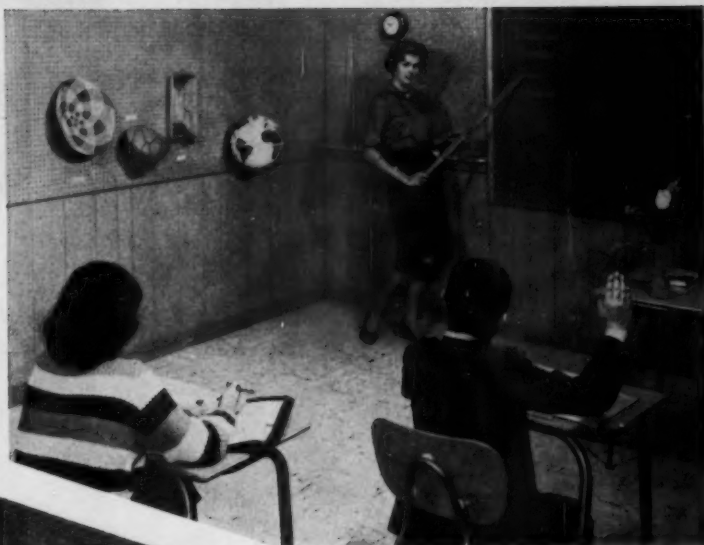
Chacksfield, whose California contemporary ranch homes range in price from \$18,500 to \$43,000, says that on a 1,400 sq ft floor area, two men can lay the subfloor in just 5 hours. This includes placing of mud-sills, intermediate wood posts on the piers, girders, and subflooring nailed into place.

"The 2.4.1 method with carpet-

(Continued on page 10-P)

FOREST Sandalite*

REFINISHED IN A SCATTERED MOSAIC DESIGN



A "NEW CONCEPT" IN HARDBOARD

Notice how **Forest Sandalite** used here as a wainscot and as sliding cabinet doors adds a little spark to the room . . . offers texture, makes it appealing. What's more, it is very practical. Sandalite is designed to take abuse and still look beautiful. And the price is far less than you'd expect.

CHOICE OF PANELS

- RANDOM GROOVE
- TEE-N-GEE
- PUNCHED
- PLAIN PANELS

I am interested in Sandalite.

- Please send sample of the board.
- Please have sales representative call.
- Send Technical Bulletin.

*patent applied for.

WHAT IS SANDALITE?

FOREST SANDALITE IS famous Sandalwood Hardboard with scattered high-lights of three shades of color imbedded into the surface. This lustrous finish is baked in permanently . . . it won't wear off, it is impervious to water, oil, food stains, dirt, grease, bumps and nicks.

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5 TO 10 DAYS

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It's the brand new exterior material that eliminates painting. Completely. (The color's built right in!) You can finish a home five to ten days faster. And save up to ten dollars a day in financing and supervisory help. What's more, Colored Pab-Flex is fire, termite, rot, and dent proof. All at less than a third the cost of brick or stone! In fact the applied price compares favorably with stucco. And there's no waiting for dry weather. No water on the job. No messy clean-up. (The colors? Nine of them in all — five textured, 3/16" thick; four smooth, 1/8" thick. In 4' x 8' panels and other lengths on special order.) Ask your Pabco dealer to show you samples. Soon! Colored Pab-Flex is brought to you by Pabco Roofing Division, Fibreboard Paper Products Corporation, 475 Brannan Street, San Francisco, California.

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(Continued from page 10-L)

ing," says Chacksfield, "lets us offer a completely carpeted house at only \$300 extra to the buyer."

He also uses 2.4.1 panels for his second floors in single family and garden apartment construction.

"We'd been having a little trouble with springy floors in regular construction," Chacksfield explains. "So we started placing 2.4.1's over regular joist construction on second floors for rigidity. The panels cost only a little more but the heavier, sturdier construction more than makes this up."

The new joint was developed by the research division of the Douglas Fir Plywood Association which tested it under laboratory conditions and in six actual installations in the field.

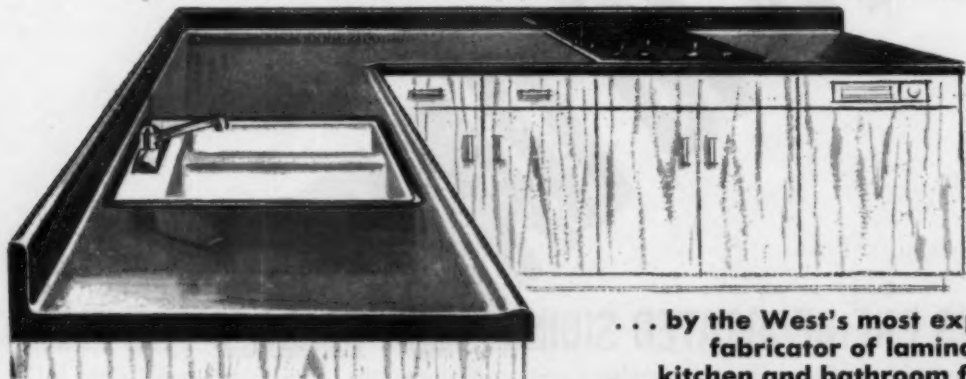
"In the field tests," says John Hess, DFPA's technical director, "every application showed savings. But some builders claim economies above that of others. Where detailed costs are available, a typical job appears to produce savings in basic floor construction (exclusive of finish) of from 5 to 10%."



METHOD—Panels are placed as subflooring over girders on 4' centers. Standard panels require at least 2x4" blocking under panels edges—a practice method eliminates.

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A17	A37	A57	A77	A97	A117	A137	A157	A177	A197	A217	A237	A257	A277	A297	A317	A337	A357	A376	
A18	A38	A58	A78	A98	A118	A138	A158	A178	A198	A218	A238	A258	A278	A298	A318	A338	A357-A	A377	
A19	A39	A59	A79	A99	A119	A139	A159	A179	A199	A219	A239	A259	A279	A299	A319	A339	A358	A378	
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American Builder Reader Service

★ APRIL 1961

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Building own home
 Realty

Architect
 Government

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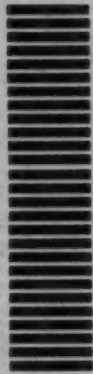
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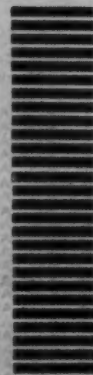
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Catalogs are listed under their corresponding product headings. Example: adhesives catalogs would appear under "Bonding agents." Use reply cards opposite to get free catalogs.

Bathroom cabinets

BATHROOM CABINETS are featured here. Covers recessed and surface sliding door cabinets, mirror-vanity combinations, among others.—Grote Mfg. Co.
Circle No. 1 on reply card, p. 11

BATHROOM CABINETS are subject of well-organized four-page folder. Finished in choice of five decorator colors and white, the cabinets are shown in basic units and combinations.—Kitchen Maid Corp.
Circle No. 2 on reply card, p. 11

MEDICINE CABINETS, with and without fluorescent side lights, are featured here. Twenty-four page catalog discusses construction features, gives lots of specification tables.—F. H. Lawson Co.
Circle No. 3 on reply card, p. 11

MEDICINE CABINET with one-piece, deep drawn body and rust-proof protective base. Four-page folder illustrates and gives specifications. Made from heavy gauge steel.—Zenith Metal Products Co.
Circle No. 4 on reply card, p. 11

Bathroom fixtures & accessories

COLOR-SCHEMED bathroom, lavatory, kitchen units. Illustrated folder includes color decorator guide and samples. Fixtures are made of vitreous china and enameled iron in matching sets.—Kohler Co.
Circle No. 5 on reply card, p. 11

LAVATORY LEGS and towel bars are described in this brochure. Designed for all makes of vitreous china, iron enamel and steel lavatories.—Reed-Cromex Corp.
Circle No. 6 on reply card, p. 11

LUXURY BATHROOM SET is pictured in 94-page catalog. Choice of seven colors. Includes porcelain enameled steel recessed tub, features automatic bath and shower diverter and pop-up drain.—Gerber Plumbing Fixtures Corp.
Circle No. 7 on reply card, p. 11

ONE-CONTROL VALVE for shower and bath to control water temperature and volume is subject of folder. Describes easily replaced cartridge.—Moen Faucet.
Circle No. 8 on reply card, p. 11

SHOWER CABINET portrayed in full-color brochure. Comes complete with soap dish, shower head, chromium-plated brass valves. If door is not ordered,

curtain, rod and pins are furnished.—Fiat Metal Mfg. Co.
Circle No. 9 on reply card, p. 11

SHOWER STALL enclosures are featured in four-page folder which outlines specifications. Choice of hammered frosted or Pluralite glass.—Theodore Efron Mfg. Co.
Circle No. 10 on reply card, p. 11

STEEL CABINETS for built-ins are available in white, yellow, pink, turquoise or traditional finish. Can fit on matching base panels. Twelve-page booklet illustrates variety of cabinets.—Republic Steel Corp.
Circle No. 11 on reply card, p. 11

STEEL SHOWER CABINETS are featured in four-page folder. Illustrates two models, gives specifications in chart form. Roughing-in details and cross-section of receptor also appear.—W. F. Norman Sheet Metal Mfg.
Circle No. 12 on reply card, p. 11

TOWEL RING made of clear synthetic material. Folder shows how it can be mounted on concealed bracket. Can use either adhesive or screws for tile, glass, plaster, wood, metal or plastic.—Mirra-Cote Co., Inc.
Circle No. 13 on reply card, p. 11

TUB ENCLOSURES and shower doors are examined in eight-page folder. Open end, recessed and folding tub enclosures are described.—Beauti-Dor, Inc.
Circle No. 14 on reply card, p. 11

TUB AND SHOWER fixture, illustrated in 16-page catalog, installs on—not in—wall. Designed to overcome variations in wall thicknesses. Can be used with space-saver partitions. Appears as concealed fixture.—Milwaukee Faucets, Inc.
Circle No. 15 on reply card, p. 11

Bonding agents

ADHESIVE designed to stick "anything to anything" is covered in bulletin. Can be used for most general purposes, but serves to bond wall fixtures, ceramic tile, insulation board, glass, etc.—Goodloe E. Moore.
Circle No. 16 on reply card, p. 11

CALKING, GLAZING and sealing products are described in this catalog. Includes packaging data on each product. All catalog pages are punched for use in standard book.—DAP Inc.
Circle No. 17 on reply card, p. 11

CONCRETE BONDING agent that adheres new topping to base concrete and welds two together

is presented in four-page folder.—Larsen Products Corp.
Circle No. 18 on reply card, p. 11

CONSTRUCTION SEALERS designed to meet the demands of modern design are offered in a four-page, illustrated catalog. Properties and functions of epoxy alloys are explained.—Coast Pro-Seal & Mfg. Co.
Circle No. 19 on reply card, p. 11

EPOXY PRODUCTS are described in general information pamphlet. Designed for sealing, filling, joining, repairing, surface coating, bonding and topping of concrete, asphalt, masonry and other building materials.—Permagile Corp. of America.
Circle No. 20 on reply card, p. 11

PLASTIC CEMENT mortar for installing ceramic tile on masonry surfaces. Featured in 20-page catalog which shows its uses with rough concrete, cinder-block, etc. Detailed instructions.—Miracle Adhesives Corp.
Circle No. 21 on reply card, p. 11

Brick, clay, masonry, stone

AZTEC STONE, a new decorative masonry wall material, is examined at length here. Literature describes different designs available and emphasizes its use as a facade for remodeled buildings.—Emco Cement Products.
Circle No. 22 on reply card, p. 11

STRUCTURAL CLAY products for light construction are described and illustrated in colorful booklet. Includes facing brick, glazed and unglazed facing tile, clay sewer pipe, drain tile and flue lining.—Natco Corp.
Circle No. 23 on reply card, p. 11

Chimneys

ALL-FUEL CHIMNEY is described in illustrated, fold-out brochure. Details are given on the principle and construction of chimney. Included are illustrations, a chart of model combinations, and cut-away diagrams.—General Products Co., Inc.
Circle No. 24 on reply card, p. 11

PREFAB CHIMNEY with concealed tank at the top is explained here. Available in a wide range of sizes and styles. Includes installation data.—Condensation Engineering Corp.
Circle No. 25 on reply card, p. 11

Clothes dryers

CLOTHES DRYER with two separate air stream units for drying speed. Folder gives dimensions and specifications. Includes

130-minute rotary timer and rotary temperature guide selector. One-piece wrap-around cabinet.—Hamilton Mfg. Co.
Circle No. 26 on reply card, p. 11

GAS DRYER with electronic control is shown in punched sheet with diagrams. Color picture shows appliance in typical setting. Full specifications are given including dimensions. Discusses such features as burner, safety shutoff, thermostats, etc.—Maytag Co.
Circle No. 27 on reply card, p. 11

Concrete forms & equipment

CONCRETE construction method for swimming pools is described in 12-page illustrated booklet. Check list of advantages is given in chart form. Emphasis in photos is on large commercial pools.—Amcrete Corp.
Circle No. 28 on reply card, p. 11

CONCRETE EQUIPMENT and accessories is subject of 28-page catalog. Covers vibrators, grinders, troweling machines and vibrating screeds. Includes material on how to build your own screed beam.—Stow Mfg. Co.
Circle No. 29 on reply card, p. 11

CONCRETE FORMS are presented in six-page catalog that graphically illustrates patented system of forming. Wide range of forms are available for light commercial construction. Flexibility and versatility is stressed.—Simplex Forms System, Inc.
Circle No. 30 on reply card, p. 11

CONCRETE FORMS, ties and hundreds of concrete accessories are contained in this descriptive catalog. Many illustrations, specifications.—Universal Form Clamp Co.
Circle No. 31 on reply card, p. 11

STEEL FORMS for concrete construction are pictured in 12-page catalog. Various form setups for curved and tapered walls, tunnels, columns, offsets and simple walls are shown. Lists accessories, tool, supplies.—Economy Forms Corp.
Circle No. 32 on reply card, p. 11

Door chimes

DOOR CHIMES are subject of two-page sheet which shows them mounted both horizontally and vertically. Complete with transformer, pushbuttons, cap ready to plug into receptacle. Available in ivory, pearl white, sandstone.—Cable Electric Products, Inc.
Circle No. 33 on reply card, p. 11

DOOR CHIMES are one of many electrical built-ins shown and described in 72-page, full-color pocket catalog. Has complete data, installation diagrams on hood-fans, door chimes, intercoms, stereo-intercoms. Also covers bathroom ceiling, wall heaters.—NuTone, Inc.

Circle No. 34 on reply card, p. 11

Doors

DECORATIVE ENTRY DOORS shown in folder containing design diagrams. Constructed of wood blocks, wood strips, or combinations of both. Blocks are of smooth and uniform thickness.—Bellwood Co.

Circle No. 35 on reply card, p. 11

DOORS of many types are described in this 36-page catalog. Gives specifications, explains special construction features. Includes data on types of operations, both manual and electrical.—Kinnear Mfg. Co.

Circle No. 36 on reply card, p. 11

ENTRANCE DOORS are treated in this colorful catalog. Nearly 200 floor designs are illustrated, enabling home planner to choose among many styles.—Visador.

Circle No. 37 on reply card, p. 11

ENTRANCES catalog covers complete line of doors and entrances, along with hardware for commercial buildings. A wealth of details plus installation photos. Specifications included.—Kawneer Co.

Circle No. 38 on reply card, p. 11

LARGE WOOD DOORS, available in heights up to 14' and widths up to 50", are shown in eight-page, illustrated catalog. Can be folded back on a track to save space.—Wood Specialty.

Circle No. 39 on reply card, p. 11

METAL DOORS and frames, specifically designed for residential use and apartment buildings, are illustrated in descriptive catalog.—Steelcraft Mfg. Co.

Circle No. 40 on reply card, p. 11

SOLID CORE flush doors are covered in eight-page catalog. Construction features, face veneers and specifications are given.—Morgan Co.

Circle No. 41 on reply card, p. 11

STEEL SECTIONAL doors, for residential, commercial and industrial uses. Illustrated in eight-page brochure. Wide selection of models come with framing details, complete specifications.—Morrison Steel Products, Inc.

Circle No. 42 on reply card, p. 11

Doors, folding

ADDED SPACE is main benefit of folding doors described in this illustrated folder. Floor to ceiling sizes, for use as partitions, are stressed. Details of cost-cutting applications appear along with list of special features.—New Castle Products, Inc.

Circle No. 43 on reply card, p. 11

COMPLETE LINE of folding doors, for residential and commercial use, are shown in a 16-page booklet. Features design data, installation.—American Accordion-Fold Doors.

Circle No. 44 on reply card, p. 11

FOLDING CLOSET DOORS, designed for space saving and easy installation, are depicted in literature giving specifications. Units are designed to fill any opening. Practical advantages are listed.—Float-Away Door Co.

Circle No. 45 on reply card, p. 11

FOLDING DOOR for tub or shower is described and illustrated. Gives three simple installation steps. Lists sizes for both functions and gives specifications.—Showerfold Door Corp.

Circle No. 46 on reply card, p. 11

FOLDING DOORS and room dividers in a variety of styles are covered in catalog sheets. Construction features and installation details.—Clopay Corp.

Circle No. 47 on reply card, p. 11

FOLDING DOOR UNITS which give full access are described in four-page color folder. Advantages are listed, along with wide range of applications in home.—Ready Hung Door Corp.

Circle No. 48 on reply card, p. 11

FOLDING WOOD DOORS and partitions are illustrated in four-page booklet which shows colors of different woods offered.—Panelfold Doors, Inc.

Circle No. 49 on reply card, p. 11

WOOD PANEL folding doors, designed to combine natural beauty of wood with convenience of lightweight construction.—Consolidated General Products.

Circle No. 50 on reply card, p. 11

Doors, garage

GARAGE DOORS, overhead type, are offered in this illustrated 16-page booklet. In addition to easy opening, the doors are weathertight.—Barber-Colman.

Circle No. 51 on reply card, p. 11

GARAGE DOORS of steel and wood for residential and commercial installations are presented in eight-page brochure. Three styles are stressed.—Berry Door.

Circle No. 52 on reply card, p. 11

GARAGE PLAN booklet shows how overhead doors can be used with other elements of garage for maximum beauty, utility. Design kits are available.—Crawford Door Co.

Circle No. 53 on reply card, p. 11

LARGE SELECTION of flush, sectional overhead doors are illustrated in four-page folder. Wide variety of designs aid builder in blending garage area into front elevation.—Graham Industries, Inc.

Circle No. 54 on reply card, p. 11

OVERHEAD DOORS for residential garages are illustrated and detailed in eight-page catalog. Shows styles and designs. Radio-controlled automatic door operator is also described.—Overhead Door Corp.

Circle No. 55 on reply card, p. 11

OVERHEAD SECTIONAL garage doors are pictured in four-page brochure. Designed to "float" on factory lubricated bearings. Table of stock sizes and headroom requirements is included.—Calder Mfg. Co.

Circle No. 56 on reply card, p. 11

SECTIONAL, ONE-PIECE garage doors are described in 28-page catalog. Includes over 100 sizes and models. Covers sizes to fit almost any residential or commercial door.—Frantz Mfg. Co.

Circle No. 57 on reply card, p. 11

SLIDING GARAGE DOORS with electronic door operators are pictured in three-sheet folder. Broad range of designs include decorative carved panels. Stress is on quality construction.—Raynor Mfg. Co.

Circle No. 58 on reply card, p. 11

Doors, sliding glass

ALUMINUM SLIDING glass doors are pictured in 12-page brochure. Can be custom fabricated for large projects. Specifications are included, along with selection chart and details.—Arcadia Metal Products.

Circle No. 59 on reply card, p. 11

ALUMINUM SLIDING glass doors are presented in an eight-page booklet stressing quality. Specifications and details are given for variety of models.—Sun Valley Industries, Inc.

Circle No. 60 on reply card, p. 11

WOOD SLIDING GLASS doors with steel-reinforced panels are illustrated, described in eight-page color catalog. Presents details of many door features. Gives advantages of each and specifications.—Rolscreen Co.

Circle No. 61 on reply card, p. 11

Earthmoving equipment & accessories

BACKHOE APPLICATIONS are examined in four-page catalog. Also outlines advantages of model featured. Separate sheet lists complete specifications.—Young Spring & Wire Corp.

Circle No. 62 on reply card, p. 11

BACKHOE LINE is covered in photos, diagrams and text of four-page folder. Specifications and digging ranges are included. Special buckets and booms are shown in detail. Work ranges are described.—Schield Bantam Co.

Circle No. 63 on reply card, p. 11

DITCHER-TERRACING blades are illustrated in four-page bulletin. Lists advantages of each. Specifications included.—Servis Equipment Co.

Circle No. 64 on reply card, p. 11

HEAVY-DUTY LOADER is shown in action in this 12-page brochure. Uses and method of operation are shown. Specifications table provides data on bucket, capacities, other features.—Caterpillar Tractor.

Circle No. 65 on reply card, p. 11

TILLER-RAKE is illustrated in folder showing various operations. Machine scarifies, levels and rakes, all in one operation.—Roseman Tractor Equipment.

Circle No. 66 on reply card, p. 11

TRACTOR featuring four-wheel drive and steering takes wide variety of attachments. Colorfully portrayed in four-page, illustrated brochure.—Napco.

Circle No. 67 on reply card, p. 11

TRACTOR-COMPRESSOR has many uses in building and maintenance. Twelve-page booklet lists capacities, gives dimensions for variety of attachments.—Westinghouse Air Brake Co.

Circle No. 68 on reply card, p. 11

TRACTOR SHOVEL with 9,000-lbs. capacity is pictured in colorful, 16-page brochure. Index permits quick reference to main features and work phases.—J. I. Case Co.

Circle No. 69 on reply card, p. 11

TRACTOR SHOVELS are described in compact folder which gives photos and specs for each model. Complete line of attachments.—Frank G. Hough.

Circle No. 70 on reply card, p. 11

TRENCHERS are illustrated in this colorful brochure. Specifications and capacities are given in detail for machines from 7 h.p. to 30 h.p.—Witch Marketing Co.

Circle No. 71 on reply card, p. 11

Fans, louvers, vents

ACCURATE rating system for exhaust fans now available in home ventilating guide. Fan labeling gives number of square feet, for each type of fan, that a particular fan will ventilate.—Home Ventilating Institute.

Circle No. 72 on reply card, p. 11

ALL TYPES OF FANS, kitchen ventilating hoods, recessed and decorator lighting, fixtures, door chimes and intercom systems. Illustrated and described in handy 112-page pocket catalog.—Emerson Electric.

Circle No. 73 on reply card, p. 11

ATTIC FANS and ventilating equipment are covered in this catalog. Also gives data on gas-fired furnaces and three, four and five-ton condensing units.—Bar-Brook Mfg. Co. Inc.

Circle No. 74 on reply card, p. 11

ATTIC FANS are described and illustrated in 12-page booklet. Tables and drawings show how to select correct size fan for a house. Installation sequence is shown for Niteair special fan.—Lau Blower Co.

Circle No. 75 on reply card, p. 11

ATTIC VENTILATOR, available in aluminum or galvanized steel, is depicted in small handbook on ventilation. Discusses many aspects of ventilation.—Leigh Building Products.

Circle No. 76 on reply card, p. 11

BATHROOM FAN, combined with heater and light. Illustrated sheet shows how polished, all-chrome grille permits free flow of air and heat. Adjustable brackets allow plaster variation.—Ventrola Mfg. Co.

Circle No. 77 on reply card, p. 11

EXHAUST FANS, contour roof type, are described. Contains dimension table, capacity table, cutaway view, typical specifications and details of installation.—Davidson Fan Co.

Circle No. 78 on reply card, p. 11

LOUVERS for variety of applications are presented in 18-page booklet. Comes with lots of installation details. Also pictures and describes hole saw set.—Midget Louver Co.

Circle No. 79 on reply card, p. 11

VENTILATORS, power and gravity-type, and wall louvers are described and illustrated in concise bulletin. Technical data, design, construction, capacities, performance and dimensions appear for each type.—Burt Mfg. Co.

Circle No. 80 on reply card, p. 11

Fasteners, nails, etc.

FASTENERS made from a variety of metals and alloys are covered in 28-page catalog. Gives dimensions in table form. Special emphasis is placed on fasteners made from silicon bronze.—Chase Brass & Copper.

Circle No. 81 on reply card, p. 11

FASTENERS are depicted in four-page bulletin listing sizes and metals. Tells how they can be used to solve variety of problems. Describes special uses in secondary operations.—John Hassall, Inc.

Circle No. 82 on reply card, p. 11

DRY-WALL NAIL catalog gives data on sizes, application and cost reducing. Also covers full line of common and special nails, including ring shank and drive screw.—Sheffield Div. Armco Steel Corp.

Circle No. 83 on reply card, p. 11

FASTENING DEVICES are subject of 24-page, loose-leaf brochure. Specifications and standard size charts appear for plastic and lead screw anchors, expansion bolts, etc.—Holub Industries, Inc.

Circle No. 84 on reply card, p. 11

FRAMING ANCHORS for roof, wall and floor framing. Eight-page catalog gives sizes, illustrates uses. Made from 18-gauge, zinc-coated sheet steel.—Timber Engineering Co.

Circle No. 85 on reply card, p. 11

MASONRY FASTENERS and drilling devices. Described in pocket-size catalog which covers complete line. Many specification charts and photos.—Arro Expansion Bolt Co.

Circle No. 86 on reply card, p. 11

NAILS in 372 sizes and types are covered in 24-page book. Designed to fit standard files and binders. Gives complete data on lengths, gauges, head sizes and counts per pound.—Independent Nail & Packing Co.

Circle No. 87 on reply card, p. 11

POWER-DRIVEN fasteners are neatly illustrated, explained in 12-page catalog. Contains photos, easy-to-read technical information.—Ramset Fastening.

Circle No. 88 on reply card, p. 11

SCREW ANCHORS and nails are detailed in pamphlet here. Installation details and directions are given for clips used in fastening acoustical tiles.—E. G. Building Fasteners Corp.

Circle No. 89 on reply card, p. 11

Fences & gates

CHAIN LINK FENCE is subject of four-page folder. Detail drawings show framework, fence and gate fittings, and typical erected fence section with all components required to install.—Robertson Steel & Iron Co.

Circle No. 90 on reply card, p. 11

STEEL FARM GATES are covered in descriptive catalog. Includes material on cattle guard gates, steel fence braces, and picnic table iron sets.—Baumgartner Gate Factory, Inc.

Circle No. 91 on reply card, p. 11

Fireplaces, equipment

FIREPLACE DIVIDER WALL combines fireplace with means of separating living areas. Four-page color brochure illustrates use.—Condon-King Co.

Circle No. 92 on reply card, p. 11

FIREPLACE ENCLOSURES that permit burning with coal, wood or gas are described and illustrated.—Thermo-Rite Mfg.

Circle No. 93 on reply card, p. 11

FIREPLACE UNITS and accessories discussed in 12-page catalog. Includes construction details, specifications and section drawings on all five models.—Superior Fireplace Co.

Circle No. 94 on reply card, p. 11

FIREPLACES and accessories are subject of descriptive literature. Covers form dampers, cleanout doors, ash dumps and built-in barbecue products.—State Steel Industries, Inc.

Circle No. 95 on reply card, p. 11

ORNAMENTAL HOODS for the fireplace are illustrated in this brochure. Available in variety of finishes.—Robert H. Peterson Co.

Circle No. 96 on reply card, p. 11

PREFAB FIREPLACE, complete with its own chimney. Described in brochure with color photographs. Can be painted any color.—Vega Industries, Inc.

Circle No. 97 on reply card, p. 11

Flooring

FLOOR PATTERNS, 45 different kinds, are picture in 10-page, full-color design brochure. Shows how vinyl asbestos tile can be used both as illustrated and for original floor creations.—Johns-Manville.

Circle No. 98 on reply card, p. 11

FLOOR UNDERLAYMENT for tile, linoleum or carpeting. Four-page brochure details correct application methods from start to finish.—Weyerhaeuser.

Circle No. 99 on reply card, p. 11

RANCH PLANK FLOORING is described in full-color, 16-page booklet. Flooring is ready-pegged, factory finished. Walnut pegs combine with eased edges.—E. L. Bruce Co.

Circle No. 100 on reply card, p. 11

RESILIENT FLOORS are covered in 46-page, wire-bound booklet. Details vital factors in selection of floor and wall coverings. Includes technical data on preparation of underfloors.—Congoleum-Nairn Inc.

Circle No. 101 on reply card, p. 11

SUBFLOOR and underlayment combination, made from 2-4-1 plywood, is covered in illustrated folder. Features extra-thick veneers and moisture-resistant glue lines. Available in 4'x8' panels.—Georgia-Pacific.

Circle No. 102 on reply card, p. 11

VINYL AND RUBBER flooring folder contains hundreds of color and design patterns. Detailed information and maintenance data appears.—American Biltrite Rubber Co.

Circle No. 103 on reply card, p. 11

Framing, steel

INTERLOCKING steel framing details are given in 48-page booklet. Contains complete analysis of structural system.—Macomber, Inc.

Circle No. 104 on reply card, p. 11

JOIST BRIDGING is subject of folder which outlines merits of the "Flash Bridge." Can be installed after the floor is laid.—Flash Bridge Co.

Circle No. 105 on reply card, p. 11

JOIST HANGERS made of rust-resistant, galvanized steel. Folder demonstrates how they eliminate need for notching sub-flooring or beams.—F. D. Kees Mfg. Co.

Circle No. 106 on reply card, p. 11

OPEN WEB steel joints, L and S series, are fully described in 42-page catalog. Features many load design tables, installation details and photos. Index covers many phases, facilitates location of specific subjects in excellently organized literature.—Sheffield Div. Armco Steel Corp.

Circle No. 107 on reply card, p. 11

Framing, structural lumber

COMPONENT PARTS, cut to order, are subject of four-page folder. Pre-cut parts include roof trusses, cut plywood, wall panels, framing units, rafters and joists.—Wood Components.

Circle No. 108 on reply card, p. 11

DESIGN MANUAL gives data on glued laminated arches, beams and trusses. Includes load and span tables, specifications.—Unit Structures, Inc.

Circle No. 109 on reply card, p. 11

FRAMING SQUARE, designed to make roof framing easier and faster, well-illustrated in folder describing its uses. Device simplifies cutting.—Sharp's Mfg.

Circle No. 110 on reply card, p. 11

LAMINATED WOOD as a structural material is promoted in a 20-page, illustrated booklet. Covers engineering and design requirements for radial arches, beams, purlins.—Rilco Laminated Products.

Circle No. 111 on reply card, p. 11

LONGSPAN JOISTS are illustrated in this 20-page brochure. Calls attention to advantages of one-piece fabrication.—Haven-Busch Co.

Circle No. 112 on reply card, p. 11

PRESSURE-TREATED lumber is covered in 16-page booklet. Economy and appearance are emphasized. Photos illustrate broad range of applications.—Koppers Co. Inc.

Circle No. 113 on reply card, p. 11

Garage door operators

DOOR OPERATOR is shown in small folder illustrating advantages. Automatically opens, closes and locks garage door.—A. E. Moore Co., Inc.

Circle No. 114 on reply card, p. 11

GARAGE DOOR OPERATOR features an all-transistor design. Four-page brochure illustrates installation inside auto and garage.—General Motors Corp.

Circle No. 115 on reply card, p. 11

TWO BASIC TYPES of garage door operators are discussed in this eight-page catalog. Installation details are clearly presented.—Alliance Mfg. Co.

Circle No. 116 on reply card, p. 11

Garbage disposers

DISPOSER for garbage is illustrated with parts in four-page folder. Advantages and operations of all features are clearly explained.—National Rubber Machinery Co.

Circle No. 117 on reply card, p. 11

GARBAGE DISPOSER is subject of four-page brochure which gives specifications. Features automatic aligning and self-locking assembly. Continuous feed operation.—In-Sink-Erator Mfg. Co.

Circle No. 118 on reply card, p. 11

Gas lamps

GAS LAMP diagramed in folder features base of spun aluminum, enamel finish with frosted globe. Comes in complete unit with 7-3/8" steel post.—Craftsman Copper Co., Inc.

Circle No. 119 on reply card, p. 11

OUTDOOR GAS LIGHTS and related accessories are illustrated in eight-page color catalog. Shows complete line, including models designed for multiple installation.—Arkla Air Conditioning Corp.

Circle No. 120 on reply card, p. 11

Gas ranges

BUILT-IN GAS RANGE in a variety of decorator colors appears in four-page folder. Suggested installation is given. Optional top burner control regulates cooking temperatures automatically.—Hardwick Stove.

Circle No. 121 on reply card, p. 11

BUILT-IN GAS RANGE with nearly 10,000 cubic inches of cooking space is shown in four-page folder. Occupies only 24" of wall space.—Samuel Stamping & Enameling Co.

Circle No. 122 on reply card, p. 11

COOKING TOP, electric built-in type, is illustrated in full-color brochure. Equipped with seven-stage, fast-heating surface elements. Tilt up for cleaning.—Thermador Electrical Mfg.

Circle No. 123 on reply card, p. 11

GAS RANGE DESIGN is discussed in folder featuring full-color illustrations. Advantages of various parts are listed. Exact dimensions given.—George D. Roper Corp.

Circle No. 124 on reply card, p. 11

Generators, portable

PORTABLE electric plants and how to select them are discussed in four-page folder. Points out features that make for better performance, less maintenance.—Onan, Studebaker-Packard.

Circle No. 125 on reply card, p. 11

TWO LINES of generators are fully covered in well-illustrated, 12-page catalog. Gives full description, instructions for selecting a generating plant.—Pioneer Gen-E-Motor Corp.

Circle No. 126 on reply card, p. 11

Grillework

ALUMINUM GRILLEWORK is described in an eight-page brochure. Discusses non-modular grillework as means of light and temperature control. Also shows use as ornamentation.—Integrated Ceilings & Grilleworks, Inc.

Circle No. 127 on reply card, p. 11

ORNAMENTAL METALWORK catalog is intended to facilitate selection. Contains scale drawings of suggested designs made from malleable iron castings.—Julius Blum.

Circle No. 128 on reply card, p. 11

Hardware, door, drawer & cabinet

CABINET HARDWARE and accessories for every room in the house are colorfully pictured in 16-page catalog. Covers drawer slides, window hardware, disappearing shelf hardware, revolving shelf hardware.—Amerock Corp.

Circle No. 129 on reply card, p. 11

DECORATIVE LOCKSETS shown in well-illustrated, 16-page color brochure. Available with either push-button or turn-button locking. Durable finish protected by baked-on lacquer.—Medalist Hardware.

Circle No. 130 on reply card, p. 11

DOOR AND DRAWER hardware is main feature of 20-page catalog. Items from pulls to catches are shown in color drawings, with specifications for all.—Ajax Hardware Corp.

Circle No. 131 on reply card, p. 11

DOOR HARDWARE is colorfully illustrated in this catalog. Contains data on exit devices, door closers, mortise lock and hand sets.—Sargent & Co.

Circle No. 132 on reply card, p. 11

DOOR HARDWARE, with emphasis on locksets, are subject of 12-page brochure. Many illustrations in color.—Western Lock Mfg. Co.

Circle No. 133 on reply card, p. 11

FASCIA TRACK SET with twin wheel hangers and door stop for sliding door. Shown in four-page brochure illustrating method of installation.—John Sterling Corp.

Circle No. 134 on reply card, p. 11

FOLDING AND SLIDING door hardware are among many items covered in 28-page catalog. Gives detailed descriptions, prices on almost 1,000 products.—Leigh Building Products.

Circle No. 135 on reply card, p. 11

HARDWARE for the builder is discussed in condensed catalog giving detailed data. Text and illustrations of lock designs and functions are among features.—Schlage Lock Co.

Circle No. 136 on reply card, p. 11

HARDWARE SPECIALTIES are covered in catalog showing complete line. Drawer slides, standards and brackets, and folding door hardware are among subjects.—Knappe & Vogt Mfg. Co.

Circle No. 137 on reply card, p. 11

LOCKSETS and other locking and latching hardware for commercial and residential buildings covered in full-color, 12-page catalog. Thirty-one functions are listed. All knob designs are illustrated.—Challenger Lock Co.

Circle No. 138 on reply card, p. 11

LOCKSETS for every door in the house are main subject of colorful catalog. Covers screen and combination door locks, door closers, etc.—Dexter Industries, Inc.

Circle No. 139 on reply card, p. 11

LOCKSETS line illustrated in attractive four-color brochure. In addition, installation aids, trim rosettes and miscellaneous builder's hardware items are covered.—Kwikset Sales.

Circle No. 140 on reply card, p. 11

MERCHANDISING KIT designed to help builder promote open house activities. "Harmony in Hardware" is theme of kit material. Contains hand-out and direct mail folders.—Medalist Hardware.

Circle No. 141 on reply card, p. 11

ROLLER BEARINGS for wooden drawers shown in folder giving directions for installation. Two bearings are nailed to bottom cross rail at drawer opening.—Junior-Pro Products.

Circle No. 142 on reply card, p. 11

SLIDING DOOR HARDWARE shown in eight-page condensed catalog with illustrations. Load capacity up to 175 lbs. for 1" doors and up.—Grant Pulley & Hardware Corp.

Circle No. 143 on reply card, p. 11

Heaters

DUCT HEATERS for zoned heating are described in 40-page booklet. How to use electricity for heating is theme. Each heater handles 5.7 kw for an output of 19,500 Btu/h.—Lennox Industries Inc.

Circle No. 144 on reply card, p. 11

ELECTRIC HEATING UNITS are discussed in eight-page color booklet. Provides application, specification data as well as construction details.—Commercial Controls.

Circle No. 145 on reply card, p. 11

FAN-FORCED heating unit, built for occasional or permanent heat, is illustrated in four-page brochure. Quiet motor does not need lubrication. Has automatic safety switch.—Markel Electric Products.

Circle No. 146 on reply card, p. 11

SEALED VENT HEATER provides gas heat in attics, base-

ments, added rooms. Four-page brochure illustrates uses, provides size guide.—H. C. Little.

Circle No. 147 on reply card, p. 11

VENTED GAS HEATER, using heat from exterior of building, is covered in small folder. Heater fits on any outside wall, eliminates need for chimney.—Chattanooga Royal Co.

Circle No. 148 on reply card, p. 11

Heating & cooling accessories

AIR CLEANER sales kit is now available. Contains sales presentation, consumer brochures, drop-in ads.—Minneapolis Honeywell Regulator Co.

Circle No. 149 on reply card, p. 11

BALANCING and purging valve for two-circuit hydronic systems is catalog subject. Typical installations are pictured.—Bell & Gossett Co.

Circle No. 150 on reply card, p. 11

FIBER DUCT for slab perimeter heating, cooling. Four-page brochure also shows uses for combination heating and cooling systems. Duct can be fitted at job.—Sonoco Products.

Circle No. 151 on reply card, p. 11

MINERAL REMOVER to keep furnace humidifiers operating in perfect condition. Folder tells how it removes scale-forming minerals from water supply.—General Water Conditioning.

Circle No. 152 on reply card, p. 11

REGISTERS GRILLES and diffusers are some of 9 major items discussed in this catalog. Metal clothes chute doors and door louvers are also covered.—Auer Register Co.

Circle No. 153 on reply card, p. 11

ROOM THERMOSTATS are discussed in four-page, full-color folder. Back page is fully detailed, lists specifications and other pertinent matter on types available.—White-Rogers Co.

Circle No. 154 on reply card, p. 11

Heating & cooling systems

AIR CONDITIONING UNIT, through-the-wall type, features hermetically sealed refrigerant cycle chassis. Six-page brochure illustrates design advantages of steel cabinet, aluminum fixed louvers and frame.—Modine.

Circle No. 155 on reply card, p. 11

COMPLETE LINE of commercial refrigeration equipment is presented in 16-page catalog. Contains pictures, full descriptions and concise tables.—McQuay, Inc.

Circle No. 156 on reply card, p. 11

DUAL VECTOR for heating and cooling with water is diagrammed in four-page bulletin inside thick catalog. Controlled either automatically or manually.—Kritzer Radiant Coils.

Circle No. 157 on reply card, p. 11

HEATING and cooling catalog gives specs and illustrations on complete line. Covers gas and oil burners, furnaces, gas unit heaters, outdoor gas lamps and central air conditioning equipment.—Roberts-Gordon.

Circle No. 158 on reply card, p. 11

REFRIGERATION equipment for air conditioning reference chart lists more than 195 units. Also includes 166 a/c products 32 gas and oil-fired furnaces.—Typhoon Air Conditioning.

Circle No. 159 on reply card, p. 11

WINTER HEATING and summer cooling equipment are main subject of catalog here. Each piece of equipment has accompanying photo, description and specifying data.—Mueller Climate Control Div.

Circle No. 160 on reply card, p. 11

WINTER AIR CONDITIONER pictured in colorful folder. Series features uncluttered exterior casing. Radiator is baffled to reduce stack temperature and save fuel.—Waterman-Waterbury Co.

Circle No. 161 on reply card, p. 11

ZONED HYDRONIC and electric heating and cooling equipment. Covered in 12-page catalog giving descriptions, technical data and installation suggestions.—Edwards Engineering.

Circle No. 162 on reply card, p. 11

Heating systems

BASEBOARD HEATING and accessories are subject of four-page brochure for builder and remodeler.—Ritling Corp.

Circle No. 163 on reply card, p. 11

ELECTRIC HEATING equipment described in full color, six-page brochure. Features operating data on forced air baseboard, convection baseboard, wall insert and bathroom heating units.—Hunter Div., Robbins & Myers, Inc.

Circle No. 164 on reply card, p. 11

ELECTRIC HEATING equipment for residential, commercial applications. Contains complete information.—Edwin L. Wiegand Co.

Circle No. 165 on reply card, p. 11

GAS-FIRED winter air conditioner, designed for homes without basements. Comes completely assembled and wired. Can be installed on concrete slab or crawl space foundation. Described in thick catalog with specifications.—Bard Mfg. Co.

Circle No. 166 on reply card, p. 11

HEAT PUMP is described and method of installation shown in six-page brochure. Available in two-ton capacities and up for residential, commercial use.—Perfection Div., Hupp Corp.

Circle No. 167 on reply card, p. 11

HOT WATER HEAT system without plumbing is explained in four-page brochure. Electric baseboard heat system available in floor model. Units are built into floor-recessed cabinets.—International Oil Burner Co.

Circle No. 168 on reply card, p. 11

OIL BURNER combines control of turbulence with amount of air admitted. Catalog sheet explains how fingertip micrometer makes accurate air adjustment easy. Complete brochure covers furnaces and summer air conditioning equipment.—Armstrong Furnace Co.

Circle No. 169 on reply card, p. 11

OIL FURNACE featuring clean oil flame is explained in four-page folder. Designed to result in substantial fuel savings, eliminate almost all service calls.—Iron Fireman Mfg. Co.

Circle No. 170 on reply card, p. 11

ROTARY BURNERS are described in bulletin here. Fully automatic, metering pump unit fires on oil only, gas only or combination gas and oil.—S. T. Johnson Co.

Circle No. 171 on reply card, p. 11

Incinerators

ELECTRIC INCINERATOR for basement, utility room or garage. Folder describes performance, gives specifications. Capacity: 1.5 bushels.—Calcinator Corp.

Circle No. 172 on reply card, p. 11

SMALL INCINERATOR, designed to blend with modern home layouts described in 16-page brochure. Two-burner unit is refractory lined, stays cool on outside. Features automatically controlled gas system.—Brule Incinerators.

Circle No. 173 on reply card, p. 11

Instruments, surveying

COMPLETE LINE of instruments, tripods and accessories are described and pictured. Level-transits are available in a wide range of prices and models.—David White Instrument Div.

Circle No. 174 on reply card, p. 11

SURVEYING INSTRUMENTS are thoroughly covered in well-organized catalog. Engineering supplies, field equipment and drafting supplies are completely illustrated.—Warren-Knight Co.

Circle No. 175 on reply card, p. 11

Insulation

BUILDING INSULATION is summarized in 42-page brochure. Filled with data for architects, engineers, students, builders and buyers.—Insulation Board Institute.

Circle No. 176 on reply card, p. 11

FOAMED PRODUCTS, for use in comfort insulation, are offered in this 16-page brochure. Many tables, photos and details appear.—Dow Chemical Co.

Circle No. 177 on reply card, p. 11

INSULATING fiberboard sheathing is described in 12-page brochure. Lists results of racking-strength tests conducted under FHA specifications. Discusses application of various exterior surfaces.—Celotex Corp.

Circle No. 178 on reply card, p. 11

INSULATING GLASS for windows and window walls is subject of semi-technical folder. Gives product characteristics, standard sizes and limitations.—Libbey-Owens-Ford Glass Co.

Circle No. 179 on reply card, p. 11

INSULATION GUIDE for electric heating is subject of 16-page brochure. Heavily illustrated and detailed. Reflects the "R Factor" information developed by the Mineral Wool Assn. and the National Assn. of Electrical Manufacturers.—National Gypsum Co.

Circle No. 180 on reply card, p. 11

NAIL-BASE SHEATHING of high density is featured in this 12-page booklet. Among advantages cited are strength, low thermal conductivity, high wind resistance, dimensional stability and vapor permeability.—Barrett Div., Allied Chemical Corp.

Circle No. 181 on reply card, p. 11

POLYSTYRENE FOAM is subject of illustrated folder which plays up the wide range of insulation applications.—Gilman Bros. Co.

Circle No. 182 on reply card, p. 11

THERMAL INSULATION products in two basic liner types are covered in concise folder. Chart presents specifications in easy-to-read form.—Wood Conversion Co.

Circle No. 183 on reply card, p. 11

Intercoms

INTERCOM and sound system brochure features wiring and technical information. Fully transistorized system includes AM-FM radio, electronic door chime.—Rittenhouse Co., Inc.

Circle No. 184 on reply card, p. 11

INTERCOM SYSTEM is described in four-page brochure. Seven-station master unit comes equipped with outlet for electrical appliance plug-in and jack for piping phonograph music.—Roberts Mfg. Co.

Circle No. 185 on reply card, p. 11

INTERCOM SYSTEM combines FM-AM radio with clock-timer, hi-fidelity tone and appliance outlet. Described in colored folder. Available in choice of colors.—Talk-A-Radio Sales.

Circle No. 186 on reply card, p. 11

INTERCOM SYSTEMS are described in this literature. Special section for medical buildings. Also covers radio for motels.—Flush Wall Radio Co.

Circle No. 187 on reply card, p. 11

TRANSISTORIZED voice frequency amplifiers are described in four-pager. Operational advantages are discussed as well as applications.—Lynch Communication Systems Inc.

Circle No. 188 on reply card, p. 11

Kitchen cabinets

COLORED CABINETS for the kitchen are featured in twelve-page booklet. Photos show outstanding features of cabinet line.—Mengel Co.

Circle No. 189 on reply card, p. 11

Bronzeglow Birch kitchen cabinets are thoroughly discussed in six-page foldout. Many accessories are also pictured.—H. J. Scheirich Co.

Circle No. 190 on reply card, p. 11

EFFICIENCY KITCHENS are fully covered in 12-page, compact catalog. Shows various models of gas and electric combination appliances. Dimensions are given.—Acme National Sales.

Circle No. 191 on reply card, p. 11

KITCHEN CABINET SET of hardwood is subject of six-page brochure which gives sizes. Has solid birch stable core door and drawer fronts. Interiors completely finished.—Connor Lumber & Land Co.

Circle No. 192 on reply card, p. 11

KITCHEN NOOKS are covered in colorful literature. Space-saving seating, available in Contemporary, Traditional and Early American styles, is fully illustrated.—Dormalux Co. Inc.

Circle No. 193 on reply card, p. 11

SCULPTURED SPICEWOOD line of kitchen cabinets is fully described in colorful catalog. Covers such features as full panelling of cabinet doors, drawer faces and adjustable shelves in all wall cabinets.—I-XI Furniture Co.

Circle No. 194 on reply card, p. 11

WALL CABINETS for kitchens, made from red birch, are featured in four-page color brochure. Finished both outside and inside, with semi-concealed hinges.—Kitchen Kompact.

Circle No. 195 on reply card, p. 11

WOOD KITCHEN cabinets are subject of folder designed to serve as loose-leaf type file for builders, remodelers. Comes with special kitchen planning folder.—Boro Wood Products.

Circle No. 196 on reply card, p. 11

Laundry tubs

FIBERGLASS LAUNDRY TUB, trimmed with stainless steel, is described in four-page brochure. Hoses and connections are concealed at rear. Fits all automatic washers.—Weasels Co.

Circle No. 197 on reply card, p. 11

LAUNDRY TUBS in two models are feature of this brochure. Gives complete specifications for line.—E. L. Mustee & Sons, Inc.

Circle No. 198 on reply card, p. 11

Lighting fixtures

ALUMINUM LOUVER featured in fluorescent lighting catalog. Complete engineering data, cross sections and dimensional data are given.—Powered Co., Inc.

Circle No. 199 on reply card, p. 11

LIGHT CONTROL to regulate light intensity is shown in 24-page, illustrated brochure. Designed to replace ordinary on-off switch.—Superior Electric.

Circle No. 200 on reply card, p. 11

LIGHT DIFFUSING panels listed in colorful, eight-page brochure. Can be used to figure the use and approximate installation costs of luminous ceilings.—Luminous Ceilings Inc.

Circle No. 201 on reply card, p. 11

LIGHTING FIXTURES described and illustrated in thick catalog. Hundreds of fixtures in all sizes, shapes and styles appear in color.—Jay Lighting.

Circle No. 202 on reply card, p. 11

LIGHTING FIXTURES are shown along-side great paintings which inspired customized designs. Descriptions and specs appear in chart form.—Progress Mfg. Co.

Circle No. 203 on reply card, p. 11

PACKAGED luminous ceiling that provides wall-to-wall light source is outlined. Gives outstanding advantages, suggested uses and installation ideas.—Artcrest Products Co. Inc.

Circle No. 204 on reply card, p. 11

Materials handling equipment

DERRICKS AND HOISTS are featured in 16-page catalog. Also covers winches—gas, electric and hand powered. Gives complete data.—Sagen Derrick Co.

Circle No. 205 on reply card, p. 11

EQUIPMENT FOR ROOFERS and contractors is contained in this catalog. Includes beams and power hoists. Improved hydraulic power shovel is shown.—Smith Hoist Mfg. Co., Inc.

Circle No. 206 on reply card, p. 11

LIFT TRUCKS are described in condensed catalog. Covers complete line of gas-powered trucks.—Hyster Co.

Circle No. 207 on reply card, p. 11

PORTABLE HOIST, featuring hydraulic erection by one man in one minute, is covered in this brochure. Designed to sweep up 3000-lb. load at 150 ft. per minute.—Tubular Structures Corp. of America.

Circle No. 208 on reply card, p. 11

SIMPLIFIED catalog-price list shows shovels, spades and scoops. Illustrates each product and lists all pertinent ordering information in one location.—Wood Shovel & Tool Co.

Circle No. 209 on reply card, p. 11

TWO-WHEEL HAND TRUCKS are covered in four-page, illustrated folder giving specifications. A variety of different designs are pictured and described.—Harper Trucks, Inc.

Circle No. 210 on reply card, p. 11

Metal lath

CASING BEADS to create neat flushframe for doors, windows and other openings. Four-page brochure on metal specialties shows how they can be used as terminals for plaster.—Inland Steel Products Co.

Circle No. 211 on reply card, p. 11

METAL LATH and furring catalog outlines basic design criteria for lathing of hollow and solid partitions. Also ceilings, furring, stucco, plaster reinforcements.—Metal Lath Mfrs. Assn.

Circle No. 212 on reply card, p. 11

METAL SPECIALTIES used in construction are shown in eight-page catalog. More than 40 items appear with specifications. Includes framing anchors, timber connectors, steel bridging, ventilators, etc.—Cleveland Steel Specialty Co.

Circle No. 213 on reply card, p. 11

STEEL PLASTER GROUNDS, including casing and corner beads, regular and expanded beads presented in four-pager. Includes simple details and specifications.—Casings, Inc.

Circle No. 214 on reply card, p. 11

Ovens

BUILT-IN GAS and electric ovens are colorfully illustrated. Folder gives brief specifications on matched kitchen appliances. Covers ranges, dishwashers, ventilating hoods and garbage disposers.—Chambers Built-Ins.

Circle No. 215 on reply card, p. 11

BUILT-IN OVENS and tops are featured in colorful folder. Appliances come in six shades. Discusses 14 oven models, 17 drop-in top units.—Tappan Co.

Circle No. 216 on reply card, p. 11

CUSTOM BUILT-IN oven is subject of four-page folder. Clock-controlled unit has oven signal light, one-hour electric timer, control panel lighting.—Magic Chef.

Circle No. 217 on reply card, p. 11

DOUBLE ELECTRIC OVEN, built-in, with both ovens for bake or broil. Shown in four-page color folder with dimensions.—Gray & Dudley.

Circle No. 218 on reply card, p. 11

INDOOR CHARCOAL OVENS, designed to broil without flame, are covered in brochure showing portable models.—Hasty-Bake.

Circle No. 219 on reply card, p. 11

Paints, finishes, coatings

PAINT, VARNISH, stain and enamel products are discussed in handy, pocket-size catalog. Each item is indexed for speedy reference, described in concise manner.—Pratt & Lambert.

Circle No. 220 on reply card, p. 11

PAINTING ECONOMY is subject of handy booklet. Three basic areas for savings are stressed: labor, material and durability.—Barreled Sunlight.

Circle No. 221 on reply card, p. 11

PROTECTIVE SURFACINGS for walls and floors are depicted in eight-page catalog. Applications described include cement finishes, floor toppings, pool coatings. Also covers cement admixtures and construction adhesives.—Preco Chemical Corp.

Circle No. 222 on reply card, p. 11

WOOD PRESERVATIVE line is covered in eight-page booklet. Gives specific applications. Characteristics of Cuprinol are described along with its advantages in all phases of protecting and preserving wood.—Darworth Inc.

Circle No. 223 on reply card, p. 11

WOOD STAINS, for exterior and interior use, pictured in compact, full-color folder. Covers 48 stains in all.—Olympic Stained Products Co.

Circle No. 224 on reply card, p. 11

Paneling

ASBESTOS building board is one of many products illustrated in this 12-page catalog. Such materials as shingles, siding and tile are colorfully illustrated.—Ruberoid Co.

Circle No. 225 on reply card, p. 11

BUILDING PANELS, of fiberglass and nylon reinforced plastic, are shown in eight-page folder. Construction uses include patios, fences, luminous ceilings.—Filon Plastics Corp.

Circle No. 226 on reply card, p. 11

COMPLETE LINE of hardboards for interior and exterior building is presented in colorful brochure.—Weyerhaeuser Co.

Circle No. 227 on reply card, p. 11

DECORATIVE LAMINATE is thoroughly covered in 22-page technical data brochure. Many applications of Panelyte are shown in detail, and complete specs are given. Material is excellently organized.—St. Regis Paper Co.

Circle No. 228 on reply card, p. 11

HARDBOARD portfolio includes brochure for each type of hardboard. Also gives nailing and finishing data.—Forest Fiber Products Co.

Circle No. 229 on reply card, p. 11

HARDWOOD PANELS are subject of small, four-color brochure. Available in many woods and finishes.—Industrial Plywood Co., Inc.

Circle No. 230 on reply card, p. 11

HARDWOOD PLYWOODS are featured in 12-page, colorfully illustrated brochure. Four paneling types are described and examples of each are pictured.—Roddie Div., Weyerhaeuser.

Circle No. 231 on reply card, p. 11

LUXURY LOOK (an aim of building with hardboard) shown in six-page folder. Colored illustrations show natural walnut, oak grain and platinum walnut finishes.—Abitibi Corp.

Circle No. 232 on reply card, p. 11

PANELING made with a plastic finish for walls and ceilings. Eight-page booklet includes color samples. Stays clean with only occasional damp cloth wiping.—Marsh Wall Products.

Circle No. 233 on reply card, p. 11

PHILIPPINE MAHOGANY for interiors appear in many shades in this full-color folder. Also contains detailed instructions for finishing.—Philippine Mahogany Assn.

Circle No. 234 on reply card, p. 11

PINE PANELING is covered in full-color booklet. Describes new paneling patterns available in Arkansas soft pine.—Fordyce Lumber Co.

Circle No. 235 on reply card, p. 11

TEXTURED PLYWOOD for interiors featured in wide-ranging 54-page catalog. Shows deep, random-width grooves cut full length on the panel. Butt joints and nail holes are concealed.—United States Plywood Corp.

Circle No. 236 on reply card, p. 11

TRANSLUCENT PANELS, of glass-reinforced plastic, are discussed in four-page folder. Applications include roofing, partitions, fences, screens and shower doors.—Alsynite Div.

Circle No. 237 on reply card, p. 11

WALL AND CEILING panels of translucent fiberglass are explained in descriptive folder. Architectural specification guide is featured.—Bardite Corp.

Circle No. 238 on reply card, p. 11

WALL COVERINGS in a variety of designs are described in four-page folder. Vinyl material is portrayed with eye toward decorating schemes. Range is from tone-on-tone harmonies to metallic contrasts.—L. E. Carpenter & Co., Inc.

Circle No. 239 on reply card, p. 11

WALL PANELING, prefinished, is colorfully shown in four-page folder. Gives applications, installation suggestions.—Southwood Corp.

Circle No. 240 on reply card, p. 11

Planning

BASEMENT PRE-PLANNING booklet features practical, flexible basement plans. Profusely illustrated. Tells how to plan light, ventilation, etc.—Bilco Co.

Circle No. 241 on reply card, p. 11

BATHROOM PLANNING booklet contains best ideas of "dream bathroom" contest. Decorator color patches appear, along with a variety of plans.—Eljer Div.

Circle No. 242 on reply card, p. 11

HOUSE PLAN catalog lists books that illustrate hundreds of well-planned homes in all price ranges. Books cover all sizes and styles.—Nationwide Plan Book Co.

Circle No. 243 on reply card, p. 11

KITCHEN IDEA BOOKLET discusses "how to plan a trend setting kitchen" in 24 color pages. Full of photos on outstanding kitchens throughout the country.—Revco, Inc.

Circle No. 244 on reply card, p. 11

Plumbing, water supply

COPPER PIPE and tube products for plumbing, heating and air conditioning are described here. Thick manual contains many tables.—Anaconda American Brass Co.

Circle No. 245 on reply card, p. 11

PERFORATED PIPE described along with its uses and directions for installation in 18-page color booklet. Pipe is of bituminized-fibre construction.—Brown Co.

Circle No. 246 on reply card, p. 11

SELF-PRIMING centrifugal pumps and fire pumps are among catalog subjects. Also covers electric-powered / belt-driven pumps and masonry splitters.—Rice Pump & Machinery Co.

Circle No. 247 on reply card, p. 11

SELF-PRIMING PUMPS are analyzed in four-page folder that explains advantages. Lightweight units are shown in detail.—Midland Products Co.

Circle No. 248 on reply card, p. 11

SEWAGE TREATMENT plant for small subdivisions is discussed in thick manual. Plant comes in 27 standard sizes. Manual contains notes on design, engineering data, installation.—Smith & Loveless.

Circle No. 249 on reply card, p. 11

SUBMERSIBLE PUMP is subject of four-page folder. Impeller and diffuser assemblies are made from new non-absorbent synthetic corrosion-resistant material.—Flint & Walling.

Circle No. 250 on reply card, p. 11

WELL SUPPLY equipment catalog ranges from adapters to yard hydrants in 50 pages. Features alphabetical and trade number index.—Clayton Mark.

Circle No. 251 on reply card, p. 11

Plywood

DECORATIVE PLYWOOD is subject of 20-page catalog. Covers factory finished hardwood, softwood, textured and imported plywood paneling types.—Georgia-Pacific Corp.

Circle No. 252 on reply card, p. 11

PLYWOOD for cabinets is among subjects of 12-page trade association booklet. Lists hardwood plywood manufacturers in U.S. and Canada.—Hardwood Plywood Institute.

Circle No. 253 on reply card, p. 11

PLYWOOD COMPONENT research house, a complete case history, covered in well-illustrated, 16-page brochure. Gives details of planning, design and engineering of six varieties of components.—Douglas Fir Plywood Assn.

Circle No. 254 on reply card, p. 11

VARIETY of plywoods are depicted in full-color, 16-page catalog. Gives complete specifications for line in up-front section.—Simpson Timber Co.

Circle No. 255 on reply card, p. 11

Range hoods

DUAL-BLOWER HOOD for kitchen range, pre-assembled at factory, is shown in four-page color folder. Has aluminum filters.—Brown Mfg. Co.

Circle No. 256 on reply card, p. 11

DUCTLESS HOODS are described in four-page catalog which explains advantages of product. Five construction features are shown. Includes installation, maintenance and operation data.—Ductless Hood.

Circle No. 257 on reply card, p. 11

QUALITY VENTILATOR, factory wired and complete in one unit, pictured in eight-page brochure giving diagrams. Hood has built-in fan, filter to spread air pickup and reduce noise.—Vent-A-Hood Co.

Circle No. 258 on reply card, p. 11

RANGE HOODS and ventilators are specified in four-page folder. Features suggested multi-vent installations for built-in ranges and ovens.—Stewart Industries, Inc.

Circle No. 259 on reply card, p. 11

Reinforcing materials

DRYWALL ACCESSORIES are explained in six-page brochure. Stress is on reinforcement and true alignment that installation of products contributes in dry-wall construction.—Beadex Sales Inc.

Circle No. 260 on reply card, p. 11

MASONRY WALL reinforcement device features trussed design that increases wall strength. Technically described in four-page folder. Data on self-sealing neoprene rapid control joint is also included.—Dur-O-Wal.

Circle No. 261 on reply card, p. 11

MORTAR JOINT reinforcement is subject of this four-page folder. Drawings show various applications.—Lenawee Peerless.

Circle No. 262 on reply card, p. 11

Roofing & accessories

ASBESTOS CEMENT structural sheet that bends over obstructions and around corners is described in four-page.—Kearsey & Mattison Co.

Circle No. 263 on reply card, p. 11

ALUMINUM GUTTER SYSTEM is described in six-page folder which gives installation methods.—Aluminum Co.

Circle No. 264 on reply card, p. 11

FLASHINGS for all building applications are discussed in copper-colored brochure. Comprehensive chart simplifies specifying task.—Wasco Products Inc.

Circle No. 265 on reply card, p. 11

LAMINATED roof decking is subject of 20-page booklet. Covers such factors as application, engineering and design data, and suggested specifications.—Potlatch Forests Inc.

Circle No. 266 on reply card, p. 11

PLASTIC roofing system designed for roofs with unusual contours. General specifications are included for roof coating on concrete as well as coating on plywood.—Caram Mfg. Co.

Circle No. 267 on reply card, p. 11

PRECAST CONCRETE roof and floor channels are covered in four-page catalog. Charts show allowable superimposed loads in pounds/sq. ft.—George Rackle & Sons Co.

Circle No. 268 on reply card, p. 11

ROOF SYSTEMS are described in fact-packed, eight-page catalog. Gives detailed data on lightweight roof decks and roof insulation.—Zonolite Co.

Circle No. 269 on reply card, p. 11

TERNE ROOFING is subject of eight-page booklet with many details and photos. Advantages of terne are listed together with physical specifications.—Follansbee Steel Corp.

Circle No. 270 on reply card, p. 11

VERMICULITE CONCRETE roof insulation is subject of three technical sheets. Two give data and short form specification for the 1:6 and 1:8 mix. Third presents load tables.—Vermiculite Institute.

Circle No. 271 on reply card, p. 11

WIDE RANGE of products is covered in this eight-page, illustrated brochure. Describes roofing shingles, built-up roofing, siding, etc.—Philip Carey.

Circle No. 272 on reply card, p. 11

Roofing, shingles

ASPHALT SHINGLES, mineral reinforced to provide extra protection and long life, are presented in colorful 12-page booklet.—Bird & Son, Inc.

Circle No. 273 on reply card, p. 11

CEDAR SHAKE SIDING is discussed in full-color folder. Gives merits of refinishing. Technical data contained on separate sheet.—Shake-A-Ply Co.

Circle No. 274 on reply card, p. 11

RED CEDAR SHINGLES and machine-grooved shakes are covered in colorful pamphlet. Four-page sheet provides information on selection, application.—Red Cedar Shingle Bureau.

Circle No. 275 on reply card, p. 11

RED CEDAR UNITS for use in building weathertight shingle sidewalls are offered in a four-page brochure. Explains features that speed construction.—Shakertown Corp.

Circle No. 276 on reply card, p. 11

Scaffolding

ADJUSTABLE TRESTLE of steel comes in eight sizes, ranging from 16" to 12". Each has height adjustments at approximately 3" intervals.—Steel Scaffolding Co., Inc.

Circle No. 277 on reply card, p. 11

SCAFFOLDING, featuring rapid locking, is shown in 20-page, illustrated booklet. Covers many phases.—Waco Mfg. Co.

Circle No. 278 on reply card, p. 11

Siding

ALUMINUM SIDING, horizontal and vertical, is shown in four-page folder. Installation details facilitate working with product.—Keystone Alloys.

Circle No. 279 on reply card, p. 11

ALUMINUM SIDING brochure shows typical installations. Four-color booklet also presents details of construction, shows six colors available.—Season-All.

Circle No. 280 on reply card, p. 11

BEVEL SIDING is one of many lumber products depicted in 20-page booklet. Available in Western Red Cedar, Sitka Spruce, White Fir, Douglas Fir and West Coast Hemlock.—West Coast Lumbermen's Assn.

Circle No. 281 on reply card, p. 11

CLAPBOARD SIDING of aluminum is presented in well-organized pamphlet. Accessories and application of the siding are illustrated.—Lyt-Alum, Inc.

Circle No. 282 on reply card, p. 11

SIDING, offered in a wide range of styles, is depicted in four-color, eight-page book.—Masonite Corp.

Circle No. 283 on reply card, p. 11

SIDING bulletin discusses paint-primed redwood siding. Cost-savings are detailed.—Pacific Lumber Co.

Circle No. 284 on reply card, p. 11

Sinks

SINK AND COUNTER made from stainless steel. Four-page brochure shows entire top-front flange, deck surface and backsplash—formed from one metal sheet.—Just Mfg. Co.

Circle No. 285 on reply card, p. 11

STAINLESS STEEL SINK is subject of four-page, illustrated brochure. Pictured with precision-formed bottom and special rim to minimize splash.—Aerona Mfg. Corp.

Circle No. 286 on reply card, p. 11

TWIN BOWL SINK of polished stainless steel is offered in six sizes. Illustrated folder gives specifications and diagrams. Narrow center partition and oval-shaped bowls.—Jensen-Thorsen Corp.

Circle No. 287 on reply card, p. 11

Specialties, misc.

BUILT-IN CENTRAL cleaning system is thoroughly covered in four-page folder. Uses stationary vacuum power unit.—H-P Products Inc.

Circle No. 288 on reply card, p. 11

CLOTH LETTER BANNERS, to advertise new homes, are shown in four-page brochure. Any message, including numbers, can be furnished and displayed in hundreds of ways.—Midland Plastics Co.

Circle No. 289 on reply card, p. 11

DISAPPEARING stairways in four wood models are illustrated in well-organized folder. Units give easy access to upper floor.—Bessler Disappearing Stairway.

Circle No. 290 on reply card, p. 11

GLASS BLOCKS, with emphasis on color, are subject of this 16-page, illustrated booklet. Stress is placed on light control, noise reduction and ease of installation.—Owens-Illinois.

Circle No. 291 on reply card, p. 11

METAL SPECIALTIES in garden and patio furniture are among subjects covered in 52-page catalog. Features many ornamental iron products.—Tennessee Fabricating Co.

Circle No. 292 on reply card, p. 11

SUBSTITUTE GLASS items, such as plastic coated screen cloth, are featured in thick catalog. Swatches of materials are enclosed. Also covers door knockers, etc.—Peerless Mfg.

Circle No. 293 on reply card, p. 11

Switches, switching systems

LOW-VOLTAGE switching systems are subject of brochure. Covers all phases—from designing system to final installation.—Touch-Plate Mfg. Corp.

Circle No. 294 on reply card, p. 11

REMOTE CONTROL switching system with built-in pilot lights requiring no additional wiring shown in eight-page brochure. Each relay operates independently.—Pyramid Instrument Corp.

Circle No. 295 on reply card, p. 11

SELECTOR SWITCH offered in 16-page book on remote control wiring. From one location, turns up to nine lights on or off.—General Electric Co.

Circle No. 296 on reply card, p. 11

Tile, floor, wall & ceiling

CERAMIC TILE is thoroughly examined in thick catalog. Illustrates complete color line of glazed, unglazed and quarry tile. Specifying material gives

types, descriptions and uses.—American Olean Tile Co.

Circle No. 297 on reply card, p. 11

CERAMIC TILE workbook (40 pages) describes, illustrates glazed wall tile, unglazed and glazed ceramic mosaics, quarry tile and bathroom accessories.—Mosaic Tile Co.

Circle No. 298 on reply card, p. 11

CERAMIC TILE merchandising program is subject of large brochure. Many photos show how program has worked in past.—Stylon Corp.

Circle No. 299 on reply card, p. 11

CLAY ROOFING TILES are subject of this catalog. Gives many patterns, textures, colors.—Ludowici-Celadon Co.

Circle No. 300 on reply card, p. 11

CORK TILE and other flooring products are covered in small brochure. Shows selection and advantages of some of the patterns available.—Dodge Cork.

Circle No. 301 on reply card, p. 11

FLOOR AND WALL TILE folder colorfully presents three lines, with emphasis on decorator tile. Tile selector chart facilitates choice of products.—Pomona Tile.

Circle No. 302 on reply card, p. 11

FLOOR TILE cushioned in a rubber grid is discussed in colorful four-page folder. Advantages of flooring are described, and 12 patterns are shown.—United States Ceramic Tile Co.

Circle No. 303 on reply card, p. 11

RESILIENT FLOOR TILE made from vinyl asbestos. Eight-page, illustrated booklet shows colors and patterns. Features dense, closely textured surface. Architectural specifications are included.—Arocc Floor Products.

Circle No. 304 on reply card, p. 11

TERRAZZO AND MOSAIC kit contains data and specifications for architectural floor finish. Includes details on many other uses of terrazzo.—National Terrazzo & Mosaic Assn.

Circle No. 305 on reply card, p. 11

VINYL floor and wall tile for residential and commercial use is subject of eight-page catalog.—Vinyl Plastics Inc.

Circle No. 306 on reply card, p. 11

WALL TILE DESIGN is featured in five-color folder. Shows 4 1/4" by 4 1/4" wall tile in complementing colors.—Wheeling.

Circle No. 307 on reply card, p. 11

Tools, cutting

CHAIN SAWS are pictured and described in this 20-page catalog. Contains specification tables, covers accessories, attachments.—Remington Arms Co., Inc.

Circle No. 308 on reply card, p. 11

CUSTOM CUTTER for all kinds of wood is described in four-page folder. Also suitable for such materials as formica and rubber baseboard.—Dosch.

Circle No. 309 on reply card, p. 11

DIAMOND BLADE for cutting masonry material and sawing concrete and asphalt. Four-page folder tells how to install, how to use.—Eveready Brik saw Co.

Circle No. 310 on reply card, p. 11

MASONRY SAWS, blades are emphasized in a four-page catalog. Stresses advantages of being able to position cutting head without turning off the motor.—Clipper Mfg. Co.

Circle No. 311 on reply card, p. 11

NEW IDEAS for cutting and handling building materials are illustrated in 20-page catalog.—DeWalt, Inc.

Circle No. 312 on reply card, p. 11

PORTABLE masonry saw is featured in brochure on masonry cutting saws. Lightweight tool performs variety of jobs. Features and advantages are listed and illustrated.—Eveready Brik saw Co.

Circle No. 313 on reply card, p. 11

TRIMMER for small cutting jobs is covered in bulletin showing basic cuts. Designed to fit trim moulding around windows and doors, to cut in baseboards. Requires no electrical power.—Footstuck Corp.

Circle No. 314 on reply card, p. 11

Tools, fastening

AUTOMATIC NAILERS are illustrated in 16-page catalog. Fasteners from 3/8" to 2" long and over 100 guns to drive them are shown.—Spotanils, Inc.

Circle No. 315 on reply card, p. 11

STAPLING EQUIPMENT is fully described in 32-page manual. Complete line covers hand-operated and air-driven equipment.—Fastener Corp.

Circle No. 316 on reply card, p. 11

STUD DRIVER used in fastening to concrete and steel. Eight-page brochure describes variety of operations.—Gregory Industries, Inc.

Circle No. 317 on reply card, p. 11

Tools, masonry, plaster & drywall

DRYWALL finishing unit is pictured in folder giving full specifications. Emphasis is placed on decorative finishing and texturing.—Glover Mfg.

Circle No. 318 on reply card, p. 11

EQUIPMENT LINE for contractors is concisely covered in bulletin. Describes and pictures power trowel, power tamper, power buggy.—Kelley Machine.

Circle No. 319 on reply card, p. 11

TOOLS AND EQUIPMENT for the trowel trades are illustrated, described in 64-page catalog. This includes cement finishing, drywall, masonry, plaster, tile and lath.—Goldblatt Tool Corp.

Circle No. 320 on reply card, p. 11

Tools, metalworking

METAL CUTTING SHEAR, illustrated in four-page folder, has air-trigger throttle to control speed. Automatic start-stop lubrication from oil reservoir in handle.—Stanley Electric.

Circle No. 321 on reply card, p. 11

METALWORKING TOOL catalog covers entire line of punches, brakes, shears and machinery. Loose-leaf book contains many photos and specification chart.—Whitney Metal.

Circle No. 322 on reply card, p. 11

Tools, power

HEAVY-DUTY electric tools are pictured in 12-page brochure. Specifications in chart form are given for saws and polishers, portable and bench-type grinders, and gas-driven generator sets.—Milwaukee Electric.

Circle No. 323 on reply card, p. 11

PORTABLE POWER tools are given full descriptions, specifications in this catalog. Covers drills, circular saws, sabre saw, trimmer.—American Power.

Circle No. 324 on reply card, p. 11

PORTABLE air-powered and electric tools are fully covered in 72-page catalog. Sections treat drilling, fastening, special tools, accessories.—Buckeye Tools Corp.

Circle No. 325 on reply card, p. 11

POWER TOOLS are fully presented in colorful, 88-page catalog. Complete line includes circular saws, jointers, band saws, radial saws, sanders.—Rockwell Mfg. Co.

Circle No. 326 on reply card, p. 11

POWER TOOLS, portable electric and pneumatic, are covered in 69-page catalog. Contains descriptions, illustrations and detailed specs of complete line.—Skill Corp.

Circle No. 327 on reply card, p. 11

Tools, woodworking

MULTI-POSITION VISES are described in large brochure. All accessories are shown and described.—Versa-Visc.

Circle No. 328 on reply card, p. 11

WOODWORKING power tools are subject of descriptive catalog. Covers circular saws, jointers, drill presses, sanders, jig and band saws.—Atlas Press Co.

Circle No. 329 on reply card, p. 11

WOODWORKING power tools for on-the-site and in the shop. Literature covers table saws, jointers, planers, shapers, sanders, band saws, drill presses and mortiser.—Boice-Crane Co.

Circle No. 330 on reply card, p. 11

Trucks

DIESEL TRUCK line is illustrated in full-color, six-page brochure containing specifications. Describes six diesel engines available.—Diamond T Motor Truck Co.

Circle No. 331 on reply card, p. 11

PICKUP TRUCKS shown in well-illustrated, full-color folder. Small model said to make more than 30 miles per gallon. Features bolt-on front fenders, has 800-lb. capacity.—Ford Motor.

Circle No. 332 on reply card, p. 11

TRUCKS are described fully in this colorful brochure, with technical data and specifications. Types covered include pick-up, six-passenger pick-up, panel and station wagon.—Volkswagen.

Circle No. 333 on reply card, p. 11

Tubing, steel

TUBING and its applications are explained in illustrated six-page brochure. Incorporates extensive tabular material and application data.—Espro Tubing.

Circle No. 334 on reply card, p. 11

WEIGHT COMPUTATIONS for welded steel tubing can be obtained from tables in 16-page brochure. Tables give dimensions and weight per foot for three types of tubing.—Jones & Laughlin Steel Corp.

Circle No. 335 on reply card, p. 11

Vapor barriers

GROUND CONTACT vapor barrier is shown in four-page brochure. Contains architectural tracer drawings. Also gives recommended architect specification forms.—Glas-Kraft, Inc.

Circle No. 336 on reply card, p. 11

POLYETHYLENE FILM as a water vapor barrier is stressed in illustrated booklet. Details and specifications for the film are given.—Viking Co.

Circle No. 337 on reply card, p. 11

Waterproofing

WATERPROOFING SYSTEM involving both corrective and protective treatments for masonry is explained in excellently organized, 20-page guide.—Standard Dry Wall Products.

Circle No. 338 on reply card, p. 11

WEATHERPROOFED COATING for concrete and masonry is described in four-page folder. Contains illustrations of waterproofed buildings.—Western Waterproofing Co.

Circle No. 339 on reply card, p. 11

Windows

ALUMINUM WINDOWS in 22 styles are presented in colorful 28-page catalog.—Southern Sash.

Circle No. 340 on reply card, p. 11

AWNING WINDOWS are main subject of 28-page catalog. Residential, commercial and institutional windows are concentrated here.—Ware Laboratories, Inc.

Circle No. 341 on reply card, p. 11

CASEMENT WOOD window units are described in an eight-page brochure which outlines basic units and combinations available.—Malta Mfg. Co.

Circle No. 342 on reply card, p. 11

PLASTIC SLIDING window unit is shown in folder which gives specifications and suggested uses.—Plyco Corp.

Circle No. 343 on reply card, p. 11

STEEL AND ALUMINUM windows are presented in fully-illustrated, 40-page booklet. Included are representative full-size sections, half-size sections, etc.—Ceco Steel Products.

Circle No. 344 on reply card, p. 11

STEEL WINDOWS of many types and sizes, are pictured in 40-page booklet. Specifications and installation details are given.—Republic Steel Corp.

Circle No. 345 on reply card, p. 11

VERSATILITY of aluminum windows is demonstrated in specification sheets. Tear-off features, opening dimensions, screen dimensions, etc. included.—W. M. Products Co.

Circle No. 346 on reply card, p. 11

WINDOW LINES featuring interchangeability of sash and frames is presented in six-page booklet with details.—Curtis.

Circle No. 347 on reply card, p. 11

WOOD AWNING and casement windows are featured in 16-page catalog. Well-organized literature contains complete construction details.—Fred Reuten, Inc.

Circle No. 348 on reply card, p. 11

Window accessories

ALUMINUM AWNINGS for the window and patio are colorfully illustrated in eight-page folder.—Hunter Douglas Div.

Circle No. 349 on reply card, p. 11

AREAWALLS in all sizes and styles are discussed in this catalog. Come with full depth corrugation and roll top safety edges.—Saint Paul Corrugating.

Circle No. 350 on reply card, p. 11

ROLL SCREEN UNIT in two colors, described in pamphlet. Screen-O-Matic runs in hard vinyl channels.—Lockhart Mfg.

Circle No. 351 on reply card, p. 11

WEATHERSTRIPPING, made of extruded aluminum and bronze, is subject of 28-page catalog. Gives dimensioned cross-sectional diagrams and lists specifications.—Zero Weather Stripping Co.

Circle No. 352 on reply card, p. 11

Wiring devices & equipment

CIRCUIT BREAKER devices are featured in thick guide designed to speed ordering. Includes safety switches, service equipment, distribution panels.—Wadsworth Electric Mfg. Co.

Circle No. 353 on reply card, p. 11

COMPLETE LINE of 1,500 electrical wiring devices are described in 84-page catalog. All products are grouped in categories and cross-indexed.—Eagle Electric Mfg. Co., Inc.

Circle No. 354 on reply card, p. 11

MULTI-OUTLET assemblies and lighting equipment are among subjects covered in 152-page catalog and wiring guide. Includes section on National Electric Code.—Wiremold Co.

Circle No. 355 on reply card, p. 11

WIRING DEVICES (abridged edition) catalog gives complete listing of over 600 items.—Levinson Mfg. Co., Inc.

Circle No. 356 on reply card, p. 11

WIRING DEVICES and wall plates are examined in 144-page reference manual. Indexed into 11 sections.—Sierra Electric.

Circle No. 357 on reply card, p. 11

PRODUCTION, erection and transportation of factory-completed "Starlighter" house is covered in 12-page technical bulletin.—Guerdon Industries, Inc.

Circle No. 357-A on reply card, p. 11

Manufacturers are listed under 500 product categories which appear in alphabetical order. For the complete name and address of any manufacturer here, turn ahead to Section 3.

Abrasive Paper & Cloth

American Floor Machines Co
Bay State Abrasive Products Co
Behr-Manning Co
Black & Decker Mfg Co
Carborundum Co
Clarke Floor Machine Co
General Hardware Mfg Co Inc
Merit Products Inc
Minnesota Mining & Mfg Co
Pittsburgh Plate Glass Co
Thor Power Tool Co

Access Doors

(See Doors, Access)

Acoustical Ceilings, Grid

Systems For

American Louver Co
Cupples Products Corp
Eastern Products Corp
Erdie Perforating Co Inc
Macklanburg-Duncan Co
Sommer Metal Craft Corp
Woodside Engineering Co

Acoustical Materials

(See also Plaster, Acoustical)

American Louver Co
Arketex Ceramic Corp
Armstrong Cork Co
Baldwin-Ehret-Hill Inc
Bestwall Gypsum Co
Celotex Corp
Cemex of Arizona
Cupples Products Corp
Curtis Wright Corp Curon Div
E G Building Fasteners Corp
Eastern Products Corp
Erdie Perforating Co Inc
Goodrich B F Co Flooring Products
Gustin-Bacon Mfg Co
Henry W W Co
Insulite Div Minn & Ontario Paper Co
Johns-Manville Corp
Kaiser Gypsum Co Inc
Kensbey & Mattison Co
Lockport Mills Inc
Mastro Plastics Corp
McGuffe Co
Morgan-Wightman Co
Narco Corp
National Gypsum Co
Owens-Corning Fiberglas Corp
Paxton Frank Lumber Co
Pittsburgh Corning Corp
Reynolds Aluminum Supply Co
Reynolds Metals Co
Rigidized Metals Corp
Simpson Timber Co
Sterling Alderfer Co
Taylor Bedding Mfg Co Ins-Cotton Div
Texas Vermiculite Co
Tiger Brands Inc Sub of Basic Inc
United States Gypsum Co
U S Mineral Wool Co
Wood Conversion Co
Zonolite Co

Adhesives

Abesto Manufacturing Co
Afcu Corp
Allied Chemical Corp Barrett Div
Ambroid Co

American Biltrite Rubber Co
American Bitumuls & Asphalt Co
American Sta-Dri Co
Amsterdam Corp
Armstrong Cork Co
Asphalt Corp of America
Azrock Floor Products Div Uvalde Rock
Bangkok Industries Inc
Barclay Mfg Co Inc
Biddle Co
Bird & Son Inc
Borden Chemical Co Div Borden Co
Bruce E L Co
Cabot Samuel Inc
Cambridge Tile Mfg Co
Carey Phillip Mfg Co
Congoleum-Nairn Inc
Consoweld Corp
Crown Tile Corp
Dad & Lad Co
Dasco Co Inc
Dodge Cork Co Inc
DuPont de Nemours & Co Inc E I
Fiberboard Paper Prods Inc
Findley F G Co
Flexrock Co
Flintkote Co
Formica Corp
Fuller H B Co
Gen Tire & Rub Co Bldg Materials Div
Georgia Pacific Corp
Goodrich B F Co Flooring Products
Goodrich B F Industrial Products Co
Goodyear Tire & Rubber Co
Hachmeister-Inc
Henry W W Co
Higgins Industries Inc
Insulite Div Minn & Ontario Paper Co
Johns-Manville Corp
Kentile Inc
Kochton Plywood & Veneer Co Inc
Koppers Co Inc
Madison Glue Corp
Marsh Wall Products Inc
Marvan Corp
Mastic Tile Div Ruberoid Co
McGuffe Co
Midwest Plywood Co
Minnesota Mining & Mfg Co
Miracle Adhesives Corp
Miranco Inc Div
Mirapias Tile Co
Moore Goodloe E Inc
Mortell J W Co
National Casein Co
National Floor Prods Co
Nicholson & Co
Paxton Frank Lumber Co
Pecora Inc
Peterson D J Co Inc
Pittsburgh Plate Glass Co
Plastic Products Co
Plymold Co
Prestile Mfg Co
Roberts Co
Ruberoid Co
St Regis Paper Co Panelyte Div
Schalk Chemical Co
Seick Walter E & Co
Sheffield Bronze Paint Corp
Silvercote Prods Inc
Standard Paste & Glue Co Inc
Stay-Tite Products Co

Steelcote Manufacturing Co
Structural Products Div National Starch
Tamm Industries Co
Tex-A-Panel Mfg Co
Thomas Moulding Floor Co Inc
Tilemaster Corp
Tufcrete Co Inc
United States Ceramic Tile Co
United States Gypsum Co
United States Plywood Corp
United States Rubber Co
Wallace Mfg Co
Wasco Products Inc
Weyerhaeuser Co Roddis Div
Wilson Grant Inc
Wurdack Chemical Co
X-Pando Corp

Aggregates for Roofing

(See Roofing, Aggregates for)

Aggregates, Lightweight

Carborundum Co
Carter-Waters Corp
Eagle-Picher Co
Graybeal C R & Sons
Great Lake Carbon Corp Perlite Dept
Johns-Manville Corp
Norton Co
Texas Vermiculite Co
Tiger Brands Inc Sub of Basic Inc
Vermiculite-Northwest Inc
Waylite Co
Zonolite Co

Air Cleaners

(See also Dehumidifiers)

Albion Div McGraw-Edison Co
American Air Filter Co
Ductless Hood Co Inc
General Cable Corp
Lennox Industries Inc
Major Industries Inc
Minneapolis-Honeywell Regulator
Mueller Climatrol Div Worthington Corp
Radex Corp
Research Products Corp
Rybolt Heater Co
Skuttle Mfg Co
Trion Inc
Westinghouse Electric Corp

Air Compressors

Bell & Gossett Co
C & H Electric Machine Co
Chicago Pneumatic Tool Co
Devilbiss Co
Gardner-Denver Co
Ingersoll-Rand Co
Jaeger Machine Co
Le Roi Div Westinghouse Air Brake Co
Lithbar Co
Master Mechanic Mfg Co
Pittsburgh Plate Glass Co
Thomas Industries Inc Electric Sprayit
United States Air Compressor Co
Worthington Corp

Air Conditioners, Baseboard

Barkow Aug G Mfg Co Inc
Premier Furnace Co
United States Register Co

Air Conditioners, Central

Acme Industries Inc
Airtemp Div Chrysler Corp
Albion Div McGraw-Edison Co

Amana Refrigeration Inc
 American Air Filter Co
 American Furnace Co
 American-Standard Air Conditioning Div
 American-Standard Industrial Div
 American-Standard Plumbing & Heating Div
 Arkla Air Conditioning Corp
 Armstrong Furn Co Div Natl U E
 Bar-Brook Mfg Co
 Bard Mfg Co
 Barkow Aug G Mfg Co Inc
 Bryant Manufacturing Co
 Buffalo Forge Co
 Burnham Corp Heating & Cooling Div
 Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Chattanooga Royal Co
 Clarage Fan Co
 Coleman Co Inc
 Crane Co
 Day & Night Mfg Co
 Delco Appliance Div General Motors
 Dowaglac Steel Furnace Co
 Drayson-Hanson Div Natl U S Rad Corp
 Dunham-Bush Inc
 Embassy Steel Prods Inc
 Gaffers & Sattler
 General Electric Co Air Conditioning
 General Electric Co Major Appliance
 Gilbert & Barker Mfg Co
 Great Northern Mfg Corp
 Halstead & Mitchell
 Heil-Quaker Corp
 Henry Furnace Co
 Holly-General Co Div Siegler Corp
 International Oil Burner Co
 Janitrol Heating & Air Conditioning Div
 Johns-Manville Corp
 Johnson S T Co
 Lennox Industries Inc
 Little H C Burner Co
 Majestic Co Inc
 McQuay Inc
 Meyer Furnace Co
 Miami General Air Conditioning Div
 Morrison Steel Products Inc
 Motor Wheel Corp
 Mueller Climatrol Div Worthington Corp
 Muncie Gear Co
 Niagara Furnace Div Forest City
 Northwest Foundry & Furnace Co
 Olsen C A Mfg Co
 Patten J V Co
 Payne Co
 Pebeco Industries Inc
 Perfection Industries Div Hupp Corp
 Pioneer Mfg Co
 Premier Furnace Co
 Radiation Furnace Corp
 Reflectotherm Inc
 Remington Air Conditioning Div
 Rempe Co
 Roberts Gordon Appliance Corp
 Rybolt Heater Co
 Sequoia Mfg Co
 Smith A O Corp Permaglas Div
 Stewart-Warner Corp Heating & Air Cond Div
 Thatcher Furnace Co
 Thermador Electric Mfg Co
 Toridheet Div Cleveland Steel Products Corp
 Trane Co
 Typhoon Air Conditioning Co Div Hupp Corp
 United States Air Conditioning Corp
 Viking Mfg Corp
 Welbilt Air Conditioning & Heating Corp
 Westinghouse Electric Corp
 Williams Oil-O-Matic Heating Co
 Williamson Co
 Worthington Corp
 York Corp Sub Borg-Warner
 Young Radiator Co
 Zink John Co
Air Conditioners, Room Units
 Admiral Corp
 Airtemp Div Chrysler Corp
 Albion Div
 Amana Refrigeration Inc
 American-Standard Plumbing & Heating Div
 Barkow Aug G Mfg Co Inc
 Brown Prods Co

Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Crane Co
 Delco Appliance Div General Motors
 Drayson-Hanson Div Natl U S Rad Corp
 Emerson Electric Mfg Co
 Emerson-Pryne Co
 Emerson Radio & Phone Corp
 Frigidaire Div General Motors Corp
 General Electric Co Major Appliance Div
 Gibson Refrigerator Sales Corp
 Hotpoint Div
 International Oil Burner Co
 Kelvinator Div American Motors Co
 King Refrigerator Corp
 Kritzer Radiant Coils Inc
 McQuay Inc
 Modine Mfg Co
 Motor Wheel Corp
 Philco Corp
 Remington Air Conditioning Div
 Rybolt Heater Co
 Tuck-Aire Furnace Co
 Welbilt Air Conditioning & Heating
 Welbilt Stove Co
 Westinghouse Electric Appliance Div
 Westinghouse Electric Corp
 Whirlpool Corp
 York Corp Sub Borg-Warner
 Young Radiator Co

Air Conditioning Controls
(See Controls, Heating & Air Conditioning)

Air-Supported Buildings

Birdair Structures Inc
 Reeves Brothers Inc

Alarms, Fire & Burglar

Benjamin Div Thomas Industries Inc
 Diebold Inc
 Edwards Co Inc
 Home Music Systems Inc
 Minneapolis-Honeywell Regulator
 Mosler Safe Co

Aluminum Pipe

(See Pipe & Tubing, Aluminum)

Aluminum Roofing

(See Roofing & Siding, Aluminum)

Aluminum Windows

(See Windows & Doors, Combination)

Anchors, Building

Ackerman Johnson Co
 Adams Co
 Adjusta Post Mfg Co
 Akron Products Co
 Arro Expansion Bolt Co
 Baumgartner Gate Factory
 Bulldog Div Gregory Industries Inc
 Chicago Expansion Bolt Co
 Cleveland Steel Specialty Co
 Conver Steel & Wire Co
 Dayton Sure-Grip & Shore Co
 Diamond Expansion Bolt Co Inc
 Donley Brothers Co
 Flash Bridge Co
 Hawkeye Sales Co
 Holub Industries Inc
 Ideal Hanger Co
 Jordan Industries
 Kees F D Mfg Co
 Laclede Steel Co
 Merwin Mfg Co
 Met-Cro Specialties Co Inc
 Molly Corp
 Nalle Plastics Inc
 Paine Co
 Phillips Drill Co
 Ramset Fastening System
 Rawplug Co Inc
 Reynolds Aluminum Supply Co
 Sommer Metal Craft Corp
 Star Expansion Industries Corp
 Tennison Bros Inc
 Timber Engineering Co
 Timber Fasteners Inc

U S Expansion Bolt Co
 Universal Form Clamp Co
 Vestal Mfg Co
 Wagner Mfg Co
 Wall Plugs Inc
 Woodmack Products Inc
 Yeck Mfg Co

Antennas, TV

Blonder-Tongue Laboratories Inc
 Jerrold Electronics Corp
 R C A Service Co Div of R C A

Appliances, Kitchen

(See Dishwashers, Ovens, Ranges, etc.)

Areawalls & Guards

Acme-Newport Steel Co
 Adams Co
 Adjusta Post Mfg Co
 Armco Drainage & Metal Products
 Cleveland Steel Specialty Co
 Dipcraft Mfg Co
 Donley Brothers Co
 Inland Steel Products Co
 Kewanee Mfg Co
 Majestic Co Inc
 Morgan-Wightman Co
 Saint Paul Corrugating Co
 Syro Steel Co
 Tennison Bros Inc
 United Steel Fabricators Inc
 Vestal Mfg Co
 Wheeling Corrugating Co

Asbestos Cement Board

(See Wallboard, Asbestos Cement)

Asbestos Cement Roofing & Shingles

(See Roofing, Asbestos Cement)

Asphalt Tile

(See Tile, Asphalt, Floor)

Awnings & Canopies, Canvas

(See Canvas, Canvas Products)

Awnings & Canopies, Metal

Berg F O Co
 Bridgeport Brass Co Hunter Douglas Div
 Chamberlin Co of America
 Consolidated General Prod Inc
 Eastern Products Corp
 Hastings Aluminum Products Inc
 Hettrick W E & Son Co
 Humphrey Products Inc
 Jones Shutter Products
 Kawneer Co
 Kingsford Ornamental Building Prods
 Koolvent Metal Awning Corp of America
 Leigh Building Products Div
 Morgan-Wightman Co
 Orchard Bros Inc Alumaroll Products Co
 Panelfab Products Inc
 Regal Products Corp
 Reynolds Aluminum Supply Co
 Security Aluminum Co
 State Metal Awnings Inc
 Troy Sunshade Co
 Victor Tool & Machine Corp
 Winter Seal Corp

Awnings & Canopies, Plastic

Chamberlin Co of America
 Dipcraft Mfg Co
 Filon Plastics Corp
 Jones Shutter Products
 Owens-Corning Fiberglas Corp
 Ray-O-Lite Corp of America
 Reeves Brothers Inc
 Reynolds Aluminum Supply Co
 Structoglas Inc

Backhoes

Allis Chalmers Mfg Constr Mach Div
 American Hoist & Derrick Co
 Badger Div Warner & Swasey Co
 Bucyrus-Erie Co
 Case J I Co
 Equipment Div Young Spring & Wire

Ford Motor Co Tractor & Implement Div
 Gar Wood Industries Inc
 General Engines Co Inc
 Henry Mfg Co Inc
 Hough Frank Co
 Hyster Co
 John Deere Industrial Div
 Koehring Co
 Link-Belt Speeder Corp
 Massey-Ferguson Inc Industrial Div
 Minneapolis-Moline Co
 Northwest Engineering Co
 Oliver Corp
 Parsons Co Div Koehring Co
 Schield Bantam Co
 Tractor Div International Harvester Co
 Wagner Iron Works
 Wood Shovel & Tool Co

Balances, Sash
 (See Sash Balances)

Barricades & Barricade Lights
 Dietz R E Co
 Wagner Mfg Co

Barriers, Vapor
 (See Vapor Barriers)

Bars, Reinforcing
 (See Reinforcing Bars & Mesh)

Base, Mold Metal
 (See Moldings, Metal)

Base, Plastic
 (See Moldings, Plastic)

Base, Rubber
 (See Moldings, Rubber)

Bathroom Accessories
 (See also Vanities, Lavatory)

Kitchen Maid Corp
 Kohler Co
 Lawson F H Co
 Lehman Specialty Co
 Lehon Co
 Major Industries Inc
 McGuffie Co
 Miami Cabinet Div Philip Carey Mfg
 Miraplas Tile Co
 Mirra-Cote Co Inc
 Misceramic Tile
 Morgan-Wightman Co



Mosaic Tile Co
 National Tile & Mfg Co
 National Vanity Co
 Northern Industries Inc
 NuTone Inc
 Owens-Illinois
 Pittsburgh Plate Glass Co
 Powers Regulator Co
 Protectub Inc
 Rayco Products Inc
 Reed Cromex Corp
 Rieter Woodwork Specialty Co
 Sani-Top Inc
 Saniglas Inc
 Sea-Chrome Inc
 Selck Walter E & Co
 Sherle-Wagner
 Speakman Co
 Standard Building Products Co
 Standard Steel Cabinet Co
 Sterling Faucet Co
 Stewart Industries Inc
 Stylon Corp
 Tiffany Mfg Co Inc
 Topcraft Inc
 Trego Industries
 Turner & Seymour Mfg Co
 United States Ceramic Tile Co
 Universal-Rundle Corp
 Wasco Products Inc
 Weis Henry Mfg Co
 Wenzel Tile Co
 White Products Inc
 Williams Products Inc
 Yale & Towne Mfg Co Yale Lock
 Zenith Metal Products Co

Bathtub Covers
 Protectub Inc

Bathroom Fixtures
 (See Plumbing Fixtures)

Bathroom Heaters
 (See Heaters, Bathroom)

Bathtub Enclosures
 (See Doors Shower & Bathtub)

Bathtubs
 (See Plumbing Fixtures)

Bead, Corner Metal
 (See Lath, Metal & Accessories)

Beams, Concrete
 West Allis Concrete Prods Co

Beams, Steel
 (See Steel, Structural)

Beams, Wood Laminated
 Bradley Southern Div Potlatch Forests

Mauk Seattle Lumber Co
 Prefabricated Prods Co Inc
 Rileco Laminated Products
 Super-Structures Inc
 Timber Structures Inc
 Tyle Lumber Mfg Co
 Unit Structures Inc

Bells & Chimes, Door
 (See Door Bells & Chimes)

Birch Lumber
 (See Lumber, Birch)
Bits, Auger
 (See Tools, Carpenter, Hand)
Bits, Saw
 (See Saws)

Blackboards & Chalkboards
 Benjamin Div Thomas Industries Inc
 Davidson Enamel Products Inc
 Ingram-Richardson Mfg Co
 Johns-Manville Corp
 Kochton Plywood & Veneer Co Inc
 Marsh Wall Products Inc
 United States Plywood Corp

Blades, Saw, Circular
 Black & Decker Mfg Co
 Dalton Mfg Co
 Deluxe Saw & Tool Co
 Diston Div H K Porter Co
 General Hardware Mfg Co Inc
 Jones Superior Machine Co
 Milwaukee Elec Tool Corp
 Porter-Cable Machine Co
 Producers & Distributors Inc
 Remington Arms Co Inc
 Rocco Prods Inc
 Rockwell Mfg Delta Power Tool Div
 Simonds Saw & Steel Co
 Skil Corp
 Speedway Mfg Div Thor Power Tool Co
 Stone Machinery Co

Blades, Saw, Masonry
 Bay State Abrasive Products Co
 Black & Decker Mfg Co
 Carborundum Co
 Clipper Mfg Co
 Columbia Brick Works
 DeWalt Inc
 Eveready Briksaw Co
 General Engines Co Inc
 Goldblatt Tool Co
 Milwaukee Elec Tool Corp
 Norton Co
 Simmonds Abrasive Co
 Skil Corp
 Speedway Mfg Div Thor Power Tool Co
 Stone Machinery Co
 Thor Power Tool Co
 Victor Inc

Blocks, Glass
 (See Glass Blocks)

Board, Insulating
 (See Insulating Board)

Boilers, Steam & Hot Water
 (See Heating Systems, Hot Water & Steam)

Bonding Agents, Plaster & Concrete

Abesto Mfg Co
 Allied Chemical Corp Barrett Div
 Allied Compositions Co Inc
 Anti Hydro Waterproofing Co
 Bestwall Gypsum Co
 Camp Co Inc
 Ceresit Corp
 Dasco Co Inc
 Dewey & Almy Chemical Div W R Grace & Co
 Horn A C Companies
 Kay-Tite Co
 Larsen Products Corp
 Maguire Walter Co Inc
 Massey-Ferguson Inc Industrial Div
 National Gypsum Co
 Nu-Wall Mfg Co
 Ohio Lime Co
 Penn Crete Prods Co
 Permagile Corp of America
 Ranetite Mfg Co
 Sika Chemical Corp
 Sonneborn Chemical & Refining Corp
 Standard Dry Wall Products Inc
 Steelcote Manufacturing Co
 Sullivan Co The
 Tammis Industries Co
 Tutcrete Co Inc

KOHLER
 Built-in lavatories
 build up sales

Complete range of
 styles and sizes

KOHLER or KOHLER
 Kohler Co., Kohler, Wis.

American Olean Tile Co
 Amsterdam Corp
 Bemis Mfg Co
 Borg-Warner Corp Ingersoll Humphreys
 Carey Philip Mfg Co
 Carthage Marble Corp
 Cole Prods Corp
 Columbus Plastic Prods Inc
 Cutler Metal Prods Co
 Ekco Products Co Ekco-Autoyre Div
 General Bathroom Products Corp
 General Chrome Inc
 Grant Pulley & Hardware Corp
 Great Northern Mfg Corp
 Grote Mfg Co
 Hall-Mack Co
 Handy Things Mfg Co
 Hollaender Manufacturing Co
 Hoover Bathroom Accessories
 Irmanton Products Co
 Kennatrack Corp Sub Ekco Prods
 Ketcham G M Mfg Corp

United States Gypsum Co
Wurdaek Chemical Co

Books, Building & Plan
(See Plans, Services & Books)

Booster Pumps, Heating
(See Pumps, Booster)

Brass Pipe
(See Pipe & Tubing, Brass)

Breakfast Nooks
(See Nooks, Dining)

Brick, Common & Face

Acme Brick Co
Acme Shale Brick Co Inc
Belden Brick Co
Black Hills Clay Products Co
Bowerston Shale Co
Brookhaven Pressed Brick Mfg Co
Builders Brick Co
Charleston Clay Prods Co
Cherokee Brick & Tile Co
Clay City Pipe Co
Columbia Brick Works
Elgin-Standard Brick Mfg Co
Empress Brick Co Inc
Evans Brick Co
General Clay Products Co
Hanley Co
Harrisville Brick Co
Hattiesburg Brick Works
Hope Brick Works
Humboldt Brick & Tile Co
Illinois Brick Co
Interstate Brick Co
Jenkins Brick Co
Kendrick Brick & Tile Co
Mason City Brick & Tile
Metropolitan Brick Inc
Midland Brick & Tile Co
Moorhead Brick & Tile Co
Nateo Corp
Paxton Brick Co
Peoria Brick & Tile Co
Robinson Clay Product Co
Rockford Brick & Tile Co
Sacramento Brick Co
Standard Brick & Tile Corp
Summit Pressed Brick & Tile Co
Texas Brick Co
United Brick & Tile Co
Watsontown Brick Co
West Virginia Brick Co
Yankee Hill Brick Mfg Co

Brick, Fire

Acme Brick Co
Armstrong Cork Co
Builders Brick Co
Columbia Brick Works
Elgin-Standard Brick Mfg Co
Evans Brick Co
Green A P Fire Brick Co
Interstate Brick Co
Johns-Manville Corp
Kaiser Aluminum & Chemical Corp
Pomona Terra-Cotta Co
Robinson Clay Product Co

Brick Paint
(See Paints & Coatings,
Concrete, Brick, Stucco)

Brick, SCR

Acme Brick Co
Acme Shale Brick Co Inc
Black Hills Clay Products Co
Builders Brick Co
Cherokee Brick & Tile Co
Elgin-Standard Brick Mfg Co
Harrisville Brick Co
Humboldt Brick & Tile Co
Illinois Brick Co
Interstate Brick Co
Mason City Brick & Tile
Metropolitan Brick Inc
Nateo Corp
Peoria Brick & Tile Co
Rockford Brick & Tile Co
Summit Pressed Brick & Tile Co
United Brick & Tile Co

Bridging, Steel
(See Steel, Structural)

Buckets, Clamshell

Johnson C S Co
Koehring Co
Schield Bantam Co

Buckets, Concrete

Bill-Jax Inc
Fortex Industries Inc
Gar-Bro Mfg Co
Johnson C S Co
Koehring Co
Massey-Ferguson Inc Industrial Div
Northwest Metal Products Inc
Reeves Steel & Mfg Co Div
Schield Bantam Co
United States Steel Products Div U S Steel
Wheeling Corrugating Co

Building Paper
(See Paper, Building)

Building Stone

Briar Hill Stone Co
Crab Orchard Stone Co Inc
Empire Stone Co
Finger Lakes Stone Co Inc
Fond Du Lac Stone Co Inc
Indiana Limestone Co Inc

Buildings, Air-Supported
(See Air-Supported Buildings)

Buildings, Metal

Armco Drainage & Metal Products
Belson Mfg Co
Butler Mfg Co
Ceco Steel Prods Corp
Cuckler Steel Span Co
Inland Steel Products Co
International Steel Co
Macomber Inc
Michel & Pfeffer Iron Works Inc
Mueller Products Inc
Panelfab Products Inc
Prefabricated Prods Co Inc
Republic Steel Corp
Republic Steel Corp Truscon Div
Reynolds Aluminum Supply Co
Stran-Steel Corp Div Natl Steel Corp
United States Steel Corp
United Steel Fabricators Inc

Built-in Vacuum Systems
(See Cleaners, Built-in
Vacuum Systems)

Bulldozer Attachments

Caterpillar Tractor Co
Eimco Corp
Ford Motor Co Tractor & Implement Div
Gar Wood Industries Inc
John Deere Industrial Div
Letourneau-Westinghouse Co
Minneapolis-Moline Co
Mixermobile Manufacturers
Tractor Div International Harvester Co

Bulldozers

Allis Chalmers Mfg Constr Mach Div
Arps Corp
Case J I Co
Caterpillar Tractor Co
Drott Mfg Corp
Equipment Div Young Spring & Wire Corp
Eimco Corp
Fleco Corp
Ford Motor Co Tractor & Implement Div
General Engines Co Inc
John Deere Industrial Div
LeTourneau-Westinghouse Co
Massey-Ferguson Inc Industrial Div
Minneapolis-Moline Co
Oliver Corp
Tractor Div International Harvester Co
Wagner Iron Works

Business Systems & Forms

Accountants Supply House
Allied/Egry Business Systems
Autographic Business Forms Inc
Dick A B Co
Diebold Inc

Dodge F W Corp
Ideal System Co
International Business Machines Corp
Momar Industries
Moore Business Forms Inc
National Cash Register Co
Remington Rand Div Sperry Rand
Standard Register Co
Sunroc Corp
Victor Adding Machine Co

Cabinet Hardware
(See Hardware, Cabinet)
**Cabinets, Bookcase & Locker,
Steel**

Alan Wood Steel Co Penco Div
Lyon Metal Products Inc
North East Metal Products Corp

Cabinets, Kitchen
(See Kitchen Cabinets,
Metal or Wood)

Cabinets, Medicine & Bathroom

Atkins Wood Products Corp
Bennett Mfg Co
Carey Philip Mfg Co
Columbia Metal Box Co
Farley & Loetscher Mfg Co
Fuller W P & Co
General Bathroom Products Corp
General Metalcraft Inc Olympia Div
Glass Shower Door Co Inc
Glenn Metal Products Corp
Great Northern Mfg Corp
Grote Mfg Co
Hoover Bathroom Accessories
Ideal Co Mfg Div Wm Cameron & Co
Jensen Industries
Ketcham G M Mfg Corp
Kitchen Maid Corp
Lau Blower Co
Lawson F H Co
Lehoa Co
Lehman Specialty Co
Miami Cabinet Div Philip Carey Mfg
Mirro Chrome Co Inc
Morgan-Wightman Co



National Vanity Co
Ohio Plate Glass Co
Ohio Stamping & Mfg Co
Reynolds Aluminum Supply Co
Rieter Woodwork Specialty Co
Royal Woodwork Inc
Sherle-Wagner
Standard Building Products Co
Standard Steel Cabinet Co
Tiffany Mfg Co Inc
Toledo Plate & Window Glass Co
Topcraft Inc
United Metal Cabinet Corp
Williams Products Inc
Zenith Metal Products Co

Cabinets, Shower
(See Shower Stalls)

Cables, Heating

Emerson-Pryne Co
General Electric Co Constr Mach
Meier Electric & Machine Co Inc
United States Steel Corp
West Electric Heater Co
Wiegand Edwin L Co

Calcium Chloride
(See Concrete, Calcium
Chloride For)

**Calculators, Spacing &
Estimating**

Jeff Jones Co
Rolatape Inc

Canvas, Canvas Products

Berg F O Co
Cabot Samuel Inc
Columbus Coated Fabrics Corp
Fulton Cotton Mills
Goss J C Co
Hettrick W E & Son Co
Hoosier Tarpaulin & Canvas Goods Co
Industrial Canvas Prods Corp
Standard Coated Prods Inc
Troy Sunshade Co
Tucker Duck & Rubber Co
Wilson Grant Inc

Carpeting

American Biltrite Rubber Co
Armstrong Cork Co
Bigelow-Sanford Inc
Fiberboard Paper Prods Inc
Kingston Mills Inc
Luxor Carpet Co
Masland C H & Sons
Smith Alexander

Carports, Prefabricated

Bridgeport Brass Co
Dipcraft Mfg Co
Jones Shutter Products
Kingsford Ornamental Building Prods
Koolvent Metal Awning Corp
Morgan-Wightman Co
Orchard Bros Inc Alumaroll Products Co
Panelfab Products Inc
Pennsylvania Wire Glass Co
Prefabricated Prods Co Inc
Reynolds Aluminum Supply Co
Security Aluminum Co
Unistrut Prods Co

Casing, Metal

(See also Lath, Metal or
Moldings, Metal)

Alabama Metal Lath Co Inc
Bestwall Gypsum Co
Bostwick Steel Lath Co
Casings Inc & Drywall Trim Div
Ceco Steel Prods Corp
Edco Products Inc
Fenestra Inc
Firpine Products Co
Goldsmith Metal Lath Co
Inland Steel Products Co
Miraplas Tile Co
National Gypsum Co
Penn Metal Co Inc
Republic Steel Corp Truscon Div
Rusco Div of F C Russel Co
Tennison Bros Inc
Winter Seal Corp

Cast Iron Pipe

(See Pipe, Cast Iron)

Caulking & Glazing Compounds

Abesto Mfg Co
Allied Chemical Corp Barrett Div
Alside Inc
American Asbestos Product Co
Androc Chemical Co
Anti Hydro Waterproofing Co
Arco Co
Asphalt Corp of America
Baltz Robert N & Co Inc
Bi-Products Corp
Biddle Co
Calbar Inc
Carey Phillip Mfg Co
Central Metal Strip Co
Ceresit Corp
Certain-Teed Products Corp
Chamberlin Co of America
Dad & Lad Co
Dap Inc
Devoe & Reynolds Co Inc
Division Lead Co
Douglas & Sturgess
Flintkote Co
Glidden Co
Henry W W Co
Horn A C Companies Div Sun Chem Corp
Johns-Manville Corp
Kaiser Aluminum & Chemical Corp

Lastik Paint Inc
Lawrence W W & Co
Lucas John & Co Inc
Macklanburg-Duncan Co
Marsh Wall Products Inc
Massey-Ferguson Inc Industrial Div
McGuffie Co
Meadows W R Inc
Miracle Adhesives Corp
Mobile Paint Mfg Co
Monroe Co Inc
Mortell J W Co
National Mfg Corp
Parker Ira & Sons
Parr Paint & Color Co
Pecora Inc
Penko Mfg Co
Penn Crete Prods Co
Pittsburgh Plate Glass Co
Plastic Products Co
Plexstone Corp of America
Presstite Div American-Marietta Co
Quartz Mosaic Inc
Quigley Co Inc
Ranette Mfg Co
Rutland Fire Clay Co
Sager Weatherstrip & Caulking
Schalk Chemical Co
Sherwin-Williams Co
Sika Chemical Corp
Silicone Products Dept
Smooth-On Mfg Co
Sonneborn Chemical & Refining Corp
Stay-Tite Products Co
Steelcote Mfg Co
Sterling Alderfer Co
Sterling Quality Products Inc
Sullivan Co
Tamm Industries Co
Toch Bros
Tremco Mfg Co
Truscon Labs Inc
United Gilsonite Laboratories
United States Gypsum Co
Wilbur & Williams Co
X-Pando Corp

Caulking Gun Loaders

Force-Flo Inc

Cedar Lining, Closets

Brown George C & Co Inc
Chickamauga Cedar Co Inc
DeSoto Hardwood Flooring Co
Georgia Pacific Corp
Giles & Kendall
Kochton Plywood & Veneer Co Inc
Morgan-Wightman Co
Osage Prods Co
Paxton Frank Lumber Co
Plexstone Corp of America
United States Plywood Corp

Ceiling Jacks

(See Jacks, Ceiling)

Ceiling Tile, Acoustical

(See Plaster, Acoustical)

Ceilings, Suspended

(See Lath, Metal)

Cellar Doors

(See Doors, Cellar, Bulkhead,
Metal)

Cement, Keenes

Bestwall Gypsum Co
Celotex Corp
Flintkote Co
National Gypsum Co
Ohio Lime Co
United States Gypsum Co

Cement, Masonry

Alpha Portland Cement Co
Ash Grove Lime & Portland Cement Co
Corson G & W H Inc
Dasco Co Inc
Dewey Portland Cement Co
Flintkote Co
General Portland Cement Co
Ideal Cement Co
Kay-Tite Co

Kosmos Portland Cement Co
Lehigh Portland Cement Co
Lone Star Cement Corp
Longview Lime Corp
Louisville Cement Co
Marquette Cement Mfg Co
Medusa Portland Cement Co
Permanente Cement Co
Pittsburgh Plate Glass Co
Southern Cement Co American-Marietta
United States Steel Corp
Universal Atlas Cement Div U S Steel Corp
X-Pando Corp

Cement, Portland

Alpha Portland Cement Co
Ash Grove Lime & Portland Cement Co
Columbia Brick Works
Dewey Portland Cement Co
Flintkote Co
General Portland Cement Co
Ideal Cement Co
Kosmos Portland Cement Co
Lehigh Portland Cement Co
Lone Star Cement Corp
Louisville Cement Co
Marquette Cement Mfg Co
Medusa Portland Cement Co
Permanente Cement Co
Pittsburgh Plate Glass Co
Southern Cement Co American-Marietta
United States Steel Corp
Universal Atlas Cement Div U S Steel Corp

Cement, Roofing

Abesto Mfg Co
Allied Chemical Corp Barrett Div
American Asbestos Product Co
Bird & Son Inc
Borden Chemical Co Div Borden Co
Carey Phillip Mfg Co
Celotex Corp
Certain-Teed Products Corp
Dad & Lad Co
Flexrock Co
Flintkote Co
Fry Lloyd A Roofing Co
Henry W W Co
Horn A C Companies Div Sun Chem Corp
Johns-Manville Corp
Koppers Co Inc
Lastik Paint Inc
Lehon Co
Logan-Long Co
National Mfg Corp
Pecora Inc
Pittsburgh Plate Glass Co
Presstite Div American-Marietta Co
Ruberoid Co
Rutland Fire Clay Co
Sonneborn Chemical & Refining Corp
Sullivan Co
Surfco Sales Co
Tremco Mfg Co
United Gilsonite Laboratories
United States Gypsum Co
United States Steel Corp

Cement, Tile, Mastic Type

Alloy Tile Corp
American Biltrite Rubber Co
Amsterdam Corp
Armstrong Cork Co
Azrock Floor Prods Div Uvalde Rock
Barclay Mfg Co Inc
Borden Chemical Co Div Borden Co
Crown Tile Corp
Dasco Co Inc
Douglas & Sturgess
Flintkote Co
Hachmeister-Inc
Henry W W Co
Lastik Paint Inc
Marsh Wall Products Inc
Mastic Tile Div Ruberoid Co
McGuffie Co
Minnesota Mining & Mfg Co
Miracle Adhesives Corp
Miraplas Tile Co
Moore Goodloe E Inc
Pecora Inc
Pittsburgh Plate Glass Co

Plastic Products Co
Prestile Mfg Co
Reardon Co
Robbins Floor Products Inc
Schalk Chemical Co
Selck Walter E & Co
Standard Paste & Glue Co Inc
Tamms Industries Co
United States Ceramic Tile Co
United States Steel Corp
X-Pando Corp

Cement, Wallboard Joint

Barclay Mfg Co Inc
Bestwall Gypsum Co
Carey Philip Mfg Co
Celotex Corp
Lucas John & Co Inc
Marsh Wall Products Inc
Miracle Adhesives Corp
National Chemical & Mfg Co
National Gypsum Co
Penn Crete Prods Co
Pittsburgh Plate Glass Co
Reardon Co
Ruberoid Co
Rutland Fire Clay Co
Schalk Chemical Co
Tamms Industries Co
United States Gypsum Co
U S Mineral Wool Co
United States Plywood Corp
X-Pando Corp

Ceramic Tile

(See Tile, Ceramic)

Chain Saws (See Saws, Chain)

Chimneys, Prefabricated

(See also Fireplaces)

Condensation Engineering Co
Flintkote Co
General Products Co
Hunellman & Son
Majestic Co Inc
McQuay Inc
Metalbestos Div Wm Wallace Co
Van Packer Co Div Flintkote Co

Circuit Breakers

Adam Frank Electric Co
Bryant Electrical Co
Bulldog Electric Products
Cutler Hammer Inc
Federal Pacific Electric Co
General Electric Co Apparatus Sales
General Electric Co Circuit Prot Devices
Square D Co
Westinghouse Electric Corp

Circular Saws

(See Saws, Circular)

Circulators, Hot Water Heating Systems

(See Pumps, Booster)

Cleaners, Built-In Vacuum Systems

Black & Decker Mfg Co
H-P Products Inc
Holt Mfg Co

Cleaners, Masonry

Goldblatt Tool Co
Standard Dry Wall Products Inc

Clips, Concrete

Dayton Sure-Grip & Shore Co
Goldsmith Metal Lath Co
Sommer Metal Craft Corp

Clips, Furring

Cleveland Steel Specialty Co
Dayton Sure-Grip & Shore Co
Moore Goodloe E Inc
National Gypsum Co
Penn Metal Co Inc
United States Gypsum Co

Clips, Plaster, Spring

(See Lath, Metal & Accessories)

Clips, Wallboard & Ceiling Tile

(See Wallboard)

Clocks, Built-In

Leigh Building Products Div
Miller Howard Clock Co
Minneapolis Honeywell Regulator
Morgan-Wightman Co
R & H Guaranteed Products Co
Swanson Mfg Co
Wisconsin Clock Co Inc

Closet Accessories

Acme Appliance Mfg Co Acme Bldrs
American Steel Door Co
Atkinson Mfg Co
Brown George C & Co Inc
Ekco Products Co Ekco-Autoyre Div
Gerber Plumbing Fixtures Corp
Grant Pulley & Hardware Corp
H-C Products Co
Kees F D Mfg Co
Kennatrack Corp Sub Ekco Prods
Knappe & Vogt Mfg Co
Lawrence Brothers Inc
Leigh Building Products Div
Louver Mfg & Supply
Macklanburg-Duncan Co
Masonite Corp
Mirro Chrome Co Inc
Peerless-Wood Products
Russell & Erwin Div Am Hdwe Corp
Shelby Spring Hinge Co
Stanley Hardware
United Steel Products Co

Closet Lining, Cedar

(See Cedar Lining, Closets)

Closets, Prefabricated

Boise Cascade Corp
Caradeo Inc
Evergreen States Forest Products
Tedrick Bros Mfg Co Inc

Coatings, Concrete Floor

(See Paints & Coatings, Concrete, Brick, Stucco)

Coatings, Concrete Forms

Acrow Corp of America
Calbar Inc
Ceresit Corp
Dipcraft Mfg Co
Johnson's Wax
National Mfg Corp
Plexitone Corp of America
Re-Nu-It Corp
Sherwin-Williams Co
Silicones Div Union Carbide
Sonneborn Chemical & Refining Corp
Sullivan Co
Toch Bros
Tucrete Co Inc

Coatings, Roof, Aluminum & Asphalt

(See Paints & Coatings, Roof)

Coatings, Wood Treatment (See Paints & Coatings, Wood Treatment)

Color Consultants

Barreled Sunlight Plant Co
Cook Paint & Varnish Co
Minnesota Paints Inc
Pittsburgh Plate Glass Co
Sherwin-Williams Co
West Beatrice Color Inc

Colors, Concrete & Plaster

Ceresit Corp
Chicago Bronze & Color Works
Clinton Metallic Paint Co
Colorcrete Industries Inc
Ferro Corp Color Div
Flexrock Co
Hachmeister-Inc
Horn A C Companies Div Sun Chem Corp
Interstate Brick Co
Landers Segal Color Co
Rockcote Paint Co
Rohloff & Co
Smith J Lee & Co Inc
Sonneborn Chemical & Refining Corp
Sullivan Co
Tamms Industries Co

Toch Bros
Truscon Labs Inc

Columns, Metal

(See Steel, Structural; also See Railings & Columns)

Compactors

Hyster Co
Jackson Vibrators Inc
Jay Co Div Leukart Mach Co Inc
Koehring Co
Maginiss Power Tool Co
Master Vibrator Co
Muller Machinery Co Inc
Racine Hydraulics & Machinery Inc
Vibro Plus Prods Inc
Witch Marketing Co

Compounds, Anti-Freeze,

Concrete

Anti Hydro Waterproofing Co
Ceresit Corp
Flexrock Co
Horn A C Companies Div Sun Chem Corp
Kay-Tite Co
Master Builders Co
Ranetite Mfg Co
Plexitone Corp of America
Sika Chemical Corp
Sonneborn Chemical & Refining Corp
Sullivan Co
Super Concrete Emulsions
Toch Bros
Truscon Labs Inc

Compounds, Anti-Termite

(See Termite Shields)

Compounds, Concrete (See Concrete Hardeners & Sealers)

Concrete Admixtures

Carborundum Co
Ceresit Corp
Dasco Co Inc
Dewey & Almy Chemical Div
Horn A C Companies
Johns-Manville Corp
Kay-Tite Co
Massey-Ferguson Inc Industrial Div
Master Builders Co
Permitec Inc
Plexitone Corp of America
Standard Dry Wall Products Inc
Tamms Industries Co

Concrete Block Machines

Brikcrete Associates Inc
Columbia Machine Inc
Dunn W E Co
Lithibar Co
Wagner Iron Works
Concrete Blocks
Graystone Div
General Concrete Products Inc
Illinois Brick Co
Waylife Co
West Allis Concrete Prods Co

Concrete, Calcium Chloride For

City Chemical Corp
Pittsburgh Plate Glass Co
Solvay Process-Allied Chem Dye
Wyandotte Chemicals Corp

Concrete Finishing Machines & Equipment

American Floor Machine Co
Chain Belt Co
Chicago Pneumatic Tool Co
Dayton Sure-Grip & Shore Co
Dotmar Industries Inc
General Engines Co Inc
Goldblatt Tool Co
Kelley Machine Div Wiesner-Rapp Co Inc
Koehring Co
Kor-It Co Inc
Master Vibrator Co
Muller Machinery Co Inc
Remington Arms Co Inc
Speedway Mfg Div Thor Power Tool Co
Stow Mfg Co

Thor Power Tool Co
Whiteman Mfg Co

Concrete Form Liners

Bethlehem Steel Co
Dipcraft Mfg Co
Horn A C Companies
Kordite Co
Lithibar Co
Masonite Corp
Paxton Frank Lumber Co
United States Plywood Corp
Visking Co
Youngblood Lumber Co

Concrete Form Ties &

Accessories

Acrow Corp of America
Cleveland Steel Specialty Co
Conver Steel & Wire Co
Dayton Sure-Grip & Shore Co
Economy Forms
Form Co
Gates & Sons Inc
Gerrard A J & Co
Goldsmith Metal Lath Co
Horn A C Companies
Irvington Form & Tank Co
Jeffery Form Tie Co
Merwin Mfg Co
Rocform Corp
Sheffield Div Armco Steel Corp
Simplex Forms System Inc
Sommer Metal Craft Corp
Superior Scaffold Co
Symons Clamp & Mfg Co
Unistrut Prods Co
U S Mineral Wool Co
Universal Form Clamp Co
Wood Conversion Co

Concrete Forms

Acrow Corp of America
Biersach & Neidermeyer Co
Chain Belt Co
Colorcrete Industries Inc
Dayton Sure-Grip & Shore Co
Delta Co
Dipcraft Mfg Co
Dotmar Industries Inc
Economy Forms
Forest Fiber Products Co
Form Co
Gates & Sons Inc
Goldsmith Metal Lath Co
Inland Steel Products Co
Irvington Form & Tank Co
Kochton Plywood & Veneer Co Inc
Mahon R C Co
Paxton Frank Lumber Co
Proctor Products Co
Richkraft Co
Rilco Laminated Products Inc
Rocform Corp
Simplex Forms System Inc
Sonoco Prods Co Construction Prod Div
Symons Clamp & Mfg Co
United States Plywood Corp
Universal Form Clamp Co

Concrete Guns

(See Guns, Pneumatic,
Concrete Application)

Concrete Hardeners & Sealers

Allied Compositions Co Inc
American Asbestos Product Co
Anti Hydro Waterproofing Co
Borden Chemical Co Div Borden Co
Camp Co Inc
Carter-Waters Corp
Ceresit Corp
Coddington E D Mfg Co
Colorcrete Industries Inc
Concrete Weld Co
Dad & Lad Co
Dasco Co Inc
Devoe & Reynolds Co Inc
Dewey & Almy Chemical Div
Evercrete Corp
Flexrock Co
Fulton Cotton Mills
Horn A C Companies Div Sun Chemical Corp

Kay-Tite Co
Koppers Co Inc Durethane Plant
Kordite Co
Maguire Walter Co Inc
Massey-Ferguson Inc Industrial Div
Master Builders Co
Monroe Co Inc
Permiteco Inc
Plextone Corp of America
Ranetite Mfg Co
Reardon Co
Re-Nu-It Corp
Rutland Fire Clay Co
Seddon Co
Servicised Prods Corp
Sika Chemical Corp
Sonneborn Chemical & Refining Corp
Standard Dry Wall Products Inc
Steelcote Mfg Co
Sullivan Co
Super Concrete Emulsions
Surfco Sales Co
Tammis Industries Co
Tennant G H Co
Thompson E A Co Inc
Toch Bros
Truscon Labs Inc
Tufcrete Co Inc
Vita-Var Corp
Watco-Dennis Corp
Wilbur & Williams Co

Concrete Mixers, Mortar (For On-Site Use)

Chain Belt Co
Colorcrete Industries Inc
Columbia Machine Inc
Construction Machinery Co
Dotmar Industries Inc
Dunn W E Co
General Engines Co Inc
Gilson Brothers Co
Goldblatt Tool Co
Jaeger Machine Co
Johnson C S Co
Koehring Co
Lithibar Co
Muller Machinery Co Inc
Newark Ladder & Bracket Co Inc
Smith T L Co
Worthington Corp

Concrete Mixers, Transit

Chain Belt Co
Construction Machinery Co
General Engines Co Inc
Hercules-Gallon Products Inc
Jaeger Machine Co
Smith T L Co
Whiteman Mfg Co
Worthington Corp

Concrete Paint (See Paints & Coatings, Concrete)

Concrete, Prestressed & Precast

Greystone Div

Concrete Sawing Equipment

Carborundum Co
Clipper Mfg Co
Eveready Brikaw Co
Thor Power Tool Co
Victor Inc

Concrete Vibrators, Gasoline & Electric

Chicago Pneumatic Tool Co
General Engines Co Inc
Homelite Div Textron Inc
Jackson Vibrators Inc
Kelley Machine Div Wiesner-Rapp Co Inc
Maginnis Power Tool Co
Master Vibrator Co
Omark Industries Inc
Pacific Mercury Electronics
Remington Arms Co Inc
Speedway Mfg Div Thor Power Tool Co
Stone Machinery Co
Stow Mfg Co

Syntron Co
Thor Power Tool Co
Vibro Plus Prods Inc
Whiteman Mfg Co

Conduits & Raceways

Aluminum Co of America
American Flexible Conduit Co
Anaconda American Brass Co
Byers A M Co
Carlson Products Corp
Chase Brass & Copper Inc
Circle Wire & Cable Corp
Clayton Mark & Co
Columbia Metal Box Co
General Cable Corp
General Electric Co Construction Materials
Harvey Aluminum
Johns-Manville Corp
Kaiser Aluminum & Chemical Corp
Keystone Mfg Co
Laclede Steel Co
Line Material Ind McGraw-Edison Co
Okonite Co
Orangeburg Mfg Co Div Flintkote Co
Pyle-National Co
Republic Steel Corp
Southwestern Plastic Pipe Co
Triangle Conduit & Cable Co Inc
Unistrut Prods Co
Wiremold Co
Youngstown Sheet & Tube Co

Controls, Heating & Air Conditioning

Arrow Hart & Hegeman Elec Co
Berko Electric Mfg Corp
Controls Co of America
Crane
Cutler Hammer Inc
Everwarm Inc
General Electric Co Apparatus Sales
Hoffman Specialty Mfg Corp
International Register Co
Kol-Master Corp
Lawler Automatic Controls Inc
Lennox Industries Inc
Mercold Corp
Minneapolis Honeywell Regulator
Morrison Steel Products Inc
Paragon Electric Co
Penn Controls Inc
Robertshaw Thermostat Div
Stow Mfg Co
Sunwarm Inc
Thrush H A & Co
Tork Time Controls Inc
Triplex Heating Specialty Co Inc
Westinghouse Electric Corp
White-Rodgers Co
Wilcolator Co

Controls, Lighting (See Wiring Systems, Remote Control)

Conveyors

Alvey Ferguson Co Inc
American Conveyor Co
Barber Greene Co
Bodinson Mfg Co
Bosworth Mfg Co
Buschman E W Co Inc
Chain Belt Co
Colson Corp
Ferguson Harry J Co
Gee Vee Line
Goldblatt Tool Co
Goodall Rubber Co Inc
Goodyear Tire & Rubber Co
Hewitt-Robbins Inc
Koehring Co
Lake Shore Inc Lake Shore Eng Div
Lippmann Engineering Works Inc
Louden Machinery Co
Mathews Conveyor Co
Metzgar Conveyor Co
Morgen Mfg Co
Mulkey Sam Co
New London Engineering Co
Northern Conveyor Co

Rapids-Standard Co Inc
Richards-Wilcox Mfg Co
Smith T L Co
Stephens-Adamson Mfg Co
United States Rubber Co
Virginia Metal Products Inc

Copper Tubing
(See Pipe & Tubing, Brass & Copper)

Cork Flooring
(See Tile, Cork)

Counterflow Furnace Units
(See Furnaces, Counterflow)

Countertops
Armstrong Cork Co
Boro Wood Prods Co Inc
Carthage Marble Corp
Chemold Co

Congoleum-Nairn Inc
Elkay Mfg Co
Fibersin Plastics Co
Formica Corp
General Elec Co Laminated Prods Dept
General Tire & Rubber Co Bldg Materials Div
Goodyear Tire & Rubber Co
Gregg & Son Inc
Hyde Park Products Co
Kitchen Compact Inc
Marsh Wall Products Inc
National Tile & Mfg Co
Regal Laminates Inc
St Regis Paper Co Panelyte Div
Sani-Top Inc
Sherel-Wagner
Stylon Corp
Texboro Cabinet Corp
Topcraft Inc
United States Plywood Corp
United States Rubber Co
Westinghouse Electric Corp
Vermont Marble Co

Coverings, Wall
(See Wall Coverings)

Cranes & Shovels
Allis Chalmers Mfg Constr Mach Div
American Hoist & Derrick Co
Bucyrus-Erie Co
Clark Equipment Co Constr Mach Div
Equipment Div Young Spring & Wire
Ford Motor Co Tractor & Implement Div
Gar Wood Industries Inc
Hyster Co
Koehring Co
Link-Belt Speeder Corp
Manning Maxwell & Moore Inc
Northwest Engineering Co
Pitman Mfg Co
Radocy P A & Sons
Round David & Son Inc
Schild Bantam Co
Silent Hoist & Crane Co
Smith Hoist Mfg Co
Unit Crane & Shovel Corp

Cupolas
Cape Cod Cupola Co

Curtain Walls
American Art Metals Co
Arnold Altx Aluminum Co
Butler Mfg Co
Davidson Enamel Products Inc
Fenestra Inc
Flynn Michael Mfg Co
Haskelite Mfg Div
Ingram-Richardson Mfg Co
Kawneer Co
Kimble Glass Co Sub Owens-Illinois
Mahon R C Co
Marmet Corp
Mesker Bros Iron Co
Michel & Pfeffer Iron Works Inc
Mueller Brass Co
Owens-Illinois
Panelfab Products Inc
Pomeroy S H Co Inc
Regulux Sash & Door Co

Republic Steel Corp Truscon Div
Ryerson Joseph T & Son
Slidewall Co
Southern Sash Sales & Supply Co
Superior Window Co
Trimview Metal Products
Unistrut Prods Co
United States Ceramic Tile Co
United States Plywood Corp
Wasco Products Inc
Ware Aluminum Windows Inc
Wausau Metals Corp

W M C	Aluminum Ventilators Projected Windows
	Standard & Deluxe Ribbon & Custom Windows Curtain Wall—Casement Windows Screens & Storm Sash
WAUSAU METALS CORP.	
1415 West Street P.O. Box 185	WAUSAU, WIS.

Wilke Metal Products Inc
Winter Seal Corp

Cutters, Hardboard
Disston Div H K Porter
Ekstrom Carlson & Co
Hartmeister Mfg Inc
Huther Brothers Saw Mfg Co Inc
Kimball Mfg Co
Rockwell Mfg Delta Power Tool Div
Stanley Tools

Cutters, Insulation Board
Disston Div H K Porter
Kimball Mfg Co

Cutters, Molding
Belsaw Machinery Co
Boice Crane Co
DeWalt Inc
Disston Div H K Porter
Dormeyer Corp
Dosh Mfg Co
Ekstrom Carlson & Co
Huther Brothers Saw Mfg Co Inc
Jet Tool Inc
Mattison Machine Works
Footatuck Corp
Rockwell Mfg Delta Power Tool Div
Stanley Electric Tools
United Industries Inc
Yates-American Machine Co

Cutters, Shingle & Siding
Flintkote Co
General Hardware Mfg Co Inc
Kearney & Mattison Co
Newark Ladder & Bracket Co Inc
Ruberoid Co
Specialty Tool Manufacturers
United States Gypsum Co
Yates-American Machine Co

Cutters, Stump
(See Bulldozer Attachments)

Cypress Lumber
(See Lumber, Cypress)

Dampers, Fireplace
(See Fireplaces, Outdoor & Equipment)

Decking, Insulating
Armstrong Cork Co
Berger Insulation Co Inc
Bestwall Gypsum Co
Bird & Son Inc
Bradley Southern Div Potlatch Forests Inc
Carey Phillip Mfg Co
Celotex Corp
Cemex of Arizona
Flintkote Co
Gilman Bros Co
Georgia Pacific Corp
Great Lakes Carbon Corp Perlite Dept
Homasote Co
Insulite Div Minnesota & Ontario Paper
Johns-Manville Corp
Kaiser Gypsum Co Inc
Lehon Co

Meadows W R Inc
National Gypsum Co
Owens-Corning Fiberglas Corp
Paxton Frank Lumber Co
Reynolds Aluminum Supply Co
Rilco Laminated Products
Ruberoid Co
Simpson Timber Co
Texas Vermiculite Co
Ther-Mo Roof Inc
Timber Structures Inc
Uni-Crest Div United Cork
Unit Structures Inc
United States Gypsum Co
Waylite Co
Wood Conversion Co
Zonolite Co

Decking, Metal
Ceco Steel Prods Corp
Dayton Sure-Grip & Shore Co
Fenestra Inc
Follansbee Steel Corp
Goldsmith Metal Lath Co
Granco Steel Prods Co
Haven-Busch Co
Inland Steel Products Co
Macomber Inc
Mahon R C Co
Penn Metal Co Inc
Plasteel Products Corp
Republic Steel Corp
Republic Steel Corp Truscon Div
Ryerson Joseph T & Son
Stran-Steel Corp Div Natl Steel Corp
Tennison Bros Inc
United States Gypsum Co
Wheeling Corrugating Co

Dehumidifiers
(See also Air Conditioners)

Abbeon Supply Co
Admiral Corp
Albion Div McGraw-Edison Co
Amana Refrigeration Inc
Berns Air King Corp
Carrier Corp
Clarage Fan Co
Cory Corp
Dayton Electric Mfg Co
Emerson-Pryne Co
Fedders Corp
Gibson Refrigerator Sales Corp
Kelvinator Div American Motors Co
Morgan-Wightman Co
Mueller Climatrol Div
Remington Air Conditioning Div
Westinghouse Electric Corp
Whirlpool Corp
Worthington Corp

Derricks
(See Hoists & Derricks)

Devices, Wiring
(See Wiring Devices)

Dining Nooks
(See Nooks, Dining)

Dishwashers
Admiral Corp
Chambers Built-Ins Inc
Frigidaire Div General Motors Corp
General Electric Co Major Appliance
Gregg & Son Inc
Hotpoint Div
Kelvinator Div American Motors Co
KitchenAid
Morgan-Wightman Co
National Rubber Machinery Co
Philco Corp
Preway Inc
Tennessee Stove Works
Waste King Corp
Westinghouse Electric Appliance Div
Westinghouse Electric Corp
Whirlpool Corp
Youngstown Kitchens

Disposers, Garbage
American-Standard Plumbing & Heating Div
Chambers Built-Ins Inc
Donley Brothers Co

Frigidaire Div General Motors Corp
 General Electric Co Major Appliance
 Harvill Corp
 Hotpoint Div
 In-Sink-Erator Mfg Co
 Kelvinator Div American Motors Co
 Locke Stove Co
 Morgan-Wightman Co
 National Disposer
 National Rubber Machinery Co
 Northwest Metal Products Inc
 Phileo Corp
 Pioneer Mfg Co
 Vestal Mfg Co
 Waste King Corp
 Westinghouse Electric Appliance Div
 Westinghouse Electric Corp
 Whirlpool Corp
 Youngstown Kitchens

Ditchers

(See Trenchers & Ditchers)

Door Bells & Chimes

Auth Electric Co Inc
 Cable Electric Products Inc
 Carey Phillip Mfg Co
 Doorscope Co
 Edwards Co Inc
 Emerson Electric Mfg Co Emerson Fryne Co
 Graham John H & Co Inc
 International Register Co
 Lehon Co
 Miami Cabinet Div Phillip Carey Mfg
 Morgan-Wightman Co
 NuTone Inc
 Rittenhouse Co Inc

Door Operators, Garage

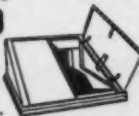
Alliance Mfg Co Inc
 Allister Mfg Co Inc
 Atlas Overhead Door Co
 Barber Colman Co
 Berry Door Corp
 Better-Bilt Door Co
 Calder Mfg Co
 Capitol Products Inc
 Crawford Door Co
 Dor-O-Matic Div Republic Industries Inc
 Fitzgerald M J Co
 Frantz Mfg Co
 Graham Door Inc
 Howell Mfg Co
 Kinnear Mfg Co
 Lancaster Pump & Mfg Co Inc
 McKee Door Co
 Moore A E Co Inc
 Morrison Steel Products Inc
 Overhead Door Corp
 Raynor Mfg Co
 RCA Service Co Div of RCA
 Richards-Wilcox Mfg Co
 Robot Industries Inc
 Rowe Mfg Co
 Sedcon Inc
 Wagner Mfg Co

Doors, Access & Crawl Space

Adams Co
 Bilco Co
 Carey Phillip Mfg Co
 Coffman R G Co Inc
 Columbia Metal Box Co
 Donley Brothers Co
 Industrial Iron Works
 Inland Steel Products Co
 Lehon Co
 Leigh Building Products Div
 Miami Cabinet Div Phillip Carey Mfg
 Morgan Company
 Simpson Timber Co
 Vestal Mfg Co

Doors, Cellar, Bulkhead, Metal

Bilco
BASEMENT DOOR
 SOLD BY BUILDING MATERIAL DEALERS
THE BILCO COMPANY
 Dept. T-84—New Haven 5, Conn.



Bilco Co
 Cellarway Inc
 Donley Brothers Co
 International Fireproof Door Co
 Michel & Pfeffer Iron Works Inc
 Pak-Cel Inc
 Vega Industries Inc

Doors, Combination, Aluminum (See Windows & Doors)

Doors, Combination, Steel (See Windows & Doors)

Doors, Combination, Wood (See Windows & Doors)

Doors, Flexible & Folding

American Accordion-Fold Doors Inc
 American Steel Door Co
 Anweld Building Products
 Clopay Corp
 Columbia Mills Inc
 Consolidated General Prod Inc
 Cookson Co
 Cox Arthur & Sons Inc
 Craftwood Products
 Curtis Companies Inc
 Curtitton Corp
 Eastern Products Corp
 Evergreen States Forest Products
 Fenestra Inc
 Float-Away Door Co
 Gates Mfg Co Inc
 Grant Pulley & Hardware Corp
 Gregg & Son Inc
 Holcomb & Hoke Mfg Co Inc
 Hough Mfg Corp
 Leigh Building Products Div
 Michel & Pfeffer Iron Works Inc
 Morgan Company
 New Castle Products Inc
 Nova Sales Co
 Paine Lumber Co Ltd
 Panelfold Doors Inc
 Paxton Frank Lumber Co
 Perless-Wood Products
 Precision Parts Corp
 Ready Hung Door Corp
 Republic Steel Corp Truscon Div
 Reynolds Aluminum Supply Co
 Richards-Wilcox Mfg Co
 Rock Island Millwork Co Factory Div
 Rolscreen Co
 Spokane Sash & Door Co
 Suncraft Inc
 United States Plywood Corp
 Wacowall Div Waco-Porter Corp
 Warren Shade Co Inc
 Wel-Bilt Products Co
 Wood Specialty Products Inc

Doors, Garage, Upward Acting, Metal

Atlas Overhead Door Co
 Barber Colman Co
 Berkeley Aluminum Products Inc
 Berry Door Corp

Berry GARAGE DOORS

Full 5 year guarantee

One-piece and sectional steel and wood models

Ask your distributor or write direct
 Berry Door Corporation

2400 E. Lincoln Road, Birmingham, Michigan

Crawford Door Co
 Fenestra Inc
 General Doors Corp
 Howell Mfg Co
 Kinnear Mfg Co
 McKee Door Co
 Morgan-Wightman Co
 Morrison Steel Products Inc
 Overhead Door Corp
 Panel-Lift Door Corp
 Raynor Mfg Co
 Reynolds Aluminum Supply Co
 Rowe Mfg Co
 Taylor Garage Doors Inc

Tilt-A-Door Corp
 Wagner Mfg Co
 Weather Seal Inc
 Wel-Bilt Products Co
 Wilson J G Corp

Doors, Garage, Upward Acting, Wood

Atlas Overhead Door Co
 Barber Colman Co
 Berry Door Corp
 Better-Bilt Door Co
 Calder Mfg Co
 Capitol Products Inc
 Crawford Door Co
 Frantz Mfg Co
 General Doors Corp
 Graham Door Co
 Howell Mfg Co
 Ideal Co Mfg Div Wm Cameron & Co
 International Paper Co Long-Bell Div
 Kinnear Mfg Co
 McKee Door Co
 Morgan-Wightman Co
 Northwest Door Co Div
 Overhead Door Corp
 Pacific Mutual Door Co
 Phenix Mfg Co
 Raynor Mfg Co
 Richards-Wilcox Mfg Co
 Rowe Mfg Co
 Simpson Timber Co
 Wagner Mfg Co
 Winfield Door Corp

Doors, Glass (See Doors, Sliding; also Doors, Shower)

Doors, Interior & Exterior, Metal

Anweld Building Products
 Bayley William Co
 Berry Door Corp

Berry GARAGE DOORS

Full 5 year guarantee

One-piece and sectional steel and wood models

Ask your distributor or write direct
 Berry Door Corporation

2400 E. Lincoln Road, Birmingham, Michigan

Bilco Co
 Burr-Southern Div State Steel Industries Inc
 Ceco Steel Prods Corp
 Davidson Enamel Prods Inc
 DeVac Inc
 Fenestra Inc
 International Fireproof Door Co
 International Steel Co
 Kawneer Co
 Kewanee Mfg Co
 Kinnear Mfg Co
 Leigh Building Products Div
 Marmet Corp
 Mesker Bros Iron Co
 Michel & Pfeffer Iron Works Inc
 Morrison Steel Products Inc
 Mueller Brass Co
 North East Metal Products Corp
 Panelfab Products Inc
 Republic Steel Corp
 Republic Steel Corp Truscon Div
 Richards-Wilcox Mfg Co
 Richmond Fireproof Door Co
 Rowe Mfg Co
 Rusco Div of F C Russell Co
 State Steel Industries Inc
 Steelcraft Mfg Co
 Sun Valley Industries
 United Steel Fabricators Inc
 Virginia Metal Products Inc
 Vulcan Metal Prods Inc
 Wilson J G Corp
 Winter Seal Corp

Doors, Interior & Exterior, Wood

Anson & Gilkey Co
 Bellwood Co
 Bradley Southern Div
 Caradco Inc

Clopay Corp
 Conner Lumber & Land Co
 Craftwood Products
 Curtis Companies Inc
 DeVac Inc
 Evergreen States Forest Products
 Farley & Loetscher Mfg Co
 Firpine Products Co
 General Plywood Corp
 Georgia Pacific Corp
 Gregg & Son Inc
 Hardwood Products Corp
 Haskellite Mfg Div
 Ideal Co Mfg Div Wm Cameron & Co
 International Paper Co Long-Bell Div
 Iplik Door Co Inc
 Kochton Plywood & Veneer Co Inc
 Mauk Seattle Lumber Co
 Mengel Co
 Mohawk Flush Doors
 Morgan Company
 Morgan-Wightman Co
 Niagara Plywood Co Inc
 Northwest Door Co Div
 Pacific Mutual Door Co
 Paxton Frank Lumber Co
 Pease Woodwork Co Inc
 Perrine Industries Inc
 Petterson J C Corp
 Plywall Prods Co
 Plywood Co
 Ready Hung Door Corp
 Reynolds Aluminum Supply Co
 Rock Island Millwork Co Factory Div
 Semling-Menke Co
 Simpson Timber Co
 Southern Mill & Mfg Co
 Spokane Sash & Door Co
 Sun Valley Industries Inc
 United States Plywood Corp
 Weyerhaeuser Co Roddis Div
 Wisconsin Door Co
 Woodco Corp

Doors, Jalousie

AlSCO Inc
 Alumatic Corp of America
 Aluminum Industries
 Angel Co
 Arnold Altex Aluminum Co
 Carey-McFall Co
 Chamberlin Co of America
 Cookson Co
 Fleet of America Inc
 Georgia Pacific Corp
 Hess Mfg Co
 Hettrick W E & Son Co
 Jasco Aluminum Products
 Keystone Alloys Co
 Kreuger Mfg Co
 Look Products Inc
 Moloney Co
 Morgan-Wightman Co
 North East Metal Products Corp
 Northwest Door Co Div
 Panelfab Products Inc
 Perrine Industries Inc
 Regal Products Corp
 Regulux Sash & Door Co
 Republic Steel Corp
 Republic Steel Corp Truscon Div
 Reynolds Aluminum Supply Co
 Rock Island Millwork Co Factory Div
 Royal Jalousie Co
 Schumacher F E Co
 Simpson Timber Co
 Southern Sash Sales & Supply Co
 State Metal Awnings Inc
 Superior Industries Inc
 Universal Fabricators
 Ware Aluminum Windows Inc
 Wells Aluminum Corp
 Winsulite Mfg Co
 Winter Seal Corp
 Woodco Corp

Doors, Kitchen Cabinet

Connor Lumber & Land Co
 Curtis Companies Inc
 Fibersin Plastics Co
 Kochton Plywood & Veneer Co Inc

North East Metal Products Corp
 Weber Veneer & Plywood Co
 Youngblood Lumber Co

Doors, Louver, Metal

Auer Register Co
 International Fireproof Door Co
 Leigh Building Products Div
 North East Metal Products Corp
 Panelfab Products Inc
 Republic Steel Corp Truscon Div
 Roberts Co

Doors, Louver, Wood

Carado Inc
 Clopay Corp
 Craftwood Products
 Curtis Companies Inc
 Door's Inc
 Farley & Loetscher Mfg Co
 Georgia Pacific Corp
 Goshen Sash & Door Co
 Gregg & Son Inc
 Heinley Mastercraft Products
 Ideal Co Mfg Div Wm Cameron & Co
 International Paper Co Long-Bell Div
 Kennatrack Corp Sub Ekco Prods
 Kochton Plywood & Veneer Co Inc
 Missoula White Pine Sash Co
 Morgan Company
 Morgan-Wightman Co



North East Metal Products Corp
 Northwest Door Co Div
 Paxton Frank Lumber Co
 Philadelphia Screen Mfg Co
 Plywall Prods Co
 Precision Parts Corp
 Ready Hung Door Corp
 Rock Island Millwork Co Factory Div
 Rockwell of Randolph Inc
 Schumacher F E Co
 Silver Line Co
 Simpson Timber Co
 Southern Mill & Mfg Co
 Suncraft Inc
 Tyler Arthur F Co
 United States Plywood Corp
 Visador Co
 Wabash Screen Door Co
 Woodco Corp

Doors, Prefabbed & Packaged

Ceco Steel Prods Corp
 Clark Door Co Inc
 Craftwood Products
 Door's Inc
 Goshen Sash & Door Co
 Ideal Co Mfg Div Wm Cameron & Co
 Mesker Bros Iron Co
 Morgan-Wightman Co
 Mueller Brass Co
 Panelfab Products Inc
 Pease Woodwork Co Inc
 Precision Parts Corp
 Prefabricated Prods Co Inc
 Ready Hung Door Corp
 Steelcraft Mfg Co
 Vulcan Metal Prods Inc
 Wacowall Div Waco-Porter Corp

Doors, Prehung

Alumatic Corp of America
 Champion Door Co Inc
 Craftwood Products
 Door's Inc
 EZ-Way Sales Inc
 Gregg & Son Inc
 Ideal Co Mfg Div Wm Cameron & Co
 Jenkins Lumber & Mfg Co
 Master Hung Door Equip Co
 Moloney Co
 Morgan-Wightman Co
 Pease Woodwork Co Inc
 Peerless-Wood Products

Ready Hung Door Corp
 Royal Jalousie Co
 Superior Industries Inc
 Wilke Metal Products Inc
 Winter Seal Corp

Doors, Rolling, Steel

Atlas Overhead Door Co
 Cookson Co
 Kinnear Mfg Co
 Mahon R C Co
 Morrison Steel Products Inc
 North American Door Co Inc
 Wilson J G Corp
 Winfield Door Corp

Doors, Shower & Bathtub (See also Shower Stalls)

American Shower Door Co Inc
 Anoroc Products Inc
 Beauti-Dor Inc
 Binswander Glass Co
 Chemold Co
 Cutler Metal Prods Co
 Daryl Products Corp
 Efron Theodore Mfg Co
 Evergreen States Forest Products
 Fiat Metal Mfg Co
 Fuller W P & Co
 Glass Shower Door Co Inc
 Grant Pulley & Hardware Corp
 Jones Shutter Products
 Ketcham G M Mfg Corp
 Lehman Specialty Co
 Look Products Inc
 Milwaukee Stamping Co Bathe-Rite Div
 Morgan-Wightman Co
 North East Metal Products Corp
 Perrine Industries Inc
 Pittsburgh Plate Glass Co
 Reynolds Aluminum Supply Co
 Royal Jalousie Co
 Safety-Flex Enclosures Div Woodside Ind
 Shower Door Co of America
 Showerfold Door Corp
 Standard Building Products Co
 Standard Steel Cabinet Co
 Tiletone Co
 Trimview Metal Products
 Wasco Products Inc
 Weis Henry Mfg Co

Doors, Sliding Glass

Ador Corp
 AlSCO Inc
 American-Saint Gobain Corp
 American Shower Door Co Inc
 Arcadia Metal Products
 Binswander Glass Co
 Capitol Products Corp
 Capri Sales Inc
 Cole Mfg Co
 Daryl Products Corp
 Dina-Pak Corp
 Etling Window
 E-Z Set Windows Inc
 Ida Products Co
 Fenestra Inc
 Fleet of America Inc
 Fuller W P & Co
 General Bronze Corp
 Glass Shower Door Co Inc
 Hollywood Aluminum Rolling Glass



Horizon Door Co
 Lehman Specialty Co
 Look Products Inc
 Malibu Mfg Corp
 Metal Trims Inc
 Miami Window Corp
 Miller Frank B Mfg Co
 Miller Sliding Glass Door Co Inc
 National Window Corp

North East Metal Products Corp
 Perrine Industries Inc
 Peterson Window Corp
 Pittsburgh Plate Glass Co
 Republic Steel Corp Truscon Div
 Reynolds Aluminum Supply Co
 Rolscreen Co
 Royal Jalouseie Co
 Safetee Glass Co
 Shower Door Co of America
 Slide-View Door & Window Co
 Southern Sash Sales & Supply Co
 Sun Valley Industries
 Textron Metals Co
 Toledo Plate & Window Glass Co
 Trim Slide Inc
 Trimview Metal Products
 Universal Fabricators
 Virginia Glass Products Corp
 W M Products Co
 Winter Seal Corp

Doors, Sliding Wood & Metal

Aluminum & Glass Products Co
 Arnold Altex Aluminum Co
 Clark Door Co Inc
 Clopay Corp
 Cole Mfg Co
 Cox Arthur & Sons Inc
 Craftwood Products
 Curtis Companies Inc
 E-Z Set Windows Inc
 EZ-Way Sales Inc
 Ida Products Co
 International Fireproof Door Co
 Fenestra Inc
 Ideal Windows Inc
 Ideal Co Mfg Div Wm Cameron & Co
 Iplik Door Co Inc
 Labrie Mfg Co Inc
 Malibu Mfg Corp
 Mengel Co
 Michel & Pfeffer Iron Works Inc
 Morgan Company
 Oro Mfg Co
 Paine Lumber Co Ltd
 Paxton Frank Lumber Co
 Premier Hall Mfg Co
 Ready Hung Door Corp
 Republic Steel Corp Truscon Div
 Richards-Wilcox Mfg Co
 Rockwell of Randolph Inc
 Silver Line Co
 Slide-View Door & Window Co
 Standard Building Products Co
 Steelcraft Mfg Co
 Storm King Corp
 United States Plywood Corp
 Virginia Metal Products Inc
 Wel-Bilt Products Co
 Weyerhaeuser Co Roddis Div
 Winter Seal Corp
 Woodall Industries Inc

Douglas Fir (See Lumber, Fir, Douglas or Plywood, Douglas Fir)

Drains, Shower

Josam Mfg Co
 Hoffman Specialty Mfg Corp

Drawer Slides & Rollers

GENUINE
Amerock
 HARDWARE

DRAWER SLIDES

- Center Mounting
- Bottom Mounting
- Side Mounting
- Ball Bearing

ASK YOUR WHOLESALER

AMEROCK CORPORATION

ROCKFORD, ILLINOIS

Ajax Hardware Corp
 Amerock Corp
 Extension Drawer Support Co
 Grant Pulley & Hardware Corp
 Junior-Pro Products Co
 Knappe & Vogt Mfg Co
 Leigh Building Products Div
 Penn-Akron Corp
 Washington Steel Prods
 Washside Engineering Co

Drawers, Plastic

Knoll-Drake Products Inc
 Masonite Corp
 Morgan-Wightman Co
 Washington Steel Prods

Drill Grinders (See Grinders, Drill)

Drills, Brick, Concrete, Tile

Arro Expansion Bolt Co
 Black & Decker Mfg Co
 Bucyrus-Erie Co
 Bulldog Div Gregory Industries Inc
 Chicago Expansion Bolt Co
 Chicago Pneumatic Tool Co
 Cincinnati Tool Co
 Clipper Mfg Co
 Damascus Steel Products Corp
 Diamond Expansion Bolt Co Inc
 Gardner-Denver Co
 General Hardware Mfg Co Inc
 Hawkeye Sales Co
 Holub Industries Inc
 Hood Bros
 Jordan Industries
 Mayhew Steel Products Inc
 Milwaukee Elec Tool Corp
 Molco Drilling Machines Inc
 New England Carbide Tool Co Inc
 Omark Industries Inc
 Oxwall Tool Co Ltd
 Paine Co
 Phillips Drill Co
 Proto Tool Co Div Pendleton Tool Ind Inc
 Rawplug Co Inc
 Remington Arms Co Inc
 Relton Corp
 Skil Corp
 Stanley Tools
 Star Expansion Industries Corp
 Stortz John & Son Inc
 Syntroon Co
 Thor Power Tool Co
 Union Twist Drill Co
 U S Expansion Bolt Co
 Victor Inc
 Wodack Electric Tool Corp

Drills, Electric, Portable

Albertson & Co Inc
 American Floor Machine Co
 Black & Decker Mfg Co
 Blum Julius & Co Inc
 Bulldog Div Gregory Industries Inc
 Chicago Pneumatic Tool Co
 Clipper Mfg Co
 Cummins Portable Tools Div
 Dalton Mfg Co
 Dayton Electric Mfg Co
 Diston Div H K Porter
 Dormeyer Corp
 Forsberg Mfg Co
 Hosking John H Co
 Ingersoll-Rand Co
 Kett Tool Co
 Koehring Co
 Millers Falls Co
 Milwaukee Elec Tool Corp
 Molco Drilling Machines Inc
 Portable Electric Tools Inc
 Porter-Cable Machine Co
 Ryerson Joseph T & Son
 Skil Corp
 Speedway Mfg Div Thor Power Tool Co
 Stanley Electric Tools
 Thor Power Tool Co
 Union Twist Drill Co
 Wen Products Inc
 Wodack Electric Tool Corp

Drills, Gasoline

Barco Mfg Co
 Bucyrus-Erie Co
 Clipper Mfg Co
 Koehring Co
 Remington Arms Co Inc

Drivers & Fasteners, Cartridge Actuated Type

Fastway Fasteners Inc
 Hawkeye Sales Co
 Hilti Rapid Fastening Systems Inc
 Nelson Stud Driver Div
 Omark Industries Inc
 Ramset Fastening System
 Remington Arms Co Inc

Dryers, Clothes (See Washers & Dryers, Clothes)

Ducts, Metal

H-P Products
 Inland Steel Products Co
 International Oil Burner Co
 Keystone Mfg Co
 Lennox Industries Inc
 Wilke Metal Products Inc
 Williamson Co

Dumbwaiters

Barrett Cravens Co
 Bodinson Mfg Co
 C & H Electric Machine Co
 Chelsea Elevator Co
 Dover Corp Electric Elevator Div
 Inclinator Co of America
 Lewis-Shepard Products Inc
 Otis Elevator Co
 Robot Industries Inc
 Whitney Vincent Co

Earthmoving Equipment (See Backhoes, Bulldozers, Cranes, etc.)

Electrical Materials (See Conduits & Raceways also Wiring Systems)

Elevators, Hand Power (See Dumbwaiters)

Estimating Services

Construction Cost Institute
 Goshen Sash & Door Co
 Lifetime Industries Inc
 Tamblin Systems
 Unit Structures Inc

Fans, Commercial

Acme Engineering & Mfg Corp
 Air Controls Inc
 American Air Filter Co
 Berns Air King Corp
 Buffalo Forge Co
 Chicago Blower Corp
 Consolidated General Prod Inc
 Cory Corp
 Dayton Electric Mfg Co
 Emerson Electric Mfg Co
 Gaffers & Sattler Div
 ILG Electric Ventilating Co
 Peerless Electric Div H K Porter Co Inc
 Standard Electric Mfg Co Inc
 Stewart S J Electric
 Trane Co
 Westinghouse Electric Corp

Fans, Exhaust, Bath & Kitchen

Acme Engineering & Mfg Corp
 Air Controls Inc
 American Standard Industrial Div
 Aubrey Hardware Mfg Inc
 Bar-Brook Mfg Co
 Berns Air King Corp
 Boro Wood Prods Co Inc
 Broan Mfg Co Inc
 C & H Air Conditioning Co Inc
 Cal Vent Mfg Co
 Carey Phillip Mfg Co
 Chambers Built-Ins Inc
 Chelsea Fan & Blower Co Inc

Clarage Fan Co
Dayton Electric Mfg Co
Emerson Electric Mfg Co
Emerson-Pryne Co
Fasco Industries Inc
Gray & Dudley Co
Gregg & Son Inc
ILG Electric Ventilating Co
Kitchen Kompact Inc
Kol-Master Corp
Lau Blower Co
Lehon Co
Leigh Building Products Div
Marvel Electric Mfg Co
Master Mechanic Mfg Co
McLean Engineering Labs
Miami Cabinet Div Philip Carey Mfg
Morgan-Wightman Co



NuTone Inc
Perfect-Line Mfg Corp
Progress Mfg Co Inc
Reed Unit Fans Inc
Rich Phil Fan Mfg Co Inc
Robbins & Myers Inc
Roberts Mfg Co
Sin-Jin Products Co
Standard Electric Mfg Co Inc
Stewart Industries Inc
Stewart S J Electric
Texboro Cabinet Corp
Trade-Wind Div Robbins & Myers Inc
Universal Blower Co
Ventrola Mfg Co
Westwind Mfg Co Inc

Fans, Ventilating, Attic

Acme Engineering & Mfg Corp
Air Controls Inc
American Coolair Corp
Bar-Brook Mfg. Co.
Berns Air King Corp
Buffalo Forge Co
C & H Air Conditioning Co Inc
Carey Phillip Mfg Co
Chelsea Fan & Blower Co Inc
Chicago Blower Corp
Clay Equipment Corp
Consolidated General Prod Inc
Damp-Vent Co
Dayton Electric Mfg Co
Emerson Electric Mfg Co
Emerson-Pryne Co
Fasco Industries Inc
Gordon Mfg Co
Hudson H D Mfg Co
Hunter Div-Robbins & Myers Inc
ILG Electric Ventilating Co
Jensen Industries
Lau Blower Co
Master Mechanic Mfg Co
McLean Engineering Labs
Meier Electric & Machine Co Inc
Morgan-Wightman Co
Olson Mfg Co
Peerless Electric Div H K Porter Co Inc
Reed Unit Fans Inc
Rich Phil Fan Mfg Co Inc
Robbins & Myers Inc
Standard Electric Mfg Co Inc
Starline Inc
Stewart S J Electric
Verneo Corp
Wasco Products Inc
Westinghouse Electric Corp
Zink John Co

Fascia & Soffits, Aluminum

Alco Inc
Alside Inc
Kaiser Aluminum & Chemical Corp
Keystone Alloys Co
Lifetime Industries Inc

Mueller Brass Co
Reynolds Aluminum Supply Co
Victor Tool & Machine Corp

Fasteners

Arro Expansion Bolt Co
Bethlehem Steel Co
Bulldog Div Gregory Industries Inc
Butcher & Hart Mfg Co
Carey Phillip Mfg Co
Chase Brass & Copper Inc
Diamond Expansion Bolt Co Inc
E G Building Fasteners Corp
ES/Products Inc
Hassall John Inc
Hawkeye Sales Co
Hercules Fastener Co
Hilti Rapid Fastening Systems Inc
Hoskins John H Co
Jordan Industries
Knap & Vogt Mfg Co
Lamson & Sessions Co
Ludwig Mfg Co Inc
Molly Corp
Nelson Stud Driver Div
Paine Co
Phillips Drill Co
Power Line Sales Inc
Powernail Co
Ramsel Fastening System
Reynolds Aluminum Supply Co
Robertson Steel & Iron Co
Sheffield Div Armco Steel Corp
Stanscrew Fasteners Div Standard Screw Co
Star Expansion Industries Corp
Stick-Klip Mfg Co Inc
Superior Fastener Corp
Timber Engineering Co
Tinnerman Products Inc
U S Expansion Bolt Co
United States Gypsum Co

Faucets, Tub & Shower

Alamark Inc
American-Standard Plumbing
Chicago Faucet Co
Gyro Brass Mfg Corp
Harvey Aluminum
Lehman Specialty Co
Moen Faucet Div Standard Screw Co
National Disposer
National Rubber Machinery Co
Powers Regulator Co
Speakman Co
Sterling Faucet Co
Wels Henry Mfg Co
Universal-Rundle Corp

Felt Roofing

(See Roofing, Asphalt)

Fencing

Ornamental Iron Fencing

AND GATES

100's of Designs—Stock and Custom

WRITE FOR LITERATURE

TFC TENNESSEE FABRICATING CO.

American Steel & Wire Div
Anchor Fence Div Anchor Post Prods Inc
Arrow Tank Co Inc
Baumgartner Gate Factory
Bethlehem Steel Co
Bradley Southern Div
Colorado Fuel & Iron Corp
Continental Steel Corp
Copperweld Steel Co
Dipcraft Mfg Co
Erdle Perforating Co Inc
Filon Plastics Corp
Grissom-Rakestraw Lumber Co
Forbes Steel Corp
Habitant Fence Inc
Harris L C Cedar Ltd
Jackson Shake Co
Jones & Laughlin Steel Corp
Kaiser Aluminum & Chemical Corp
Keystone Steel & Wire Co
Masonite Corp

Mid-States Steel & Wire Co
Northwestern Steel & Wire Co
Robertson Steel & Iron Co
Sheffield Div Armco Steel Corp
Stewart Iron Works Inc
Tennessee Fabricating Co
United States Steel Corp

Fiber Board

(See Wallboard & Sheathing, Fiber; also Insulating Board)

Fiber Joint Sewer Pipe

(See Pipe, Sewer)

Files, Saw & Circular

Belsaw Machinery Co
Carborundum Co
Diston Div H K Porter Co Inc
Heller Tool Co
Nicholson File Co
Plumb Fayette R Inc
Simonds Saw & Steel Co

Financing

Mortgage Exchange Co of America Inc
Universal C I T Credit Corp

Finishers, Wallboard

(See Cement, Wallboard Joint)

Finishes & Sealers

Allied Chemical Corp Barrett Div
American Asbestos Product Co
American Floor Machine Co
American Varnish Co
Armstrong Cork Co
Bangkok Industries Inc
Barreled Sunlight Paint Co
Biddle Co
Borden Chemical Co Div Borden Co
Bruce E L Co
Ceresit Corp
Chicago Bronze & Color Works
Clarke Floor Machine Co
Cromar Co
Dad & Lad Co
Devoe & Reynolds Co Inc
Dixon Joseph Crucible Co
Douglas & Sturgess
DuPont de Nemours & Co Inc E I
Elliott Paint & Varnish Co
Flexrock Co
Flintkote Co
Forman-Ford & Co
Glidden Co
Globe Paint Works Inc
Hild Floor Machine Co Inc
Horn A C Companies Div Sun Chem Corp
Johnson's Wax
Lawrence W W & Co
Lowe Bros
Lucas John & Co Inc
Marietta Paint & Color Co
Martin-Senour Co
Massey-Ferguson Inc Industrial Div
McGuffie Co
Minnesota Mining & Mfg Co
Minnesota Paints Inc
Miraplas Tile Co
Monroe Co Inc
National Chemical & Mfg Co
National Mfg Corp
O'Brien Corp
Parr Paint & Color Co
Peterson D J Co Inc
Phelan-Faust Paint Mfg Co
Pittsburgh Plate Glass Co
Pratt & Lambert Inc
Protection Products Mfg Co
Ranette Mfg Co
Rez Wood-Tones Inc
Rockcote Paint Co
Sapolin Paints Inc
Seidlitz Paint & Varnish Co
Selby Battersby & Co
Sherwin-Williams Co
Sonneborn Chemical & Refining Corp
Stay-Tite Products Co
Steeple Mfg Co
Tarnum Industries Co
Thiokol Chemical Corp
Thompson E A Co Inc
Tremco Mfg Co

Tufcrete Co Inc
 Twentieth Century Paint & Varnish
 United States Gypsum Co
 United States Plywood Corp
 United States Rubber Co
 Valspar Corp
 Vita-Var Corp
 Watco-Dennis Corp
 Wooster Sealkote Co
 X-Pando Corp
 Zinsser William & Co Inc

**Finishing Machines, Concrete
 (See Concrete Finishing
 Machines)**

Fir, Lumber

(See Lumber, Fir, Douglas)

Fir, Plywood

(See Plywood, Douglas Fir)

Fire Alarm Systems

(See Alarms, Fire & Burglar)

Fire Extinguishers

Moore Pipe & Sprinkler Co

**Fireplaces, Outdoor &
 Equipment**

Adams Co
 Bennett-Ireland Inc
 Burr-Southern Div
 Caradco Inc
 Colonial Fireplace Co
 Columbia Brick Works
 Donley Brothers Co
 Dover Corp Peerless Mfg Div
 Grillcraft Co
 Hasty-Bake Mfg Co Inc
 Industrial Iron Works
 Majestic Co Inc
 Miller Howard Clock Co
 Morgan Company
 NuTone Inc
 Outdoor Oven Fireplace Co
 Peterson Robert H Co
 Silent Glow Oil Burner Co
 State Steel Industries Inc
 Stratton Terstegge Co
 Superior Fireplace Co
 Thermo Rite Mfg Co
 Vestal Mfg Co

Fireplaces, Prefabricated

Condensation Engineering Co
 Condon-King Co
 Donley Brothers Co
 Hearthaire Conditioning Co
 Majestic Co Inc
 Morgan-Wightman Co
 Oakland Foundry Co
 Readybuilt Products Co
 Stratton Terstegge Co
 Vega Industries Inc

Fireplaces, Units, Metal

Adams Co
 Bennett-Ireland Inc
 Builders Brick Co
 Builders Fireplace & Supply
 Colonial Fireplace Co
 Columbia Brick Works
 Condon-King Co
 Donley Brothers Co
 Grillcraft Co
 Hearthaire Conditioning Co
 Majestic Co Inc
 State Steel Industries Inc
 Stratton Terstegge Co
 Superior Fireplace Co
 Vega Industries Inc
 Vestal Mfg Co

Fixtures, Electric Lighting

American Louver Co
 Art Metal Co
 Atlas Electric Prods Co
 Benjamin Div Thomas Industries Inc
 Curtis-Allbrite Lighting Inc
 Del Val Mfg Co
 Eagle Electric Mfg Co
 Erdle Perforating Co Inc
 Emerson Electric Mfg Co

Emerson-Imperial Lighting Co
 Emerson-Pryne Co
 General Bathroom Products Corp
 General Plastics Corp
 Glasolier Co
 Great Northern Mfg Corp
 Holophane Co Inc
 Hubbell Harvey Inc
 Jay Lighting Mfg Co Inc
 Kirlin Co
 Litecraft Mfg Pacific Corp
 Lightolier Inc
 Luminous Ceilings Inc
 Markel Electric Prods Inc
 Marvin Electric Mfg Co
 Miller Co
 Miller Howard Clock Co
 Morgan-Wightman Co
 Paas & Seymour Inc
 Penetray Corp
 Prescolite Mfg Corp
 Progress Mfg Co Inc
 Pyle-National Co
 Silvray Lighting Inc
 Smoot-Holman Co
 Stonco Electric Prods Co
 Swiveller Co Inc
 Sylvania Elec Prods Inc
 Tennessee Fabricating Co

Reynolds Aluminum Supply Co
 Tension Bros Inc
 Wheeling Corrugating Co
 Yeck Mfg Co

Flashing, Paper-Treated

American Sisalkraft Corp
 Johns-Manville Corp
 Lehon Co
 Ludlow Papers Div of Ludlow Corp
 National Mfg Corp
 Protective Papers Inc
 Richkraft Co
 Thilmany Pulp & Paper Co
 Wasco Products Inc

Flashing, Plastic

American Sisalkraft Corp
 Asphalt Corp of America
 Carrollton Mfg Co
 Dasco Co Inc
 Delta Co
 Dow Chemical Co
 Goring Plastics Div
 Kordite Co
 Ruberoid Co
 Rutland Fir Clay Co
 Visking Co
 Warp Brothers
 Wasco Products Inc

**Flooring, Asphalt Tile
 (See Tile, Asphalt)**

Flooring, Beech

Bradley Southern Div
 Commonwealth Lumber Corp
 Marsh Lumber Co

Flooring, Ceramic, Resilient

Harris Mfg Co
 United States Ceramic Tile Co

**Flooring, Ceramic Tile
 (See Tile, Ceramic)**

Flooring, Cork

(See Tile, Cork)

Flooring, Hardwood, Oak

Alabama Oak Flooring Co
 Arkansas Oak Flooring Co
 Atlanta Oak Flooring Co
 Bradley Southern Div
 Bruce E L Co
 Carpenter Oak Flooring Co
 Chickamauga Cedar Co Inc
 Cloud Oak Flooring Co
 Commonwealth Lumber Corp
 Connor Lumber & Land Co
 Cook A B Co
 Cook F C & Co
 Cromar Co
 Crossett Lumber Co
 DeSoto Hardwood Flooring Co
 Dierks Forests Inc
 Fair D L Lumber Co
 Fordyce Lumber Co
 Frost Forest Products Div
 Galloway Lumber Co
 Georgia Pacific Corp
 Graybeal C R & Sons
 Grissom-Rakestraw Lumber Co
 Hardwood Corp of America
 Harris Hardwood Co Inc
 Harris Mfg Co
 Hassell & Parkes Inc
 Higgins Industries Inc
 Independence Oak Flooring Co
 International Paper Co Long-Bell Div
 Kentucky Flooring Co of Va Inc
 Leathers A H Mfg Co
 Marsh Lumber Co
 McMinnville Mfg Co
 Meadow River Lumber Co
 Meridian Wood Prods Co
 Miller Bros Co
 National Forest Prods Co
 Ozark Lumber Co
 Ozark Oak Flooring Co
 Phillips Ryhne Lumber Co Inc
 Pickens Hardwood Flooring Co Inc
 Plyfloor Inc
 Plywood Co

**CAST METAL
 Yard Lighting Fixtures**

Lamps—Jockey Bay Hitching Posts, etc.

WRITE FOR NEW CATALOG



Thomas Industries Inc
 Union Insulating Co
 Virden John C Co
 Virginia Glass Products Corp
 Westinghouse Electric Corp
 Wiley R & W Inc
 Zenith Metal Products Co

**Fixtures, Plumbing
 (See Plumbing Fixtures)**

Flashing, Aluminum

Aluminum Co of America
 Georgia Pacific Corp
 Kaiser Aluminum & Chemical Corp
 Kaiser Aluminum & Chemical Sales Inc
 Ludlow Papers Div of Ludlow Corp
 Mueller Brass Co
 Nichols Wire & Aluminum Co
 Quaker State Metals Co
 Revere Copper & Brass Inc
 Reynolds Aluminum Supply Co
 Reynolds Metals Co
 Wasco Products Inc
 Yeck Mfg Co

Flashing, Copper

American Sisalkraft Corp
 Anaconda American Brass Co
 Bridgeport Brass Co
 Ceco Steel Prods Corp
 Chase Brass & Copper Inc
 Conver Steel & Wire Co
 Delta Co
 Hussey C G & Co
 Inland Steel Products Co
 Klauer Mfg Co
 Ludlow Papers Div of Ludlow Corp
 Revere Copper & Brass Inc
 Reynolds Aluminum Supply Co
 Wasco Products Inc

Flashing, Galvanized & Terno

Bethlehem Steel Co
 Ceco Steel Prods Corp
 Columbia Brick Works
 Conver Steel & Wire Co
 Follansbee Steel Corp
 Inland Steel Products Co
 Klauer Mfg Co
 Northwest Metal Products Inc
 Reeves Steel & Mfg Co
 Republic Steel Corp

Robbins Flooring Co
 Searcy Flooring & Lumber Co Inc
 Smith W T Lumber Co
 Southern Pine Lumber Co
 Texoak Flooring Co
 Thomson Oak Flooring Co
 Tibbals Flooring Co
 Triplett Lumber Co Inc
 Veach-May-Wilson Inc
 Virginia Oak Flooring Co Inc
 Wells J W Lumber Co
 Williams J L & Sons
 Wood-Mosaic Corp Parkay Div
 Yawkey Bissell Hardwood Flooring Co
 Youngblood Lumber Co

**Flooring, Hardwood,
 Pre-Finished**

Bangkok Industries Inc
 Bradley Southern Div
 Bruce E L Co
 Cromar Co
 Fair D L Lumber Co
 Georgia Pacific Corp
 Higgins Industries Inc
 Horner Flooring Co
 Memphis Hardwood Flooring Co
 Modernwood Co
 Plyfloor Inc
 Wood-Mosaic Corp Parkay Div

Flooring, Linoleum

Armstrong Cork Co
 Bird & Son Inc
 Bradley Southern Div
 Congoleum-Nairn Inc

Flooring, Maple

Commonwealth Lumber Corp
 Harris Hardwood Co Inc
 Harris Mfg Co
 Kentucky Flooring Co of Va Inc
 Marsh Lumber Co

Flooring, Parquetry

Bangkok Industries Inc
 Bradley Southern Div
 Bruce E L Co
 Connor Lumber & Land Co
 Cromar Co
 Diamond Lumber Co
 Fair D L Lumber Co
 Georgia Pacific Corp
 Harris Hardwood Co Inc
 Harris Mfg Co
 Higgins Industries Inc
 Kentucky Flooring Co of Va Inc
 Modernwood Co
 National Forest Prods Co
 Plyfloor Inc
 Robbins Flooring Co
 Virginia Oak Flooring Co Inc
 Wells J W Lumber Co
 Wood-Mosaic Corp Parkay Div
 Yawkey Bissell Hardwood Flooring Co

Flooring, Pecan

Bradley Southern Div
 Hassell & Parkes Inc

Flooring, Pine & Fir

Bradley Southern Div
 Brooks-Scanlon Inc
 Commonwealth Lumber Corp
 Crossett Lumber Co
 Dierks Forests Inc
 Fair D L Lumber Co
 Georgia Pacific Corp
 Hardwood Corp of America
 Mauk Seattle Lumber Co
 National Forest Prods Co
 Ozan Lumber Co
 Pacific Lumber Co
 Phillips Ryhne Lumber Co Inc
 Pope & Talbot Inc
 Roaboro Lumber Co
 Tremont Lumber Co
 Veach-May-Wilson Inc
 Weyerhaeuser Co Lumber & Plywood Div

**Flooring, Plastic
 (See Tile, Vinyl)**

**Flooring, Rubber
 (See Tile, Rubber)**

Flooring, Underlayment

Abitibi Corp
 Allied Chemical Corp Barrett Div
 Allied Compositions Co Inc
 American Asbestos Product Co
 American Bitumuls & Asphalt Co
 Armstrong Cork Co
 Azrock Floor Products Div
 Borden Chemical Co Div Borden Ct
 Bradley Southern Div
 Camp Co Inc
 Carey Philip Mfg Co
 Celotex Corp
 Coddington E D Mfg Co
 Dasco Co Inc
 Dodge Cork Co Inc
 Flexrock Co
 Flintkote Co
 Forest Fiber Products Co
 Georgia Pacific Corp
 Gering Plastics Div Studebaker-Packard
 Goodrich B F Co Flooring Products
 Insulite Div Minnesota & Ontario Paper Co
 Johns-Manville Corp
 Kochton Plywood & Veneer Co Inc
 Masonite Corp
 Meadows W R Inc
 Miracle Adhesives Corp
 National Mfg Corp
 Paxton Frank Lumber Co
 Pecora Inc
 Pope & Talbot Inc
 Presstite Div American-Marietta Co
 Protective Papers Inc
 Ruberoid Co
 Selby Battersby & Co
 Southern Plaswood Corp
 Superwood Corp
 Tamms Industries Co
 Thomas Moulding Floor Co Inc
 Tremco Mfg Co
 Tuferete Co Inc
 United States Gypsum Co
 United States Plywood Corp
 Weyerhaeuser Co Silvatek Div
 Wood Conversion Co
 Youngblood Lumber Co

**Flooring & Wall Covering,
 Marble**

(See also Stone, Marble)

Carthage Marble Corp
 Marsh Wall Products Inc
 National Floor Prods Co
 Vermont Marble Co

Flue Lining

American Vitrified Prods Co
 Builders Brick Co
 Columbia Brick Works
 Dee Clay Prod Co Inc
 Evans Brick Co
 Interstate Brick Co
 Malvern Flue Lining Inc
 Natco Corp
 Owensboro Sewer Pipe Co
 Patton Clay Mfg Co
 Pomona Terra-Cotta Co
 Robinson Clay Product Co
 Stillwater Clay Products Co
 Straitsville Brick Co
 Streater Drain Tile Co

Flues & Chimneys, Prefabricated

Condensation Engineering Co
 General Products Co
 Hart & Cooley Mfg Co
 Majestic Co Inc
 Metalbestos Div Wm Wallace Co
 Streater Drain Tile Co
 Van Packer Co Div Flintkote Co

Folding Doors

(See Doors, Flexible & Folding)

Forced Air Furnaces

(See Furnaces, Forced Air)

Fork Lifts

(See Trucks, Fork Lift)

Forms, Concrete

(See Concrete Forms)

Frames, Door & Window, Metal

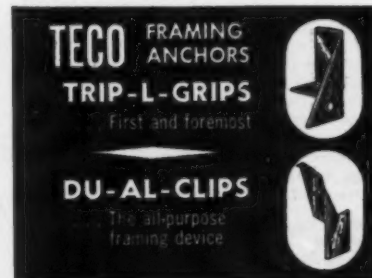
Amweid Building Products
 Ceco Steel Prods Corp
 Clay Equipment Corp
 DeVac Inc
 Fenestra Inc
 International Fireproof Door Co
 Kawneer Co
 Kewanee Mfg Co
 Marmet Corp
 Meaker Bros Iron Co
 Metal Crafters
 Michel & Pfeffer Iron Works Inc
 Mueller Brass Co
 Panelfab Products Inc
 Pittsburgh Plate Glass Co
 Republic Steel Corp Truscon Div
 Richards-Wilcox Mfg Co
 Richmond Fireproof Door Co
 Starline Inc
 Steelcraft Mfg Co
 Trimco Metal Products
 Virginia Metal Products Inc
 Vulcan Metal Prods Inc
 Ware Aluminum Windows Inc

Frames, Door & Window, Wood

Andersen Corp
 Anson & Gilkey Co
 Boise Cascade Corp
 Bradley Southern Div
 Caradco Inc
 Cole Mfg Co
 Crestline Co
 Curtis Companies Inc
 Deer Park Pine Industry Inc
 Dierks Forests Inc
 Farley & Loetscher Mfg Co
 Firpine Products Co
 Fordyce Lumber Co
 Georgia Pacific Corp
 Goshen Sash & Door Co
 Gregg & Son Inc
 Hines Edward Lumber Co
 Ideal Co Mfg Div Wm Cameron & Co
 International Paper Co Long-Bell Div
 Keystone Frame & Mfg Co
 Lee Millwork Corp
 Malta Mfg Co
 Mauk Seattle Lumber Co
 Missoula White Pine Sash Co
 Mutual Fir Column Co
 Pacific Mutual Door Co
 Paxton Frank Lumber Co
 Rockwell of Randolph Inc
 Southern Mill & Mfg Co
 Wel-Bilt Products Co
 White Pine Sash Co

Framing Devices, Steel

Dur O Wal Div Cedar Rapids Block Co
 Junior-Pro Products Co
 Kees F D Mfg Co
 Sta-Tite Inc
 Timber Engineering Co



TIMBER ENGINEERING COMPANY
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**Framing, Steel
 (See Steel, Structural)**

Framing, Wood**(See Lumber)****Freezers****(See Refrigerators & Freezers)****Fronts, Store****(See Store Fronts)****Furnaces, Counterflow Units**

Airtemp Div Chrysler Corp
 American Furnace Co
 American Standard Air Conditioning
 Armstrong Furn Co Div Natl U E
 Bastian-Morley Co Inc
 Bard Mfg Co
 Bryant Mfg Co
 Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Chattanooga Royal Co
 Coleman Co Inc
 Crane Co
 Day & Night Mfg Co
 Delco Appliance Div General Motors
 Dowagiac Steel Furnace Co
 Dravo Corp
 Empire Stove Co
 Gaffers & Sattler Div
 General Automatic Products Corp
 General Electric Co Air Conditioning Dept
 Hell-Quaker Corp
 Henry Furnace Co
 Hess Co
 International Oil Burner Co
 Janitrol Heating & Air Conditioning
 Kaustine Furnace & Tank Co
 Kresno-Stamm Mfg Co
 Lennox Industries Inc
 Majestic Co Inc
 Meyer Furnace Co
 Monogram Industries Inc
 Morrison Steel Products Inc
 Motor Wheel Corp Duo-Therm Div
 Mueller Climatrol Div Worthington Corp
 Niagara Furnace Div Forest City
 Northwest Foundry & Furnace Co
 Olsen C A Mfg Co
 Patten J V Co
 Payne Co
 Perfection Industries Div Hupp Corp
 Pioneer Mfg Co
 Premier Furnace Co
 Richmond Heating Equipment
 Roberts Gordon Appliance Corp
 Rybolt Heater Co
 Samuel Stamping & Enameling Co
 Sequoia Mfg Co
 Smith A O Corp Permaglas Div
 Stratton Terstegge Co
 Temperature Appliance Mfg Co
 Thatcher Furnace Co
 Toridheet Div Cleveland Steel Products
 Trane Co
 Typhoon Air Conditioning Div
 Viking Mfg Corp
 Wayne Home Equipment Co Inc
 Westinghouse Electric Corp
 Williams Oil-O-Matic Heating Co
 Williamson Co
 York Corp Sub Borg-Warner
 York-Shipley Inc

Furnaces, Floor

Albion Div McGraw-Edison Co
 Bryant Mfg Co
 Cellheat Inc
 Coleman Co Inc
 Empire Stove Co
 General Automatic Products Corp
 Holly-General Co Div Siegler Corp
 Jackson & Church Div
 Kresky Mfg Co Inc
 Kresno-Stamm Corp
 Little H C Burner Co
 Monogram Industries Inc
 Northwest Metal Products Inc
 Samuel Stamping & Enameling Co
 Stratton Terstegge Co
 Temco Inc
 Typhoon Air Conditioning Div
 York-Shipley Inc
 Zink John Co

Furnaces, Forced Air

Airtemp Div Chrysler Corp
 American Furnace Co
 American Standard Air Conditioning Div
 Armstrong Furn Co Div Natl U E
 Bard Mfg Co
 Bryant Mfg Co
 Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Chattanooga Royal Co
 Coleman Co Inc
 Crane Co
 Day & Night Mfg Co
 Delco Appliance Div General Motors
 Dowagiac Steel Furnace Co
 Dravo Corp
 Empire Stove Co
 Fedders Corp
 Gaffers & Sattler Div
 General Elec Co Air Conditioning Dept
 Hell-Quaker Corp
 Henry Furnace Co
 Hess Co
 Holland Furnace Co
 Holly-General Co Div Siegler Corp
 Ingersoll Prod Div Borg-Warner
 International Oil Burner Co
 Janitrol Heating & Air Conditioning Div
 Johnson S T Co
 Kaustine Furnace & Tank Co
 Lennox Industries Inc
 Majestic Co Inc
 Meyer Furnace Co
 Monogram Industries Inc
 Morgan-Wightman Co
 Morrison Steel Products Inc
 Motor Wheel Corp Duo-Therm Div
 Mueller Climatrol Div Worthington Corp
 Niagara Furnace Div Forest City Foundries
 Norman Products Co
 Northwest Foundry & Furnace Co
 Olsen C A Mfg Co
 Patten J V Co
 Payne Co
 Pennsylvania Furnace & Iron Co
 Perfection Industries Div Hupp Corp
 Premier Furnace Co
 Radiation Furnace Corp
 Reznor Mfg Co
 Richmond Heating Equipment
 Roberts Gordon Appliance Corp
 Rybolt Heater Co
 Sequoia Mfg Co
 Smith A O Corp Permaglas Div
 Stewart-Warner Corp
 Stratton Terstegge Co
 Temco Inc
 Thatcher Furnace Co
 Toridheet Div Cleveland Steel Products
 Trane Co
 Tuck-Aire Furnace Co
 Typhoon Air Conditioning Div
 Viking Mfg Corp
 Wayne Home Equipment Co Inc
 Welbilt Air Conditioning & Heating
 Westinghouse Electric Corp
 Williams Oil-O-Matic Heating Co
 Williamson Co
 York Corp Sub Borg-Warner
 York-Shipley Inc
 Zink John Co

Furnaces, Suspended

Airtemp Div Chrysler Corp
 American Furnace Co
 American Standard Air Conditioning Div
 Armstrong Furn Co Div Natl U E
 Bard Mfg Co
 Bryant Mfg Co
 Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Chattanooga Royal Co
 Coleman Co Inc
 Crane Co
 Delco Appliance Div General Motors
 Dowagiac Steel Furnace Co
 Dravo Corp
 Empire Stove Co
 Gaffers & Sattler Div
 General Automatic Products Corp

Gilbert & Barker Mfg Co

Hell-Quaker Corp

Henry Furnace Co

Hess Co

Janitrol Heating & Air Conditioning Div

Kaustine Furnace & Tank Co

Lennox Industries Inc

Majestic Co Inc

Meyer Furnace Co

Monogram Industries Inc

Morrison Steel Products Inc

Mueller Climatrol Div Worthington Corp

Niagara Furnace Div Forest City

Norman Products Co

Northwest Foundry & Furnace Co

Olsen C A Mfg Co

Patten J V Co

Payne Co

Perfection Industries Div Hupp Corp

Premier Furnace Co

Reznor Mfg Co

Richmond Heating Equipment

Rybolt Heater Co

Sequoia Mfg Co

Stewart-Warner Corp

Stratton Terstegge Co

Temco Inc

Trane Co

Thatcher Furnace Co

Toridheet Div Cleveland Steel Prods Corp

Typhoon Air Conditioning Div

Viking Mfg Corp

Wayne Home Equipment Co Inc

Welbilt Air Conditioning & Heating

Williams Oil-O-Matic Heating Div Natl U E

Williamson Co

York Corp Sub Borg-Warner

York-Shipley Inc

Zink John Co

Furnaces, Wall

Bastian-Morley Co Inc
 Chattanooga Royal Co
 Coleman Co Inc
 Day & Night Mfg Co
 Empire Stove Co
 Gaffers & Sattler Div
 Holly-General Co Div Siegler Corp
 Hell-Quaker Corp
 International Oil Burner Co
 Kresky Mfg Co Inc
 Little H C Burner Co
 Monogram Industries Inc
 Morrison Steel Products Inc
 Mueller Climatrol Div Worthington Corp
 Northwest Metal Products Inc
 Ohio Foundry & Mfg Co
 Payne Co
 Perfection Industries Div Hupp Corp
 Pioneer Mfg Co
 Samuel Stamping & Enameling Co
 Stewart-Warner Corp
 Suburban Propane Gas Corp
 Temco Inc

Fuse Boxes

Adam Frank Electric Co
 Columbia Metal Box Co
 Cutler-Hammer Inc
 Federal Pacific Electric Co
 General Electric Co Circuit Prot Devices
 Kees F D Mfg Co
 Keystone Mfg Co
 Murray Mfg Corp
 Square D Co

Garage Doors**(See Doors, Garage)****Garage Hardware****(See Hardware, Garage)****Garages, Prefabricated****(See Directory of Home Manufacturers)****Garbage Disposers****(See Disposers, Garbage; also see Incinerators)**

Generators, Engine-Driven

C & H Electric Machine Co
Carrier Corp
Dayton Electric Mfg Co
Jackson Vibrators Inc
Katolight Corp
Kohler Co
Onan Div of Studebaker-Packard Co
Pacific Mercury Electronics
Universal Motor Co
Waukesha Motor Co
Westinghouse Electric Corp
Wincharger Corp
Winpower Mfg Co
Witte Engine Works Oil Well Supply

Generators, Portable, Electric

Allis Chalmers Mfg Co Construction Mach
Borg-Warner Corp Pesco Products
C & H Electric Machine Co
Caterpillar Tractor Co
Dayton Electric Mfg Co
Fairbanks Morse & Co
General Electric Co Apparatus Sales
Homelite Div Textron Inc
Jackson Vibrators Inc
Katolight Corp
Kohler Co
Master Mechanic Mfg Co
Master Vibrator Co
Milwaukee Elec Tool Corp
Morgan-Wightman Co
Onan Div of Studebaker-Packard Corp
Pacific Mercury Electronics
Pioneer Gen E Motor Corp
Speedway Mfg Div Thor Power Tool Co
Thor Power Tool Co
Universal Motor Co
Westinghouse Electric Corp
Wincharger Corp
Winpower Mfg Co

Glass, Architectural & Ornamental

American-Saint Gobain Corp
Forman-Ford & Co
Libbey-Owens-Ford Glass Co
Nurre Co
Ohio Plate Glass Co
Pennsylvania Wire Glass Co
Perrine Industries Inc
Pittsburgh Plate Glass Co
Safetee Glass Co
Virginia Glass Products Corp

Glass Blocks

Forman-Ford & Co
Kimble Glass Co Sub Owens-Illinois
Owens-Illinois
Perrine Industries Inc
Pittsburgh Corning Corp
Southern Sash Sales & Supply Corp

Glass, Crystal Sheet

American-Saint Gobain Corp
Cole Mfg Co
Fourco Glass Co
Libbey-Owens-Ford Glass Co
Mondial United Corp
Nurre Co
Ohio Plate Glass Co
Pittsburgh Plate Glass Co
Toledo Plate & Window Glass Co

Glass, Double Pane

American-Saint Gobain Corp
Cole Mfg Co
Forman-Ford & Co
Libbey-Owens-Ford Glass Co
Nurre Co
Ohio Plate Glass Co
Perrine Industries Inc
Pittsburgh Plate Glass Co
Safetee Glass Co
Toledo Plate & Window Glass Co

Glass, Plate

American-Saint Gobain Corp
Cole Mfg Co
Forman-Ford & Co
Goshen Sash & Door Co
Libbey-Owens-Ford Glass Co

Mondial United Corp
Nurre Co
Ohio Plate Glass Co
Pittsburgh Plate Glass Co
Safetee Glass Co
Toledo Plate & Window Glass Co

Glass, Structural

American-Saint Gobain Corp
Cole Mfg Co
Mondial United Corp
Ohio Plate Glass Co
Pennsylvania Wire Glass Co
Perrine Industries Inc
Pittsburgh Plate Glass Co

Glass, Window, Wire

American-Saint Gobain Corp
Cole Mfg Co
Dipcraft Mfg Co
Forman-Ford & Co
Goshen Sash & Door Co
Libbey-Owens-Ford Glass Co
Mondial United Corp
Ohio Plate Glass Co
Nurre Co
Perrine Industries Inc
Pittsburgh Plate Glass Co
Toledo Plate & Window Glass Co

Glazing Compounds (See Caulking & Glazing Compounds)

Greenhouses, Prefabricated

Dipcraft Mfg Co
Jones Shutter Products
Lord & Burnham Div Burnham Corp

Grilles, Door & Window

American Screen Products Co
Bayley William Co
Cincinnati Iron Fence Co Inc
Curtis Companies Inc
Erdle Perforating Co Inc
Hendrick Mfg Co
Hutchinson R H & Co
Ida Products Co
International Oil Burner Co
Macklanburg-Duncan Co
Metal Crafters
Meyers Fred L Mfg Co
Michel & Pfeffer Iron Works Inc
Moloney Co
Rudiger-Lang Co
Tennessee Fabricating Co
United States Register Co
Waterloo Register Co Inc
Yeck Mfg Co

Grinders, Drill

Atlas Press Co
Blum Julius & Co Inc
Dayton Electric Mfg Co
McDonough Mfg Co
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Grinders, Tool & Cutter

Black & Decker Mfg Co
McDonough Mfg Co
Union Twist Drill Co

Guards, Areawall

(See Areawalls & Guards)

Gum Lumber (See Lumber, Gum)

Guns, Caulking

Calbar Inc
Horn A C Companies
Lawrence W W & Co
Macklanburg-Duncan Co
Rutland Fir Clay Co
Tamms Industries Co

Guns, Paint Spray (See Paint Spray Guns)

Guns, Pneumatic Concrete Application

Air Placement Equipment Co
Santa Anita Mfg Corp
Sprayton Equipment Co

Guns, Pneumatic, Plaster

Plastering Development Center Inc
Santa Anita Mfg Corp
Sprayton Equipment Co

Gutters, Metal

Alabama Metal Lath Co Inc
Alasco Inc
Alside Inc
Aluminum Co of America
Ceco Steel Prods Corp
Chase Brass & Copper Inc
Inland Steel Products Co
Kaiser Aluminum & Chemical Corp
Keystone Mfg Co
Klauser Mfg Co
Lyon Cofklin & Co Inc
Northwest Metal Products Inc
Quaker State Metals Co
Reeves Steel & Mfg Co
Republic Steel Corp
Republic Steel Corp Berger Div
Reynolds Aluminum Supply Co
Reynolds Metals Co
Tennison Bros Inc
Wheeling Corrugating Co

Gypsum Plaster (See Plaster, Gypsum)

Hammers, Gasoline

Barco Mfg Co
Syntron Co

Hammers, Hand (See Tools, Carpenter, Hand)

Hammers, Pneumatic

Chicago Pneumatic Tool Co
Dotmar Industries Inc
Gardner-Denver Co
Ingersoll-Rand Co
Le Roi Div Westinghouse Air Brake Co
Power Lines Sales Inc
Powernall Co
Skil Corp
Speedway Mfg Div Thor Power Tool Co
Thor Power Tool Co
Worthington Corp

Hammers, Portable Electric

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Blum Julius & Co Inc
Homelite Div Textron Inc
Ingersoll-Rand Co
Millers Falls Co
Milwaukee Elec Tool Corp
Porter-Cable Machine Co
Phillips Drill Co
Rawplug Co Inc
Skil Corp
Speedway Mfg Div Thor Power Tool Co
Stanley Electric Tools
Syntron Co
Thor Power Tool Co
Wodack Electric Tool Corp

Hangers, Bathtub

American-Standard Plumbing & Heating Div
Hollaender Mfg Co
Kohler Co
Lucke William B Inc

Hangers, Insulation

Dayton Sure-Grip & Shore Co
Moore Goodloe E Inc

Hangers, Joist & Lumber

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Baumgartner Gate Factory
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Copeco Steel & Engineering Co
Dayton Sure-Grip & Shore Co
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Evans Products Co
Flintkote Co
Forest Fiber Products Co
Georgia Pacific Corp
Hines Edward Lumber Co
Insulate Div Minnesota & Ontario Paper Co
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Kearsbey & Mattison Co
Kochton Plywood & Veneer Co Inc
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Weyerhaeuser Co Silvatek Div
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Youngblood Lumber Co

Hardware, Cabinet

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Acorn Mfg Co
Ajax Hardware Corp
Amerock Corp

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Engineered Products Co
Extension Drawer Support Co
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Griffin Mfg Co
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Heller W C & Co
Ideal Brass Works Inc
Ives H B Co
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Knappe & Vogt Mfg Co
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Lake Drive Products Co Inc
Lawrence Brothers Inc
Macklanburg-Duncan Co
McKinney Mfg Co
Mirra-Cote Co Inc
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Morgan-Wightman Co
National Mfg Co
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Selck Walter E & Co
Shelby Metal Prods Co
Shelby Spring Hinge Co
Sherle-Wagner
Slaymaker Lock Co
Soss Mfg Co
Stanley Hardware Div of Stanley Works
Sterling John Corp
Washington Steel Prods
Western Lock Mfg Co
Yale & Towne Mfg Co Yale Lock

Hardware, Closet

(See Closet Accessories)

Hardware, Door

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Sentry Stop-A-Draft Co
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Slaymaker Lock Co
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Stanley Hardware Div
Starline Inc
Sterling John Corp
Trego Industries
Unique Window Balance Corp
United States Plywood Corp
Wagner Mfg Co
Washington Steel Prods
Weiser Co
Western Lock Mfg Co
Woodside Engineering Co
Wright Prods Inc
Yale & Towne Mfg Co Yale Lock

Hardware, Garage, Upward

Acting

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Barber Colman Overdoors & Operators Div
Better-Bilt Door Co
Calder Mfg Co
Capitol Products Inc
Colorado Fuel & Iron Corp
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Hager C & Sons Hinge Mfg Co
Howell Mfg Co
Lawrence Brothers Inc
McKee Door Co
Phenix Mfg Co
Raynor Mfg Co
Richards-Wilcox Mfg Co
Stanley Hardware Div of Stanley Works
Tavart Co
Wagner Mfg Co
Wei-Bilt Products Co
Winfield Door Corp
Yale & Towne Mfg Co Yale Lock

Hardware, Screen & Storm Sash

Ajax Hardware Corp
Colorado Fuel & Iron Corp
Corbin P & F Div American Hdwe Corp
Dennis W J & Co
Earle Hardware Mfg Co
Engineered Products Co
Frantz Mfg Co
Griffin Mfg Co
Hager C & Sons Hinge Mfg Co
Handy Things Mfg Co
Ideal Brass Works Inc
Independent Lock Co
Kees F D Mfg Co
Knappe & Vogt Mfg Co
Larson Chas O Co
Lawrence Brothers Inc
Ludwig Mfg Co Inc
McKinney Mfg Co
Medalist Hardware Div
National Mfg Co
Parker S Hdwe Mfg Corp
Russell & Erwin Div American Hdwe Corp
Safe Padlock & Hdwe Co
Shelby Metal Prods Co
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Stanley Hardware Div of Stanley Works
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Vulcan Metal Prods Inc
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Ajax Hardware Corp
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American Screen Products Co
B & T Metals Co
Challenger Lock Co
Clay Equipment Corp
Colorado Fuel & Iron Corp
Cox Arthur & Sons Inc
Designware Industries Inc
Dexter Lock Div Dexter Industries
Ekco Products Co
Engineered Products Co
Frantz Mfg Co
Grant Pulley & Hardware Corp
Hager C & Sons Hinge Mfg Co
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Kennatrack Corp Sub Ekco Prods
Knappe & Vogt Mfg Co
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Lockwood Hardware Mfg Co
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Olson Mfg Co
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Richards-Wilcox Mfg Co
Roberts Co
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Hardware, Structural

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National Mfg Co
Pacific Brass & Hardware Mfg Co
Parker S Hdwe Mfg Corp
Russell & Erwin Div American Hdwe
Safe Padlock & Hardware Co
Sargent & Co
Shelby Metal Prods Co
Shelby Spring Hinge Co
Slaymaker Lock Co
Stanley Hardware Div of Stanley Works
Star Expansion Industries Corp
Sterling John Corp
Unique Balance
Unique Window Balance Corp
Universal Window Co
Ware Aluminum Windows Inc
Whitney Vincent Co
Wright Prods Inc
Yale & Towne Mfg Co Yale Lock

Heat Pumps

(See Pumps, Heat)

Heaters, Bathroom

Adam Frank Electric Co
Adams Bros Mfg Co Inc
Allied Precision Indus Inc
American Standard Air Conditioning Div
Ampere Industries
Armstrong Products Corp
Berko Electric Mfg Corp
Berns Air King Corp
Broan Mfg Co Inc
Cavalier Corp
Ceilheat Inc
Chattanooga Royal Co
Dixie Raydiant Electric Heat Corp
Dover Corp Peerless Mfg Div
Electrend Products Corp
Electromode Div Commercial Controls

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Ohio Foundry & Mfg Co
Roberts Mfg Co
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Temco Inc
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Westix Electric Heater Co
Westinghouse Electric Corp
Wiegand Edwin L Co

Heaters, Contractors, Portable

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Armstrong Products Corp
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Coleman Co Inc
Columbia Brick Works
Donley Brothers Co
Electromode Div Commercial Controls
Fasco Industries Inc
Goldblatt Tool Co
Hell-Quaker Corp

Insto-Gas Corp
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 Kelley Mach Div Wiesner-Rapp Co Inc
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 Newark Ladder & Bracket Co Inc
 Ohio Foundry & Mfg Co
 Perfection Industries Div Hupp Corp
 Silent Glow Oil Burner Co
 Stiglitz Corp
 Stow Mfg Co
 Suburban Propane Gas Corp
 Syro Steel Co
 Thermador Elec Mfg Co
 Vulcan Electric Co
 Western Metal Specialty Div
 Westinghouse Electric Corp
 Wiegand Edwin L Co

Heaters, Unit

American Air Filter Co
 American Furnace Co
 American Standard Industrial Div
 Ampere Industries
 Bastian-Morley Co Inc
 Berko Electric Mfg Corp
 Bryant Mfg Co
 Carrier Corp
 Ceilheat Inc
 Corona Mfg Corp
 Day & Night Mfg Co
 Dayton Electric Mfg Co
 Dover Corp Peerless Mfg Div
 Electromode Div
 Fedders Corp
 Gaffers & Sattler Div
 General Electric Co Apparatus Sales
 Henry Furnace Co
 International Oil Burner Co
 Jackson & Church Div
 Janitrol Heating & Air Conditioning
 Kritzer Radiant Coils Inc
 Lennox Industries Inc
 Modine Mfg Co
 Motor Wheel Corp
 Mueller Climatrol Div Worthington Corp
 Norman Products Co
 Oakland Foundry Co
 Olsen C A Mfg Co
 Payne Co
 Reznor Mfg Co
 Suburban Propane Gas Corp
 Temco Inc
 Trane Co
 Wesix Electric Heater Co
 Westinghouse Electric Corp
 Young Radiator Co
 York-Shipley Inc

Heating Controls

(See Controls, Heating)

Heating Registers

(See Registers, Heating & Ventilating)

Heating Systems, Electric

Allion Div McGraw-Edison Co
 Allied Precision Indus Inc
 American Standard Air Conditioning Div
 Ampere Industries
 Arvin Industries Inc
 Berko Electric Mfg Corp
 Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Cavalier Corp
 Ceilheat Inc
 Coleman Co Inc
 Continental Radiant Glass Heating
 Dixie Raydiant Electric Corp
 Edwards Engineering Corp
 Electrend Products Corp
 Electromode Div Commercial Controls

Electromode

ELECTRIC Comfort HEATING
 for EVERY location

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 IN THIS ISSUE

Embassy Steel Prods Inc
 Emerson Electric Mfg Co
 Emerson-Pryne Co
 Everwarm Inc
 Fasco Industries Inc
 General Elec Co Construction Materials
 General Electric Co Wiring Device Dept
 Gerwin Industries Inc
 Heatmore Inc
 Henry Furnace Co
 Hunter Div-Robbins & Myers Inc
 ILG Electric Ventilating Co
 Insto-Gas Corp
 International Oil Burner Co
 Lennox Industries Inc
 Majestic Co Inc
 Markel Electric Prods Inc
 Meier Electric & Machine Co Inc
 Modine Mfg Co
 Muncie Gear Co
 Northwest Foundry & Furnace Co
 Olsen C A Mfg Co
 Precision Parts Corp
 Rybolt Heater Co
 Slant-Fin Radiator Corp
 Stewart-Warner Corp
 Sunwarm Inc
 Thermador Elec Mfg Co
 Typhoon Heat Pump Co Div Hupp Corp
 Vulcan Electric Co
 Vulcan Radiator
 Wesix Electric Heater Co
 Westinghouse Electric Corp
 Wiegand Edwin L Co
 Williamson Co
 York Corp Sub Borg-Warner

Heating Systems, Forced

Warm Air

Airtemp Div Chrysler Corp
 American Standard Air Conditioning Div
 Arkla Air Conditioning Corp
 Bryant Mfg Co
 Burnham Corp Warm Air & Cooling Div
 Carrier Corp
 Coleman Co Inc
 Crane Co
 Day & Night Mfg Co
 Delco Appliance Div General Motors
 Electrend Products Corp
 Electromode Div Commercial Controls
 Evans Brick Co
 Fasco Industries Inc
 Gaffers & Sattler Div
 General Automatic Products Corp
 General Electric Co Air Cond Dept
 Gerwin Industries Inc
 Gilbert & Barker Mfg Co
 International Oil Burner Co
 Holland Furnace Co
 Holly-General Co Div Siegler Corp
 Hunter Div-Robbins & Myers Inc
 Kresno-Stamm Corp
 Lennox Industries Inc
 Little H C Burner Co
 Majestic Co Inc
 Meyer Furnace Co
 Monogram Industries Inc
 Morrison Steel Products Inc
 Motor Wheel Corp Duo-Therm Div
 Pebeco Industries Inc
 Perfection Industries Div Hupp Corp
 Pioneer Mfg Co
 Roberts Gordon Appliance Corp
 Temco Inc
 Trane Co
 Westinghouse Electric Corp
 Wiegand Edwin L Co
 Williamson Co

Heating Systems, Hot Water

& Steam

Aldrich Co
 American-Standard Plumbing & Heating Div
 Bastian-Morley Co Inc
 Bell & Gossett Co
 Brown Prods Co
 Airtemp Div Chrysler Corp
 American Furnace Co
 Bryant Mfg Co
 Burnham Corp Heating & Cooling Div

Carrier Corp
 Crane Co
 Delco Appliance Div General Motors
 Dunham-Bush Inc
 Dunkirk Radiator Corp
 Edwards Engineering Corp
 Embassy Steel Prods Inc
 Erie City Iron Works
 Fedders Corp
 Federal Boiler Co Inc
 Fitzgibbons Boiler Co Inc
 General Automatic Products Corp



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GENERAL AUTOMATIC PRODUCTS CORP.
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Gilbert & Barker Mfg Co
 International Oil Burner Co
 Hoffman Specialty Mfg Corp
 Hydrotherm Inc
 Johnson S T Co
 Koven L O & Bro Inc
 Kresno-Stamm Corp
 Kritzer Radiant Coils Inc
 Little H C Burner Co
 Lookout Boiler & Mfg Co
 Modine Mfg Co
 Mueller Climatrol Div Worthington Corp
 Nesbitt John J Inc
 Pebeco Industries Inc
 Peerless Heater Co
 Precision Parts Corp
 Roberts Gordon Appliance Corp
 Ruud Mfg Co
 Slant-Fin Radiator Corp
 Smith A O Corp Permaglas Div
 Simth H B Co
 Smith & Loveless Div
 Stewart-Warner Corp
 Stratton Terstegge Co
 Suburban Propane Gas Corp
 Taco Heaters Inc
 Thrush H A & Co
 Toridheet Div Cleveland Steel Prods Corp
 Trane Co
 Triplex Heating Specialty Co Inc
 Utica Radiator Corp
 Viking Mfg Corp
 Vulcan Radiator Co
 Waterfilm Boilers
 Wayne Home Equipment Co Inc
 Well-McLain Co
 Williams Oil-O-Matic Heating Co Div
 York-Shipley Inc
 Young Radiator Co

Heating Systems, Radiant

Allied Precision Indus Inc
 Ampere Industries
 Bell & Gossett Co
 Berko Electric Mfg Corp
 Burgess-Manning Co
 Burnham Corp Heating & Cooling Div
 Byers A M Co
 Ceilheat Inc
 Continental Radiant Glass Heating
 Corona Mfg Corp
 Electromode Div Commercial Controls
 Crane Co
 Emerson-Pryne Co
 Everwarm Inc
 Fasco Industries Inc
 General Electric Co Wiring Device
 Heatmore Inc
 Hell-Quaker Corp
 Hunter Div-Robbins & Myers Inc
 Hydrotherm Inc

Insta-Matic Heater Co
 Kritzer Radiant Coils Inc
 Precision Parts Corp
 Reflectotherm Inc
 Rempe Co
 Stratton Terstegge Co
 Sunwarm Inc
 Taco Heaters Inc
 Thermador Elec Mfg Co
 Thrush H A & Co
 Toridheet Div
 Utica Radiator Corp
 Viking Mfg Corp
 Vulcan Electric Co
 Wesix Electric Heater Co
 Wiegand Edwin L Co
 York-Shipley Inc

Hemlock Lumber
 (See Lumber, Hemlock)

Hinges

Acorn Mfg Co
 Ajax Hardware Corp
 Amerock Corp

GENUINE
Amerock
 HARDWARE

HINGES

Chromium, Brass, and Prime Coat
 Surface and Semi-Concealed
 Types for Flush or Offset Doors

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AMEROCK CORPORATION

ROCKFORD, ILLINOIS

Austin & Eddy Inc
 Carey-McFall Co
 Chicago Spring Hinge Co
 Corbin P & F Div American Hdwe Corp
 Frantz Mfg Co
 Gensco Tools
 Griffin Mfg Co
 Hager C & Sons Hinge Mfg Co
 Ideal Brass Works Inc
 Knappe & Vogt Mfg Co
 Lawrence Brothers Inc
 Leeds Edward & Co
 McKinney Mfg Co
 Medalist Hardware Div
 Miracle Hinge Co
 Morgan-Wightman Co
 National Mfg Co
 Pacific Brass & Hardware Mfg Co
 Parker's Hdwe Mfg Corp
 Paxton Frank Lumber Co
 Penn-Akron Corp
 Richards-Wilcox Mfg Co
 Russell & Erwin Div American Hdwe Corp
 Safe Padlock & Hardware Co
 Shelby Spring Hinge Co
 Stanley Hardware Div of Stanley Works
 Wagner Mfg Co
 Wright Prods Inc

Hinges, invisible

Amerock Corp
 Lehman Specialty Co
 Medalist Hardware Div
 Parker S Hdwe Mfg Corp
 Penn-Akron Corp
 Richards-Wilcox Mfg Co
 Soss Mfg Co
 Washington Steel Prods

Hoists & Derricks

American Engineering Co Div
 American Hoist & Derrick Co
 Bil-Jax Inc
 C H & E Mfg Co
 Chicago Pneumatic Tool Co
 Clyde Iron Works Inc
 Coffing Hoist Div
 Construction Machinery Co
 Gardner-Denver Co

Grand Specialties Co
 Hewitt-Robins Inc
 Ingersoll-Rand Co
 Jaeger Machine Co
 King Mfg Co
 Lewis-Shepard Products Inc
 Louden Machinery Co
 Manning Maxwell & Moore Inc
 McCabe Powers Body Co
 Muller Machinery Co Inc
 Novo Pump & Engine Co
 Patent Scaffolding Co
 Pitman Mfg Co
 Proctor Products Co
 Reiman & Georger Inc
 Robbins & Myers Inc
 Round David & Son Inc
 Sasgen Derrick Co
 Shepard Niles Crane & Hoist Corp
 Silent Hoist & Crane Co
 Smith Hoist Mfg Co
 Thor Power Tool Co
 Tubular Structures Corp of America
 Uhrden Inc
 Witch Marketing Co
 Yale Materials Handling Div

Hoists, Truck

Coffing Hoist Div
 Equipment Div Young Spring & Wire
 Gallon Allsteel Body Co
 Gar Wood Industries Inc
 Manning Maxwell & Moore Inc
 McCabe Powers Body Co
 Sasgen Derrick Co
 Schwartz Mfg Co
 Silent Hoist & Crane Co
 Uhrden Inc

Hoods, Range

HOOD & FAN COMBINATION
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 NUTONE

MORGAN-WIGHTMAN
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Aubrey Hardware Mfg Inc
 Berns Air King Corp
 Broan Mfg Co Inc
 Cal Vent Mfg Co
 Caloric Appliance Corp
 Carey Phillip Mfg Co
 Ductless Hood Co Inc
 Emerson-Pryne Co
 Fasco Industries Inc
 Caffers & Sattler Div
 Gray & Dudley Co
 Gregg & Son Inc
 Jenson Industries
 Kitchen Compact Inc
 Leigh Building Products Div
 Major Industries Inc
 Miami Cabinet Div Philip Carey Mfg
 Morgan-Wightman Co
 National Stove Co
 NuTone Inc
 Paxton Frank Lumber Co
 Preway Inc
 Progress Mfg Co Inc
 Puritron Corp
 Roberts Co
 Roberts Mfg Co
 Stanthony Corp
 Stewart Industries Inc
 Swanson Mfg Co
 Tennessee Stove Works
 Trade-Wind Div Robbins & Myers Inc
 Universal Blower Co
 Vent-A-Hood Co
 Ventrola Mfg Co
 Zenith Metal Products Co

Houses, Manufactured

(See Directory of Home
 Manufacturers)

Humidifiers

Abbeon Supply Co
 Albion Div McGraw-Edison Co

Carrier Corp
 Coolerator McGraw-Edison
 Cory Corp
 Dayton Electric Mfg Co
 Emerson-Pryne Co
 Lennox Industries Inc
 Mueller Climatrol Div
 Research Products Corp
 Skuttle Mfg Co
 Ware Laboratories Inc
 York Corp Sub Borg-Warner

Incinerators

Adams Co
 Alsto Co
 American Incinerator Corp
 Bastian-Morley Co Inc
 Brule Incinerator Corp
 Calculator Corp
 Caloric Appliance Corp
 Columbia Brick Works
 Donley Brothers Co
 Goder Joseph Incinerators
 Henry Furnace Co
 Holland Furnace Co
 Incinerator Products Co
 Industrial Iron Works
 Kerner Incinerator Div
 Lennox Industries Inc
 Little H C Burner Co
 Locke Stove Co
 Majestic Co Inc
 Mustee E L & Sons Inc
 Northwest Metal Products Inc
 Olsen C A Mfg Co
 Outdoor Oven Fireplace Co
 Suburban Propane Gas Corp
 Syrrall Mfg Co

Instruments, Surveying

Berger C L & Sons
 Bostrom-Brady Mfg Co
 David White Instrument Div
 Dietzgen Eugene Co
 General Hardware Mfg Co Inc
 Geo-Optic Co
 Goldblatt Tool Co
 Hopkins Mfg Corp
 Keuffel & Esser Co
 Lufkin Rule Co
 Morgan-Wightman Co
 Starrett L S Co
 Warren-Knight Co

Insulating Board, Plank & Tile
 (See also Sheathing, insulating
 Board)

Allied Chemical Corp Barrett Div
 Armstrong Cork Co
 Barclay Mfg Co Inc
 Celotex Corp
 Cemex of Arizona
 Certain-Teed Products Corp
 Flintkote Co
 Forty-Eight Insulations Inc
 Insulite Div Minn & Ontario Paper Co
 Johns-Manville Corp
 Kaiser Gypsum Co Inc
 National Gypsum Co
 Paxton Frank Lumber Co
 Plastergon Wall Board Co
 Protective Products Co
 Reynolds Aluminum Supply Co
 Rubatex Div Of Great American Indus
 Ruberoid Co
 Simpson Timber Co
 United States Gypsum Co
 Wolverine Porcelain Enameling Co
 Wood Conversion Co

Insulating Lath
 (See Lath, insulating)

Insulating Plaster
 (See Plaster, insulating)

Insulation, Aluminum Foil

Abbeon Supply Co
 Alasco Inc
 Alside Inc
 American Sisalcraft Corp
 Certain-Teed Products Corp

Corson G & W H Inc
 Delta Co
 Infra Insulation Inc
 Janesville Cotton Mills
 Kaiser Aluminum & Chemical Corp
 Kaiser Aluminum & Chemical Sales Inc
 Lehon Co
 Lifetime Industries Inc
 Lockport Mills Inc
 Logan-Long Co
 Ludlow Papers Div of Ludlow Corp
 Lyt-Alum Inc
 Protective Papers Inc
 Quaker State Metals Co
 Reflectal Corp Sub Borg Warner
 Reynolds Aluminum Supply Co
 Reynolds Metals Co
 Ruberoid Co
 Silvercote Prods Inc
 Thilmany Pulp & Paper Co
 U S Mineral Wool Co
 Wilson Grant Inc

Insulation, Batt or Blanket, Cotton Fiber

Barnhardt Mfg Co
 Janesville Cotton Mills
 Lockport Mills Inc
 Logan-Long Co
 Reynolds Aluminum Supply Co
 Taylor Mfg Co INS-Cotton Div
 United States Rubber Co

Insulation, Batt or Blanket, Fiber Glass

Armstrong Cork Co
 Berger Insulation Co Inc
 Certain-Teed Products Corp
 Flintkote Co
 Forty-Eight Insulations Inc
 Gustin-Bacon Mfg Co
 Insulite Div Minnesota & Ontario Paper Co
 Johns-Manville Corp
 Kochton Plywood & Veneer Co Inc
 Logan-Long Co
 Owens-Corning Fiberglas Corp
 Pittsburgh Plate Glass Co
 Reynolds Aluminum Supply Co
 Ruberoid Co
 Sealtite Insulation Mfg Corp
 Silvercote Prods Inc
 Texas Vermiculite Co
 Tiger Brands Inc Sub of Basic Inc
 Vermiculite-Northwest Inc

Insulation, Batt or Blanket, Mineral Wool

Allied Chemical Corp Barrett Div
 Baldwin-Ehret-Hill Inc
 Berger Insulation Co Inc
 Carey Philip Mfg Co
 Carney Co Inc
 Celotex Corp
 Chamberlin Co of America
 Corson G & W H Inc
 Eagle-Picher Co
 Forty-Eight Insulations Inc
 Insul-Wool Insulation Corp
 Johns-Manville Corp
 Kaiser Gypsum Co Inc
 Lehon Co
 Logan-Long Co
 National Gypsum Co
 National Mfg Corp
 Reynolds Aluminum Supply Co
 Sealtite Insulation Mfg Corp
 Tiger Brands Inc Sub of Basic Inc
 United States Gypsum Co
 U S Mineral Wool Co

Insulation, Batt or Blanket, Wood Fiber

Berger Insulation Co Inc
 Pal-O-Pak Insulation Co Inc
 Reeves Brothers Inc
 Reynolds Aluminum Supply Co
 Weyerhaeuser Co Silvatek Div
 Wood Conversion Co

Insulation, Board, Fiber

Abitibi Corp
 Air O-Cel

Allied Chemical Corp Barrett Div
 Alseco Inc
 American Sisalkraft Corp
 Bird & Son Inc
 Carey Philip Mfg Co
 Celotex Corp
 Cemex Of Arizona
 Certain-Teed Products Corp
 Creco-Dipt Co Inc
 Dierks Forests Inc
 Flintkote Co
 Homasote Co
 Insulite Div Minnesota & Ontario Paper Co
 Johns-Manville Corp
 Keasbey & Mattison Co
 Logan-Long Co
 National Gypsum Co
 Paxton Frank Lumber Co
 Plastergon Wall Board Co
 Reynolds Aluminum Supply Co
 Ruberoid Co
 Simpson Timber Co
 Southern Pine Lumber Co
 United States Gypsum Co
 Weatherbest Corp
 Wilson Grant Inc
 Wood Conversion Co

Insulation, Glass Cellular

Pittsburgh Corning Corp
 Reynolds Aluminum Supply Co

Insulation, Granular Fill

Acme Brick Co
 Armstrong Cork Co
 Berger Insulation Co Inc
 Certain-Teed Products Corp
 Dodson Mfg Co Inc
 Eagle-Picher Co
 Forty-Eight Insulations Inc
 Graybeal C R & Sons
 Great Lakes Carbon Corp Perlite Dept
 Johns-Manville Corp
 Reynolds Aluminum Supply Co
 Ruberoid Co
 Texas Vermiculite Co
 U S Mineral Wool Co
 Vermiculite-Northwest Inc
 Waylite Co
 Wilson Grant Inc
 Zonolite Co

Insulation, Rigid Foamed Plastic

Alside Inc
 Bi-Products Corp
 Consolidated General Prod Inc
 Corson G & W H Inc
 Dow Chemical Co
 Gilman Bros Co
 Nopco Chemical Co
 Reeves Brothers Inc
 Sterling Alderfer Co
 Uni-Crest Div United Cork
 United Cork Companies
 U S Mineral Wool Co

Insulation, Roof, Deck (See Decking Insulating)

Insulation, Slab Edge

Baldwin-Ehret-Hill Inc
 Berger Insulation Co Inc
 Certain-Teed Products Corp
 Dow Chemical Co
 Forty-Eight Insulations Inc
 Meadows W R Inc
 National Gypsum Co
 Owens-Corning Fiberglass Corp
 Ruberoid Co
 Simpson Timber Co
 Tiger Brands Inc Sub of Basic Inc
 U S Mineral Wool Co

Insulation, Spray On

Bi-Products Corp
 Evercrete Corp
 Great Lakes Carbon Perlite Dept
 Green A P Fire Brick Co
 Keasbey & Mattison Co
 Mortell J W Co
 Nopco Chemical Co
 Quigley Co Inc
 Sealtite Insulation Mfg Corp

Texas Vermiculite Co
 U S Mineral Wool Co
 Vermiculite-Northwest Inc
 Zonolite Co

Intercoms & Radios

Commercial Sound Div
 Emerson Electric Mfg Co
 Emerson-Pryne Co
 Executone Inc
 Fanon Electronic Industries Inc
 Flush Wall Radio Co
 Home Music Systems Inc
 Kaar Engineering Corp
 Morgan-Wightman Co
 Motorola Communications & Electronics
 Music & Sound Inc
 NuTone Inc
 Progress Mfg Co Inc
 RCA Service Co Div of RCA
 Rittenhouse Co Inc
 Roberts Mfg Co
 Simpson Mark Mfg Co Inc
 Swanson Mfg Co
 Talk-A-Phone Co
 Talk-A-Radio Mfg Co
 Touch-Plate Mfg Corp
 Trade-Wind Div Robbins & Myers Inc
 Webster Electric Co

Iron, Ornamental (See Ornamental Iron)

Ironers, Built-In

Armstrong Products Corp
 Ironrite Inc

Jacks, Ceiling

Coffing Hoist Div
 Gypsum Ceiling Jack Co
 Wolfe Products Inc

Jamb, Metal (See Frames, Door & Window)

Jointers (See Planers & Jointers)

Joist Bridging (See Steel, Structural)

Joists, Concrete, Precast

Colorcrete Industries Inc
 Flexicore Co Inc
 Stone Products Co

Joists, Steel

Bethlehem Steel Co
 Ceco Steel Prods Corp
 Haven-Busch Co
 International Steel Co
 Jones & Laughlin Steel Corp
 Laclede Steel Co
 Macomber Inc
 Penn Metal Co Inc
 Republic Steel Corp
 Republic Steel Corp Truscon Div
 Ryerson Joseph T & Son
 Sheffield Div Armeo Steel Corp
 Stran-Steel Corp Div Natl Steel Corp
 United States Steel Corp
 Woodside Engineering Co

Kitchen Appliances

(See Ranges & Ovens; also Refrigerators, etc.)

Kitchen Cabinets, Metal

Beutyecraft Kitchens Div Miller Metal
 Dwyer Products Corp
 Eljer Co
 General Electric Co Major Appliance
 General Metalcraft Inc Olympia Div
 Geneva Modern Kitchens
 Kelvinator Div American Motors Co
 Kitcheneering Co of America
 Kohler Co
 Marvel Metal Prods Co
 Morgan-Wightman Co
 Oakland Foundry Co
 Republic Steel Corp
 Republic Steel Corp Berger Div
 St Charles Mfg Co
 Standard Building Products Co
 Toledo Desk & Fixture Co
 United Metal Cabinet Corp

Walter Mfg Co
 Youngstown Kitchens
 Zenith Metal Products Co
Kitchen Cabinets, Wood
 Angel Co
 Atkins Wood Products Corp
 Beautycraft Kitchens Div Miller Metal
 Belwood Industries Inc
 Boise Cascade Corp
 Boro Wood Prods Co Inc
 Brammer Mfg Co
 Caradeo Inc
 Colonial Products Co
 Connor Lumber & Land Co
 Coppes Inc
 Curtis Companies Inc
 Farley & Loetscher Mfg Co
 Gregg & Son Inc
 Hyde Park Products Co
 I-XL Furniture Co
 Ideal Co Mfg Div Wm Cameron & Co
 International Paper Co Long-Bell Div
 Kitchen Kompact Inc
 Kitchen Maid Corp
 Kitcheneering Co of America
 Major Line Products Co Inc
 Marsh Furniture Co
 Marvel Metal Prods Co
 Mengel Co
 Merillat Woodworking Co
 Morgan Company
 Morgan-Wightman Co



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 Nobelcraft Industries Inc
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 Precisionware Inc



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 Scheirich H J Co
 Schenk William & Co
 Southern Mill & Mfg Co
 Spokane Sash & Door Co
 Standard Steel Cabinet Co
 Texboro Cabinet Corp
 Westinghouse Electric Appliance Div
 Wood Metal Industries

Kitchens, Efficiency
 Douglas Crestlyn International Inc
 Dwyer Products Corp
 Major Line Products Co Inc

Ladders & Accessories
 (See also Scaffolding &
 Shoring)

Abbeon Supply Co
 Ajax Building Bracket Co
 Babcock W W Co Inc
 Ballymore Co
 Bauer Mfg Co
 Berg John Mfg Co
 Bill-Jax Inc
 Bradley Southern Div Potlatch Forests
 Clayton Mark & Co
 Dayton Safety Ladder Co
 Duo-Safety Ladder Corp
 Goshen Churn & Ladder Inc
 Holland Ladder & Mfg Co

Holms Mfg Co of Ohio
 Howard Mfg Co
 Larson Ladder Co
 Louisville Ladder Co
 Mayes Bros Tool Mfg Co
 Michigan Ladder Co
 Mouton Ladder Mfg Co
 Newark Ladder & Bracket Co Inc
 Patent Scaffolding Co
 Philadelphia Screen Mfg Co
 Rich Howard B Inc
 Richbilt Mfg Co
 Tilley John S Ladders Co Inc
 Utility Body Co
 Werner R D Co Inc
 Zoss Ladder & Mfg Co

Laminated Plastic
 (See Plastic Laminates)
**Latches (See Hardware, Cabinet;
 Hardware, Door; Hardware,
 Window)**

Lath, Gypsum
 Allied Chemical Corp Barrett Div
 Bestwall Gypsum Co
 Celotex Corp
 Flintkote Co
 Grand Rapids Gypsum Co
 Kaiser Gypsum Co Inc
 National Gypsum Co
 Ruberoid Co
 United States Gypsum Co

Lath, Insulating
 Bestwall Gypsum Co
 Grand Rapids Gypsum Co
 National Gypsum Co
 Plastergon Wall Board Co
 United States Gypsum Co

Lath, Metal & Accessories
 (See also Moldings, Metal)

Alabama Metal Lath Co Inc
 B & T Metals Co
 Bostwick Steel Lath Co
 Casings Inc & Drywall Trim Div
 Ceco Steel Prods Corp
 Goldsmith Metal Lath Co
 Inland Steel Products Co
 Keystone Steel & Wire Co
 Klauer Mfg Co
 Manhattan Terrazzo Brass Strip
 National Gypsum Co
 Penn Metal Co Inc
 Power Line Sales Inc
 Republic Steel Corp Truscon Div
 Reynolds Aluminum Supply Co
 Richkraft Co
 Sanymetal Products Co Inc
 United States Gypsum Co
 Wheeling Corrugating Co

Laundry Tubs
 (See Tubs, Laundry)

Levels, Carpenters & Masons

Berger C L & Sons
 Bostrom-Brady Mfg Co
 Columbia Brick Works
 Empire Level Mfg Co
 General Hardware Mfg Co Inc
 Goldblatt Tool Co
 Graham John H & Co Inc
 Hall Level & Mfg Works
 Hydrolevel
 Levelall
 Macklanburg-Duncan Co
 Mayes Bros Tool Mfg Co
 Millers Falls Co
 Oxwall Tool Co Ltd
 Peerless Level & Tool Co
 Pickett Products Inc
 Port Austin Level & Tool Mfg Co
 Sands Level & Tool Co
 Scharf J H Mfg Co
 Simplex Level Co
 Stanley Tools
 Starrett L S Co
 Stortz John & Son Inc

Lighting Controls
 (See Wiring Systems)

Lighting Fixtures
 (See Fixtures, Electric Lighting)

Lighting, Outdoor, Gas

Adjusta Post Mfg Co
 Arkla Air Conditioning Corp
 Curtis-Allbrite Lighting Inc
 General Gas Light Co
 Jay Lighting Mfg Co Inc
 Roberts Gordon Appliance Corp
 Wolfe Products Inc

Lighting Rods

Boston Lightning Rod Co
 Electra Mfg Co
 Independent Protection Co Inc

Limestone

(See Stone, Limestone)
Liners, Concrete Form
 (See Concrete Form Liners)

Linoleum, Roll & Tile

Armstrong Cork Co
 Bird & Son Inc
 Congoleum-Nairn Inc
 Fiberboard Paper Prods Inc
 Flinkote Co
 Kochton Plywood & Veneer Co Inc

Lintels, Steel

(See Steel, Structural)

Loaders

(See Tractor Attachments &
 Bulldozer Attachments)

Locks, Door & Cabinet

(See Hardware, Door)

Louver Doors

(See Doors, Louver)

Louvers

(See Ventilators, Roof & Wall;
 also Registers, Heating)

Lumber, Birch

Atlanta Oak Flooring Co
 Commonwealth Lumber Corp
 Connor Lumber & Land Co
 Georgia Pacific Corp
 Goodman Lumber Div Calumet & Hecla
 Hardwood Corp of America
 Hines Edward Lumber Co
 Horner Flooring Co
 Meadow River Lumber Co
 Mower Lumber Co
 Paxton Frank Lumber Co
 Robbins Flooring Co
 Veach-May-Wilson Inc
 Youngblood Lumber Co

Lumber, Cypress

Arrow Tank Co Inc
 Atlanta Oak Flooring Co
 Bradley Southern Div
 Georgia Pacific Corp
 Hardwood Corp of America
 Hillyer-Deutsch-Edwards Inc
 Hines Edward Lumber Co
 National Forest Prods Co
 Phillips Ryhne Lumber Co Inc
 Southern Pine Lumber Co
 Triplett Lumber Co Inc
 Youngblood Lumber Co

Lumber, Fir, Douglas

Arrow Tank Co Inc
 Baxter J H & Co
 Boise Cascade Corp
 Brookings Plywood Corp
 Brooks-Scanlon Inc
 Cascade Lumber Co Div Boise-Cascade
 Contact Lumber Co
 Deer Park Pine Industry Inc
 Diamond Lumber Co
 Evans Products Co
 Exchange Sawmills Sales Co
 Firpine Products Co
 Georgia Pacific Corp
 Giustina Brothers Lumber Co
 Hines Edward Lumber Co
 International Paper Co Long-Bell
 Kochton Plywood & Veneer Co Inc
 Martin Bros Cont & Timber Prods Corp

Mauk Seattle Lumber Co
Menasha Sales Corp
Miller George E Lumber Co
Neils J Lumber Co Div St Regis Paper
Pacific Lumber Co
Pacific Mutual Door Co
Pope & Talbot Inc
Robinson Plywood & Timber Co
Rosboro Lumber Co
Simpson Timber Co
Snellstrom Lumber Co
Summit Sales Co
Timber Products Co
U S Plywood Corp California Div
United States Plywood Corp
Weyerhaeuser Co Lumber & Plywood Div
Willamette Valley Lumber Co
Winton Lumber Sales Co
Youngblood Lumber Co

Lumber, Gum

Angelina Hardwood Sales Co
Bradley Southern Div
Commonwealth Lumber Corp
Fair D L Lumber Co
Fordyce Lumber Co
Galloway Lumber Co
Georgia Pacific Corp
Hardwood Corp of America
Hines Edward Lumber Co
International Paper Co Long-Bell Div
National Forest Prods Co
Paxton Frank Lumber Co
Smith W T Lumber Co
Southern Pine Lumber Co
Texoak Flooring Co
Tibbals Flooring Co
United States Plywood Corp
Veach-May-Wilson Inc
Williams J L & Sons
Youngblood Lumber Co

Lumber, Hemlock, Western

Commonwealth Lumber Corp
Diamond Lumber Co
Georgia Pacific Corp
Giustina Brothers Lumber Co
Hines Edward Lumber Co
International Paper Co Long-Bell Div
Kochton Plywood & Veneer Co Inc
Martin Bros Cont & Timber Prods Corp
Mauk Seattle Lumber Co
Miller George E Lumber Co
Neils J Lumber Co Div St Regis Paper Co
Pacific Mutual Door Co
Pope & Talbot Inc
Robinson Plywood & Timber Co
Rosboro Lumber Co
Simpson Timber Co
Southern Mill & Mfg Co
Summit Sales Co
United States Plywood Corp
Weyerhaeuser Co Lumber & Plywood Div
Willamette Valley Lumber Co
Winton Lumber Sales Co

Lumber, Mahogany

Atlanta Oak Flooring Co
Gregg & Son Inc
Hardwood Corp of America
International Paper Co Long-Bell Div
Mauk Seattle Lumber Co
Paxton Frank Lumber Co
Youngblood Lumber Co

Lumber, Maple

Arrow Tank Co Inc
Atlanta Oak Flooring Co
Commonwealth Lumber Corp
Connor Lumber & Land Co
Cook F C & Co
Galloway Lumber Co
Georgia Pacific Corp
Goodman Lumber Div Calumet & Hecla
Griffith Lumber Co
Hardwood Corp of America
Hines Edward Lumber Co
Horner Flooring Co
McMinnville Mfg Co
Meadow River Lumber Co
Mower Lumber Co
Paxton Frank Lumber Co
Robbins Flooring Co

Tibbals Flooring Co
Veach-May-Wilson Inc
Williams J L & Sons
Yawkey Bissell Hardwood Flooring Co
Youngblood Lumber Co

Lumber, Oak, Red & White

Angelina Hardwood Sales Co
Arkansas Oak Flooring Co
Arrow Tank Co Inc
Atlanta Oak Flooring Co
Bradley Southern Div
Commonwealth Lumber Corp
Cook F C & Co
Crossett Lumber Co
Fair D L Lumber Co
Fordyce Lumber Co
Galloway Lumber Co
Georgia Pacific Corp
Goodman Lumber Div Calumet & Hecla
Griffith Lumber Co
Grisom-Rakestraw Lumber Co
Hardwood Corp of America
Hines Edward Lumber Co
McMinnville Mfg Co
Meadow River Lumber Co
Memphis Hardwood Flooring Co
Miller Bros Co
Mower Lumber Co
National Forest Prods Co
Paxton Frank Lumber Co
Robbins Flooring Co
Smith W T Lumber Co
Texoak Flooring Co
Tibbals Flooring Co
Tremont Lumber Co
Veach-May-Wilson Inc
Virginia Oak Flooring Co Inc
Williams J L & Sons
Yawkey Bissell Hardwood Flooring Co
Youngblood Lumber Co

Lumber, Pine

Arrow Tank Co Inc
Boise Cascade Corp
Bradley Southern Div Potlatch Forests Inc
Brooks-Scanlon Inc
Bruce E L Co
Cascade Lumber Co Div of Boise-Cascade
Commonwealth Lumber Corp
Connor Lumber & Land Co
Contact Lumber Co
Crossett Lumber Co
Deer Park Pine Industry Inc
Dierks Forests Inc
Exchange Sawmills Sales Co
Fair D L Lumber Co
Firpine Products Co
Fordyce Lumber Co
Galloway Lumber Co
Georgia Pacific Corp
Goodman Lumber Div Calumet & Hecla
Grisom-Rakestraw Lumber Co
Hardwood Corp of America
Hillyer-Deutsch-Edwards Inc
Hines Edward Lumber Co
International Paper Co Long-Bell Div
Kochton Plywood & Veneer Co Inc
Mauk Seattle Lumber Co
National Forest Prods Co
Neils J Lumber Co Div St Regis Paper
Ostin David Moulding Corp
Ozan Lumber Co
Pacific Mutual Door Co
Paxton Frank Lumber Co
Phillips Ryhne Lumber Co Inc
Pickering Lumber Corp
Smith M R Shingle Co
Smith W T Lumber Co
Southern Mill & Mfg Co
Timber Products Co
Tremont Lumber Co
Triplet Lumber Co Inc
U S Plywood Corp California Div
United States Plywood Corp
Veach-May-Wilson Inc
Weyerhaeuser Co Lumber & Plywood Div
Willis Lumber Co Inc
Winton Lumber Sales Co
Woodward Lumber Co
Youngblood Lumber Co

Lumber, Pressure Treated

Baxter J H & Co
Crossett Lumber Co

Lumber, Redwood

Arcata Redwood Co
Arrow Tank Co Inc
Georgia Pacific Corp
Kochton Plywood & Veneer Co Inc
Mauk Seattle Lumber Co
Pacific Lumber Co
Paxton Frank Lumber Co
Redwood Sales Co
Southern Mill & Mfg Co
Willits Redwood Products Co
Winton Lumber Sales Co
Youngblood Lumber Co

Machines, Concrete Flooring

(See Concrete Finishing Machines)

Machines, Nailing

(See Nailing Machines)

Machines, Office

(See Office Machines & Equipment)

Marble

(See Flooring & Wall Covering, Marble; also Stone, Marble)

Masonry Tools

(See Tools, Masons, Plasterers)

Mesh, Reinforcing

(See Reinforcing Bars & Mesh)

Metal Lath & Moldings

(See Lath, Metal; also Moldings, Metal)

Millwork & Moldings, Wood

Angelina Hardwood Sales Co
Anson & Gilkey Co
Arkansas Oak Flooring Co
Belwood Industries Inc
Bendix Mouldings Inc
Boise Cascade Corp
Bradley Southern Div Potlatch Forests
Brooks-Scanlon Inc
Bruce E L Co
Caradeo Inc
Cloud Oak Flooring Co
Commonwealth Lumber Corp
Connor Lumber & Land Co
Contact Lumber Co
Cook A B Co
Curtis Companies Inc
Dierks Forests Inc
Elliott Bay Mill Co
Farley & Loetscher Mfg Co
Firpine Products Co
Gregg & Son Inc
Grinnell Sash & Door Co
Hardwood Corp of America
Harris Mfg Co
Heller W C & Co
Hines Edward Lumber Co
International Paper Co Long-Bell Div
Marsh Lumber Co
Martin Bros Cont & Timber Prods Corp
Mauk Seattle Lumber Co
Memphis Hardwood Flooring Co
Morgan Company
Morgan-Wightman Co
Mutual Fir Column Co
National Forest Prods Co
Ostin David Moulding Corp
Ozark Oak Flooring Co
Pacific Mutual Door Co
Paxton Frank Lumber Co
Philadelphia Screen Mfg Co
Plywall Prods Co
Rock Island Millwork Co Factory Div
Seattle Cedar Lumber Mfg Co
Southern Mill & Mfg Co
Spokane Sash & Door Co
Tremont Lumber Co
Tyee Lumber Mfg Co
United States Plywood Corp
Virginia Oak Flooring Co Inc

Weyerhaeuser Co Lumber & Plywood Div
Weyerhaeuser Co Roddis Div
Winton Lumber Sales Co

Mixers, Concrete (See Concrete Mixers)

Moldings, Hardboard

Afco Corp
Commonwealth Lumber Corp
Harris Hardwood Co Inc
Marsh Wall Products Inc
Tex-A-Panel Mfg Co

Moldings, Metal

Afco Corp
Alabama Metal Lath Co Inc
Alside Inc
Aluminum Co of America
B & T Metals Co
Barclay Mfg Co Inc
Bendix Mouldings Inc
Blum Julius & Co Inc
Bostwick Steel Lath Co
Casings Inc & Drywall Trim Div
Central Metal Strip Co
Chamberlin Co of America
Chase Brass & Copper Inc
Colonial Moulding & Frame Co Inc
Consoweld Corp
Formetal Inc
Francis H A & Co Inc
Goldsmith Metal Lath Co
Inland Steel Products Co
Kawneer Co
Kinkead Industries Inc
Lifetime Industries Inc
Loxreen Co Inc
Macklanburg-Duncan Co
Marsh Wall Products Inc
Metal Trims Inc
Miraplas Tile Co
Mueller Brass Co
National Gypsum Co
National Metal Prods
National Window Corp
Nichols Wire & Aluminum Co
Parker S Hdwe Mfg Corp
Penn Metal Co Inc
Pittsburgh Plate Glass Co
Prestile Mfg Co
Pyramid Mouldings Inc
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co
Screens & Fabric Metals Corp
Roberts Co
Selick Walter E & Co
Superior Industries Inc
Tex-A-Panel Mfg Co
United Industries Inc
United States Gypsum Co
United States Plywood Corp
Vulcan Metal Prods Inc
Wallace Mfg Co
Wells Aluminum Corp
Werner R D Co Inc
Wheeling Corrugating Co
Winter Seal Corp
Woodside Engineering Co
Yeck Mfg Co
Youngstown Mfg Inc

Moldings, Plastic

Azrock Floor Products Div Uvalde Rock
Blum Julius & Co Inc
Consoweld Corp
Francis H A & Co Inc
Hartglass Co
J & B Plastics Co Inc
Johnson Plastics Corp
Kentile Inc
Kessler Products Co
Marsh Wall Products Inc
National Plastic Products Co
United States Rubber Co

Moldings, Rubber

Asphalt Corp of America
Goodrich B F Co Flooring Products

Moldings, Wood

(See Millwork & Moldings,
Wood)

Mortar Boxes

Adams Co
Columbia Brick Works
Donley Brothers Co
General Engines Co Inc
Goldblatt Tool Co
Jackson Mfg Co
Keweenaw Mfg Co
Newark Ladder & Bracket Co Inc
Vestal Mfg Co
Wood Shovel & Tool Co

Nailing Machines

Auto-Nailer Co
Fastener Corp
Gang Nail Sales Co Inc
Independent Nail & Packing Co
Morgan Machine Co
Power Line Sales Inc
Powernail Co
Safety Nail Driver Corp
Spotnails Inc

Nails, Aluminum

Alside Inc
Aluminum Co of America
Chase Brass & Copper Inc
Dipcraft Mfg Co
Hassall John Inc
Kaiser Aluminum & Chemical Corp
Kaiser Aluminum & Chemical Sales Inc
Lifetime Industries Inc
Lyt-Alum Inc
Macklanburg-Duncan Co
Nichols Wire & Aluminum Co
Power Line Sales Inc
Powernail Co
Quaker State Metals Co
Reynolds Aluminum Supply Co
Reynolds Metals Co

Nails, Colored

American Nail & Wire Div US Steel Corp
Angell Nail & Chaplet Co
Hillwood Mfg Co
Maze W H Co
Mid-States Steel & Wire Co
Reynolds Aluminum Supply Co
Ruberoid Co

Nails, Common

Amer Steel & Wire Div US Steel Corp
Angell Nail & Chaplet Co
Bethlehem Steel Co
Chase Brass & Copper Inc
Colorado Fuel & Iron Corp
Columbia Geneva Steel Div US Steel
Continental Steel Corp
Jones & Laughlin Steel Corp
Keystone Steel & Wire Co
Maze W H Co
Mid-States Steel & Wire Co
Morgan-Wightman Co
Northwestern Steel & Wire Co
Republic Steel Corp
Reynolds Aluminum Supply Co
Sheffield Div Armco Steel Corp
Tennessee Coal & Iron Div US Steel
United States Steel Corp
Wickwire Bros Inc

Nails, Ring & Screw Type

Amer Steel & Wire Div US Steel Corp
Angell Nail & Chaplet Co
Bethlehem Steel Co
Chase Brass & Copper Inc
Colorado Fuel & Iron Corp
Colorado Fuel & Iron Corp
Continental Steel Corp
Deniston Co
Dipcraft Mfg Co
E G Building Fasteners Corp
Hassall John Inc
Hillwood Mfg Co
Independent Nail & Packing Co
Keystone Steel & Wire Co
Maze W H Co
Mid-States Steel & Wire Co
Nichols Wire & Aluminum Co
Northwestern Steel & Wire Co
Reynolds Aluminum Supply Co
Sheffield Div Armco Steel Corp
United States Steel Corp

Nails, Self-Locking

Amer Steel & Wire Div US Steel Corp
Angell Nail & Chaplet Co
Bethlehem Steel Co
E G Building Fasteners Corp
ES/Products Inc
Hassall John Inc
Reynolds Aluminum Supply Co
United States Steel Corp

Nooks, Dining

Angel Co
Dormalux Co Inc

Oak Lumber (See Lumber, Oak)

Office Machines & Equipment

Allied/Egry Business Systems
American Photocopy Equipment Co
Burroughs Corp
Copymation Inc
Commercial Sound Div
Cutler Metal Prods Co
Dick A B Co
Diebold Inc
Elliot Industries Inc
Indiana Cash Drawer Co
International Business Machines Corp
Marchant Div of Smith-Corona
Minnesota Mining & Mfg Co
Mosler Safe Co
National Cash Register Co
Remington Rand Div Sperry Rand
Silver Bells Ltd
Smith-Corona Marchant Inc
Standard Register Co
Sunroc Corp
Underwood Corp
Victor Adding Machine Co
Woodall Industries Inc

Operators, Door

(See Door Operators, Garage)

Ornamental Iron

Adams Co
Auer Register Co
Baumgartner Gate Factory
Bellkool Co Inc
Blum Julius & Co Inc
Cincinnati Iron Fence Co Inc
Coffman R G Co Inc
Erdle Perforating Co Inc
Haven-Busch Co
Kingsford Ornamental Building Prods
Locke Mfg Co
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(See Ranges & Ovens, Built-In)

Paint Removers

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 DuPont de Nemours & Co Inc E I
 Kyanize Paints Inc
 Lawrence W W & Co
 Lowe Bros
 Parker Ira & Sons
 Peterson D J Co Inc
 Porter-Cable Machine Co
 Pratt & Lambert Inc
 Rutland Fire Clay Co
 Savogran Co
 Vit-Var Corp

Paint Spray Guns

Brown W R Corp
 Burgess Vibrocrafters Inc
 Colorcrete Industries Inc
 Cook Paint & Varnish Co
 Dayton Electric Mfg Co
 Devilbiss Co
 Hudson H D Mfg Co
 Lowe Bros
 Pittsburgh Plate Glass Co
 Root-Lowell Corp
 Thomas Industries Inc Electric Sprayit

**Paints & Coatings, Acoustical
(See Plaster, Acoustical)**

**Paints & Coatings, Concrete,
Brick, Stucco**

Allied Chemical Corp Barrett Div
 Allied Compositions Co Inc
 American Asbestos Product Co
 American Sta-Dri Co
 American Varnish Co
 Anti Hydro Waterproofing Co
 Arco Co
 Armstrong Cork Co
 Barreled Sunlight Paint Co
 Behr Process Corp
 Bi-Products Corp
 Borden Chemical Co Div Borden Co
 Cabot Samuel Inc
 Calbar Inc
 Camp Co Inc
 Carter-Waters Corp
 Ceresit Corp
 Chicago Bronze & Color Works
 Coddington E D Mfg Co
 Colorcrete Industries Inc
 Cook Paint & Varnish Co
 Dasco Co Inc
 Dayton Electric Mfg Co
 Devoe & Reynolds Co Inc
 Dixon Joseph Crucible Co
 DuPont de Nemours & Co Inc E I
 Elliott Paint & Varnish Co
 Evercrete Corp
 Fiberboard Paper Prods Inc
 Flexrock Co
 Forman-Ford & Co
 Glidden Co
 Globe Paint Works Inc
 Horn A C Companies Div Sun Chem Corp
 Jewel Paint & Varnish Co
 Johnson's Wax
 Kay-Tite Co
 Kyanize Paints Inc
 Larsen Products Corp
 Lastik Paint Inc
 Lawrence W W & Co
 Lowe Bros
 Lucas John & Co Inc
 McGuire Walter Co Inc
 Marietta Paint & Color Co
 Martin-Senour Co
 Massey-Ferguson Inc Industrial Div
 Minnesota Paints Inc
 Mobile Paint Mfg Co
 Monroe Co Inc
 National Caselin Co
 National Chemical & Mfg Co
 National Gypsum Co
 National Lead Co
 National Mfg Corp
 National Pool Equipment Co
 O'Brien Corp
 Parker Ira & Sons
 Peaselee-Gaulbert Paint & Varnish Co
 Penn Crete Prods Co

Pennsalt Chemicals Corp
 Permagile Corp of America
 Permiteco Inc
 Peterson D J Co Inc
 Phelan-Faust Paint Mfg Co
 Pittsburgh Plate Glass Co
 Plextone Corp of America
 Pratt & Lambert Inc
 Protectub Inc
 Protection Products Mfg Co
 Quartz Mosaic Inc
 Quigley Co Inc
 Reardon Co
 Re-Nu-It Corp
 Rockcote Paint Co
 Rust-Oleum Corp
 Sapolin Paints Inc
 Sargent-Gerke Co
 Seddon Co
 Seidlitz Paint & Varnish Co
 Shakertown Corp
 Sherwin-Williams Co
 Silicones Div Union Carbide
 Silicone Products Dept General Electric
 Smooth-On Mfg Co
 Standard Dry Wall Products Inc
 Steelcote Mfg Co
 Sullivan Co
 Super Concrete Emulsions
 Surfco Sales Co
 Tamms Industries Co
 Tiger Brands Inc Sub of Basic Inc
 Toch Bros
 Tremco Mfg Co
 Truscon Labs Inc
 Tufcrete Co Inc
 Twentieth Century Paint & Varnish
 United States Gypsum Co
 Valspar Corp
 Vita-Var Corp
 Watco-Dennis Corp
 Wilbur & Williams Co
 Wooster Sealkote Co
 Yenkin-Majestic Paint Corp

**Paints & Coatings, Roof
(Aluminum, White, Asphalt)**

Abesto Mfg Co
 Allied Chemical Corp Barrett Div
 American Asbestos Product Co
 Androc Chemical Co
 Arco Co
 Bi-Products Corp
 Borden Chemical Co Div Borden Co
 Cabot Samuel Inc
 Calbar Inc
 Carey Philip Mfg Co
 Chicago Bronze & Color Works
 Cook Paint & Varnish Co
 Dad & Lad Co
 Dasco Co Inc
 Dixon Joseph Crucible Co
 Donley Brothers Co
 DuPont de Nemours & Co Inc E I
 Forman-Ford & Co
 Glidden Co
 Globe Paint Works Inc
 Henry W W Co
 Horn A C Companies Div Sun Chem Corp
 Lastik Paint Inc
 Lawrence W W & Co
 Lowe Bros
 Lucas John & Co Inc
 Marietta Paint & Color Co
 Meadows W R Inc
 Minnesota Paints Inc
 Mobile Paint Mfg Co
 Monroe Co Inc
 National Gypsum Co
 National Mfg Corp
 O'Brien Corp
 Peaselee-Gaulbert Paint & Varnish Co
 Permiteco Inc
 Phelan-Faust Paint Mfg Co
 Pittsburgh Plate Glass Co
 Plextone Corp of America
 Quigley Co Inc
 Ruberoid Co
 Rutland Fire Clay Co
 Seddon Co

Seidlitz Paint & Varnish Co
 Sheffield Bronze Paint Corp
 Sherwin-Williams Co
 Sonneborn Chemical & Refining Corp
 Steelcote Mfg Co
 Sullivan Co
 Tamms Industries
 Toch Bros
 Tufcrete Co Inc
 Twentieth Century Paint & Varnish
 United States Gypsum Co
 Vita-Var Corp
 Wilbur & Williams Co

**Paints & Coatings, Wood
Treatment**

Abesto Mfg Co
 Allied Chemical Corp Barrett Div
 Androc Chemical Co
 Anti Hydro Waterproofing Co
 Bi-Products Corp
 Cabot Samuel Inc
 Carbolineum Wood Preserving Co
 Ceresit Corp
 Chemical Products Div Darworth Inc
 Cre-O-Tox Chemical Co
 Dasco Co Inc
 Dayton Electric Mfg Co
 Desmond Bros Paint Co
 DuPont de Nemours & Co Inc E I
 Horn A C Companies
 Kyanize Paints Inc
 Lawrence W W & Co
 Lowe Bros
 Lucas John & Co Inc
 Marietta Paint & Color Co
 Mobile Paint Mfg Co
 National Mfg Corp
 Osmose Wood Preserving Co of America
 Parker Ira & Sons
 Peaselee-Gaulbert Paint & Varnish Co
 Peterson D J Co Inc
 Plextone Corp of America
 Protection Products Mfg Co
 Reynolds Aluminum Supply Co
 Shell Chemical Co
 Vita-Var Corp
 Watco-Dennis Corp
 Wilbur & Williams Co
 Wood Treating Chemicals Co

**Paints, Interior & Exterior,
Plastic**

Coddington E D Mfg Co
 Cook Paint & Varnish Co
 Dasco Co Inc
 Devoe & Reynolds Co Inc
 DuPont de Nemours & Co Inc E I
 Fuller W P & Co
 Gelvatex Paint Div
 Gildden Co
 Horn A C Companies
 Kyanize Paints Inc
 Lowe Bros
 Lucas John & Co Inc
 Marietta Paint & Color Co
 Mobile Paint Mfg Co
 National Caselin Co
 National Gypsum Co
 National Mfg Corp
 O'Brien Corp
 Parker Ira & Sons
 Peaselee-Gaulbert Paint & Varnish Co
 Penn Crete Prods Co
 Peterson D J Co Inc
 Plextone Corp of America
 Quartz Mosaic Inc
 Reardon Co
 Seidlitz Paint & Varnish Co
 Tamms Industries Co
 Twentieth Century Paint & Varnish
 United States Gypsum Co
 Vita-Var Corp
 Wilbur & Williams Co
 Wooster Sealkote Co
 Yenkin-Majestic Paint Corp

**Paints & Stains, Interior &
Exterior, Oil**

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 American Varnish Co

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 Behr Process Corp
 Bruce E L Co
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 Kyanize Paints Inc
 Lawrence W W & Co
 Lowe Bros
 Marietta Paint & Color Co
 Martin-Senour Co
 Minnesota Paints Inc
 Mobile Paint Mfg Co
 Monsanto Chemical Co Organic Chemicals
 National Chemical & Mfg Co
 National Lead Co
 National Mfg Corp
 O'Brien Corp
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 Pratt & Lambert Inc
 Protection Products Mfg Co
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 Re-Nu-It Corp
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 Sapolin Paints Inc
 Sargent-Gerke Co
 Seidlitz Paint & Varnish Co
 Sherwin-Williams Co
 Standard-Toch Chemicals Inc
 Steelcote Mfg Co
 Sullivan Co
 Thompson E A Co Inc
 Toch Bros
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 Truscon Labs Inc
 Twentieth Century Paint & Varnish
 United States Plywood Corp
 Valspar Corp
 Vita-Var Corp
 Watco-Dennis Corp
 Wilbur & Williams Co
 Wurdack Chemical Co

Paints, Textured

American Asbestos Product Co
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 Arco Co
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 Coddington E D Mfg Co
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 Kaiser Gypsum Co Inc
 Kyanize Paints Inc
 Lawrence W W & Co
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 National Chemical & Mfg Co
 National Gypsum Co

Penn Crete Prods Co
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 Reardon Co
 Re-Nu-It Corp
 Rockcote Paint Co
 Sapolin Paints Inc
 Seddon Co
 Seidlitz Paint & Varnish Co
 Sherwin-Williams Co
 Sonneborn Chemical & Refining Corp
 Tamms Industries Co
 Tremco Mfg Co
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 United Gilsonite Laboratories
 United States Gypsum Co

Panelwork, Plastic

(See Plastic Laminates; also Plywood, Overlaid)

Panelwork, Wallboard

(See Wallboard; also Plaster, Acoustical)

Panelwork, Wood

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 Bangkok Industries Inc
 Bradley Southern Div Potlatch Forests
 Bruce E L Co
 Capilano Timber Co Ltd
 Cole Mfg Co
 Commonwealth Lumber Corp
 Connor Lumber & Land Co
 Cook A B Co
 Diamond Lumber Co
 Dulaney Plywood Corp
 Evans Products Co
 Fair D L Lumber Co
 Georgia Pacific Corp
 Hardwood Corp of America
 Higgins Industries Inc
 Jones Veneer & Plywood Co
 Kochton Plywood & Veneer Co Inc
 Lehman Co
 Marsh Wall Products Inc
 Masonite Corp
 McMinnville Mfg Co
 Miller Bros Co
 Miracle Hinge Co
 Neils J Lumber Co Div St Regis Paper
 Paxton Frank Lumber Co
 Plywall Prods Co
 Plywood Co
 Reynolds Aluminum Supply Co
 Simpson Timber Co
 Southern Mill & Mfg Co
 Union Lumber Co
 Upson Co
 Weber Veneer & Plywood Co
 Weyerhaeuser Co Lumber & Plywood Div
 Weyerhaeuser Co Roddis Div
 Williams J L & Sons
 Willits Redwood Products Co
 Youngblood Lumber Co

Paper, Building

(See also Insulation, Sheathing; Vapor Barriers)

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 Appleton Coated Paper Co
 Bestwall Gypsum Co
 Bird & Son Inc
 Carey Philip Mfg Co
 Delta Co
 Fleming & Sons Inc
 Flintkote Co
 Globe Roofing Products Co Inc
 Johns-Manville Corp
 Logan-Long Co
 Ludlow Papers Div of Ludlow Corp
 National Mfg Corp
 Protective Papers Inc
 Reynolds Metals Co
 Richkraft Co
 Ruberoid Co
 Silvercote Prods Inc
 Thilmany Pulp & Paper Co
 Wilson Grant Inc

Particle Board

Plywood Service Inc
 Pope & Talbot Inc
 Weyerhaeuser Co Silvatek Div

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 Filon Plastics Corp
 Holcomb & Hoke Mfg Co Inc
 Johns-Manville Corp
 Kaiser Gypsum Co Inc
 Kimble Glass Co Sub Owens-Illinois
 National Gypsum Co
 Pease Woodwork Co Inc
 Penn Metal Co Inc
 Petterson J C Corp
 Richards-Wilcox Mfg Co
 Rolscreen Co
 Simpson Timber Co
 Three Centuries
 United States Gypsum Co
 Wacowall Div Waco-Porter Corp
 Weber Showcase & Fixture Co Inc
 Wels Henry Mfg Co

Partitions, Steel

All Metal Partition Co Inc
 Biersach & Neidermeyer Co
 Flat Metal Mfg Co
 Macomber Inc
 Meyers Fred L Mfg Co
 Michel & Pfeffer Iron Works Inc
 Mills Co
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 United States Gypsum Co
 United States Steel Corp
 Virginia Metal Products Inc
 Weber Showcase & Fixture Co Inc
 Wels Henry Mfg Co
 Wheeling Corrugating Co

Pine Lumber
 (See Lumber, Pine)

Pipe, Asbestos Cement

Johns-Manville Corp
 Keesbey & Mattison Co

Pipe, Bituminized Fiber

Bowerston Shale Co
Brown Co
Central Foundry Co
Flintkote Co
Line Material Industries McGraw-Edison
Orangeburg Mfg Co Div Flintkote Co
Sonoco Prods Co Construction Prod Div
Triangle Conduit & Cable Co Inc

Pipe, Cast Iron

Central Foundry Co
Industrial Iron Works
Victaulic Co of America
Weiskittel Co Inc

Pipe, Sewer

American Vitrified Prods Co
Bowerston Shale Co
Builders Brick Co
Carey Philip Mfg Co
Carlson Products Corp
Clay City Pipe Co
Division Lead Co
Evanite Plastic Co Div
Graystone Div of Boise Cascade Corp
Interstate Brick Co
Kaul Clay Co
Logan Clay Prods Co
Natco Corp
Owensboro Sewer Pipe Co
Patton Clay Mfg Co
Pomona Terra-Cotta Co
Prestite Div American-Marietta Co
Robinson Clay Product Co
Sonoco Prods Co Construction Prod Div
Southwestern Plastic Pipe Co
Stillwater Clay Products Co
Streator Drain Tile Co
Superior Clay Corp
Texas Vitrified Pipe Co

Pipe, Steel

Acme-Newport Steel Co
Allegheny Ludlum Steel Co
Armco Drainage & Metal Products
Bethlehem Steel Co
Columbia Geneva Steel Div US Steel
Haven-Busch Co
Higbie Mfg Co Avon Tube Div
Jones & Laughlin Steel Corp
Kaiser Steel Corp
Laclede Steel Co
Reeves Steel & Mfg Co Div
Republic Steel Corp
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co
Ryerson Joseph T & Son
United States Steel Corp
Victaulic Co of America
Wheeling Steel Corp
Youngstown Sheet & Tube Co

Pipe & Tubing, Aluminum

Aluminum Co of America
B & T Metals Co
Blum Julius & Co Inc
Bridgeport Brass Co
Chase Brass & Copper Inc
H-P Products
Harvey Aluminum
Hosking John H Co
Kaiser Aluminum & Chemical Corp
Kaiser Aluminum & Chemical Sales Inc
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Ryerson Joseph T & Son
Victaulic Co of America
Wells Aluminum Corp
Wolverine Tube Div
Youngstown Mfg Inc

Pipe & Tubing, Brass & Copper

Anaconda American Brass Co
Blum Julius & Co Inc
Bridgeport Brass Co
Chase Brass & Copper Inc
Hussey C G & Co
Mueller Brass Co
Phelps Dodge Copper Prods Corp
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co

Triangle Conduit & Cable Co Inc
Wolverine Tube Div

Pipe & Tubing, Plastic

Anesite Co
Blum Julius & Co Inc
Byers A M Co
Cannelton Sewer Pipe Co
Carlson Products Corp
Dow Chemical Co
Evanite Plastic Co Div
Goodall Rubber Co Inc
Goodrich B F Industrial Products Co
J & B Plastics Co Inc
Johns-Manville Corp
Johnson Plastics Corp
Lasco Industries Inc
Orangeburg Mfg Co Div Flintkote Co
Raybestos-Manhattan Inc M R Div
Republic Steel Corp
Ryerson Joseph T & Son
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Pipe, Wrought Iron

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Today's Home Fawcett Publishing Corp
Universal Plan Service
Weyerhaeuser Co Lumber & Plywood Div

Plaster, Acoustical

Bestwall Gypsum Co
Builders Fireplace & Supply
Great Lakes Carbon Corp Perlite Dept
National Gypsum Co
Texas Vermiculite Co
Tiger Brands Inc Sub of Basic Inc
United States Gypsum Co
US Mineral Wool Co
Vermiculite-Northwest Inc
Zonolite Co

Plaster Bonding

(See Bonding Agents, Plaster & Concrete)

Plaster, Guns, Pneumatic

(See Guns, Pneumatic, Plaster)

Plaster, Gypsum

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Bestwall Gypsum Co
Celotex Corp
Flintkote Co
Grand Rapids Gypsum Co
Kaiser Gypsum Co Inc
National Gypsum Co
Ruberoid Co
Tamm Industries Co
United States Gypsum Co

Plaster, Insulating

Great Lakes Carbon Corp Perlite Dept
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National Gypsum Co
Texas Vermiculite Co
US Mineral Wool Co
Vermiculite-Northwest Inc
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(See Tools, Masons, Plasterers)

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(See also Countertops)

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(See Moldings, Plastic)

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Cole Mfg Co
Dipcraft Mfg Co
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Fibresin Plastics Co
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Johns-Manville Corp
Lasco Industries Inc
Miraplas Tile Co
Morgan-Wightman Co
Monostructure Inc
Mueller Brass Co
Owens-Corning Fiberglas Corp
Pennsylvania Wire Glass Co
Plasteel Products Corp
Plymold Co
Polyplastex United Inc
Structoglas Inc
United States Plywood Corp
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Plastic Pipe

(See Pipe & Tubing, Plastic)

Plastic Screening

(See Screening, Plastic)

Plastic Tile

(See Tile, Vinyl)

Plate Glass (See Glass, Plate)

Plumbing Fixtures

(See also Shower Stalls;
Vanities, Lavatory)

Active Tool & Manufacturing Co
Alamark Inc
Allianceware Inc
American-Standard Plumbing & Heating
Borg-Warner Corp Ingersoll Humphreys
Briggs Mfg Co
Case Mfg Corp Div
Chicago Faucet Co
Chicago Pottery Co
Colonna Angelo Inc
Cutler Metal Prods Co
Delta Faucet Corp
Efron Theodore Mfg Co
Eljer Co
Gerber Plumbing Fixtures Corp
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Powers Regulator Co
Reed Cromex Corp
Richmond Plumbing Fixtures
Saniglas Inc
Sherle-Wagner
Silver Line Co
Sloan Valve Co
Smoot-Holman Co
Speakman Co
Sterling Faucet Co
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Weis Henry Mfg Co
Wessels Co
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Plumbing, Prefabricated, Assembly

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Morgan-Wightman Co
Sterling Faucet Co

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Douglas Fir Plywood Co
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Firpine Products Co
Georgia Pacific Corp
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Kochton Plywood & Veneer Co Inc
Martin Bros Cont & Timber Prods Corp
Mauk Seattle Lumber Co
Medford Veneer & Plywood Corp
Menasha Sales Corp
Midwest Plywood Co
Multnomah Plywood Corp
North Pacific Plywood Inc
Northwest Door Co Div St Regis Paper
Pacific Lumber Co
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Rosboro Lumber Co
Simpson Timber Co
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Sunset Plywood Co
Three Rivers Plywood & Timber
Timber Products Co
Triplett Lumber Co Inc
US Plywood Corp Mutual Plywood
United States Plywood Corp
Vancouver Plywood Co
Weyerhaeuser Co Lumber & Plywood
Weyerhaeuser Co Roddis Div
Williamette Valley Lumber Co
Woodward Lumber Co
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Georgia Pacific Corp
Kochton Plywood & Veneer Co Inc
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Plywood Service Inc
Rosboro Lumber Co
U S Plywood Corp California Div
United States Plywood Corp

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Birmingham Plywood Sales Co
Connor Lumber & Land Co
Dulaney Plywood Corp
Elliott Bay Mill Co
Georgia Pacific Corp
Higgins Industries Inc
Iplik Door Co Inc
Jasper Wood Products Co Inc
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Kennebec Inc
Kochton Plywood & Veneer Co Inc
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Midwest Plywood Co
Niagara Plywood Co Inc
North Pacific Plywood Inc
Northwest Door Co Div
Pacific Mutual Door Co
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Plywall Products Co Inc
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Puget Sound Plywood Inc
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Plywood, Overlaid

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(See Plastic Panels,
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(See Chimneys, Prefabricated)

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(See Fireplaces, Prefabricated)

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(See Home Manufacturers Directory)

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(See Buildings, Metal)

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Pease Woodwork Co Inc
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Republic Steel Corp Truscon Div
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Bell & Gossett Co
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Crane Co
Dayton Electric Mfg Co
Decatur Pump Co
Deming Co
Dunham-Bush Inc
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Gardner-Denver Co
Goulds Pumps Inc
Hoffman Specialty Mfg Corp
Jacuzzi Bros Inc
Lancaster Pump & Mfg Co Inc
Modern Swimming Pool Co Inc
Myers F E & Bros Co
Novo Pump & Engine Co
Pacific Pumping Co
Red Jacket Mfg Co
Taco Heaters Inc
Tait Mfg Co
Thrush H A & Co
Universal Mfg Co
Well Pump Co
Worthington Corp

Pumps, Contractor

Aurora Pump Div New York Air Brake
Barnes Mfg Co
Buffalo Forge Co
C H & E Mfg Co
Chain Belt Co
Chicago Pneumatic Tool Co
Construction Machinery Co
Continental Pump Co
Dayton Electric Mfg Co
Deming Co
Dempster Mill Mfg Co
Everite Pump & Mfg Co Inc
Fairbanks Morse & Co
Flint & Walling Mfg Co Inc
Gorman-Rupp Co
Goulds Pumps Inc
Griffin Wellpoint Corp
Homelite Div Textron Inc
Jacuzzi Bros Inc
Jaeger Machine Co
Kenco Pump Div
Lancaster Pump & Mfg Co Inc
Marlow Pumps Div Bell & Gossett Co
Master Mechanic Mfg Co
Midland Products Co
Morrison Co
Novo Pump & Engine Co
Pacific Mercury Electronics
Pacific Pumping Co
Peerless Pump Hydraulics Div
Red Jacket Mfg Co
Rice Pump & Machine Co
Robbins & Myers Inc
Tait Mfg Co
Universal Mfg Co
Worthington Corp

Pumps, Domestic Water Supply

Aeromotor Div Motor Products Corp
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Clayton Mark & Co
Continental Pump Co
Dayton Electric Mfg Co
Decatur Pump Co
Deming Co
Dempster Mill Mfg Co
Everite Pump & Mfg Co Inc
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Pumps, Heat

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Aurora Pump Div
Burnham Corp Warm Air & Cooling Div
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Coleman Co Inc
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Trane Co
Typhoon Heat Pump Co Div Hupp Corp
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York Corp Sub Borg-Warner

Pumps, Sump

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Aurora Pump Div New York Air Brake Co
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Le Roi Div Westinghouse Air Brake Co
Marlow Pumps Div Bell & Gossett Co
Milwaukee Faucets Inc
Morgan-Wightman Co
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Peerless Pump Hydraulics Div
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Quarry Tile

(See Tile, Quarry)

Raceways

(See Conduits & Raceways)

Radial Saws

(See Saws, Radial)

Radiators, Baseboard

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Berko Electric Mfg Corp
Burnham Corp Heating & Cooling
Crane Co

Dunham-Bush Inc
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 Edwards Engineering Corp
 Electro-Ray Mfg Co
 Embassy Steel Prods Inc
 Fedders Corp
 Federal Boiler Co Inc
 General Electric Co Wiring Device
 Kresno-Stamm Corp
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 Modine Mfg Co
 Nesbitt John J Inc
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 Rome-Turney Radiator Co
 Slant-Fin Radiator Corp
 Stratton Terstege Co
 Trane Co
 Utica Radiator Corp
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 Well-McLain Co
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Radiators, Convecter

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 Gaffers & Sattler Div
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 Gray & Dudley Co
 Gregg & Son Inc
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 Hotpoint Div
 Kelvinator Div American Motors Co
 Lindemann A J & Hoverson Co
 Magic Chef
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 Monarch Range Co
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 Oakland Foundry Co
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 Paxton Frank Lumber Co
 Preway Inc
 Roper Geo D Corp
 Stove Works Inc
 Suburban Propane Gas Corp
 Tappan Co
 Tennessee Stove Works
 Waste King Corp
 Wedgwood-Holly Appliance Co
 Weiskittel Co Inc
 Welbilt Stove Co
 Whirlpool Corp

Receptors, Shower Stall

(See Shower Receptors)

Redwood Lumber

(See Lumber, Redwood)

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 Chambers Built-Ins Inc
 Douglas Crestlyn International Inc
 Dwyer Products Corp
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 Kelvinator Div American Motors Co
 Lindemann A J & Hoverson Co
 Morphy-Richards Inc
 Philco Corp
 Preway Inc
 Quicfrez Inc
 Revco Inc
 Sub Zero Freezer Co Inc
 Thermador Elec Mfg Co
 Westinghouse Electric Appliance Div
 Westinghouse Electric Corp

Refrigerators & Freezers, Electric

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 Admiral Corp
 Amana Refrigeration Inc
 Barkow Aug G Mfg Co Inc
 Chambers Built-Ins Inc
 Frigidaire Div General Motors Corp
 General Electric Co Major Appliance
 Gibson Refrigerator Sales Corp
 Gray & Dudley Co
 Hotpoint Div
 Insta-Matic Heater Co
 Kelvinator Div American Motors Co
 King Refrigerator Corp
 Manitowoc Equipment Works
 Norge Div Borg-Warner Corp
 Quicfrez Inc
 Revco Inc
 Sub Zero Freezer Co Inc
 Tappan Co
 Thermador Elec Mfg Co
 Victor Prods Corp
 Westinghouse Electric Appliance Div
 Westinghouse Electric Corp
 Whirlpool Corp

Refrigerators & Freezers, Gas

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 Preway Inc
 Whirlpool Corp

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Colorado Fuel & Iron Corp
Continental Steel Corp
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Forbes Steel Corp
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Kaiser Aluminum & Chemical Sales Inc
Laclede Steel Co
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Republic Steel Corp Truscon Div
Ryerson Joseph T & Son
Sheffield Steel Co
United States Steel Corp
Youngstown Sheet & Tube Co

**Roof Decks
(See Decking)**

**Roofing Shingles
(See Shingles)**

**Roofing, Aggregates For
Kaiser Aluminum & Chemical Corp
Willingham-Little Stone Div**

Roofing, Asbestos Cement

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Allied Chemical Corp Barrett Div
Carey Phillip Mfg Co
Ceresit Corp
Certain-Teed Sales Corp
Fiberboard Paper Prods Inc
Flintkote Co
Johns-Manville Corp
Keasbey & Mattison Co
Lastik Paint Inc
Logan-Long Co
Monroe Co Inc
National Gypsum Co
Pecora Inc
Reynolds Aluminum Supply Co
Ruberoid Co
Rutland Fire Clay Co
Sonneborn Chemical & Refining Corp
Sullivan Co
Supradur Corp of N Y

Roofing, Asphalt
Allied Chemical Corp Barrett Div
American Bitumuls & Asphalt Co
Bird & Son Inc
Borden Chemical Co Div Borden Co
Carey Phillip Mfg Co
Celotex Corp
Certain-Teed Products Corp
Fiberboard Paper Prods Inc
Flintkote Co
Fry Lloyd A Roofing Co
Globe Roofing Products Co Inc
Horn A C Companies
Johns-Manville Corp
Keasbey & Mattison Co
Lastik Paint Inc
Lehon Co
Logan-Long Co
Monroe Co Inc
National Mfg Corp
Owens-Corning Fiberglas Corp
Plectone Corp of America
Protective Papers Inc
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Ruberoid Co
Sonneborn Chemical & Refining Corp
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(See Shingles & Shakes)**

**Roofing & Siding, Aluminum
(See also Siding, Aluminum
Clapboard)**

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Mastic Corp
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Quaker State Metals Co
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co
Reynolds Metals Co
Ryerson Joseph T & Son
U S Aluminum Siding Corp
Winter Seal Corp

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Continental Steel Corp
Granite City Steel Co
Inland Steel Products Co
Macomber Inc
Plasteel Products Corp
Reeves Steel & Mfg Co Div
Republic Steel Corp Truscon Div
Reynolds Aluminum Supply Co
Ryerson Joseph T & Son
United States Steel Corp
Woodside Engineering Co

Roofing, Terne Metal
Ceco Steel Prods Corp
Follansbee Steel Corp
Inland Steel Products Co
Klauer Mfg Co
Reeves Steel & Mfg Co Div
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United States Steel Corp

**Roofing, Tile
(See Tile, Roofing)**

**Room Dividers
(See Partitions)**

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Duro Metal Products Co
Ekstrom Carlson & Co
Oliver Machinery Co
Porter-Cable Machinery Co
Rockwell Mfg Delta Power Tool Div
Skill Corp
Stanley Electric Tools
Wallace J D Co Inc
Whitney Baxter D & Son Inc
Yates-American Machine Co

**Rubber Flooring
(See Tile, Rubber)**

Safes, Wall, Built-in
Diebold Inc
Meilink Steel Safe Co

HERCULES Insulated
WALL VAULTS ®
When installed behind mirror or picture entire unit, including combination lock, is flush with wall.
NEILINK STEEL SAFE COMPANY, Toledo 6, Ohio

Mosler Safe Co
Remington Rand Div Sperry Rand

**Salamanders
(See Heaters, Contractors,
Portable)**

Sanders
Albertson & Co Inc
American Floor Machine Co
Atlas Floor Surfacing Machinery Corp
Atlas Press Co
Beach Mfg Co
Behr-Manning Co
Black & Decker Mfg Co
Blum Julius & Co Inc
Boice Crane Co
Burgess Vibrocrafters Inc
Carborundum Co
Chicago Pneumatic Tool Co
Clarke Floor Machine Co Div
Cummins Portable Tools Div
Dayton Electric Mfg Co
DeWalt Inc
Dormeyer Corp
Duro Metal Products Co
Ekstrom Carlson & Co
Grinding & Polishing Mach Corp
Holt Mfg Co
Mattison Machine Works
Merit Products Inc
Millers Falls Co
Milwaukee Elec Tool Corp
National-Detroit Inc
Oliver Machinery Co
Peninsula Tool Co Inc
Portable Electric Tools Inc
Porter-Cable Machine Co
Remington Arms Co Inc
Rockwell Mfg Delta Power Tool Div
Skill Corp
Speedway Mfg Div Thor Power Tool Co
Stanley Electric Tools
Thor Power Tool Co
Wen Products Inc
Yates-American Machine Co

**Sash
(See Windows & Doors,
Combination)**

**Sash Balances
(See also Hardware,
Window)**

Allmetal Weatherstrip Co
Caldwell Mfg Co
Central Metal Strip Co
Dennis W J & Co
Farley & Loetscher Mfg Co
Goshen Sash & Door Co
Grand Rapids Hardware Co
Ideal Brass Works Inc
Industrial Iron Works
Lock-Joint Window Co
Macklanburg-Duncan Co
Master Metal Strip Service Inc
Precision Weatherstrip Co
Fullman Mfg Corp
Sager Weatherstrip & Caulking
Turner & Seymour Mfg Co
Unique Window Balance Corp
Weatherproof Products Corp
Zegers Inc

Sawing Equipment
Cenatron Industries
Foley Mfg Co

**Saws, Band
(See Tools, Carpenter, Hand)**

Saws, Chain, Tree Felling
Atkins Saw Div Borg-Warner
Dayton Electric Mfg Co
General Engines Co Inc
Homelite Div Textron Inc
Lancaster Pump & Mfg Co Inc
Milwaukee Elec Tool Corp
Morgan-Wightman Co
Porter-Cable Machine Co
Remington Arms Co Inc

Saws, Circular
Albertson & Company Inc
American Woodworking Machinery Co
Atkins Saw Div Borg-Warner
Atlas Press Co
Beach Mfg Co
Belsaw Machinery Co
Black & Decker Mfg Co Inc

Blum Julius & Co Inc
 Boice Crane Co
 Comet Mfg Div Siegler Corp
 Consolidated Mach & Supply Co Ltd
 Dayton Electric Mfg Co
 DeWalt Inc
 Diston Div H K Porter Co Inc
 Dormeyer Corp
 Duro Metal Products Co
 Ekstrom Carlson & Co
 General Hardware Mfg Co Inc
 Heinemann Saw Corp
 Jones Superior Machine Co
 Huther Brothers Saw Mfg Co Inc
 Lippmann Engineering Works Inc
 Master Woodworker Mfg Co Inc
 Mattison Machine Works
 Milwaukee Elec Tool Corp
 Oliver Machinery Co
 Portable Electric Tools Inc
 Porter-Cable Machine Co
 Remington Arms Co Inc
 Rockwell Mfg Delta Power Tool Div
 Shopmaster Div Energy Mfg Co
 Speedway Mfg Div Thor Power Tool Co
 Stanley Electric Tools
 Victor Inc
 Wallace J D Co Inc
 Whitney Baxter D & Son Inc
 Yates-American Machine Co

Saws, Concrete
 (See Concrete Sawing
 Equipment)

Saws, Files For
 (See Files, Saw & Circular)

Saws, Gasoline
 C H & E Mfg Co
 Dayton Electric Mfg Co
 Jones Superior Machine Co
 King Mfg Co
 Lancaster Pump & Mfg Co Inc
 Master Woodworker Mfg Co Inc
 Remington Arms Co Inc
 Thomas Industries Inc
 Wacowall Div Waco-Porter Corp

Saws, Hack
 (See Tools, Carpenter, Hand)

Saws, Masonry
 (See Concrete Sawing Equip-
 ment; also Cutters)

Saws, Portable Electric
 Albertson & Company Inc
 American Floor Machine Co
 Black & Decker Mfg Co
 Blum Julius & Co Inc
 Burgess Vibrocrafters Inc
 Chicago Pneumatic Tool Co
 Cummins Portable Tools Div
 Dalton Mfg Co
 Dayton Electric Mfg Co
 Diston Div H K Porter Co
 Forsberg Mfg Co
 Heinemann Saw Corp
 Hood Bros
 Kett Tool Co
 Krieg Victor J Inc
 Master Woodworker Mfg Co Inc
 Millers Falls Co
 Milwaukee Elec Tool Corp
 Portable Electric Tools Inc
 Porter-Cable Machine Co
 Producers & Distributors Inc
 Remington Arms Co Inc
 Ryerson Joseph T & Son
 Skill Corp
 Speedway Mfg Div Thor Power Tool Co
 Stanley Electric Tools
 Thor Power Tool Co
 Wells Mfg Corp
 Wen Products Inc

Saws, Radial
 American Woodworking Machinery Co
 Comet Mfg Div Siegler Corp
 Consolidated Mach & Supply Co Ltd
 DeWalt Inc
 Master Woodworker Mfg Co Inc

Portable Electric Tools Inc
 Rockwell Mfg Delta Power Tool Div
 Wallace J D Co Inc

Saws, Sabre
 American Floor Machine Co
 Cummins Portable Tools Div
 Dalton Mfg Co
 Diston Div H K Porter Co Inc
 Dormeyer Corp
 Hood Bros
 Miller George E Lumber Co
 Skill Corp
 Peninsula Tool Co Inc
 Portable Electric Tools Inc
 Porter-Cable Machine Co
 Rockwell Mfg Delta Power Tool Div
 Stanley Electric Tools

Scaffolding & Shoring
 (See also Posts, Adjustable)

Ajak Building Bracket Co
 Amidon Engineering Co
 Ballymore Co
 Beaver Advance Corp
 Berg John Mfg Co
 Bill-Jax Inc
 Conver Steel & Wire Co
 Dayton Sure-Grip & Shore Co
 Du-All Scaffold Bracket Co
 Duo-Safety Ladder Corp
 Farwell Metal Fabricating
 Goldblatt Tool Co
 Goshen Churn & Ladder Inc
 Hico Corp of America
 Hoitama Adjustable Scaffold Bracket Co
 Holland Ladder & Mfg Co
 Louisville Ladder Co
 Marvel Equipment Corp
 Mauk Seattle Lumber Co
 Michigan Ladder Co
 Morgen Mfg Co
 Moulton Ladder Mfg Co
 Newark Ladder & Bracket Co Inc
 Olympic Foundry Co
 Patent Scaffolding Co
 Pittsburgh Plate Glass Co
 Reiman & Georger Inc
 Rich Howard B Inc
 Richbilt Mfg Co
 Safway Steel Products Inc
 Steel Scaffolding Co
 Superior Scaffold Co
 Symons Clamp & Mfg Co
 Tilley John S Ladders Co Inc
 Tubular Structures Corp of America
 Wacowall Div Waco-Porter Corp
 Wagner Mfg Co
 Werner R D Co Inc

SCR Brick
 (See Brick, SCR)

Creeding Machines, Concrete
 (See Concrete Finishing
 Machines)

Screen Hardware
 (See Hardware, Screen &
 Storm Sash)

Screening, Louver Type
 Alasco Inc
 Kaiser Aluminum & Chemical Corp
 Kaiser Aluminum & Chemical Sales Inc
 Tyler Arthur F Co

Screening, Metal Wire
 Alabama Wire Co Inc
 Aluminum Co of America
 American Steel & Wire Div
 Chamberlin Co of America
 Chase Brass & Copper Inc
 Colorado Fuel & Iron Corp
 Cyclone Fence Dept Amer Steel & Wire
 DeVac Inc
 Gilbert & Bennett Mfg Co
 Hanover Wire Cloth Div
 Heilig Bros Co
 Hettrick W E & Son Co
 Ida Products Co
 Keystone-Seneca Wire Cloth Co
 Lato Prods Co
 New York Wire Cloth Co Inc

North East Metal Products Corp
 Peerless Mfg Co Inc
 Reynolds Aluminum Supply Co
 Royal Jalousie Co
 Seneca Wire & Mfg Co
 United States Steel Corp
 Wickwire Bros Inc

Screening, Plastic
 Chicopee Mills Inc Lumite Div
 DeVac Inc
 Evergreen States Forest Products
 Firestone Synthetic Fibers Co
 Graham John H & Co Inc
 Hettrick W E & Son Co
 New York Wire Cloth Co Inc
 Owens-Corning Fiberglass Corp
 Peerless Mfg Co Inc
 Plastic Woven Prods
 Reynolds Aluminum Supply Co
 Royal Jalousie Co

Screens, Tension
 Columbia Mills Inc
 Durall Products Co
 Goshen Sash & Door Co
 Keystone-Seneca Wire Cloth Co
 Lockhart Mfg Corp
 Loxgreen Co Inc
 Reflectal Corp Sub Borg Warner
 Reynolds Aluminum Supply Co
 Rudiger-Lang Co
 Seneca Wire & Mfg Co
 Southern Sash Sales & Supply Co
 Spokane Sash & Door Co

Screens, Windows
 (See Windows & Doors,
 Combination)

Screwdrivers
 (See Tools, Carpenter, Hand)

Screwdrivers, Portable, Electric
 Black & Decker Mfg Co
 Blum Julius & Co Inc
 Chicago Pneumatic Tool Co
 Ingersoll-Rand Co
 Millers Falls Co
 Milwaukee Elec Tool Corp
 Porter-Cable Machine Co
 Reynolds Aluminum Supply Co
 Skill Corp
 Speedway Mfg Div Thor Power Tool Co
 Stanley Electric Tools
 Supreme Products Corp
 Thor Power Tool Co

Screws
 Aluminum Co of America
 Arro Expansion Bolt Co
 Blum Julius & Co Inc
 Genesco Tools
 Hercules Fastener Co
 Holub Industries Inc
 Independent Nail & Packing Co
 Lamson & Sessions Co
 Leigh Building Products Div
 Macklanburg-Duncan Co
 Medalist Hardware Div
 National Lead Co
 Paine Co
 Parker S Hardware Mfg Corp
 Ramset Fastening System
 Republic Steel Corp
 Screw & Bolt Corp of America
 Southern Screw Co
 Stanscrew Fasteners Div Standard Screw Co

Sealers, Concrete
 (See Concrete Hardeners &
 Sealers)

Sealers & Finishes
 (See Finishes & Sealers)

Septic Tanks, Clay
 American Vitriified Prods Co
 Cannelton Sewer Pipe Co
 Clay City Pipe Co
 Interstate Brick Co
 Kaul Clay Co
 Logan Clay Prods Co
 Natco Corp
 Owensboro Sewer Pipe Co

Robinson Clay Product Co
Stillwater Clay Products Co
Streator Drain Tile Co
Superior Clay Corp
Yeomans Bros Co

Septic Tanks, Steel
Kaustine Furnace & Tank Co
Koven L O & Bro Inc
Shadyside Foundry
Vega Industries Inc
Yeomans Bros Co

Sewage Disposal Systems
(See also Pumps, Sump;
Septic Tanks)

Chicago Pump Co
Continental Pump Co
Dorr-Oliver Inc
Eimco Corp
Johns-Manville Corp
McPherson Inc
Pomona Terra-Cotta Co
Smith & Loveless Div Union Tank
Stratville Brick Co
Texas Vitrified Pipe Co
Yeomans Bros Co

Sewer Pipe
(See Pipe, Sewer)

Shakes, Cedar, Red
(See also Shingles & Shakes)

Axford Prairie Skae Co
Duronso Bros Shake Mill
Longview Shake Co
Parker & Son Shake Mill
Shake-A-Ply Co



Shake-a-Ply

CUTS
COSTS

8-ft. Shake Panels • Box 7, N. Portland, Ore.

Shapers

(See Routers & Shapers)

Sheathing, Board, Fiber
(See Wallboard & Sheathing,
Fiber)

Sheathing, Gypsum
(See also Wallboard,
Gypsum)

Allied Chemical Corp Barrett Div
Bestwall Gypsum Co
Fiberboard Paper Prods Inc
Flintkote Co
Grand Rapids Gypsum Co
Kaiser Gypsum Co Inc
National Gypsum Co
Reynolds Aluminum Supply Co
Ruberoid Co
United States Gypsum Co

Sheathing, Insulating Board
(See also Insulation Board,
Fiber)

Abitibi Corporation
Air O-Cel
Allied Chemical Corp Barrett Div
Alco Inc
American Sisakraft Corp
Armstrong Cork Co
Bird & Son Inc
Bradley Southern Div Potlatch Forests
Carey Phillip Mfg Co
Celotex Corp
Certain-Teed Products Corp
Edco Products Inc
Flintkote Co
Insulte Div Minnesota & Ontario Paper Co
Johns-Manville Corp
Kaiser Gypsum Co Inc
Keasbey & Mattison Co
Kochton Plywood & Veneer Co Inc
National Gypsum Co
Paxton Frank Lumber Co
Simpson Timber Co

United States Gypsum Co
United States Plywood Corp
Wood Conversion Co

Sheathing Paper
(See Paper, Building)

Sheathing Wood
(See Lumber; also Plywood)

Sheets, Aluminum Corrugated
(See Roofing & Siding,
Aluminum)

Sheets, Iron & Steel, Galvanized
(See Steel, Structural)

Shelving, Cabinets
Alan Wood Steel Co Penco Div
Amerock Corp

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**HIDE-A-SHELF
HARDWARE**

**TWO-POSITION
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stand-up or
sit-down jobs

EASY to use
EASY to sell

ASK YOUR WHOLESALER



AMEROCK CORPORATION

ROCKFORD, ILLINOIS

Bradley Southern Div
Frick-Gallagher Mfg Co Inc

Shingles, Asbestos Cement
(See Roofing, Asbestos
Cement)

Shingles, Asphalt
(See Roofing, Asphalt)

Forks Shingles Co Inc
Humptulips Shingle Co
Huntington Shingle Co
Lake Lytle Shingle Co

Shingles & Shakes, Cedar, Red

Aloha Lumber Corp
American Dux-Lap Div of Triton Co
Bestwood Cedar Shingle Co Ltd
Canadian Forest Prods Ltd
Capilano Timber Co Ltd
Cedar Supply Co
Cedarwood Timber Co
Creo-Dipt Co Inc
Georgia Pacific Corp
Harris L C Cedar Ltd
Hines Edward Lumber Co
Hurn Shingle Co

International Paper Co Long-Bell Div
Jackson Shake Co

Johnson & Johnson Shake Co
Mackie Mill Co
Marona Mill Co

Mauk Seattle Lumber Co
Mt Pleasant Shingle Co

New London Shake Co
Northwest Shake Distributor
Nova Sales Co

Robinson Plywood & Timber Co
Seattle Cedar Lumber Mfg Co

Shake-A-Ply Co

Shakertown Corp

Smith M R Shingle Co

Sound Sidewall Shake Co

Summit Sales Co

Super Mill Co

U S Mineral Wool Co

Weatherbest Corp

Weyerhaeuser Co Lumber & Plywood

White Creek Shingle Co

Shoring, Horizontal
(See also Scaffolding &
Shoring)

Acrow Corp of America
Chain Belt Co

Hice Corp of America
Jones & Laughlin Steel Corp
Spanall of the Americas Inc
Tubular Structures Corp of America

Showels

(See Cranes & Showels)

Shower Doors

(See Doors, Shower &
Bathtub)

Shower Receptors

(See also Plumbing Fixtures)

Cleveland Wash Tray Mfg Co
Cutler Metal Prods Co
Flat Metal Mfg Co
Lehman Specialty Co
Milwaukee Stamping Co Bathe-Rite Div
Norman W F Sheet Metal Mfg Co
Pacific Pre-Cast Products Inc
Rehco Corp
Tiletone Co
Weis Henry Mfg Co

Shower Stalls

(See also Plumbing fixtures)

Efron Theodore Mfg Co
General Metalcraft Inc Olympia Div
Gerber Plumbing Fixtures Corp
Lehman Specialty Co
Norman W F Sheet Metal Mfg Co
Northwest Metal Products Inc
Rehco Corp
Speakman Co
Standard Steel Cabinet Co
Tiletone Co
Weis Henry Mfg Co

Shutters, Metal

Acme Engineering & Mfg Corp
Alco Inc

Alside Inc

American Coolair Corp

Coffman R G Co Inc

Dayton Electric Mfg Co

Edco Products Inc

Emerson-Pryne Co

Gordon Mfg Co

H-C Products Co

Jones Shutter Products

Kingsford Ornamental Building Prods

Leigh Building Products Div

Louver Mfg & Supply

Lyf-Alum Inc

Morgan-Wightman Co

Philadelphia Screen Mfg Co

Regal Products Corp

Reynolds Aluminum Supply Co

Rich Phil Fan Mfg Co Inc

Seaman-Andwall Corp

Victor Tool & Machine Corp

Winter Seal Corp

Shutters, Wood

Caradco Inc

Cole Mfg Co

Curtis Companies Inc

Farley & Loetscher Mfg Co

Goshen Sash & Door Co

Gregg & Son Inc

Heinley Mastercraft Products

Ideal Co Mfg Div Wm Cameron & Co

Morgan Company

Morgan-Wightman Co

Rich Phil Fan Mfg Co Inc

Rock Island Millwork Co Factory Div

Rockwell of Randolph Inc

Schumacher F E Co

Southern Mill & Mfg Co

Suncraft Inc

Tyler Arthur F Co

Woodco Corp

Siding

(See Lumber)

Siding, Aluminum Clapboard

Allied Chemical Corp Barrett Div

Alco Inc

Alside Inc

Bird & Son Inc

Brixite Mfg Co Inc

LOWER COSTS & INSTALLATION TIME

ALSCO

Rigid

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Aluminum Siding

... applies directly to the studs, no underlay materials needed!

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Chamberlin Co of America
Consolidated General Prod Inc
Crown Aluminum Industries Corp
Dipcraft Mfg Co
Edco Products Inc
Flintkote Co
Globe Roofing Products Co Inc
Hastings Aluminum Products Inc
Keystone Alloys Co
Lifetime Industries Inc
Logan-Long Co
Lyf-Alum Inc
Mastic Corp
Morgan-Wightman Co
National Metal Prods
Orchard Bros Inc
Quaker State Metals Co
Reese Metal Weatherstrip Co
Reynolds Aluminum Supply Co
Seaman-Andwall Corp
Security Aluminum Co
Textron Metals Co
U S Aluminum Siding Corp
Winter Seal Corp
Wisco Inc

Siding, Asbestos Cement

Allied Chemical Corp Barrett Div
Carey Philip Mfg Co
Certain-Teed Products Corp
Dipcraft Mfg Co
Fiberboard Paper Prods Inc
Flintkote Co
Fry Lloyd A Roofing Co
Johns-Manville Corp
Keasbey & Mattison Co
Lehon Co
Logan-Long Co
National Gypsum Co
Re-Nu-It Corp
Reynolds Aluminum Supply Co
Ruberoid Co
Supradur Corp of N Y
United States Gypsum Co

Siding, Hardboard

(See also Hardboard)

Abitibi Corp
Armstrong Cork Co
Celotex Corp
Diamond Lumber Co
Evans Products Co
Forest Fiber Products Co
Georgia Pacific Corp
Hines Edward Lumber Co
Insulite Div Minn & Ontario Paper Co
Johns-Manville Corp
Masonite Corp
National Gypsum Co
Paxton Frank Lumber Co
Reynolds Aluminum Supply Co
Superwood Corp
United States Plywood Corp
Weyerhaeuser Co Silvatex Div

Siding, Plywood (See also Plywood, Douglas Fir)

Cascades Plywood Corp
Diamond Lumber Co
Georgia Pacific Corp
Jones Veneer & Plywood Co
Kochton Plywood & Veneer Co Inc
Midwest Plywood Co
Paxton Frank Lumber Co
Reynolds Aluminum Supply Co
Rosboro Lumber Co
United States Plywood Corp
Youngblood Lumber Co

Siding, Steel

Bethlehem Steel Co
Continental Steel Corp
Granite City Steel Co
Reeves Steel & Mfg Co Div
Republic Steel Corp Truscon Div
Tennison Bros Inc
United States Steel Corp
Woodside Engineering Co

Siding, Underliner, Insulating (See Sheathing, Insulating)

Siding, Wood

(See also Lumber; Shingles)

Aloha Lumber Corp
Arcata Redwood Co
Arrow Tank Co Inc
Bradley Southern Div Potlatch Forests
Capilano Timber Co Ltd Diamond Lumber Co
Dierks Forests Inc
Georgia Pacific Corp
Goodman Lumber Div Calumet & Hecla
Hardwood Corp of America
Homasote Co
Insul-Wool Insulation Corp
Jones Veneer & Plywood Co
Mauk Seattle Lumber Co
McMinnville Mfg Co
Ozan Lumber Co
Pacific Lumber Co
Paxton Frank Lumber Co
Pope & Talbot Inc
Rosboro Lumber Co
Seattle Cedar Lumber Mfg Co
Shake-A-Ply Co



Shake-a-Ply

CUTS
COSTS

8-ft. Shake Panels • Box 7, N. Portland, Ore.

Summit Sales Co
Union Lumber Co
Upson Co
Weyerhaeuser Co Lumber & Plywood
Willits Redwood Products Co

Sinks, Metal or Stainless Steel

Active Tool & Manufacturing Co
Aerona Mfg Co Metal Products Div
American-Standard Plumbing & Heating Div
Boro Wood Prods Co Inc
Caloric Appliance Corp
Carrollton Mfg Co
Copymation Inc
Ductless Hood Co Inc
Ekeo Prods Co
Eljer Co
Elkay Mfg Co
Farwell Metal Fabricating
Geneva Modern Kitchens
Legion Stainless Sink Corp
Lyon Inc
Paxton Frank Lumber Co
Tennessee Stove Works
Texboro Cabinet Corp
Universal-Rundle Corp
Vance Industries Inc

Sinks, Porcelain Enamel

(See Plumbing Fixtures)

Skylights

Allied Chemical Corp Barrett Div
Chemold Co
Consolidated General Prod Inc
Dipcraft Mfg Co
Johns-Manville Corp
Kluse Mfg Co
Pennsylvania Wire Glass Co
Plasteco Inc
Rohm & Haas Co
Structoglas Inc
Tiffany Mfg Co Inc
Wasco Products Inc

Slate

Fond du Lac Stone Co Inc
North Bangor Slate Co
Western States Stone Co

Sliding Doors, Windows (See Doors, Sliding; also Windows, Horizontal)

Spray Guns, Paint

(See Paint Spray Guns)

Stains

(See Paints, Interior &
Exterior, Oil)

Stairs, Nosing For

American Abrasive Metals Co
Angelina Hardwood Sales Co
B & T Metals Co
Blum Julius & Co Inc
Bradley Southern Div
Central Metal Strip Co
Crown Rubber Co
Francis H A & Co Inc
Harris Hardwood Co Inc
Harris Mfg Co
J & B Plastics Co Inc
Macklanburg-Duncan Co
Metal Crafters
Moore Goodloe E Inc
Paxton Frank Lumber Co
Southern Mill & Mfg Co
Wooster Products Inc

Stairs, Steel, Cellar

(See Doors, Cellar, Bulkhead)

Stairs, Treads For

American Mat Corp
Angelina Hardwood Sales Co
Blum Julius & Co Inc
Bradley Southern Div
Carborundum Co
Cloud Oak Flooring Co
Crown Rubber Co
Dravo Corp
Farley & Loetscher Mfg Co
Goodrich B F Co Flooring Products
Harris Hardwood Co Inc
Hardwood Corp of America
Harris Mfg Co
Jones & Laughlin Steel Corp
Musson R C Rubber Co
Norton Co
Paxton Frank Lumber Co
Robbins Floor Products Inc
Wooster Products Inc

Stairways, Disappearing

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3 Great Lines—Prepackaged
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Farley & Loetscher Mfg Co
Goshen Sash & Door Co
Newark Ladder & Bracket Co Inc
Precision Parts Corp
Reynolds Aluminum Supply Co
Richbilt Mfg Co

Tennessee Fabricating
Wei-Bilt Products Co

Stairways, Steel
Metal Crafters

Michel & Pfeffer Iron Works Inc
Tubular Structures Corp of America
United States Steel Corp
Valley Metal Products

Staplers, Tackers & Staples

Arrow Fastener Co Inc
Automation Fastening Co Inc
Bostlitch
Copperweld Steel Co Wire & Cable Div
Everwarm Inc
Fastener Corp
Hillwood Mfg Co
Markwell Mfg Co Inc
Mid-States Steel & Wire Co
Power Line Sales Inc
Signode Steel Strapping Co
Spotnails Inc
United States Steel Corp

Steel, Masonry Wall Reinforcing
(See also Reinforcing Bars & Mesh)

A A Wire Products Co
Carter-Waters Corp
Cleveland Steel Specialty Co
Conver Steel & Wire Co
Dayton Sure-Grip & Shore Co
Dur O Wal Div Cedar Rapids Block Co
Keystone Steel & Wire Co
Laclede Steel Co
Lenawee Peerless Inc
Robertson Steel & Iron Co
United States Steel Corp

Steel, Structural
(See also Studdings & Channels, Steel)

Adjusta Post Mfg Co
Baumgartner Gate Factory
Bethlehem Steel Co
Butler Mfg Co
Byers A M Co
Colorado Fuel & Iron Corp
Columbia Geneva Steel Div US Steel
Copco Steel & Engineering Co
Cuckler Steel Span Co
Flash Bridge Co
Haven-Busch Co
Inland Steel Co
International Steel Co
Jones & Laughlin Steel Corp
Kaiser Steel Corp
Kees F D Mfg Co
Laclede Steel Co
Macomber Inc
Mahon R C Co
Morgan-Wightman Co
Northwestern Steel & Wire Co
Penn Metal Co Inc
Republic Steel Corp
Ryerson Joseph T & Son
Sheffield Div Armco Steel Corp
Stran-Steel Corp Div Natl Steel Corp
Syro Steel Co
Taber Bushnell Inc
Tennessee Coal & Iron Div US Steel
Timber Engineering Co

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Fast, Efficient

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Union Asbestos & Rubber Co
Unistrut Prods Co
United States Steel Corp
Youngstown Sheet & Tube Co

Stone, Crab Orchard
Briar Hill Stone Co
Crab Orchard Stone Co Inc
Shakertown Corp

Briar Hill GOLDEN TONE SANDSTONE
"USE COLOR, too, when you build with stone"
THE BRIAR HILL STONE COMPANY
Dept. F-9, GLENMONT, OHIO

Tennessee Stone Co Inc
Stone, Granite
North Carolina Granite Corp
Tamms Industries Co
Vermont Marble Co
Stone, Limestone
Bloomington Limestone Corp

Ashtone
INDIANA LIMESTONE VENEER
for Distinctive Homes
THE BLOOMINGTON
LIMESTONE CORP.
BLOOMINGTON, INDIANA

Corson G & W H Inc
Fond Du Lac Stone Co Inc
Georgia Marble Co
Indiana Limestone Co Inc
Longview Lime Corp
San-Tex Stone Quarry Inc
Tiger Brands Inc Sub of Basic Inc
Woolery Stone Co Inc

Stone, Marble

Carthage Marble Corp
Georgia Marble Co
Stone Products Co
Tamms Industries Co
Vermont Marble Co

Stone Patching Compounds
(See Paints & Coatings,
Concrete)

Stone, Palos Verdes
Palos Verdes Stone Dept

Stone, Slate (See Slate)

Stone, Veneer, Synthetic
AlSCO Inc
Featherock Inc
General Concrete Products Inc
Perma-Stone Co
Stone Products Co

Store Fronts

American Art Metals Co
Davidson Enamel Products Inc
Hastings Aluminum Products Inc
Ingram-Richardson Mfg Co
Kawneer Co
Libbey-Owens-Ford Glass Co
Lustrik Inc
Marmet Corp
Metal Trims Inc
Pittsburgh Plate Glass Co
Reynolds Aluminum Supply Co
Toledo Plate & Window Glass Co
United States Plywood Corp
Wolverine Porcelain Enameling Co

Storm Windows
(See Windows & Doors,
Combination)

Structural Steel
(See Steel, Structural)

Stucco, Pre-Mixed
Coddington E D Mfg Co
Colorcrete Industries Inc
Penn Crete Prods Co
United States Gypsum Co

Studding & Channels, Steel

Alabama Metal Lath Co Inc
Bostwick Steel Lath Co
Casings Inc & Drywall Trim Div.
Inland Steel Products Co
National Gypsum Co
Penn Metal Co Inc
Republic Steel Corp Truscon Div
Woodside Engineering Co

Sump Pumps

(See Pumps, Sump)

Surveying Instruments
(See Instruments, Surveying)

Swimming Pool Equipment

Amcrete Corp
Birdair Structures Inc
Campbell Mfg Co Inc
Capri Mfg Inc
Cascade Pools Corp
Chester Products Inc
City Chemical Corp
Colonial Pool Co Inc
Continental Pump Co
Dayton Electric Mfg Co
Epo Swimming Pool Co
Goodrich B F Industrial Products Co
Hoosier Tarpaulin & Canvas Goods Co
Josam Mfg Co
King Mfg Co
Lancaster Pump & Mfg Co Inc
Landon Inc
Marlin Pool Equipment Co
Modern Swimming Pool Co Inc
National Pool Equipment Co
Paddock of California
Panelfab Products Inc
Permutit Co Div Pfaudler Permutit Inc
Plastimayd Corp
Poolquip Mfg Inc
Romar Filter Corp
Simplex Forms System Inc
Stonco Electric Prods Co
Swim Queen Pool Co
Wahlstrom Bros
Weissmuller Johnny Cinema Pools

Swimming Pools

Amcrete Corp
Arrow Tank Co Inc
Award Pools
Capri Mfg Inc
Cascade Pools Corp
Chester Products Inc
Colonial Pool Co Inc
Epo Swimming Pool Co
Koven L O & Bro Inc
National Pool Equipment Co
Paddock of California
Plastimayd Corp
Swim Queen Pool Co
Universal Fiberglass Industries
Wahlstrom Bros

Tackers

(See Staplers, Tackers & Staples)

Tampers, Powered

Barco Mfg Co
Chicago Pneumatic Tool Co
Cleveland Trencher Co
Equipment Div Young Spring & Wire
Gardner-Denver Co
Henry Mfg Co Inc
Ingersoll-Rand Co
Jackson Vibrators Inc
Jay Co Div Leukart Mach Co Inc
Kelley Machine Div Wiesner-Rapp Co Inc
Le Roi Div Westinghouse Air Brake Co
Muller Machinery Co Inc
Schield Bantam Co
Stow Mfg Co
Thor Power Tool Co
Vibro Plus Prods Inc
Whiteman Mfg Co

Tanks, Septic, Clay

(See Septic Tanks, Clay)

Tanks, Septic, Steel

(See Septic Tanks, Steel)

Tapes

Behr-Manning Co
Durkee-Atwood Co
Evans Rule Co
Hood Bros
Gering Plastics Div
Johns-Manville Corp
Kordite Co
Lufkin Rule Co
National Gypsum Co
Pittsburgh Plate Glass Co
Reeves Brothers Inc
Roe Justus & Sons
Stanley Tools
Starrett L S Co
Wilson Grant Inc

Taping Machines, Drywall

Goldblatt Tool Co

Tarpaulins

Arvey Corp
Berg F O Co
Delta Co
Fulton Cotton Mills
Gering Plastics Div of Studebaker-Packard Corp
Goodrich B F Industrial Products Co
Goss J C Co
Hoosier Tarpaulin & Canvas Goods Co
Industrial Canvas Prods Corp
Koppers Co Inc Durethane Plant
Kordite Co
Newark Ladder & Bracket Co Inc
Richkraft Co
Thilmany Pulp & Paper Co
Tiger Brands Inc Sub of Basic Inc
Tucker Duck & Rubber Co
Viking Co

Television Antennas (See Antennas, TV)

Tension Screens

(See Screens, Tension)

Termite Shields & Controls

Allied Chemical Corp Barrett Div
Bird & Son Inc
Cabot Samuel Inc
Cre-O-Tox Chemical Co
Dow Chemical Co
Inland Steel Products Co
Monsanto Chemical Co Organic Chem Div
National Mfg Corp
Phelan-Faust Paint Mfg Co
Shell Chemical Co
Sullivan Co
Velacol Chemical Corp
Wood Treating Chemicals Co

Thresholds

Adams Co
Allmetal Weatherstrip Co
Aluminum Co of America
Aluminum Industries
Anaconda American Brass Co
Angelina Hardwood Sales Co
B & T Metals Co
Blum Julius & Co Inc
Bradley Southern Div Potlatch Forests
Ceco Steel Prods Corp
Central Metal Strip Co
Chamberlin Co of America
Chase Brass & Copper Inc
Chicago Metal Strip Co
Curtis Companies Inc
Dennis W J & Co
Donley Brothers Co
Duraflex Co
Francis H A & Co Inc
Goodrich B F Co Flooring Products
H-C Products Co
Harris Mfg Co
Kaiser Aluminum & Chemical Sales Inc
Kawneer Co
Macklanburg-Duncan Co
Master Metal Strip Service Inc
Metal Crafters
Miraplas Tile Co
Moloney Co
Morgan-Wightman Co
National Forest Prods Co
National Metal Prods

National Window Corp
Parker S Hardware Mfg Corp
Paxton Frank Lumber Co
Pemko Mfg Co
Reynolds Aluminum Supply Co
Reynolds Metals Co
Royal Jalousie Co
Safety-Flex Enclosures Div
Sager Weatherstrip & Caulking
Sentry Stop-A-Draft Co
Southern Sash Sales & Supply Co
Storm King Corp
Sun Screen Products Co
Superior Industries Inc
Trego Industries
United Industries Inc
United Steel Products Co
Visador Co
Weatherproof Products Corp
Wells Aluminum Corp
Werner R D Co Inc
Wooster Products Inc
Youngstown Mfg Inc

Ties, Concrete Form (See Concrete Form Ties)

Tile, Acoustical (See Acoustical Materials)

Tile, Asphalt, Floor

Armstrong Cork Co
Azrock Floor Prods Div Uvalde Rock
Congoleum-Nairn Inc
Flintkote Co
Forman-Ford & Co
Goodrich B F Co Flooring Products
Johns-Manville Corp
Kentile Inc
Mastic Tile Div Ruberoid Co
Ruberoid Co
Thomas Moulding Floor Co Inc

Tile, Ceramic, Floor & Wall

American Olean Tile Co
Amsterdam Corp
Associated Plumbing Supply Co Inc
Atco Ceramics Corp
Cambridge Tile Mfg Co
Columbia Brick Works
Design Technics
Gladding McBean & Co
Hood Ceramic Corp
Malvern Flue Lining Inc
Marlin Pool Equipment Co
Marsh Wall Products Inc
Miraplas Tile Co
Misceramic Tile
Morton Ceramic Tile Co
Mosaic Tile Co
Natco Corp
National Pool Equipment Co
National Tile & Mfg Co
Norton Co
Oxford Tile & Porcelain Co
Oxford Tile Co Div
Pacific Tile & Porcelain Co
Pomona Tile Mfg Co
Selck Walter E & Co
Stylon Corp
Summitville Tiles Inc
Three Centuries
Tilemaster Corp
United States Ceramic Tile Co
Wenzel Tile Co

Tile, Cork, Floor

Armstrong Cork Co
Dodge Cork Co Inc
Forman-Ford & Co
Kentile Inc
Robbins Floor Products Inc

Tile, Drain

Acme Shale Brick Co Inc
Bowerston Shale Co
Builders Brick Co
Interstate Brick Co
Robinson Clay Product Co

Tile, Glazed

American Olean Tile Co
Amsterdam Corp
Elgin-Standard Brick Mfg Co
Illinois Brick Co

Interstate Brick Co
Malvern Flue Lining Inc
Mason City Brick & Tile
Mosaic Tile Co
Natco Corp
Summitville Tiles Inc
United States Ceramic Tile Co

Tile, Insulating (See Insulating Board)

Tile, Linoleum, Floor (See Linoleum Roll & Tile)

Tile, Quarry

American Olean Tile Co
Amsterdam Corp
Builders Brick Co
Carlyle Tile Co
Columbia Brick Works
Empress Brick Co Inc
Gladding McBean & Co
Hanley Co
Hood Ceramic Corp
Interstate Brick Co
Ludowici-Celadon Co
Mosaic Tile Co
Murray Tile Co Inc
National Pool Equipment Co
Summitville Tiles Inc
United States Ceramic Tile Co

Tile, Roofing

Gladding McBean & Co
Ludowici-Celadon Co
Wolevrine Porcelain Enameling Co
Zonolite Co

Tile, Rubber

American Biltrite Rubber Co
Armstrong Cork Co
Crown Rubber Co
Danbury Rubber Co Inc
Flintkote Co
Forman-Ford & Co
Goodrich B F Co Flooring Products
Kentile Inc
Mitchel Rubber Prods Inc
Musson R C Rubber Co
Robbins Floor Products Inc
United States Rubber Co

Tile, Structural

Acme Brick Co
Acme Shale Brick Co Inc
Arketex Ceramic Corp
Brookhaven Pressed Brick Mfg Co
Builders Brick Co
Charleston Clay Prods Co
Columbia Brick Works
Design Technics
Elgin-Standard Brick Co Inc
Empress Brick Co Inc
Hanley Co
Hope Brick Works
Humboldt Brick & Tile Co
Interstate Brick Co
Jenkins Brick Co
Malvern Flue Lining Inc
Mason City Brick & Tile
Metropolitan Brick Inc
Midland Brick & Tile Co
Summit Pressed Brick & Tile Co
Texas Brick Co
United Brick & Tile Co
West Virginia Brick Co

Tile, Vinyl

American Biltrite Rubber Co
Armstrong Cork Co
Arterest Products Co Inc
Azrock Floor Products Div
Bird & Son Inc
Congoleum-Nairn Inc
Danbury Rubber Co Inc
Dodge Cork Co Inc
Flintkote Co
Forman-Ford & Co
General Tire & Rubber Co Bldg Materials
Goodrich B F Co Flooring Products
Johns-Manville Corp
Kentile Inc
Mastic Tile Div Ruberoid Co
National Floor Prods Co
Robbins Floor Products Inc

Ruberoid Co
Vinyl Plastics Inc
Tile, Wall, Hardboard
Abitibi Corp
Barclay Mfg Co Inc
Kochton Plywood & Veneer Co Inc
Marsh Wall Products Inc
Masonite Corp
Wood Conversion Co

Tile, Wall, Leather
Kiefer International Products Co Div

Tile, Wall, Marble
(See Flooring & Wall Covering, Marble)

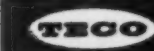
Tile, Wall, Metal
Alloy Tile Corp
Crown Tile Corp
Goldsmith Metal Lath Co
Hastings Aluminum Products Inc
Vikon Tile Corp
Wheeling Corrugating Co

Tile, Wall, Plastic
Artcrest Products Co Inc
Cermak Tile Co Inc
Forman-Ford & Co
Formica Corp
General Tire & Rubber Co Bldg Materials Div
Lustro Tile Mfg Co
Marsh Wall Products Inc
Mastro Plastics Corp
Miraplas Tile Co
Selck Walter E & Co
Sunbeam Plastics Corp
Tilemaster Corp
Tile-Rite Corp

Tile, Wall, Porcelain Enamel
Vikon Tile Corp
Wolverine Porcelain Enameling Co

Tileboard, Prefinished
Afcop Corp
Barclay Mfg Co Inc
Kochton Plywood & Veneer Co Inc
Marsh Wall Products Inc
Prestile Mfg Co
Simpson Timber Co
Tex-A-Panel Mfg Co
Wallace Mfg Co
Wood Conversion Co

Timber Connectors
Cleveland Steel Specialty Co
Kees F D Mfg Co
Timber Engineering Co

 the standard of excellence

Split rings - framing anchors - plywood clips
post caps - cross bridging - truss plates

TIMBER ENGINEERING COMPANY
1319 18th St., N.W., Washington 6, D. C.

Timber Fasteners Inc

Toilets
(See Plumbing Fixtures)

Tools
(See Cutters, Drills, Guns, Hammers, Nailing Machines, etc.)

Tools, Carpenter, Hand
Bridgeport Hardware Mfg Corp
Champion Dearthment Tool Co
Cincinnati Tool Co
Damascus Steel Products Corp
Desmond-Stephan Mfg Co
DeWalt Inc
Diston Div H K Porter Co Inc
Eagle Rule Mfg Corp
Ellason Tool Co
Empire Level Mfg Co
Federal Hardware Products Div
Fletcher-Terry Co
Freeman Doorjack Co
General Hardware Mfg Co Inc

Genaco Tools
Graham John H & Co Inc
Greenlee Tool Co
Gypsum Ceiling Jack Co
Hartford Clamp Co
Hartmeister Mfg Inc
Heller Tool Co
Hood Bros
Irwin Auger Bit Co
J M J Industries Inc
Kedman Co
Kenco Mfg Co
Kimball Mfg Co
Mayhew Steel Products Inc
Millers Falls Co
Milwaukee Elec Tool Corp
Nicholls Mfg Co
Nicholson File Co
Owatonna Tool Co
Oxwall Tool Co Ltd
Parker Mfg Co
Phillips Drill Co
Plumb Fayette R Inc
Pootatuck Corp
Ramset Fastening System
Roe Justus & Sons
Safety Nail Driver Corp
Sargent & Co
Stanley Tools
Starrett L S Co
Stortz John & Son Inc
True Temper Corp
Turn-A-Bore Equipment Co
Union Tool Co
Vaughan & Bushnell Mfg Co
Wallboard Tool & Equipment Co
Warren Tool Corp
Will-Burt Co

Tools, Concrete Finishing
(See also Concrete Vibrators)

Chicago Pneumatic Tool Co
Diston Div H K Porter Co Inc
Goldblatt Tool Co
Nicholls Mfg Co
Peerless Level & Tool Co
Remington Arms Co Inc
Sands Level & Tool Co
Speedway Mfg Div Thor Power Tool Co
Stortz John & Son Inc
Stow Mfg Co
Thor Power Tool Co
Whiteman Mfg Co

Tools, Masons, Plasterers

Adams Co
Bridgeport Hardware Mfg Corp
Clipper Mfg Co
Columbia Brick Works
Damascus Steel Products Corp
Diston Div H K Porter Co Inc
Empire Level Mfg Co
Fletcher-Terry Co
General Hardware Mfg Co Inc
Goldblatt Tool Co
Graham John H & Co Inc
Industrial Iron Works
Jeff Jones Co
Karelius Albert & Sons Inc
Mayer Bros Tool Mfg Co
Muller Machinery Co Inc
Nicholls Mfg Co
Park Tool Co
Peerless Level & Tool Co
Phillips Drill Co
Plumb Fayette R Inc
Port Austin Level & Tool Mfg Co
Ramset Fastening System
Remington Arms Co Inc
Rice Pump & Machine Co
Safety Nail Driver Corp
Sands Level & Tool Co
Stanley Tools
Stortz John & Son Inc
Superior Scaffold Co
Vaughan & Bushnell Mfg Co

Tractor Attachments

Allis Chalmers Mfg Const Mach Div
Arps Corp
Case J I Co
Caterpillar Tractor Co

Danuser Machine Co
Elmco Corp
Equipment Div Young Spring & Wire
Ford Motor Co Tractor & Implement Div
Gar Wood Industries Inc
Gilson Bros Co
Henry Mfg Co Inc
Hough Frank Co
Hyster Co
John Deere Industrial Div
Koehring Co
LeTourneau-Westinghouse Co
Massey-Ferguson Inc Industrial Div
Minneapolis-Moline Co
Oliver Corp
Parson Co Div
Pitman Mfg Co
Porter-Cable Machine Co
Preco Inc
Roseman Tractor Equipment Co
Schwartz Mfg Co
Servis Equipment Co
Toro Mfg Co
Tractor Div International Harvester Co
Universal Pulleys Co Inc
Wagner Iron Works

Tractors

Allis Chalmers Mfg Constr Mach Div
Automatic Transportation Co
Barrett Cravens Co
Case J I Co
Caterpillar Tractor Co
Clark Equipment Co Industrial Truck Div
Elmco Corp
Ford Motor Co Tractor & Implement Div
Gilson Brothers Co
Hough Frank Co
John Deere Industrial Div
LeTourneau-Westinghouse Co
Lewis-Shepard Products Inc
Massey-Ferguson Inc Industrial Div
Mead Specialties Co
Minneapolis-Moline Co
Oliver Corp
Porter-Cable Machine Co
Toro Mfg Co
Tractor Div International Harvester Co

Trailers, Field Office
Contractors Trailer Co

Transits
(See Instruments, Surveying)

Trenchers & Ditchers

American Hoist & Derrick Co
Arps Corp
Barber Greene Co
Cleveland Trencher Co
Danuser Machine Co
Earth Equip Corp
Equipment Div Young Spring & Wire
Ford Motor Co Tractor & Implement Div
Gar Wood Industries Inc
John Deere Industrial Div
Kent Air Tool Co
Koehring Co
Massey-Ferguson Inc Industrial Div
Parson Co Div
Servis Equipment Co
Vermeer Mfg Co
Witch Marketing Co
Wood Shovel & Tool Co

Trim & Casings, Metal
(See Casing, Metal)

Trim, Wood
(See Millwork & Moldings, Wood)

Trowels, Power
(See Concrete Finishing Machines)

Trucks, Fork Lift

Allis Chalmers Mfg Const Mach Div
Automatic Transportation Co
Barrett Cravens Co
Case J I Co
Clark Equip Co Industrial Truck Div
Equipment Div Young Spring & Wire
Ford Motor Co Tractor & Implement Div

General Engines Co Inc
Getman Brothers
Grand Specialties
Henry Mfg Co Inc
Hyster Co
Koehring Co
Lewis-Shepard Products Inc
Massey-Ferguson Inc Industrial Div
Oliver Corp
Silent Holst & Crane Co
Tractor Div International Harvester Co
Uhrden Inc
Yale & Towne Mfg Co Yale Materials

Trucks, Hand & Platform

Barrett Cravens Co
Colson Corp
Grand Specialties Co
Jackson Mfg Co
Rapids-Standard Co Inc
Yale & Towne Mfg Co Yale Materials

Trucks, Motor

Chevrolet Motor Div Gen Motors
Diamond T Motor Truck Co
Dodge Div
Ford Motor Co
Koehring Co
Marmon-Herrington Co Inc
Motor Truck Div International Harvester Co
Prime Mover Co
Reo Div White Motor Co
Studebaker-Packard Corp
Tractor Div International Harvester Co
Volkswagen of America Inc
White Motor Co
Willys Motors Inc

Trusses, Roof, Steel

Belson Mfg Co
Bethlehem Steel Co
Ceco Steel Prods Corp
Cuckler Steel Span Co
Haven-Busch Co
International Steel Co
Macomber Inc
Republic Steel Corp Trusecon Div
Sheffield Div Armco Steel Corp
Tubular Structures of America


Trusses, Roof, Wood

Bradley Southern Div
Diamond Lumber Co
Gang Nail Sales Co
Prefabricated Prods Co Inc
Rilco Laminated Products
Rosboro Lumber Co
Sanford Gri-P-Late Co
Super-Structures Inc
Timber Engineering Co

TECO ROOF TRUSS
HARDWARE

TECO SPLIT RINGS
AND SHEAR PLATES

TECO
TRUSS
PLATES



TIMBER ENGINEERING COMPANY
1319 18th St., N.W., Washington 6, D. C.

Timber Fabricators Inc
Timber Structures Inc
Unit Structures Inc

Tubing

(See Pipe & Tubing)

Tubs, Bath

(See Plumbing Fixtures)

Tubs, Laundry

(See also Plumbing Fixtures)

Active Tool & Mfg Co
American-Standard Plumbing & Heating Div
Cleveland Wash Tray Mfg Co
Cutler Metal Prods Co

Kohler Co
Mustee E L & Sons Inc
Reed Cromex Corp
Reeves Steel & Mfg Co Div
Richmond Plumbing Fixtures
Viking Mfg Corp
Voss Washer Co

Tubs, Mixing

Fortex Industries Inc
Vestal Mfg Co

Underlayment Flooring

(See Flooring, Underlayment)

Vanities, Lavatory

Atkins Wood Products Corp
Borg-Warner Corp Ingersoll Humphries
Boro Wood Prods Co Inc
Caradco Inc
Case Mfg Div
Chicago Pottery Co
Colonial Products Co
Curtis Companies Inc
Farley & Loetscher Mfg Co
Great Northern Mfg Corp
Gregg & Son Inc
I-XL Furniture Co
Kitchen Kompact Inc
Lehman Specialty Co
Morgan-Wightman Co

GLISSADE & BRAMMER
VANITIES

MORGAN-WIGHTMAN
America's Wholesale Supply Center

WRITE FOR
NEW 196 PAGE CATALOG
ST. LOUIS 66, MO.

National Vanity Co
Pease Woodwork Co Inc
Precisionware Inc
Regal Laminates Inc
Royal Woodwork Inc
Sani-Top Inc
Scheirich H J Co
Schenck William & Co
Sherle-Wagner
Standard Steel Cabinet Co
Tedrick Bros Mfg Co Inc
Texboro Cabinet Corp
Tiffany Mfg Co Inc
Topcraft Inc
United Metal Cabinet Corp
Williams Products Inc

Vapor Barriers

(See also Paper, Building;

Sheathing)

Abesto Mfg Co
Air O-Cel
Allied Chemical Corp Barrett Div
American Sisakraft Corp
Arvey Corp
Bird & Son Inc
Carey Philip Mfg Co
Delta Co
Dow Chemical Co
Gering Plastics Div

Designed to meet FHA requirements

GER-PAK

Polyethylene
BARRIER FILM
under slabs • in sidewalls • flashing
• closing in • more!

GERING PLASTICS, division of STUDEBAKER PACKARD
Corporation, Kenilworth, N. J.

Infra Insulation Inc
Johns-Manville Corp
Kaiser Aluminum & Chemical Corp
Koppers Co Inc Durethene Plant
Kordite Co
Lifetime Industries Inc
Ludlow Papers Div of Ludlow Corp
Meadows W R Inc
Mortell J W Co
National Mfg Corp
Presstite Div American-Marietta Co

Protective Papers Inc
Quaker State Metals Co
Reynolds Aluminum Supply Co
Reynolds Metals Co
Richkraft Co
Ruberoid Co
Sonneborn Chemical & Refining Corp
Thilmany Pulp & Paper Co
Tiger Brands Inc Sub of Basic Inc
Visking Co
Warp Brothers
Wasco Products Inc

Ventilating Hoods

(See Fans, Exhaust, Bath & Kitchen)

Ventilating Registers

(See Registers, Heating & Ventilating)

Ventilators, Kitchen

(See Fans, Exhaust, Bath & Kitchen)

Ventilators, Roof & Wall

A & A Register Co
Acme Engineering & Mfg Corp
Adams Co
Air Devices Inc
Aiolrite Co
Aluminum Co of America
American Coolair Corp
American Standard Industrial Div
Atkinson Mfg Co
Aubrey Hardware Mfg Inc
Berns Air King Corp
Burt Mfg Co
Ceco Steel Prods Corp
Chelsea Fan & Blower Co Inc
Chicago Blower Corp
Clarage Fan Co
Clay Equipment Corp
Cleveland Steel Specialty Co
Cole Mfg Co
Consolidated General Prod Inc
Damp-Vent Co
Dayton Electric Mfg Co
Donley Brothers Co
Emerson Electric Mfg Co
Emerson-Pryne Co
Farley & Loetscher Mfg Co
Fasco Industries Inc
Gregg & Son Inc
H-C Products Co
Hamlin Prods Inc
Hudson H D Mfg Co
ILG Electric Ventilating Co
Inland Steel Products Co
Jackson Mfg Co
Klauser Mfg Co
Leigh Building Products
Leslie Welding Co Inc
Louden Machinery Co
Louver Mfg & Supply
Louv-R-Pak Inc
Macklanburg-Duncan Co
Marvin Mfg Co
Midget Louver Co
National Gypsum Co
Olson Mfg Co
Parker S Hardware Mfg Corp
Peerless Electric Div H K Porter Co Inc
Pennsylvania Wire Glass Co
Perfect-Line Mfg Corp
Reynolds Aluminum Supply Co
Rudeen N H Co Inc
Starline Inc
Stewart Industries Inc
Stewart S J Electric
Trane Co
United States Gypsum Co
Ventrola Mfg Co
Vestal Mfg Co
Wasco Products Inc
Weather-Bloc Co Inc
Westinghouse Electric Corp
Wilke Metal Products Inc
Yeck Mfg Co

Vibrators, Concrete

(See Concrete Vibrators)

Vinyl Tile**(See Tile, Vinyl)**

Allianceware Inc
Erdle Perforating Co Inc
Kawneer Co

Wall Coverings, Fabric

Birge Co Inc
Columbus Coated Fabric Corp
Curtiss Wright Corp Curon Div
Fabrikona Inc
Goodrich B F Industrial Products Co
Imperial Color Chemical & Paper Corp
New Castle Products Inc
Standard Coated Prods Inc
Suncraft Inc
United States Plywood Corp

Wall Coverings, Plastic

Artcrest Products Co Inc
Cermak Tile Co Inc
Congoleum Nairn Inc
Decro-Wall Corp
Fabrikona Inc
General Electric Co Laminated Prods
Lustro Tile Mfg Co
Masland Duraleather Co
National Gypsum Co
Polypplastex United Inc
St Regis Paper Co Panelyte Div
Sherle-Wagner
Standard Coated Prods Inc

Wall Plates, Decorator

Arrow Hart & Hegeman Elec Co
General Electric Co Wiring Device Dept

Wall Safes**(See Safes, Wall)****Wall Tile****(See Tile, Wall)****Wallboard, Asbestos Cement**

Carey Philip Mfg Co
Fiberboard Paper Prods Inc
Flinkkote Co
Johns-Manville Corp
Keasbey & Mattison Co
Lehon Co
Ruberoid Co
United States Plywood Corp

Wallboard, Gypsum

Allied Chemical Corp Barrett Div
Beadex Mfg Inc
Bestwall Gypsum Co
Celotex Corp
Chicago Fire Brick Co
Fiberboard Paper Prods Inc
Flinkkote Co
Grand Rapids Gypsum Co
Hartmeister Mfg Inc
Kaiser Gypsum Co Inc
National Gypsum Co
Ruberoid Co
United States Gypsum Co

**Wallboard & Sheathing, Fiber
(See also Insulating Board)**

American Sisalkraft Corp
Allied Chemical Corp Barrett Div
Armstrong Cork Co
Celotex Corp
Fleming & Sons Inc
Flinkkote Co
Forest Fiber Products Co
Homasote Co
Insulite Div Minn & Ontario Paper Co
Johns-Manville Corp
Kaiser Gypsum Co Inc
Kochton Flywood & Veneer Co Inc
Paxton Frank Lumber Co
Plasteron Wall Board Co
Reynolds Aluminum Supply Co
Simpson Timber Co
Southern Pine Lumber Co
United States Gypsum Co Superwood Corp
Upson Co
Wood Conversion Co

Wallpaper

Birge Co Inc
Buffalo Wallcraft Co Inc
Cook Paint & Varnish Co

Devoe & Reynolds Co Inc
Imperial Color Chemical & Paper Corp
Peaslee-Gaulbert Paint & Varnish Co
Pittsburgh Plate Glass Co
Prager Co Inc
Sherle-Wagner
Stamford Wallpaper Co Inc
York Wall Paper Co

Washers & Dryers, Clothes

Blackstone Corp
Easy Laundry Appliances Div
Frigidaire Div General Motors Corp
General Electric Co Major Appliance
Hamilton Mfg Co
Hotpoint Div
Kelvinator Div American Motors Co
Maytag Co
Norge Div Borg-Warner Corp
O'Keefe & Merritt Co
Philco Corp
Speed Queen Div McGraw-Edison Co
Suburban Propane Gas Corp
Temco Industries Div
Voss Washer Co
Westinghouse Electric Appliance Div
Westinghouse Electric Corp
Whirlpool Corp

Water Closets**(See Plumbing Fixtures)****Water Heaters, Electric**

American-Standard Plumbing & Heating
Bastian-Morley Co Inc
Carrier Corp
Cleveland Heater Co
Coleman Co Inc
Cutler-Hammer Inc
Day & Night Mfg Co
Eagle Electric Mfg Co
Frigidaire Div General Motors Corp
Gaffers & Sattler Div
General Electric Co Major Appliance
Hedges M M Mfg Co Inc
Hotpoint Div
Hotstream Heater Co
Kelvinator Div American Motors Co
Koven L O & Bro Inc
Little H C Burner Co
Monarch Range Co
Morgan-Wightman Co
National Disposer
National Rubber Machinery Co
Norge Div Borg-Warner Corp
Pioneer Mfg Co
Smith A O Corp Permaglas Div
Thermador Elec Mfg Co
Vulcan Electric Co
Waldorf Heater Co
Waterfilm Boilers
Wayne Home Equipment Co Inc
Wesix Electric Heater Co
Westinghouse Electric Appliance Div
Westinghouse Electric Corp
White Products Corp
Wood John Co Heater & Tank Div

Water Heaters, Gas

American Radiator & Standard Sanitary
American-Standard Plumbing & Heating
Bastian-Morley Co Inc
Bryant Mfg Co
Carrier Corp
Cleveland Heater Co
Coleman Co Inc
Day & Night Mfg Co
Dearborn Stove Co
Deleo Appliance Div General Motors
Federal Boiler Co Inc
Gaffers & Sattler Div
Hedges M M Mfg Co Inc
Holly-General Co Div Siegler Corp
Hotstream Heater Co
Insta-Matic Heater Co
Koven L O & Bro Inc
Little H C Burner Co
Monarch Range Co
Morgan-Wightman Co
Mustee E L & Sons Inc
Norge Div Borg-Warner Corp
Pioneer Mfg Co
Ronan & Junzl Inc

Ruud Mfg Co
Smith A O Corp Permaglas Div
Suburban Propane Gas Corp
Waldorf Heater Co
Waterfilm Boilers
Wayne Home Equipment Co Inc
White Products Corp
Wood John Co Heater & Tank Div

Water Heaters, Oil

Coleman Co Inc
Delco Appliance Div General Motors
Federal Boiler Co Inc
Gilbert & Barker Mfg Co
Hotstream Heater Co
Koven L O & Bro Inc
Kresno-Stamm Corp
Kresky Mfg Co Inc
Toridheet Div Cleveland Steel Prods Corp
Waterfilm Boilers
Wood John Co Heater & Tank Div

Water Softeners & Conditioners

Clayton Mark & Co
Culligan Inc
Dynlon Water Systems Inc
Elgin Softener Corp
Flint & Walling Mfg Co Inc
Lancaster Pump & Mfg Co Inc
Lindsay Co
Modern Swimming Pool Co Inc
Myers F E & Bros Co
Pennsalt Chemicals Corp
Permutit Co Div Pfaudler Permutit Inc
Red Jacket Mfg Co
Smith A O Corp Permaglas Div
Tait Mfg Co
Uniflow Mfg Co
Wayne Home Equipment Co Inc
White Products Corp

Water Supply**(See Pumps, Domestic Water Supply)****Waterproofing Compounds**

Abesto Mfg Co
Allied Chemical Corp Barrett Div
Allied Compositions Co Inc
American Bitumuls & Asphalt Co
American Sta-Dri Co
Anti Hydro Waterproofing Co
Arco Co
Bi-Products Corp
Borden Chemical Co Div Borden Co
Cabot Samuel Inc
Calbar Inc
Camp Co Inc
Carey Philip Mfg Co
Ceresit Corp
Colorcrete Industries Inc
Concrete Weld Co
Dad & Lad Co
Dasco Co Inc
Devoe & Reynolds Co Inc
Douglas & Sturgess
Emco Cement Products Inc
Evercrete Corp
Flinkkote Co
Henry W W Co
Horn A C Companies Div Sun Chem Corp
Johns-Manville Corp
Kay-Tite Co
Koppers Co Inc Durethene Plant
Lastik Paint Inc
Logan-Long Co
Lumino Co
Marsh Wall Products Inc
Master Builders Co
Meadows W R Inc
Medusa Portland Cement Co
Monroe Co Inc
National Gypsum Co
National Mfg Corp
Nova Sales Co
Pecora Inc
Penn Crete Prods Co
Permagile Corp of America
Pittsburgh Plate Glass Co
Plextone Corp of America
Prestite Div American-Marietta Co
Protection Products Mfg Co
Ranette Mfg Co

Reardon Co
 Re-Nu-It Corp
 Ruberoid Co
 Rutland Fire Clay Co
 Seddon Co
 Sika Chemical Corp
 Silicones Div Union Carbide
 Silicone Products Dept General Electric
 Smooth-On Mfg Co
 Sonneborn Chemical & Refining Corp
 Standard Dry Wall Products Inc
 Steelcote Mfg Co
 Sullivan Co
 Super Concrete Emulsions
 Tamms Industries Co
 Thompson E A Co Inc
 Toeh Bros
 Tremco Mfg Co
 Trusecon Labs Inc
 Tufcrete Co Inc
 Wasco Products Inc
 Watco-Dennis Corp
 Wooster Sealkote Co
 X-Pando Corp

Weatherstripping

Air-Tite Products Inc
 Allmetal Weatherstrip Co
 Aluminum Industries
 Asphalt Corp of America
 B & T Metals Co
 Baltz Robert N & Co Inc
 Boise Cascade Corp
 Caldwell Mfg Co
 Central Metal Strip Co
 Chamberlin Co of America
 Chicago Metal Strip Co
 Dennis W J & Co
 Duraflex Co
 Durkee-Atwood Co
 Formetal Inc
 Goshen Sash & Door Co
 Grand Rapids Hardware Co
 J & B Plastics Co Inc
 Johns-Manville Corp
 Kessler Products Co
 Lock-Joint Window Co
 Loxscreen Co Inc
 Macklanburg-Duncan Co
 Master Metal Strip Service Inc
 Mortell J W Co
 National Metal Prods
 Pemko Mfg Co
 Precision Weatherstrip Co
 Reese Metal Weatherstrip Co
 Roberts Co
 Sager Weatherstrip & Caulking
 Schlegel Mfg Co
 Screens & Fabric Metals Corp
 Seal-A-Door Co
 Sentry Stop-A-Draft Co
 Spanjers A J Co
 Sterling Alderfer Co
 Sun Screen Products Co
 Unique Window Balance Corp
 United Industries Inc
 United States Rubber Co
 Weatherproof Products Corp
 Woodside Engineering Co
 Zegers Inc

Window Hardware

(See Hardware, Window)

Window Screens

(See Windows & Doors, Combination)

Window Sills

Blum Julius & Co Inc
 Bradley Southern Div
 Curtis Companies Inc
 Fibresin Plastics Co
 Hartglass Co
 Mueller Brass Co
 Ware Aluminum Windows Inc

Window Surrounds, Metal

Bradley Southern Div
 Ceco Steel Prods Corp
 Cleveland Steel Specialty Co
 Davidson Enamel Products Inc
 Dayton Sure-Grip & Shore Co

DeVac Inc
 Fenestra Inc
 Hopes Windows Inc
 Kawneer Co
 Lifetime Industries Inc
 Mesker Bros Iron Co
 Mueller Brass Co
 Northwest Metal Products Inc
 Royal Jalousie Co
 Rusco Div of F C Russell Co
 W M Products Co
 Ware Aluminum Windows Inc

Windows, Awning Type, Metal

Air Vue Products Corp
 Alasco Inc
 Arnold Altex Aluminum Co
 Brown & Grist Inc
 Capitol Products Corp
 Ceco Steel Prods Corp
 Continental Aluminum Products Co
 Crossly Window Corp
 Durell Products Inc
 General Bronze Corp
 Look Products Inc
 Maco Corp
 Marmet Corp
 Mesker Bros Iron Co
 Metal Trims Inc
 Miami Window Corp
 Michel & Pfeffer Iron Works Inc
 Mueller Brass Co
 National Window Corp
 North East Metal Products Corp
 Regal Products Corp
 Republic Steel Corp Trusecon Div
 Reynolds Aluminum Supply Co
 Royal Jalousie Co
 Silver Line Co
 Southern Sash Sales & Supply Co
 Storm King Corp
 Superior Window Co
 Universal Fabricators
 Universal Window Co
 Ware Aluminum Windows Inc
 Winter Seal Corp

Windows, Awning Type, Wood

Andersen Corp
 Angel Co
 Biltbest Corp
 Boise Cascade Corp
 Caradco Inc
 Cole Mfg Co
 Crestline Co
 Curtis Companies Inc
 Etiling Window
 Fabrow Mfg Inc
 Farley & Loetscher Mfg Co
 Goshen Sash & Door Co
 Gregg & Son Inc
 International Paper Co Long-Bell Div
 Lee Millwork Corp
 Malta Mfg Co
 Morgan Company
 Ohio Plate Glass Co
 Faxton Frank Lumber Co
 R O W Window Sales Co
 Reuten Fred Inc
 Rock Island Millwork Co Factory Div
 Rockwell of Randolph Inc
 Rolscreen Co
 Southern Sash Sales & Supply Co
 Wabash Screen Door Co
 Woodco Corp

Windows, Basement & Utility, Aluminum

Alumatic Corp of America
 Cleveland Steel Specialty Co
 Colorado Metal Prod Corp
 Copco Steel & Engineering Co
 Crossly Window Corp
 DeVac Inc
 E-Z Set Windows Inc
 Fleet of America Inc
 Ida Products Co
 Inland Steel Products Co
 Kewanee Mfg Co
 Kreuger Mfg Co
 Look Products Inc
 Marmet Corp

Miami Window Corp
 Mueller Brass Co
 North East Metal Products Corp
 Reynolds Aluminum Supply Co
 Reynolds Metals Co
 Royal Jalousie Co
 Schumacher F E Co
 Southern Sash Sales & Supply Co
 Vento Steel Products Co Inc
 Windalume Corp
 Winter Seal Corp
 Woodside Engineering Co

Windows, Basement & Utility, Steel

Adams Co
 Ceco Steel Prods Corp
 Colorado Metal Prod Corp
 Donley Brothers Co
 Fenestra Inc
 Hopes Windows Inc
 Inland Steel Products Co
 Jeffery Form Tie Co
 Kewanee Mfg Co
 Louden Machinery Co
 New Monarch Machine & Stamping
 Republic Steel Corp Trusecon Div
 Rusco Div of F C Russell Co
 United States Gypsum Co
 Vento Steel Products Co Inc
 Vestal Mfg Co
 Woodside Engineering Co

Windows, Basement & Utility, Wood

Andersen Corp
 Angel Co
 Boise Cascade Corp
 Caradco Inc
 Cole Mfg Co
 Crestline Co
 Curtis Companies Inc
 Etiling Window
 Fabrow Mfg Inc
 Farley & Loetscher Mfg Co
 Goshen Sash & Door Co
 Gregg & Son Inc
 Ida Products Co

IDA
PRIME
Aluminum
BASEMENT
WINDOWS

manufactured by
IDA
 Products Co.
 3001 MILLER AVE.
 DETROIT 11, MICH.

International Paper Co Long-Bell Div
 Morgan Company
 Morgan-Wightman Co
 Pacific Mutual Door Co
 Paxton Frank Lumber Co
 Rock Island Millwork Co Factory Div
 Rockwell of Randolph Inc
 Southern Mill & Mfg Co
 Wabash Screen Door Co
 White Pine Sash Co
 Woodco Corp

Windows, Bow, Wood

Caradco Inc
 Curtis Companies Inc
 Fabrow Mfg Inc
 Lee Millwork Corp

BIG WINDOW BEAUTY • LOW COST!

LEE-BOW
WINDOWS

Lee-Craft
WINDOW WALLS

WRITE FOR Specifications and Detailed Selection Chart.
 LEE-MILLWORK CORPORATION
 FAIRLAND, NEW JERSEY

Ohio Plate Glass Co
 Reuten Fred Inc
 Southern Mill & Mfg Co
 Woodco Corp

Windows, Casement, Aluminum

Air Vue Products Corp
 Alasco Inc
 Bayley William Co

Ceco Steel Prods Corp
 Davidson Enamel Products Inc
 DeVac Inc
 E-Z Set Windows Inc
 Fuller W P & Co
 Ida Products Co
 Kawneer Co
 Kreuger Mfg Co
 Maco Corp
 Marmet Corp
 Mesker Bros Iron Co
 Michel & Pfeffer Iron Works Inc
 Mueller Brass Co
 Republic Steel Corp Truscon Div
 Reynolds Aluminum Supply Co
 Reynolds Metals Co
 Southern Sash Sales & Supply Co
 Universal Fabricators
 Universal Window Co
 Ware Aluminum Windows Inc
 Wilke Metal Products Inc
 Winter Seal Corp

Windows, Casement, Steel

Bayley William Co
 Ceco Steel Prods Corp
 Durell Products Inc
 Hopes Windows Inc
 Mesker Bros Iron Co
 Michel & Pfeffer Iron Works Inc
 Republic Steel Corp Truscon Div

Windows, Casement, Wood

Andersen Corp
 Bilthead Corp
 Boise Cascade Corp
 Caradco Inc
 Crestline Co
 Curtis Companies Inc
 Durell Products Inc
 Etling Window
 Fabrow Mfg Inc
 Farley & Loetscher Mfg Co
 Ideal Co Mfg Div Wm Cameron & Co
 International Paper Co Long-Bell Div
 Malta Mfg Co
 Ohio Plate Glass Co
 Paxton Frank Lumber Co
 Pullum Window Corp
 R O W Window Sales Co
 Reuten Fred Inc
 Rock Island Millwork Co Factory Div
 Rolscreen Co
 Southern Mill & Mfg Co
 Southern Sash Sales & Supply Co
 Wabash Screen Door Co
 Woodco Corp

**Windows & Doors, Combination
 Screen & Storm Sash,
 Aluminum**

Alasco Inc
 Alumatic Corp of America
 Aluminum Industries
 Capitol Products Corp
 Chamberlin Co of America
 Copco Steel & Engineering Co Commod Prods
 Corona Mfg Corp
 Devac Inc
 Etling Window
 General Bronze Corp
 Goshen Sash & Door Co
 Hess Mfg Co
 Hettrick W E & Son Co
 Humphrey Products Inc
 Ida Products Co
 Insul-Wool Insulation Corp
 Jasco Aluminum Products
 Kane Mfg Corp
 Keystone Alloys Co
 Kreuger Mfg Co
 Loxgreen Co Inc
 Moloney Co
 Morgan-Wightman Co
 North East Metal Products Corp
 Paxton Frank Lumber Co
 Regal Products Corp
 Remington Alum Window Corp
 Reynolds Aluminum Supply Co
 Royal Jalousie Co
 Rudiger-Lang Co
 Sager Weatherstrip & Caulking

Schumacher F E Co
 Screens & Fabric Metals Corp
 Security Aluminum Co
 Silver Line Co
 Spanjers A J Co
 State Metal Awnings Inc
 Visador Co
 Vulcan Metal Prods Inc
 W M Products Co
 Weather Seal Inc
 Wells Aluminum Corp
 Wilke Metal Products Inc
 Winsulite Mfg Co
 Winter Seal Corp
 Woodco Corp

**Windows & Doors, Combination
 Screen & Storm Sash, Steel**

Kane Mfg Corp
 Rusco Div of F C Russell Co
 Vestal Mfg Co
 Winter Seal Corp

**Windows & Doors, Combination
 Screen & Storm Sash, Wood**

Andersen Corp
 Angel Co
 Caradco Inc
 Crestline Co
 Curtis Companies Inc
 DeVac Inc
 Farley & Loetscher Mfg Co
 Goshen Sash & Door Co
 International Paper Co Long-Bell Div
 Morgan Company
 Northwest Door Co Div
 Paxton Frank Lumber Co
 Phenix Mfg Co
 Philadelphia Screen Mfg Co
 Rock Island Millwork Co Factory Div
 Rockwell of Randolph Inc
 Schumacher F E Co
 Southern Mill & Mfg Co
 Spokane Sash & Door Co
 Wabash Screen Door Co
 Woodco Corp

**Windows, Double Hung,
 Aluminum**

Air Vue Products Corp
 Albritton Engineering Corp
 Alasco Inc
 Ceco Steel Prods Corp
 Cole Mfg Co
 DeVac Inc
 Fenestra Inc
 Fleet of America Inc
 Flynn Michael Mfg Co
 General Bronze Corp
 Humphrey Products Inc
 Ida Products Co
 Kreuger Mfg Co
 Look Products Inc
 Mueller Brass Co
 Pomeroy S H Co Inc
 Republic Steel Corp Truscon Div
 Reynolds Aluminum Supply Co
 Reynolds Metals Co
 Southern Sash Sales & Supply Co
 Trim Slide Inc
 W M Products Co
 Windalume Corp
 Winter Seal Corp

Windows, Double Hung, Steel

Fenestra Inc
 Pomeroy S H Co Inc
 Republic Steel Corp Truscon Div
 Rusco Div of F C Russell Co

Windows, Double Hung, Wood

A R B Window Sales Co
 Andersen Corp
 Boise Cascade Corp
 Caradco Inc
 Cole Mfg Co
 Crestline Co
 Curtis Companies Inc
 Dierks Forests Inc
 Etling Window
 Fabrow Mfg Inc
 Farley & Loetscher Mfg Co
 Ideal Co Mfg Div Wm Cameron & Co

International Paper Co Long-Bell Div
 Kesko Prods Inc
 Lee Millwork Corp
 Malta Mfg Co
 Misasoua White Pine Sash Co
 Morgan-Wightman Co



Ohio Plate Glass Co
 Paxton Frank Lumber Co
 Pease Woodwork Co Inc
 Pullum Window Corp
 R O W Window Sales Co
 Rock Island Millwork Co Factory Div
 Southern Mill & Mfg Co
 Woodco Corp

Windows, Hopper Vent, Metal

Albritton Engineering Corp
 Bayley William Co
 Hopes Windows Inc
 Kawneer Co
 Kewanee Mfg Co
 Maco Corp
 Marmet Corp
 Mesker Bros Iron Co
 Metal Trims Inc
 Michel & Pfeffer Iron Works Inc
 Mueller Brass Co
 National Window Corp
 Republic Steel Corp Truscon Div
 Valley Metal Prods Co
 Ware Aluminum Windows Inc
 Wilke Metal Products Inc
 Windalume Corp

Windows, Hopper Vent, Wood

Andersen Corp
 Caradco Inc
 Curtis Companies Inc
 Dierks Forests Inc
 Farley & Loetscher Mfg Co
 International Paper Co Long-Bell Div
 Malta Mfg Co
 Ohio Plate Glass Co
 Rock Island Millwork Co Factory Div
 Rolscreen Co
 Southern Mill & Mfg Co
 Woodco Corp

**Windows, Horizontal Gliding
 Metal
 (See also Doors, Sliding Glass)**



Albritton Engineering Corp
 Alasco Inc
 Alumatic Corp of America
 Aluminum Industries
 Arcadia Metal Products
 Capitol Products Corp
 Copco Steel & Engineering Co
 Corona Mfg Corp
 Crossly Window Corp
 DeVac Inc
 Durell Products Inc

Etling Window
E-Z Set Windows Inc
Fleet of America Inc
Formetal Inc
General Bronze Corp
Hollyview Aluminum Rolling Glass
Humphrey Products Inc
Ida Products Co



Kewanee Mfg Co
Kreuger Mfg Co
Look Products Inc
Mesker Bros Iron Co
Metal Trims Inc
Miami Window Corp
Michel & Pfeffer Iron Works Inc
Mueller Brass Co
National Window Corp
Ohio Plate Glass Co
Peterson Window Corp
Rado Products Inc
Regal Products Corp
Republic Steel Corp Truscon Div
Reynolds Aluminum Supply Co
Royal Jalousie Co
Southern Sash Sales & Supply Co
Storm King Corp
Trim Slide Inc
Trimview Metal Products
Ware Aluminum Windows Inc
Whizzer Industries Inc



Windows, Horizontal Gliding, Wood
(See also Doors, Sliding Glass)

A R B Window Sales Co
Andersen Corp
Crestline Co
Curtis Companies Inc
DeVac Inc
Etling Window
Farley & Loetscher Mfg Co
Horizon Door Co
International Paper Co Long-Bell Div
Malta Mfg Co
Miller Sliding Glass Door Co Inc
Ohio Plate Glass Co
Pulham Window Corp
R O W Window Sales Co
Rock Island Millwork Co Factory Div
Southern Mill & Mfg Co
Woodco Corp

Windows, Jalousie
Air Vue Products Corp
Alco Inc

Arnold Altex Aluminum Co
Chamberlin Co of America
Continental Aluminum Products Co
Fleet of America Inc
Look Products Inc
North East Metal Products Corp
Regal Products Corp
Regulux Sash & Door Co
Republic Steel Corp Truscon Div
Reynolds Aluminum Supply Co
Royal Jalousie Co
Southern Sash Sales & Supply Co
Universal Fabricators
Ware Aluminum Windows Inc
Wells Aluminum Corp
Winter Seal Corp
Woodco Corp

Windows, Metal, Louver-Based

Mueller Brass Co
North East Metal Products Corp
Reynolds Aluminum Supply Co

Windows, Plastic

American Sisalkraft Corp
Arvey Corp
Chemold Co
Dipcraft Mfg Corp
Heinley Mastercraft Products
Koppers Co Inc Durethane Plant
Kordite Co
Plyco Corp

Windows, Projected, Aluminum

Air Vue Products Corp
Bayley William Co
Bliss Steel Prods Corp
DeVac Inc
Fenestra Inc
Flynn Michael Mfg Co
Hopes Windows Inc
Metal Trims Inc
Miami Window Corp
Michel & Pfeffer Iron Work Inc
Mueller Brass Co
National Window Corp
Peterson Window Corp
Republic Steel Corp Truscon Div
Royal Jalousie Co
Southern Sash Sales & Supply Co
Valley Metal Prods Co
Vento Steel Products Co Inc
Ware Aluminum Windows Inc
Winalume Corp
Winter Seal Corp

Windows, Security, Steel

Bayley William Co
Bliss Steel Prods Corp
Hopes Windows Inc
Mesker Bros Iron Co
Michel & Pfeffer Iron Works Inc
Republic Steel Corp Truscon Div

Windows, Single Hung, Aluminum & Steel

Air Vue Products Corp
Alco Inc
Albritton Engineering Corp
Ceco Steel Prods Corp
Crossly Window Corp
DeVac Inc
Fenestra Inc
Formetal Inc
General Bronze Corp
Ida Products Co
Kawneer Co
Metal Trims Inc
Michel & Pfeffer Iron Works Inc
Mueller Brass Co
National Window Corp
Regal Products Corp
Republic Steel Corp Truscon Div
Reynolds Aluminum Supply Co
Reynolds Metals Co
Royal Jalousie Co
Rusco Div of F C Russell Co
Southern Sash Sales & Supply Co
W M Products Co
Ware Aluminum Windows Inc
Winalume Corp
Winter Seal Corp

Windows, Single Hung, Wood

Carado Inc
Crestline Co
DeVac Inc
Paxton Frank Lumber Co

Windows, Storm
(See Windows & Doors, Combination)

Windows, Structural, Wood

Andersen Corp
Crestline Co
Fabrow Mfg Inc
Reuten Fred Inc
Southern Mill & Mfg Co

Wire

American Steel & Wire Div
Bethlehem Steel Co
Chase Brass & Copper Inc
Circle Wire & Cable Corp
Colorado Fuel & Iron Corp
Continental Steel Corp
Conver Steel & Wire Co
Copperweld Steel Co Wire & Cable Div
Eagle Electric Mfg Co
Forbes Steel Corp
General Cable Corp
General Electric Co Constr Materials
Jones & Laughlin Steel Corp
Kaiser Aluminum & Chemical Corp
Laclede Steel Co
Mid-States Steel & Wire Co
Northwestern Steel & Wire Co
Phelps Dodge Copper Prods Corp
Sheffield Div Armco Steel Corp
Sommer Metal Craft Corp
Touch Plate Mfg Corp
Triangle Conduit & Cable Co Inc
United States Steel Corp
Youngtown Sheet & Tube Co

Wiring, Concealed Telephone
American Telephone & Telegraph Co

Wiring Devices, Electrical

Arrow Hart & Hegeman Elec Co
Bryant Electrical Co
Cable Electric Products Inc
Circle F Mfg Co
Cutler Hammer Inc
Eagle Electric Mfg Co
General Electric Co Constr Materials
General Electric Co Wiring Device Dept
Hubbell Harvey Inc
International Register Co
Jerrold Electronics Corp
Keystone Mfg Co
Leviton Mfg Co Inc
Murray Mfg Corp
Pass & Seymour Inc
Rodale Mfg Co Inc
Superior Electric Co
Swivelier Co Inc
Touch Plate Mfg Corp
Union Insulating Co
Wakefield Co
Westinghouse Electric Corp

Wiring Devices, TV & FM
Blonder-Tongue Laboratories Inc
Mosley Electronics Inc

Wiring, Electrical, Multi Outlet

Bryant Electrical Co
Cable Electric Products Inc
Circle Wire & Cable Corp
General Electric Co Wiring Device Dept
Kaiser Aluminum & Chemical Corp
Merwin Mfg Co
Wakefield Co
Wiremold Co

Wiring Systems, Remote Control

Bryant Electrical Co
General Electric Co Constr Materials
General Electric Co Wiring Device Dept
Remcon Div Pyramid Instrument Corp
Superior Electric Co
Touch Plate Mfg Corp
Wakefield Co

Wood
(See Lumber)

MANUFACTURERS DIRECTORY

The full name and address of every manufacturer in the product and brand name sections appears here. For more information on a product, write directly to the company listed.

3

A

- A & A Register Co** 8327 Clinton Rd Cleveland 9 Ohio
A A Wire Products Co 714 E 61 St Chicago Ill
A R B Window Sales Co 19433 John R St Detroit 3 Mich
Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY
Aberdeen Plywood & Veneers Inc Harbor Plywood Div PO Box 1036 Aberdeen Wash
Abesto Mfg Co 131 Wabash St Michigan City Ind
Abitibi Corp 956 Penobscot Bldg Detroit 26 Mich
Accountants' Supply House 518 Rockaway Ave Valley Stream NY
Ackerman Johnson Co 625 W Jackson Chicago 6 Ill
Acme Appliance Mfg Co Acme Builders Hardware Div 200 E Railroad Ave Monrovia Cal
Acme Brick Co PO Box 425 Ft Worth Tex
Acme Engineering & Mfg Corp Box 1203 Muskogee Okla
Acme Industries Inc 600 N Mechanic St Jackson Mich
Acme National Refrigeration Co Inc 19-26 Hazen Astoria Long Island City NY
Acme-Newport Steel Co 9th & Lowell Sts Newport Ky
Acme Shale Brick Co Inc 1153 Main St Buffalo 9 NY
Acorn Mfg Co Mansfield Mass
Acrow Corp of America 231 Washington Ave Carlstadt NJ
Active Tool & Mfg Co 888 Clairpointe Ave Detroit 15 Mich
Adam Frank Electric Co 3651 Windsor Pl St Louis Mo
Adams Bros Mfg Co Inc 1500 North Ave W Pittsburgh 33 Pa
Adams Co PO Box 268 Dubuque Iowa
Adjusta Post Mfg Co 908 S Clair & Bowery Akron 7 Ohio
Admiral Corp 3900 W Cortland Chicago 47 Ill
Ador Corp 2345 W Commonwealth Fullerton Cal
Aeromotor Div Motor Products Corp 2500 Roosevelt Rd Chicago 8 Ill
Aeronca Mfg Co Metal Products Div Middletown Ohio
Afce Corp Box 5085 Lee & Roy Alexandria La
Air Controls Inc 2310 Superior Ave Cleveland 14 Ohio
Air Devices Inc 185 Madison Ave New York 16 NY
Air O-Cel PO Box 62 Ferndale Detroit 20 Mich
Airolite Co Westview Ave Marietta Ohio
Air Placement Equipment Co 1009 11 W 24 St Kansas City 8 Mo
Airtemp Div Chrysler Corp 1600 Webster St Dayton 1 Ohio
Air-Tite Products Inc PO Box 902 South Bend Ind
Air Vue Products Corp 5101 N W 37th Ave Miami 42 Fla
Ajax Hardware Corp 825 S Ajax Ave PO Box 2227 City of Industry LA County Cal
Akron Products Co Seville Ohio
Alabama Metal Lath Co Inc PO Box 992 Birmingham 1 Ala
Alabama Oak Flooring Co Guin Ala
Alabama Wire Co Inc PO Box 648 Florence Ala
- Alamark Inc** PO Box 216 Sharonville Ohio
Alan Wood Steel Co Fenco Div Oaks Pa
Albertson & Co Inc 2901-2999 Floyd Blvd Sioux City 2 Iowa
Albion Div McGraw-Edison Co 704 N Clark St Albion Mich
Albritton Engineering Corp PO Box 31 Bryan Tex
Aldrich Co 111 Williams St Wyoming Ill
All Metal Partition Co Inc 204 DuPont St Brooklyn 22 NY
Allegheny Ludlum Steel Co Oliver Bldg Pittsburgh 22 Pa
Alliance Mfg Co Inc Alliance Ohio
Allianceware Inc Box 909 Alliance Ohio
Allied Chemical Corp Barrett Div 49 Rector St New York 6 NY
Allied Compositions Co Inc 56-25 Flushing Ave Maspeth 78 NY
Allied/Egry Business Systems 429 E Monument Dayton 2 Ohio
Allied Precision Indus Inc 425 Stevens St Geneva Ill
Allis Chalmers Mfg Construction Machinery Div 1126 S 70th St Milwaukee 1 Wisc
Allister Mfg Co Inc Exton Pa
Allith-Prouty Inc 819 N Bowman Ave Danville Ill
Allmetal Weatherstrip Co 1911 Ridge Ave Evanston Ill
Alloy Tile Corp 109 Roosevelt Ave Belleville NJ
Aloha Lumber Corp Aloha Wash
Alpha Portland Cement Co Alpha Bldg Easton Pa
Alseo Inc 225 S Forge Box 270 Akron 8 Ohio
Alside Inc 3773 Akron-Cleveland Rd PO Box 1261 Akron 9 Ohio
Alsto Co 4007 Detroit Ave Cleveland Ohio
Alsynite Div of Reichhold Chemicals Inc 4654 De Soto St San Diego 9 Cal
Alumatic Corp of America 2061 S 56th St Milwaukee 19 Wisc
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Aluminum & Glass Products Co 1901 Franklin Ave Houston Tex
Aluminum Industries 716 E Nash Milwaukee Wisc
Alvey Ferguson Co Inc North & Disney Cincinnati 9 Ohio
Amana Refrigeration Inc Amana Iowa
Ambassa Dor Co Malvern Pa
Ambroid Co Box 30 Weymouth 88 Mass
Amcrete Corp 102 Mamaroneck Ave Mamaroneck NY
American Abrasive Metals Co 460 Colt St Irvington 11 NJ
American Accordion-Fold Doors Inc 171-04-06 Jamaica Ave Jamaica 32 NY
American Air Filter Co 215 Central Ave Louisville 8 Ky
American Art Metals Co 433 Highland Ave NE Atlanta Ga
American Asbestos Product Co 800 Franklin Blvd Cleveland Ohio
American Bitrite Rubber Co Ferrine Ave Trenton 2 NJ
American Bitumuls & Asphalt Co 320 Market St San Francisco 20 Cal
American Builder Book Service Dept 30 Church St New York NY
American Conveyor Co 2133 S Christians Chicago 23 Ill
American Coolair Corp 3604 Mayflower St Jacksonville 3 Fla
American Dusa-Lap Div of Triton Co 122 E 42nd St New York 17 NY
American Engineering Co Div of United Industrial Corp Wheatshaf Lane & Sepviva St Philadelphia 37 Pa
American Flexible Conduit Co 969 Shawmut Ave New Bedford Mass
American Floor Machine Co 5185 St Clair St Toledo 3 Ohio
American Furnace Co 1300 Hampton Ave St Louis 10 Mo
American Hoist & Derrick Co 63 S Robert St St Paul 7 Minn
American Incinerator Corp 5710 E Nevada St Detroit 34 Mich
American Louver Co 5308 N Elston Ave Chicago 30 Ill
American Mat Corp 2336 Adams St Toledo 2 Ohio
American Olean Tile Co 1000 Canhon Ave Lansdale Pa
American Photocopy Equipment Co 2100 W Dempster Evanston Ill
American-Saint Gobain Corp One Rockefeller Plaza New York 22 NY
American Screen Products Co Chatsworth Ill
American Shower Door Co Inc 936 N Cahuenga Blvd Hollywood 38 Cal
American Sisalkraft Corp 55 Starkey Ave Attleboro Mass
American Sta-Dri Co 4102 41st St Brentwood Md
American Standard Air Conditioning Div 40 West 40th St New York NY
American Standard Industrial Div 8111 Tireman Detroit 32 Mich
American-Standard Plumbing & Heating Div 40 W 40th St New York 18 NY
American Steel Door Co 15500 E 12 Mile Rd Roseville Mich
American Steel & Wire Div US Steel Corp 614 Superior Ave NW Cleveland 13 Ohio
American Telephone & Telegraph Co 195 Broadway New York 7 NY
American Varnish Co 1134 N North Branch St Chicago 22 Ill
American Vitriified Prods Co 700 National City Bank Bldg Cleveland 14 Ohio
American Woodworking Machinery Co 100 Liberty St Hackettstown NJ
Amerock Corp 4000 Auburn St Rockford Ill
Amidon Engineering Co 38369 Cleveland Rd Elyria Ohio
Amsterdam Corp 285 Madison Ave New York 17 NY
Ampere Industries 60 Boston St Newark 3 NJ
Amweld Building Products Div American Welding & Mfg Co 100 Plant St Niles Ohio
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn
Anaconda Wire & Cable Co 25 Broadway New York 4 NY
Anchor Fence Div Anchor Post Prods Inc 6509 Eastern Ave Baltimore 24 Md
Andersen Corp Bayport Minn
Androc Chemical Co 7301 W Lake St Minneapolis Minn
Anesite Co 3575 Touhy Chicago 45 Ill
Angel Co 340 Broad St Fitchburg Mass
Angelina Hardwood Sales Co 1312 Wilson St Lufkin Tex
Angell Nail & Chaplet Co 4580 E 71 St Cleveland Ohio
Anoroc Products Inc 181-14 Jamaica Ave Jamaica 23 NY
Anson & Gilkey Co South Sales St Merrill Wisc
Anti Hydro Waterproofing Co 265 Badger Ave Newark 8 NJ
Appleton Coated Paper Co 825 E Wisconsin Ave Appleton Wisc

Arcadia Metal Products 801 South Acadia Ave Fullerton Cal
 Arcata Plywood Corp PO Box 427 Arcata Cal
 Arcata Redwood Co PO Box 218 Arcata Cal
 Architectural Plan Service Inc 89-51 164th St Jamaica 3 NY
 Aree Co 7301 Bessemer Cleveland 27 Ohio
 Arkansas Oak Flooring Co 2200 W Fifth Ave Pine Bluff Ark
 Arkelex Ceramic Corp 6 N Walnut St Brazil Ind
 Arkla Air Conditioning Corp 812 Main St Little Rock Ark
 Armo Drainage & Metal Products 703 Curtis St Middletown Ohio
 Armstrong Cork Co Liberty St Lancaster Pa
 Armstrong Furn Co Div Natl U E 851 W Third Ave Columbus 8 Ohio
 Armstrong Products Corp PO Box 940 Huntington 12 W Va
 Arnold Altex Aluminum Co 6721 NW 36th Ave Miami 47 Fla
 Arps Corp New Holstein Wisc
 Arre Expansion Bolt Co PO Box 388 Marion Ohio
 Arrow Fastener Co Inc 1 Junius St Brooklyn NY
 Arrow Hart & Hegeman Elec Co 103 Hawthorn St Hartford 6 Conn
 Arrow Tank Co Inc 16 Barnett St Buffalo 15 NY
 Art Metal Co 1814 E 40 St Cleveland Ohio
 Artcrest Products Co Inc 255 W 79 St Chicago Ill
 Arvey Corp 3462 N Kimball Ave Chicago 18 Ill
 Arvin Industries Inc Columbus Ind
 Ash Grove Lime & Portland Cement Co 1105 Fairfax Bldg Kansas City Mo
 Asphalt Corp of America Calif & Daniel Sts Danville Ill
 Associated Plan Services Inc 384 New York Ave Huntington NY
 Associated Plumbing Supply Co Inc 10 St Baerfield Fort Wayne Ind
 Ateo Ceramics Corp 101 Park Ave New York NY
 Athens Stove Works Inc 213 Hicks St Athens Tenn
 Atkins Saw Div Borg-Warner Greenville Miss
 Atkins Wood Products Corp 103-12 101 St Ozone Park NY
 Atkinson Mfg Co 502-14 S James Ludington Mich
 Atlanta Oak Flooring Co Box 942 Atlanta Ga
 Atlas Electric Prods Co 324 Maujer St Brooklyn 6 NY
 Atlas Floor Surfacing Machinery Corp 268 East 34th St New York 16 NY
 Atlas Overhead Door Co 122 Mill St Quakertown Pa
 Atlas Press Co 1901 N Pitcher St Kalama-zoo Mich
 Aubrey Hardware Mfg Inc Union Ill
 Auer Register Co 6600 Clement Ave Cleveland 5 Ohio
 Aurora Pump Div New York Air Brake Co Loucks at Dearborn Aurora Ill
 Austin & Eddy Inc 115 Broad St Boston 4 Mass
 Auth Electric Co Inc 34-20 45th St Long Island City 1 NY
 Autographic Business Forms Inc 45 E Wesley St South Hackensack NJ
 Automatic Transportation Co 101 W 87 St Chicago 20 Ill
 Automation Fastening Co Inc 1220 W Ninth St Cleveland 13 Ohio
 Auto-Nailer Co 267 Marietta St Atlanta 13 Ga
 Award Pools 7765 Lemona Ave Van Nuys Cal
 Axford Prairie Shake Co Rt 1 Box 120 Hoquiam Wash
 Asrock Floor Products Div Uvalde Rock Asphalt Co Box 531 San Antonio Tex

B

B & T Metals Co 425 W Town St Columbus 16 Ohio
 Babcock W W Co Inc Delaware Ave Bath NY

Badger Div The Warner & Swasey Co 1124 West Fifth St Winona Minn
 Baldwin-Ehret-Hill Inc 500 Breunig Ave Trenton 2 NJ
 Baldwin Hardware Mfg Corp 841 Wyoming Blvd Reading Pa
 Ballymore Co Lincoln & Garfield West Chester Pa
 Baltz Robert N & Co Inc 1009 Harvard Terrace Evanston 1 Ill
 Bangkok Industries Inc 1545 W Passyunk Ave Philadelphia 45 Pa
 Barber Colman Co Overdoors & Operators Div Park Plant Rockford Ill
 Barber Greene Co 400 N Highland Aurora Ill
 Bar-Brook Mfg Co PO Box 6638 Shreveport La
 Barclay Mfg Co Inc 385 Gerard Ave New York 51 NY
 Barco Mfg Co 500 N Hough St Barrington Ill
 Bard Mfg Co Bryan Ohio
 Barkow Aug G Mfg Co Inc 2230 S 43 St Milwaukee 46 Wisc
 Barnes Mfg Co 651 N Main St Mansfield Ohio
 Barnhardt Mfg Co PO Box 2176 Charlotte 1 NC
 Barreled Sunlight Paint Co Dept 19 PO Box 1365 Providence 1 RI
 Barrett Cravens Co 630 Dundee Rd Northbrook Ill
 Bastian-Morley Co Inc LaPorte Ind
 Bauer Mfg Co Bowman St Wooster Ohio
 Baumgartner Gate Factory S Fifth St Manchester Iowa
 Baxter J H & Co 120 Montgomery St San Francisco Cal
 Bay State Abrasive Products Co Union St Westboro Mass
 Bayley William Co 1200 Warder St Springfield Ohio
 Beach Mfg Co Mill & High Sts Montrose Pa
 Beadex Mfg Inc 4615 Eighth Ave NW, Seattle 7 Wash
 Beauti-Dor Inc 4723 N Pulaski Rd Chicago 30 Ill
 Beautycraft Kitchens Div Miller Metal Products Inc 2215 Russell St Baltimore 30 Md
 Beaver Advance Corp PO Box 792 Ellwood City Pa
 Behr-Manning Co Dept 6132 Troy NY
 Behr Process Corp 1603 Talbert Ave Santa Ana Cal
 Belden Brick Co Canton 1 Ohio
 Bell & Gossett Co 8200 N Austin Morton Grove Ill
 Bellkoel Co Inc 531 N Eighth St Milwaukee Wisc
 Belsaw Machinery Co 315 Westport Rd Kansas City 11 Mo
 Belson Mfg Co East River Rd N Aurora Ill
 Belwood Industries Inc Ackerman Miss
 Bellwood Co 533 West Collins Orange Cal
 Bemis Mfg Co 304 Broadway Sheboygan Falls Wisc
 Bendix Mouldings Inc 192 Lexington Ave New York 16 NY
 Benjamin Div Thomas Industries Inc 207 E Broadway Louisville Ky
 Bennett-Ireland Inc 1151 Market St Norwich NY
 Bennett Mfg Co Railroad St Alden NY
 Berg F O Co N 318 Division St Spokane Wash
 Berg John Mfg Co 5319 S LaSalle St Chicago 9 Ill
 Berger C I & Sons 37 William St Boston Mass
 Berger Insulation Co Inc 5920 Centre Ave Pittsburgh 6 Pa
 Berkeley Aluminum Products Div of Allied Metals Inc 14 Hamilton St New London Conn
 Berko Electric Mfg Corp 182-20 Liberty Ave Jamaica 12 NY
 Berns Air King Corp 3050 N Rockwell St Chicago 18 Ill
 Berry Deer Corp 2400 E Lincoln Rd Birmingham Mich
 Besler Disappearing Stairway 1900 E Market St Akron 5 Ohio
 Bestwall Gypsum Co 120 E Lancaster Ave Ardmore Pa
 Bestwood Cedar Shingle Co Ltd Box 2042 Vancouver 3 BC
 Bethlehem Steel Co Bethlehem Pa

Better-Bilt Door Co 950 Harbor Rd Egg Harbor City NJ
 Better Homes and Gardens 1716 Locust St Des Moines 3 Iowa
 Bi-Products Corp 219 N York Rd Hathboro Pa
 Bica Co 1170 N State St Girard Ohio
 Biddle Co Breckenridge Industrial Court St Louis 17 Mo
 Biersach & Neidermeyer Co 1957 N Hubbard St Milwaukee Wisc
 Bigelow-Sanford Inc 140 Madison Ave New York NY
 Bilco Co 37 Water St West Haven Conn
 Bil-Jax Inc 100 Wyss Rd Archbold Ohio
 Biltbest Corp 175 Coyne St Ste Genevieve Mo
 Binswender Glass Co PO Box 3051 Houston 1 Tex
 Bird & Son Inc East Walpole Mass
 Birdair Structures Inc 1800 Broadway Buffalo 12 NY
 Birge Co Inc 390 Niagara St Buffalo 1 NY
 Birmingham Plywood Sales Co PO Box 138 Birmingham Mich
 Black Hills Clay Products Co Box 730 Belle Fourche SD
 Black & Decker Mfg Co 600 E Pennsylvania Towson 4 Md
 Blackstone Corp 1032-88 Allen St Jamestown NY
 Bliss Steel Prods Corp 617 W Manlius St E Syracuse NY
 Blonder-Tongue Laboratories Inc 9 Alling St Newark 2 NJ
 Bloomington Limestone Corp 900 Walnut Box 44 Bloomington Ind
 Blum Julius & Co Inc Carlsbad NJ
 Bodinson Mfg Co 149 S Airport Blvd South San Francisco Cal
 Boice Crane Co 930 W Central Ave Toledo 6 Ohio
 Boise Cascade Corp Box 2207 315 E Jackson St Spokane 7 Wash
 Borden Chemical Co Div Borden Co 350 Madison Ave New York 17 NY
 Borg-Warner Corp Ingersoll Humphreys Div 201 East Fifth St Mansfield Ohio
 Borg-Warner Corp Fedco Products Div 24700 N Miles Rd Bedford Ohio
 Boro Wood Prods Co Inc PO Box 636 Bennettsville SC
 Bostitch E Greenwich RI
 Boston Lightning Rod Co Dedham Mass
 Bestrom-Brady Mfg Co 526 Stonewall St SW Atlanta 3 Ga
 Bostwick Steel Lath Co 1890 Griswold Dr Niles Ohio
 Bosworth Mfg Co 34250 Mills Rd Avon Ohio
 Bowerston Shale Co Box 155 Bowerston Ohio
 Bradley Southern Div Potlatch Forests Inc PO Box 390 Warren Ark
 Brammer Mfg Co 1441 Rockingham Rd Davenport Iowa
 Briar Hill Stone Co Glenmont Ohio
 Bridgeport Brass Co Hunter Douglas Div 30 Grand St Bridgeport 2 Conn
 Bridgeport Hardware Mfg Corp Scofield Ave Bridgeport 5 Conn
 Briggs Manufacturing Co 6600 E 15 Mile Rd Warren Mich
 Brikerete Associates Inc Holland Mich
 Brixite Mfg Co Inc S Kearny NJ
 Broan Mfg Co Inc 926 W State St Hartford Wisc
 Brookhaven Pressed Brick Mfg Co Brookhaven Miss
 Brookings Plywood Corp PO Box 1008 Brookings Ore
 Brooks-Scanlon Inc Box 1111 Bend Ore
 Brown Co 150 Causeway St Boston 14 Mass
 Brown George C & Co Inc 1730 W Lee St Greensboro NC
 Brown & Grist Inc 25 Tyler Ave Newport News Va
 Brown Prods Co 1090 Springfield Union NJ
 Brown Stove Works Inc PO Box 495 Cleveland Tenn
 Brown W E Corp 2701 N Normandy Ave Chicago 35 Ill
 Bruce E L Co 1648 Thomas Box 397 Memphis 1 Tenn
 Brule Incinerator Corp 13920 S Western Ave Blue Island Ill

Bryant Electrical Co 1421 State St Bridgeport 2 Conn
 Bryant Manufacturing Co 2020 Montcalm St Indianapolis Ind
 Bucyrus-Erie Co S Milwaukee Wisc
 Buffalo Forge Co 490 Broadway Buffalo 4 NY
 Buffalo Wallcraft Co Inc PO Box 54 Buffalo 7 NY
 Builders Brick Co 3900 Ninth Ave S Seattle 8 Wash
 Builders Fireplace & Supply 2604 Link Rd Houston Tex
 Bulldog Div Gregory Industries Inc Toledo Ave & E 28 St Lorain Ohio
 Bulldog Electric Products Div I-T-E Circuit Breaker Co 7610 Joseph Campau Detroit 11 Mich
 Burgess-Manning Co 749 E Park Libertyville Ill
 Burgess Vibrocrafters Inc Graylake Ill
 Burnham Corp Heating & Cooling Div Irvington NY
 Burnham Corp Warm Air & Cooling Div Fourth & Main Sts Belle Vernon Pa
 Burr-Southern Div State Steel Industries Inc 17900 E Valley Blvd PO Box F1 City of Industry Cal
 Burroughs Corp 6071 Second Blvd Detroit 32 Mich
 Burt Mfg Co 44 E South St Akron 11 Ohio
 Buschman E W Co Inc 4481 Clifton at Winton Pl Cincinnati 32 Ohio
 Buss Machine Works Inc Eighth & Eldon Sts Holland Mich
 Butcher & Hart Mfg Co 4601 Cortland Ave Altoona Pa
 Butler Mfg Co 7400 E 13 St Kansas City 26 Mo
 Byers A M Co Clark Bldg Pittsburgh Pa

C

C & H Air Conditioning Co Inc 1591-1623 DeKalb Atlanta Ga
 C H & E Manufacturing Co 3849 N Palmer St Milwaukee 12 Wisc
 C & H Electric Machine Co 436 W Juneau Ave Milwaukee 3 Wisc
 Cable Electric Products Inc 234 Daboll St Providence RI
 Cabot Samuel Inc 1144 Oliver Bldg Boston 10 Mass
 Cal Vent Mfg Co 1032 Gerhart Ave Los Angeles 22 Cal
 Calbar Inc 2626 N Martha St Philadelphia 25 Pa
 Calcinator Corp 28 & Water Sts Bay City Mich
 Calder Mfg Co Box 1558 Lancaster 12 Pa
 Caldwell Mfg Co 68 Commercial St Rochester 14 NY
 California Car Wash Systems Inc 7265 Radford Ave North Hollywood Cal
 Caloric Appliance Corp Topton Pa
 Cambridge Tile Mfg Co Box 71 Cincinnati 15 Ohio
 Camp Co Inc 9300 S Sangamon St Chicago 20 Ill
 Campbell Mfg Co Inc Front & Washington Sts Boyertown Pa
 Canadian Forest Prods Ltd Hunting-Merritt Shingle Div 9110 Milton St Vancouver 14 BC
 Cannelton Sewer Pipe Co Fourth & Washington Sts Cannelton Ind
 Cannon Electric Co 3206 Humboldt St Los Angeles Cal
 Cape Cod Cupola Co N Dartmouth Mass
 Capilano Timber Co Ltd Box 2230 Vancouver BC
 Capitol Products Inc 1839 S Main Jacksonville Ill
 Capitol Products Corp Carlisle Pike Mechanicsburg Pa
 Capri Mfg Inc 2021 N Lincoln Burbank Cal
 Capri Sales Inc 217 N Lake St Burbank Cal
 Caradco Inc Eleventh & Jackson Dubuque Iowa
 Carbolineum Wood Preserving Co 6683 N 40 St Milwaukee 9 Wisc
 Carborundum Co PO Box 337 Niagara Falls NY
 Carey-McFall Co 2156 E Dauphin St Philadelphia 25 Pa

Carey Philip Mfg Co 320 S Wayne Cincinnati 15 Ohio
 Carlon Products Corp PO Box 133 Aurora Ohio
 Carlyle Tile Co Box 128 Ironton Ohio
 Carney Co Inc PO Box 28 Mankato Minn
 Carpenter Oak Flooring Co 906 N 40 Box 3173 Birmingham Ala
 Carrier Corp Carrier Parkway Syracuse 1 NY
 Carrollton Mfg Co Sink Div Carrollton Ohio
 Carter-Waters Corp 2440 W Pennway Kansas City Mo
 Carthage Marble Corp Box 612 Carthage Mo
 Cascade Lumber Co Div of Boise-Cascade Corp N Seventh & H Sts Yakima Wash
 Cascade Pools Corp Talmadge Rd Edison NJ
 Cascades Plywood Corp 1316 Public Service Bldg Portland 4 Ore
 Case J I Co 700 State St Racine Wisc
 Case Mfg Div of Orden Corp 1000 W Pine St Robinson Ill
 Casings Inc & Drywall Trim Div 2408 N Farwell Ave Milwaukee 14 Wisc
 Caterpillar Tractor Co Peoria Ill
 Cavalier Corp 341 W First St Chattanooga Tenn
 Ceco Steel Prods Corp 5601 W 26 St Chicago 58 Ill
 Cedar Supply Co Humptulips Wash
 Cedarwood Timber Co Box 105 Vernonia Ore
 Cellheat Inc 3 Malden St Natick Mass
 Celotex Corp 120 S LaSalle St Chicago 3 Ill
 Cemex of Arizona 8940 Sunset Blvd Los Angeles 46 Cal
 Cenatron Industries 5464 Rt 99 S Fresno Cal
 Central Foundry Co 932 Broadway New York 10 NY
 Central Metal Strip Co 4345 N Western Ave Chicago 15 Ill
 Ceresit Corp 3227 S Shields Ave Chicago 16 Ill
 Cermak Tile Co Inc 4901 Brookpark Rd Cleveland 29 Ohio
 Certain-Teed Products Corp 120 E Lancaster Ave Ardmore Pa
 Chain Belt Co 4689 W Greenfield Ave Milwaukee 1 Wisc
 Challenger Lock Co 2349 W La Palma Anaheim Cal
 Chamberlin Co of America 745 Fifth Ave New York 22 NY
 Chambers Built-ins Inc 2012 N Harlem Ave Chicago 35 Ill
 Champion Dearthment Tool Co 1306-16 Main St Meadville 1 Pa
 Champion Door Co Inc 7106 Pomander Lane Chevy Chase 15 Md
 Charleston Clay Prods Co PO Box 349 Charleston 22 W Va
 Chase Brass & Copper Inc 236 Grand St Waterbury 20 Conn
 Chattanooga Royal Co First & Delmar Sts Chattanooga 6 Tenn
 Chelsea Elevator Co 549-551 W 32 St New York 19 NY
 Chelsea Fan & Blower Co Inc 639 S Ave Plainfield NJ
 Chemical Products Div Darworth Inc 56 Maple St Simsbury Conn
 Chemold Co 2000 Colorado Ave Santa Monica Cal
 Cherokee Brick & Tile Co PO Box 58 Macon Ga
 Chester Products Inc Belle Ave & B&ORR Hamilton Ohio
 Chevrolet Motor Div Gen Motors Gen Motors Bldg Detroit 2 Mich
 Chicago Blower Corp 9867 Pacific Ave Franklin Park Ill
 Chicago Bronze & Color Works 2637 W Grand Ave Chicago 12 Ill
 Chicago Expansion Bolt Co 1338 W Concord Pl Chicago 22 Ill
 Chicago Faucet Co 2700 22 N Pulaski Chicago 39 Ill
 Chicago Metal Strip Co 4521 N Clark St Chicago 40 Ill
 Chicago Pneumatic Tool Co Six E 44 St New York 17 NY
 Chicago Pottery Co 1920 N Clybourn Chicago 14 Ill
 Chicago Pump Co 622 Diversey Pkwy Chicago 14 Ill
 Chicago Spring Hinge Co 1500-02 Carroll Ave Chicago 7 Ill

Chickamauga Cedar Co Inc Stevenson Ala
 Chicopee Mills Inc Lumite Div 47 Worth St New York 13 NY
 Cincinnati Iron Fence Co Inc 2101 Florence Ave Cincinnati 6 Ohio
 Cincinnati Tool Co 1946 Waverly Ave Cincinnati 12 Ohio
 Circle F Mfg Co 720 Monmouth St Trenton NJ
 Circle Wire & Cable Corp Sub of Cerro De Pasco Corp 5500 Maspeth Ave Maspeth NY
 City Chemical Corp 132 22nd St New York 11 NY
 Clarage Fan Co One Clarage Place Kalamazoo Mich
 Clark Door Co Inc 515 Hunterdon St Newark 8 NJ
 Clark Equipment Co Construction Machinery Div Box 599 Benton Harbor Mich
 Clark Equipment Co Industrial Truck Div 24th St & Lafayette Battle Creek Mich
 Clark J R Co Spring Park Minn
 Clarke Floor Machine Co Div of Studebaker-Packard Corp 30 E Clay Ave Muskegon Mich
 Clay City Pipe Co Lock Drawer 272 Uhrichsville Ohio
 Clay Equipment Corp Cedar Falls Iowa
 Clayton Mark & Co 1900 Dempster St Evanston Ill
 Cleveland Heater Co 2310 Superior Ave Cleveland 14 Ohio
 Cleveland Steel Specialty Co 3779 E 91 St Cleveland 5 Ohio
 Cleveland Trencher Co 20100 St Clair Ave Cleveland 17 Ohio
 Cleveland Wash Tray Mfg Co 1250 W 65 St Cleveland 2 Ohio
 Clinton Metallic Paint Co Arthur St Clinton NY
 Clipper Mfg Co 2800 Warwick Kansas City Mo
 Clopay Corp Clopay Square Cincinnati 14 Ohio
 Cloud Oak Flooring Co 1915 N Weller Springfield Mo
 Clyde Iron Works Inc 29th Ave & W Mich Duluth 1 Minn
 Coddington E D Mfg Co 5024 N 37 St Milwaukee 9 Wisc
 Coffing Holst Div Duff-Norton 100 Pioneer Ave Charlotte NC
 Coffman E G Co Inc PO Box 1113 Orlando Fla
 Cole Mfg Co PO Box 2657 Memphis 2 Tenn
 Cole Prods Corp PO Box 4182 Austin Tex
 Coleman Co Inc Second & St Francis Wichita 1 Kan
 Colonial Bronze Co Winsted Rd Torrington Conn
 Colonial Fireplace Co 540 N Cicero Chicago 44 Ill
 Colonial Moulding & Frame Co Inc 928 Broadway New York 10 NY
 Colonial Pool Co Inc 5816 N Lincoln Ave Chicago 25 Ill
 Colonial Products Co Broad & Park Sts Dallastown Pa
 Colonna Angelo Inc Westmoreland & Boudinot Sts Philadelphia 34 Pa
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
 Colorado Fuel & Iron Corp 575 Madison Ave New York 22 NY
 Colorado Metal Prod Corp 450 Kalamath St Denver Colo
 Colorcrete Industries Inc 500 W 24 St Holland 1 Mich
 Coison Corp 7 S Dearborn Chicago Ill
 Columbia Brick Works 1320 S E Water Ave Portland 14 Ore
 Columbia Geneva Steel Div US Steel 120 Montgomery St San Francisco Cal
 Columbia Machine Inc 107 Grand Blvd Vancouver Wash
 Columbia Metal Box Co 360 E 143 St New York 51 NY
 Columbia Mills Inc 368 S Warren St Syracuse 1 NY
 Columbia Southern Chem Corp 1 Gateway Center Pittsburgh 22 Pa
 Columbus Coated Fabrics Corp E Seventh & Grant Aves Columbus 16 Ohio
 Columbus Plastic Prods Inc 1625 W Mound St Columbus 23 Ohio
 Comet Mfg Div Siegler Corp PO Box 2098-D Pasadena Cal

3

Commercial Sound Div Dukane Corp
St Charles Ill
Commonwealth Lumber Corp Box 346
Murphy NC
Concrete Weld Co G-5186 Coldwater Rd
Flint 6 Mich
Condensation Engineering Co 3511 W
Potomac Ave Chicago 51 Ill
Cordon-King Co 1247 Rainier Ave Seattle
44 Wash
Congoleum-Nairn Inc 195 Belgrove Dr
Keary NJ
Connor Lumber & Land Co 231 Thomas
St Wausau Wis
Consolidated General Prod Inc PO Box
7425 Houston Tex
Consolidated Mach & Supply Co Ltd 2031
Santa Fe Ave Los Angeles 21 Cal
Consoweld Corp 700 Hooker St Wisconsin
Rapids Wis
Construction Cost Institute Box 8788 Uni-
versity Denver 10 Colo
Construction Machinery Co 420 Vinton
St Waterloo Iowa
Contact Lumber Co 719 Corbett Bldg
Portland 4 Ore
Continental Aluminum Prods Co 1800 W
Roscoe St Chicago 13 Ill
Continental Can Co Conolite Dept 135 S
LaSalle St Chicago Ill
Continental Pump Co 1027 S Vandeventer
St Louis Mo
Continental Radiant Glass Heating 4 W
40th St New York 18 NY
Continental Steel Corp 1109 S Main St
Kokomo Ind
Contractors Trailer Co Williamstown
Mass
Controls Co of America Heating & Air
Conditioning Div 2450 N 32 St Milwaukee
Wisc
Conver Steel & Wire Co 609 E 132 St New
York 54 NY
Cook A B Co Malvern Ark
Cook F C & Co PO Box 6707 Towson 4
Md
Cook Paint & Varnish Co 1412 Knox N
Kansas City Mo
Cookson Co 1525 Cortland Ave San Fran-
cisco 10 Cal
Copeo Steel & Engineering Co Commod-
ity Products Div PO Box 6257 Detroit
34 Mich
Copperweld Steel Co Wire & Cable Div
Glassport Pa
Coppes Inc Nappanee Ind
Copynation Inc 5650 N Western Ave Chi-
cago 45 Ill
Corbin F & F Div American Hardware
Corp 102 Washington St New Britain
Conn
Corona Mfg Corp 11300 Tuxford St Sun
Valley Cal
Corson G & W H Inc Plymouth Meeting
Pa
Corvallis Plywood PO Box 411 Corvallis
Ore
Cory Corp 3200 W Peterson Ave Chicago
45 Ill
Cox Arthur & Sons Inc 70 N Sycamore St
Pasadena Cal
Crab Orchard Stone Co Inc PO Box 238
Crossville Tenn
Craftsman Book Co of America 11975 San
Vicente Blvd Los Angeles 49 Cal
Craftwood Products 94 Stephen St Belle-
ville NJ
Crane Co Plumbing Heating & Air Con-
ditioning Group PO Box 780 Johnstown
Pa
Crawford Door Co 20263 Hoover Rd Det-
roit 5 Mich
Creo-Dipt Co Inc 968 Oliver St N Tona-
wanda NY
Cre-O-Tox Chemical Co 2670 Broad St
Memphis 12 Tenn
Crestline Co 100 Thomas St Wausau Wis
Cromar Co Susquehanna St Williamsport
Pa
Crossett Lumber Co Crossett Ark
Crossly Window Corp 7375 N W 35th Ave
Miami Fla
Crown Aluminum Industries Corp 5820
Centre Ave Pittsburgh Pa
Crown Rubber Co 1615 Croghan St Fre-
mont Ohio
Crown Tile Corp PO Box 564 Maddillon
Ohio
Crown Zellerbach Corp 343 Sansome St
San Francisco 19 Cal
Cuckler Steel Span Co PO Box 346 Mont-
icello Iowa

Culligan Inc 1657 Shermer Ave North-
brook Ill
Cummins Portable Tools Div John Oster
Mfg Co 5055 N Lydell Ave Milwaukee
17 Wisc
Cuppies Products Corp 2650 S Hanley Rd
St Louis 17 Mo
Curtis-Allbrite Lighting Inc 6135 W 65 St
Chicago Ill
Curtis Companies Inc 1200 S Second Ave
Clinton Iowa
Curtiss Wright Corp Curoa Div 50 Rocke-
feller Plaza New York NY
Curtition Corp 12616 Chadron Ave Haw-
thorne Cal
Cutler Hammer Inc 201 N 12 St Milwau-
kee 1 Wisc
Cutler Metal Prods Co 1025 Line St Cam-
den NJ

D

Dad & Lad Co PO Box 285 New Lenox
Ill
Dalton Mfg Co 30 S Central Ave St Louis
5 Mo
Damascus Steel Products Corp 2215 Kish-
waukee St Rockford Ill
Damp-Vent Co 210-17 St Box 203 Bettend-
orf Iowa
Danbury Rubber Co Inc Shelter Rock Rd
Danbury Conn
Danuser Machine Co 500 E Third St
Fulton Mo
DAP Inc 5300 Huberville Ave Dayton
Ohio
Daryl Products Corp 7240 N E Fourth Ave
Miami Fla
Dasco Co Inc 1602 Thames St Baltimore
31 Md
David White Instrument Div Realist Inc
Box 67 Menomonee Falls Wisc
Davidson Enamel Products Inc 1100 E
Kibby St Lima Ohio
Day & Night Mfg Co 855 Anaheim-
Fuente Rd La Puente Cal
Dayton Electric Mfg Co 126 S Oakley
Blvd Chicago Ill
Dayton Safety Ladder Co 2337 Gilbert
Ave Cincinnati 6 Ohio
Dayton Sure-Grip & Shore Co 504 Ker-
cher St Miamisburg Ohio
Dearborn Glass Co 6600 S Harlem Ave
Bedford Park Ill
Dearborn Steve Co 1700 W Commerce St
Dallas Tex
Decatur Pump Co 2750 Nelson Pk Rd
Decatur Ill
Decro-Wall Corp 21 Saw Mill River Rd
Yonkers NY
Dee Clay Prod Co Inc Bloomingdale Ind
Deer Park Pine Industry Inc Deer Park
Wash
Delco Appliance Div General Motors
PO Box 230 Rochester 1 NY
Delta Co 333 West 24 Pl Chicago Ill
Delta Faucet Corp 12825 Ford Rd Dear-
born Mich
Deluxe Saw & Tool Co 510 E Main St
Louisville Ky
Del-Val Mfg Co 519 W Huntingdon St
Philadelphia 33 Pa
Deming Co 563 Broadway Salem Ohio
Dempster Mill Mfg Co 711 South Sixth St
Beatrice Neb
Deniston Co 4856 S Western Ave Chicago
9 Ill
Dennis W J & Co 9148 King St Franklin
Park Ill
Design Technics 4 E 52nd St New York
22 NY
Designware Industries Inc 6536 Main St
Minneapolis 21 Minn
Desmond Bros Paint Co 1526 W 228 St
Torrance Cal
Desmond-Stephan Mfg Co 425 S Walnut
Urbana Ohio
DeSoto Hardware Flooring Co 977 Sledge
Ave Memphis Tenn
DeVac Inc 5901 Wayzata Blvd Minne-
apolis Minn
Devilbiss Co 300 Phillips Ave Toledo 1
Ohio
Devoe & Reynolds Co Inc PO Box 1863
Louisville Ky
DeWalt Inc Fountain Ave Lancaster Pa
Dewey & Almy Chemical Div W E Grace
& Co 62 Whittemore Ave Cambridge 40
Mass
Dewey Portland Cement Co Div of
American Marietta Co 4646 Roanoke
Pkwy Kansas City 12 Mo

Dexter Lock Div Dexter Industries 1609
Madison S E Grand Rapids 2 Mich
Diamond Expansion Bolt Co Inc 500
North Ave Garwood NJ
Diamond Lumber Co 323 Pittcock Block
Portland Ore
Diamond T Motor Truck Co 4401 W 26
St Chicago 23 Ill
Dick A B Co 5700 W Touhy Chicago 48
Ill
Diebold Inc 818 Mulberry Rd S E Canton
2 Ohio
Dierks Forests Inc 810 Whittington Ave
Hot Springs Ark
Diety R E Co 225 Wilkinson St Syracuse
1 NY
Dietsgen Eugene Co 2425 N Sheffield
Chicago 14 Ill
Dina-Pak Corp PO Box 488 Irving Tex
Dipcraft Mfg Co 4830 Hatfield St Pitts-
burgh 1 Pa
Disston Div H K Porter Co Inc Unruh &
Milnor Sts Philadelphia 35 Pa
Division Lead Co 742 W 61 Pl Summit
Ill
Dixie Products Inc PO Box 475 Cleveland
Tenn
Dixie Raydiant Electric Heat Corp 66
11th St N E Atlanta 9 Ga
Dixon Joseph Crucible Co 167 Wayne St
Jersey City 3 NJ
Dodge Cork Co Inc Laurel & Manor Sts
Lancaster Pa
Dodge Division 7900 Joseph Campau De-
troit 31 Mich
Dodge F W Corp 119 W 40 St New York
18 NY
Donley Brothers Co 13910 Miles Ave
Cleveland 5 Ohio
Doorscope Co 32 Union Square New
York 3 NY
Door's Inc PO Box 66 115 N Lyman St
Wadsworth Ohio
Dormalux Co Inc 50 Mechanic Buffalo 2
NY
Dormeyer Corp Kingsbury & Huron Sts
Chicago Ill
Dor-O-Matic Div Republic Industries Inc
7350 W Wilson Ave Chicago Ill
Dorr-Oliver Inc Havemeyer Lane Stam-
ford Conn
Dosch Mfg Co Delaware County Thorn-
ton Pa
Dotmar Industries Inc 502 Hanselman
Bldg Kalamazoo Mich
Douglas Crestlyn International Inc 3521
V St N E Washington 18 DC
Douglas Fir Plywood Co PO Box 215
Coquille Ore
Douglas & Sturgess 615 Fifth Ave San
Francisco Cal
Dover Corp Electric Elevator Div 5000
Brotherton Rd Cincinnati 9 Ohio
Dover Corp Peerless Mfg Div 1400 West
Ormsby Ave Louisville 1 Ky
Dow Chemical Co 1000 Main St Midland
Mich
Dowaglac Steel Furnace Co 109 Beeson
St Dowaglac Mich
Drain Plywood Co PO Box 98 Drain Ore
Dravo Corp Neville Island Pittsburgh 25
Pa
Drayson-Hanson Div Natl US Radiator
Corp 3301 Medford St Los Angeles 63
Cal
Drott Mfg Corp 3126 S 27 St Milwaukee
15 Wisc
Du-All Scaffold Bracket Co 383 S Third
St Columbus 15 Ohio
Dubuque Products Inc 310 Allen St Dy-
ersville Iowa
Ductless Hood Co Inc 608 Plandome Rd
Manhasset NY
Dulaney Plywood Corp 1440 Common-
wealth Blvd Louisville Ky
Dunham-Bush Inc 179 South St West
Hartford 10 Conn
Dunkirk Radiator Corp 85 Middle Rd
Dunkirk NY
Dun & Bradstreet Inc 99 Church St New
York 8 NY
Dunn W E Co 415 W 23 St Holland Mich
Duo-Safety Ladder Corp 513 W Ninth
Ave Oakkosh Wisc
DuPont de Nemours & Co Inc E I 1007
Market St Wilmington 98 Del
Durable Fir Lumber & Plywood Co Menlo
Park Cal
Duraflex Co 3500 N W 52 St Miami Fla
Dural Products Co Rockville Md
Durell Products Inc 3600 Airport Way
Seattle 4 Wash

Durkee-Atwood Co 215 Seventh St N E
Minneapolis 13 Minn
Duro Metal Products Co 2651 N Kildare
Ave Chicago 39 Ill
Duroson Bros Shake Mill 4426 Alice St
Bellingham Wash
Dur O Wall Div Cedar Rapids Block Co
650 Twelfth Ave S W Cedar Rapids
Iowa
Dwyer Products Corp Calumet & Holiday
Michigan City Ind
Dynlon Water Systems Inc 6120 Binney
Omaha Nebr

E

E G Building Fasteners Corp 101 Park
Ave New York 17 NY
Eagle Electric Mfg Co 23-10 Bridge Plaza
S Long Island City NY
Eagle-Fisher Co American Bldg Cincinnati
1 Ohio
Eagle Rule Mfg Corp 505 Hunts Point
Ave New York 59 NY
Earle Hardware Mfg Co Box 363 Pittston
Pa
Eastern Products Corp 1601 Wicomico St
Baltimore 30 Md
Earth Equip Corp 1409 Santa Fe Los Angeles
Cal
Easy Laundry Appliances Div Murray
Corp of America 919 N Michigan Ave
Chicago 11 Ill
Economy Forms 4301 E 14 St Des Moines
Iowa
Edco Products Inc Polk Ave Hopkins
Minn
Edwards Co Inc Post Hill Rd Norwalk
Conn
Edwards Engineering Corp 101 Alexander
Ave Pompton Plains NJ
Efron Theodore Mfg Co 7519 S Green-
wood Ave Chicago 19 Ill
Elmco Corp 654 S Fourth W St Salt Lake
City Utah
Ekco Prods Co Bedford Canton Ohio
Ekco Products Co Ekco-Autoyre Div
1940 N Cicero Ave Chicago 39 Ill
Ekstrom Carlson & Co 1417 Railroad Ave
Rockford Ill
Elastic Stop Nut Corp of America 2330
Vauxhall Rd Union NJ
Electra Mfg Co 2000 W Fulton Chicago
Ill
Electrend Products Corp Box 110 St Joseph
Mich
Electro-Ray Mfg Co 8310 N E Hwy 99
Vancouver Wash
Electromode Div Commercial Controls
PO Box 1052 Rochester NY
Elgin Softener Corp 236 N Grove Ave
Elgin Ill
Elgin-Standard Brick Mfg Co Box 546
Elgin Tex
Eliason Tool Co 6944 Pillsbury Ave Min-
neapolis Minn
Eljer Co 3 Gateway Center Pittsburgh 22
Pa
Elkay Mfg Co 2700 South 17th St Broad-
view Ill
Elliott Bay Mill Co 600 W Spokane St
Seattle 4 Wash
Elliott Industries Inc 143 Albany St
Cambridge 39 Mass
Elliott Paint & Varnish Co 4523 Fifth Ave
Chicago 24 Ill
Embassy Steel Prods Inc 890 Stanley Ave
Brooklyn 8 NY
Emco Cement Prods Inc Birdboro Pa
Emerson Electric Mfg Co 8100 Florissant
Ave St Louis 21 Mo
Emerson-Imperial Lighting Co Box 427
Latrobe Pa
Emerson-Pryne Co 140 N Towne Co Po-
mona Cal
Emerson Radio & Phone Corp 14 & Coles
Sts Jersey City NJ
Empire Level Mfg Co 10930 W Potter Rd
Milwaukee 13 Wisc
Empire Stone Co PO Box 788 Bloomington
Ind
Empire Stone Co 918 Freeburg Ave Belle-
ville Ill
Empress Brick Co Inc PO Box 8005 San
Antonio 12 Tex
Engineered Products Co 129 N Grand
Traverse St Flint 3 Mich
Epo Swimming Pool Co 403 W Wood-
lawn St Philadelphia 44 Pa
Equipment Div Young Spring & Wire
Corp 500 Lehmann Ave Bowling Green
Ohio

Erdle Perforating Co Inc 171 York St
Rochester NY
Eric City Iron Works 1420 East Ave Erie
Pa
E/S Products Inc 642 Fayette Ave Ma-
maroneck NY
Etling Window 324 Wooster Rd N Bar-
beron Ohio
Evanite Plastic Co Div of Evans Pipe Co
Carrollton Ohio
Evans Brick Co 23 Newport Ave Uhrichs-
ville Ohio
Evans Pipe Co 23 Newport Ave Uhrichs-
ville Ohio
Evans Products Co 13101 Eckles Rd Plym-
outh Mich
Evans Products Co 209 Crees Bldg Cor-
vallis Ore
Evans Rule Co 400-416 Trumbull Eliza-
beth NJ
Evercrete Corp 424 W 42 St New York 18
NY
Eveready Brikas Co 1104 Union Ave
Kansas City Mo
Evergreen States Forest Products 252
Broadway Tacoma Wash
Everite Pump & Mfg Co Inc W Roseville
Rd Lancaster Pa
Everwarm Inc 3600 Pleasant Ridge Rd
Knoxville Tenn
Exchange Sawmills Sales Co 923 Grand
Ave Kansas City 6 Mo
Executone Inc 415 Lexington Ave New
York 17 NY
Extension Drawer Support Co 2319 W
Washington Los Angeles 18 Cal
E-Z Set Windows Inc Box 13096 San
Diego Cal
EZ-Way Sales Inc Box 300 St Paul Park
Minn

F

Fabricon Co 743 N Snelling Ave St Paul
4 Minn
Fabrikona Inc East Taunton Mass
Fabra Mfg Inc 7208 Douglas Rd Toledo
13 Ohio
Fair D L Lumber Co Box 309 Louisville
Miss
Fairbanks Morse & Co 600 S Michigan
Ave Chicago 5 Ill
Fanon Electronic Industries Inc 439 Fre-
linghuysen Ave Newark 12 NJ
Farley & Loetscher Mfg Co Seventh &
White Sts Dubuque Iowa
Farwell Metal Fabricating 111 Fairfield
Ave St Paul 7 Minn
Fasco Industries Inc 255 N Union St
Rochester 2 NY
Fastener Corp 3702 River Rd Franklin
Park Ill
Fastway Fasteners Inc 1676 E 28 St Lo-
rain Ohio
Featherock Inc 6331 Hollywood Blvd Los
Angeles 28 Cal
Fedders Corp Lalor & Hancock Sts Tren-
ton NJ
Federal Boiler Co Inc Granite & West
Sts Midland Park NJ
Federal Hardware Products Div of Fed-
eral Industries Inc 3456 N Washington
Ave Minneapolis 12 Minn
Federal Pacific Electric Co 50 Paris St
Newark 1 NJ
Fenestra Inc 2250 E Grand Blvd Detroit
11 Mich
Ferguson Harry J Co 141 West Ave Jen-
kintown Pa
Ferro Corp Color Div 60 Greenway
Drive Pittsburgh 4 Pa
Fiat Metal Mfg Co 9301 W Belmont Ave
Franklin Pk Ill
Fiberboard Paper Prods Inc 475 Brannan
St San Francisco Cal
Fibersin Plastics Co Oconomowoc Wisc
Filon Plastics Corp 333 N Van Ness Ave
Hawthorne Cal
Findley F G Co 3033 W Pemberton Ave
Milwaukee 45 Wisc
Finger Lakes Stone Co Inc Ellis Hollow
Rd Box 401 Ithaca NY
Firestone Synthetic Fibers Co 45 Rock-
efeller Plaza New York 20 NY
Firestone Tire & Rubber Co Porter Rd
Pottstown Pa
Firpine Products Co PO Box 476 Oswego
Ore
Fitzgerald M J Co 2615 W Vilet St Mil-
waukee Wisc
Fitzgibbons Boiler Co Inc 101 Park Ave
New York 17 NY

Flash Bridge Co 783 S Washington Ave
Holland Mich
Fleco Corp PO Box 2370 Jacksonville Fla
Fleet of America Inc 2015 Walden Ave
Buffalo 25 NY
Fleming & Sons Inc 1120 E Clarendon
Dallas 8 Tex
Fletcher-Terry Co 437 South St Bristol
Conn
Flexicore Co Inc 1932 E Monument Ave
Dayton 1 Ohio
Flexrock Co 3601 Filbert St Philadelphia
Pa
Flintkote Co Box 2218 Los Angeles Cal
Flint & Walling Mfg Co Inc 95 Oak St
Kendallville Ind
Flintkote Co 30 Rockefeller Plaza New
York 20 NY
Float-Away Door Co 1173 Zonolite Rd
N E Atlanta 6 Ga
Flush Wall Radio Co 1012 Cleveland St
Clearwater Fla
Flynn Michael Mfg Co 18111 Railroad St
City of Industry Cal
Foley Mfg Co 3300 Fifth St NE Minne-
apolis 18
Follansbee Steel Corp Follansbee W Va
Fond du Lac Stone Co Inc Hwy 173 S
Box 148 Fond du Lac Wisc
Forbes Steel Corp Box 329 Cannonsburg
Pa
Force-Flo Inc PO Box 2442 Cleveland
Ohio
Ford Motor Co Dearborn Mich
Ford Motor Co Tractor & Implement Div
2500 E Maple Rd Birmingham Mich
Fordyce Lumber Co Fordyce Ark
Forest Fiber Products Co Box 68 A B
Forest Grove Ore
Forks Shingle Co Inc Forks Wash
Form Co 1919 13th St Rockford Ill
Forman-Ford & Co 111 S Second St
Minneapolis Minn
Formetal Inc 109 W Water St Oak Har-
bor Ohio
Formica Corp 4611 Spring Grove Ave
Cincinnati Ohio
Forsberg Mfg Co 125 Seaview Ave
Bridgeport 1 Conn
Fortex Industries Inc 101 Park Ave New
York 17 NY
Forty-Eight Insulations Inc Thomas &
McGee Sts Aurora Ill
Fourco Glass Co Union Natl Bank Bldg
Clarksburg W Va
Francis H A & Co Inc 838 39th St
Brooklyn 32 NY
Frantz Mfg Co 301 W Third St Sterling Ill
Freeman Doorjack Co 709 W Central
Ave Bentonville Ark
Frick-Gallagher Mfg Co Inc S Michigan
Ave Wellston Ohio
Frigidaire Div General Motors Corp 300
Taylor St Dayton 1 Ohio
Frost Forest Products Div Olla Math-
ieson Chemical Corp PO Box 1125
Shreveport La
Fry Lloyd Roofing Co 5818 Archer Rd
Summit Ill
Fuller H B Co 1150 Eustis St St Paul 8
Minn
Fuller W P & Co 301 Mission St San
Francisco Cal
Fulton Cotton Mills 170 Boulevard S E
Atlanta Ga

G

Gaffers & Sattler Div of Utility Appli-
cance Corp 8111 W Beverly Blvd Los
Angeles 48 Cal
Galbra Allsteel Body Co 605 S Market St
Gallion Ohio
Galloway Lumber Co Clarksville Ark
Gang Nail Sales Co Inc 7525 N W 37 Ave
PO Box 47-636 Miami 47 Fla
Gar Wood Industries Inc Wayne Mich
Gar-Bro Mfg Co 2415 E Washington Blvd
Los Angeles 21 Cal
Gardner-Denver Co Front St Quincy Ill
Garlinghouse L F Co Inc Garlinghouse
Bldg Topeka Kan
Gates Mfg Co Inc 415 W 11 St Indian-
apolis Ind
Gates & Sons Inc 80 S Galapago St Den-
ver 23 Colo
Geo Vee Line Oaks Pa
Gelvatex Paint Div Synko Sales Corp
901 E Vermont Ave Anaheim Cal
General Automatic Products Corp 2390
Sinclair Lane Baltimore 13 Md

General Bathroom Products Corp 1056 N Wood St Chicago 22 Ill
General Bronze Corp Stewart Ave Garden City LI NY
General Cable Corp 730 Third Ave New York 17 NY
General Chrome Inc Bridgman Mich
General Clay Products Co 1445 W Goodale Blvd Columbus 12 Ohio
General Concrete Products Inc 15025 Oxnard Van Nuys Cal
General Doors Corp Radcliffe & Monroe Bristol Pa
General Electric Co Air Conditioning Dept Troup Highway Tyler Tex
General Electric Co Apparatus Sales 1 River Rd Schenectady 5 NY
General Electric Co Circuit Prot Devices 41 Woodford Ave Plainville Conn
General Electric Co Construction Materials Sales Operation 1285 Boston Ave Bridgeport Conn
General Electric Co Laminated Products Dept Coshocton Ohio
General Electric Co Major Appliance Div Appliance Park Louisville 1 Ky
General Electric Co Wiring Device Dept 95 Hathaway St Providence 7 RI
General Engines Co Inc Route 130 Thorofare NJ
General Gas Light Co Box 2008 Kalamazoo Mich
General Hardware Mfg Co Inc 80 White St New York 13 NY
General Metalcraft Inc Olympia Div PO Box 57 Olympia Wash
General Plastics Corp 1400 N Washington Marion Ind
General Plywood Corp 3131 W Market Louisville 12 Ky
General Portland Cement Co 111 W Monroe St Chicago 3 Ill
General Products Co Box 661 Fredericksburg Va
General Tire & Rubber Co Jeanette Pa
General Tire & Rubber Co Building Materials Div 1708 Englewood Ave Akron Ohio
Geneva Modern Kitchens 201 S Eighth St Geneva Ill
Genaco Tools 1830 N Kostner Ave Chicago 39 Ill
Geo-Optic Co 149 Church St New York NY
Georgia Marble Co Tate Ga
Georgia Pacific Corp Equitable Bldg Portland 1 Ore
Gering Plastics Div of Studebaker-Packard Corp N Seventh & Monroe Sts Kenilworth NJ
Gerber Plumbing Fixtures Corp 232 N Clark St Chicago 1 Ill
Gerrard A J & Co 1950 Hawthorne Sq Melrose Park Ill
Gerrarda A J & Co 400 E Touhy Blvd Des Plaines Ill
Gerwin Industries Inc 214 Spring Michigan City Ind
Getman Brothers Box 71 South Haven Mich
Getty H S & Co Inc 3348 N 10 St Philadelphia 40 Pa
Gibson Refrigerator Sales Corp Sub of Hupp Corp 515-615 W Williams Greenville Mich
Gilbert & Barker Mfg Co Cold Springs Ave W Springfield Mass
Gilbert & Bennett Mfg Co 609 Miller Ave Georgetown Conn
Giles & Kendall PO Box 289 Huntsville Ala
Gilman Bros Co 100 Main St Gilman Conn
Gilson Brothers Co Box 245 Fredonia Wis
Giustina Brothers Lumber Co Box 989 Eugene Ore
Gladding McBean & Co 2901 Los Feliz Blvd Los Angeles Cal
Glasolter Co 307 Sixth St Braddock Pa
Glass Shower Door Co Inc 105 W Wacker Chicago Ill
Glenn Metal Products Corp 8915 West Chester Pike Kirklyn Upper Darby Pa
Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio
Glide Windows Inc 7463 Varna Ave N Hollywood Cal
Globe Paint Works Inc PO Box 28 Williamsport 5 Pa
Globe Roofing Products Co Inc 2207 Schrage Whiting Ind

Goder Joseph Incinerators 4241 N Honore St Chicago 13 Ill
Goldblatt Tool Co 1942 Walnut St Kansas City Mo
Goldsmith Metal Lath Co 4501 Chickering Cincinnati Ohio
Goodall Rubber Co Inc 427 Whitehead Rd Trenton NJ
Goodman Lumber Div Calumet & Hecla Inc Goodman Wis
Goodrich B F Co Flooring Products 36 Nichols Ave Watertown 72 Mass
Goodrich B F Industrial Products Co Marietta Ohio
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio
Gordon Mfg Co Farmington Conn
Gorman-Rupp Co 305 Bowman St Mansfield Ohio
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Goshen Sash & Door Co East Purl Goshen Ind
Goss J C Co 2941 E Jefferson Detroit 7 Mich
Goulds Pumps Inc 240 Fall St Seneca Falls NY
Graham Door Co 6901 Carnegie Ave Cleveland 3 Ohio
Graham John H & Co Inc 105 Duane St New York 7 NY
Granco Steel Prods Co 6506 Broadway St Louis Mo
Grand Rapids Gypsum Co PO Box 74 Grand Rapids Mich
Grand Rapids Hardware Co 560 Eleventh St NW Grand Rapids 2 Mich
Grand Specialties Co 3101 W Grand Ave Chicago 22 Ill
Granite City Steel Co 20th & State Sts Granite City Ill
Grant Pulley & Hardware Corp High St West Nyack NY
Gray & Dudley Co 2300 Clifton Rd Nashville Tenn
Graybeal C R & Sons PO Box 8 Roan Mountain Tenn
Graystone Div of Boise Cascade Corp 134 Nickerson St Seattle 9 Wash
Great Lakes Carbon Corp Perlite Dept 612 S Flower Los Angeles 17 Cal
Great Northern Mfg Corp 1056 N Wood St Chicago 22 Ill
Green A P Fire Brick Co 1108 E Breckenridge Mexico Mo
Greenlee Tool Co 2136 Twelfth St Rockford Ill
Gregg & Son Inc 25 Crown St Nashua NH
Griffin Mfg Co 1515 Cherry St Erie Pa
Griffin Wellpoint Corp 881 E 141 St New York NY
Griffith Lumber Co 1038 Sixth Ave Box 267 Huntington W Va
Grillcraft Co 477 E Seventh St St Paul 1 Minn
Grinding & Polishing Mach Corp 2530 Winthrop Ave Indianapolis 5 Ind
Grinnell Sash & Door Co Marion Ill
Grisson-Rakestraw Lumber Co Burnside Ky
Grote Mfg Co PO Box 766 Madison Ind
Gustin-Bacon Mfg Co 204 W 10 St Kansas City 5 Mo
Gyro Brass Mfg Corp 51 Urban Ave Westbury LI NY
Gypsum Ceiling Jack Co PO Box 201 Cedar Rapids Iowa

H

H-C Products Co Box 68 Princeville Ill
H & M Cabinet Service 802 E Fifth Auburn Ind
H-P Products Inc 510 W Broad St Louisville Ohio
Habitant Fence Inc Bay City 18 Mich
Hachmeister-Inc PO Box 357 Pittsburgh 30 Pa
Hager C & Sons Hinge Mfg Co 139 Victor St St Louis 4 Mo
Hall Level & Mfg Works 1119 E Fourth St Austin Tex
Hall-Mack Co 1390 W Washington Los Angeles 7 Cal
Halstead & Mitchell Bessemer Bldg Pittsburgh 22 Pa
Hamilton Mfg Co 1316 18th St Two Rivers Wis
Hamlin Preds Inc PO Box 3703 1000 North St Little Rock Ark

Handy Things Mfg Co N Rowe St Ludington Mich
Hanley Co 1 Gateway Center Pittsburgh 22 Pa
Hanover Wire Cloth Div of Continental Copper & Steel Industries Hanover Pa
Harbel Mutual Plywood Corp PO Box 365 Olympia Wash
Hardware Products Inc 806-812 126th St Reading Pa
Hardwick Stove Co 240 Edwards St Cleveland Tenn
Hardwood Corp of America PO Box 1091 Asheville NC
Hardwood Products Corp PO Box 191 Neenah Wis
Harloc Products Corp 680 Campbell Ave West Haven Conn
Harris L C Cedar Ltd Box 725 Abbottsford BC
Harris Hardwood Co Inc Box 2320 Roanoke Va
Harris Mfg 434 E Walnut St Johnson City Tenn
Harrisville Brick Co PO Box 447 Ogden Utah
Hart & Cooley Mfg Co 500 E Eighth St Holland Mich
Hartford Clamp Co 466 Park Ave E Hartford 8 Conn
Hartglass Co 1302 Expressway Drive Toledo 8 Ohio
Hartmeister Mfg Inc 950 Eleventh St Denver 4 Colo
Harvill Corp 6251 West Century Blvd Los Angeles 45 Cal
Harvey Aluminum 19200 S Western Torrance Cal
Haskelite Mfg Div Evans Products Co 701 Ann Street N W Grand Rapids Mich
Hassall John Inc PO Box 2157 Westbury NY
Hassell & Parkes Inc Trout La
Hastings Aluminum Products Inc 429 S Michigan Hastings Mich
Hasty-Bake Mfg Co Inc 6116 South Louis Tulsa Okla
Hattiesburg Brick Works Hattiesburg Miss
Hauserman E F Co 6800 Grant Ave Cleveland 5 Ohio
Haven-Busch Co 3443 Chicago Dr SW Grandville Mich
Hawkeye Sales Co 109 Fifth St SW Cedar Rapids Iowa
Haws Drinking Faucet Co Fourth & Page Sts Berkeley 10 Cal
Hearthaire Conditioning Co 3126 Scarborough Cleveland Ohio
Heatmore Inc 651-5 Driggs Ave Brooklyn 11 NY
Hedges M M Mfg Co Inc 700 E Main St Chattanooga Tenn
Hell-Quaker Corp 647 Thompson Lane Nashville 4 Tenn
Hellig Bros Co N Ogontz St & PRR York Pa
Heinemann Saw Corp 2017 Navarre Rd SW Canton 6 Ohio
Heinley Mastercraft Products 2211 Michigan Ave Santa Monica Cal
Heller Tool Co Heller Dr Newcomers-town Ohio
Heller W C & Co 1050 Bryant St Montpelier Ohio
Hendrick Mfg Co Dundaff St Carbondale Pa
Henry Furnace Co Medina Ohio
Henry Mfg Co Inc 1700 N Clay St PO Box 521 Topeka Kan
Henry W W Co 5731 Bickett St Huntington Park Cal
Hercules Fastener Co 2720 N Clybourn Ave Chicago 14 Ill
Hercules-Gallon Products Inc 625 S Market St Gallion Ohio
Hess Co 1855 S 54 Ave Chicago 50 Ill
Hess Mfg Co Quincy Pa
Hettrick W E & Son Co 3333 Maple Station D Toledo 8 Ohio
Hewitt-Robins Inc 666 Glenbrook Rr Stamford Conn
Hico Corp of America 120 Broadway New York 5 NY
Higbie Mfg Co Avon Tube Div Third & Water Sts Rochester Mich
Higgins Industries Inc PO Box 8169 New Orleans La
Hild Floor Machine Co Inc 1217 W Washington Chicago 7 Ill
Hillwood Mfg Co 21700 St Clair Ave Cleveland 17 Ohio

Hillyer-Deutsch-Edwards Inc Oakdale La
 Hilti Rapid Fastening Systems Inc 73 Southfield Ave Stamford Conn
 Hines Edward Lumber Co 200 S Michigan Ave Chicago 4 Ill
 Hinge Butt Template 253 W Harriet St Altadena Cal
 Hoffman Specialty Mfg Corp 1700 W 10 St Indianapolis 7 Ind
 Hoitama Adjustable Scaffold Bracket Co 261-265 E 23 St Paterson 4 NJ
 Holcomb & Hoke Mfg Co Inc 1545 Van Buren Indianapolis 7 Ind
 Hollaender Mfg Co 3841 Spring Grove Cincinnati 23 Ohio
 Holland Furnace Co Holland Mich
 Holland Ladder & Mfg Co 13053 W 17 St Holland Mich
 Holly-General Co Div Siegler Corp 875 S Arroyo Pkwy Pasadena Cal
 Hollyview Aluminum Rolling Glass Doors, Windows 13060 Saticoy N Hollywood Cal
 Holms Mfg Co of Ohio 1340 Lake Shore Blvd Akron 1 Ohio
 Holophane Co Inc 342 Madison Ave New York 17 NY
 Holt Mfg Co 669 20th St Oakland 12 Cal
 Holub Industries Inc 473 Elm St Sycamore Ill
 Homasote Co Ferwood Rd Trenton NJ
 Home Building Plan Service 2454 NE Sandy Blvd Portland 12 Ore
 Home Music Systems Inc 644 Madison St Memphis Tenn
 Home Plan Book Co 1596 Selby Ave St Paul 4 Minn
 Home Planners Inc 16310 Grand River Detroit 27 Mich
 Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY
 Hood Bros 4336 Orchard St Philadelphia 24 Pa
 Hood Ceramic Corp Daisy Tenn
 Hoosier Tarpaulin & Canvas Goods Co PO Box 574 Indianapolis Ind
 Hoover Bathroom Accessories Fowlerville, Mich
 Hope Brick Works PO Box 155 Hope Ark
 Hopes Windows Inc 84 Hopkins Ave Jamestown NY
 Hopkins Mfg Corp Emporia Kan
 Horizon Door Co 640 Paula St Glendale 1 Cal
 Horn A C Companies Div Sun Chemical Corp 2133 85th St North Bergen NJ
 Horner Flooring Co Dollar Bay Mich
 Hosking John H Co 1704 Howland Ave Cincinnati Ohio
 Hotpoint Div 5600 W Taylor St Chicago 44 Ill
 Hotstream Heater Co 2363 E 69 St Cleveland 4 Ohio
 Hough Frank Co 811 Sunnyside Ave Libertyville Ill
 Hough Mfg Corp 1029 S Jackson St Janesville Wis
 Howard Mfg Co Kent Wash
 Howell Mfg Co Morehall Rd Paoli Pa
 Hubbell Harvey Inc State & Bostwick Bridgeport 5 Conn
 Hudson H D Mfg Co 589 E Illinois St Chicago 11 Ill
 Humboldt Brick & Tile Co 910 New York St Humboldt Kan
 Humphrey Products Inc 719 E Zimmerly PO Box 2868 Wichita 11 Kan
 Humptulips Shingle Co Rt 3 Box 1186 Hoquiam Wash
 Huncilman & Son New Albany Ind
 Hunter Div-Robbins & Myers Inc 2500 Frisco Ave Memphis Tenn
 Huntington Shingle Co Springfield Ore
 Hurn Shingle Co Rt 1 Concrete Wash
 Hussey C G & Co 2860 Second Ave Pittsburgh 19 Pa
 Hutchinson R H & Co 2610 Sylvan Ave Dallas 12 Tex
 Huther Brothers Saw Mfg Co Inc 1290 University Rochester 7 NY
 Hyde-Murphy Co Murphy Bldg Ridgway Pa
 Hyde Park Products Co Burch Ave & NWRR Cincinnati 8 Ohio
 Hydrolevel 53 DeSoto Ave Ocean Springs Miss
 Hydrotherm Inc Clinton Ave Northvale NJ
 Hypro Engineering Inc 700 39th Ave NE Minneapolis 21 Minn
 Hyster Co 2902-18 NE Clackamas St Portland 8 Ore

I-XL Furniture Co 410 N Main St Goshen Ind
 Ida Products Co 3001 Miller Ave Detroit 11 Mich
 Ideal Brass Works Inc 215 E Ninth St St Paul 1 Minn
 Ideal Cement Co 500 Denver Natl Bldg Denver 2 Colo
 Ideal Hanger Co 1292 E 53 St Cleveland 14 Ohio
 Ideal Co Mfg Div Wm Cameron & Co 24th & Mary Sts Waco Tex
 Ideal System Co 2437 W Pico Blvd Los Angeles 6 Cal
 ILG Electric Ventilating Co 2850 N Pulaski Rd Chicago 41 Ill
 Illinois Brick Co 228 N LaSalle St Chicago Ill
 Imperial Color Chemical & Paper Corp PO Box 231 Glens Falls NY
 Incinerator Products Co 655 Post Ave S Detroit 17 Mich
 Inclinator Products Co 633 Post Ave S Detroit Mich
 Inclinator Co of America 2200 Paxton Blvd Harrisburg Pa
 Independence Oak Flooring Co Independence La
 Independent Lock Co 1959 Cleghorn Fitchburg Mass
 Independent Lumber Co 19620 Nottingham Cleveland Ohio
 Independent Nail & Packing Co Bridgewater Mass
 Independent Protection Co Inc 1603-09 S Main St Goshen Ind
 Indiana Cash Drawer Co Shelbyville Ind
 Indiana Limestone Co Inc 405 N 1 St Bedford Ind
 Industrial Canvas Prods Corp 15-25 Flax St Delaware Ohio
 Industrial Iron Works PO Box 4691 Portland 2 Ore
 Infra Insulation Inc West Nyack NY
 Ingersoll Prod Div Borg-Warner 1000 W 120 St Chicago Ill
 Ingersoll-Rand Co 11 Broadway New York 4 NY
 Ingram-Richardson Mfg Co 32 St Beaver Falls Pa
 Inland Steel Co 30 W Monroe St Chicago 3 Ill
 Inland Steel Products Co 4025 West Burnham Milwaukee 1 Wis
 In-Sink-Erator Mfg Co 1225 14th St Racine Wis
 Insta-matic Heater Co 89 Charles St Providence RI
 Insto-Gas Corp 998 E Woodbridge Detroit Mich
 Insulite Div Minnesota & Ontario Paper Co 500 Investors Bldg Minneapolis Minn
 Insul-Wool Insulation Corp 121 N Dodge Wichita 12 Kan
 International Business Machines Corp 590 Madison Ave New York 22 NY
 International Fireproof Door Co 76 Lexington Ave Brooklyn 38 NY
 International Harvester Co 180 N Michigan Chicago Ill
 International Oil Burner Co 3800 Park Ave St Louis 10 Mo
 International Paper Co Long-Bell Div 928 Grand Ave Kansas City 6 Mo
 International Register Co 2620 W Washington Chicago Ill
 International Steel Co 1321 Edgar St Evansville 7 Ind
 Interstate Brick Co 3100 S 11 E Salt Lake City Utah
 Ipik Door Co Inc Kenner La
 Irmanton Products Co 70-70 80th St Glendale 27 NY
 Ironrite Inc 332 Cass Ave Mt Clemens Mich
 Irvington Form & Tank Co 100 William St New York 38 NY
 Irwin Auger Bit Co Wilmington Ohio
 Ives H B Co 5 Artizan St New Haven 8 Conn

J
 J & B Plastics Co Inc 410 N Depot St Fairfield Iowa
 J M J Industries Inc PO Box 283 Belleville Ill
 Jackson Mfg Co 2303 W Fairview Ave Montgomery Ala

Jackson Mfg Co Lochiel Rd Harrisburg Pa
 Jackson Shake Co Moelips Wash
 Jackson Vibrators Inc Jackson St Ludington Mich
 Jacuzzi Bros Inc 5327 Jacuzzi Ave Richmond Cal
 Jaeger Machine Co 550 W Spring St Columbus Ohio
 Jamesville Cotton Mills 100 E 69 St Cincinnati 16 Ohio
 Janitrol Heating & Air Conditioning Div Surface Combustion Corp 400 Dublin Ave Columbus 16 Ohio
 Jasco Aluminum Products 31 Nassau Terminal Rd New Hyde Park NY
 Jasper Wood Products Co Inc 13th & Leopold Sts Jasper Ind
 Jay Co Div Leukart Mach Co Inc 2222 S Third St Columbus 7 Ohio
 Jay Lighting Mfg Co Inc 25 Quincy St Brooklyn 38 NY
 Jeff Jones Co PO Box 9242 Montclair Station Denver 20 Colo
 Jeffery Form Tie Co Marengo Ill
 Jenkins Brick Co PO Box 91 Montgomery Ala
 Jenkins Lumber & Mfg Co 4120 S First Ave Birmingham Ala
 Jensen Industries 165 S Mission Rd Los Angeles 33 Cal
 Jerrold Electronics Corp 15th & Lehigh Sts Philadelphia Pa
 Jet Tool Inc Box 547 Lemon Grove Cal
 Jewel Paint & Varnish Co 345 N Western Ave Chicago 12 Ill
 John Deere Industrial Div 3300 River Drive Moline Ill
 Johns-Manville Corp 22 E 40 St New York 16 NY
 Johnson C S Co PO Box 71 Champaign Ill
 Johnson & Johnson Shake Co Box 989 Castle Rock Wash
 Johnson Plastics Corp Box 100 Chagrin Falls Ohio
 Johnson's Wax 1525 Howe St Racine Wis
 Johnson S T Co 940 Arlington Ave Oakland 8 Cal
 Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh Pa
 Jones Shutter Products 246 NW 29 St Miami Fla
 Jones Superior Machine Co 2820 W Grand Ave Chicago 12 Ill
 Jones Veneer & Plywood Co PO Box 252 Eugene Ore
 Jordan Industries 3030 NW 75 St Miami Fla
 Josam Mfg Co Michigan City Ind
 Junior-Pro Products Co 118 E Marceau St St Louis 11 Mo

K

Kaar Engineering Corp 2995 Middlefield Rd Palo Alto Cal
 Kaiser Aluminum & Chemical Corp 300 Lakeside Drive Oakland Cal
 Kaiser Aluminum & Chemical Sales Inc Building Products Div 300 Lakeside Drive Oakland Cal
 Kaiser Gypsum Co Inc 300 Lakeside Drive Oakland 12 Cal
 Kaiser Steel Corp 300 Lakeside Drive Oakland 12 Cal
 Kane Mfg Corp PO Box 641 Kane Pa
 Kant-Slam Door Check Co Box 228 Bloomfield Ind
 Karelius Albert & Sons Inc 919 S Fremont Ave Alhambra Cal
 Katolight Corp Box 891 Mankato Minn
 Kaul Clay Co Spring St PO Box 628 Toronto Ohio
 Kaustine Furnace & Tank Co 1492 Washington Ave Perry NY
 Kawneer Co 1105 N Front St Niles Mich
 Kay-Tite Co 10 White St West Orange NJ
 Keasbey & Mattison Co 1944 Mitchell St Ambler Pa
 Kedman Co 233 S 5 West St Salt Lake City Utah
 Kees F D Mfg Co 700 Park Ave Beatrice Neb
 Kelley Machine Div Wiesner-Rapp Co Inc 285 Hinman Ave Buffalo 23 NY
 Kelvinator Div American Motors Co 14250 Plymouth Rd Detroit 32 Mich
 Kenco Manufacturing Co 5211 Telegraph Rd Los Angeles 22 Cal
 Kenco Pump Division 1305 Oberlin Ave Lorain Ohio

Kendrick Brick & Tile Co 3235 S Boulevard Charlotte NC
 Kennatrack Corp Sub Ekco Prods PO Box 677 Elkhart Ind
 Kennebec Inc Owens St Bingham Me
 Kent Air Tool Co 711 Lake St Kent Ohio
 Kentile Inc 58 Second Ave Brooklyn 15 NY
 Kentucky Flooring Co of Va Inc PO Box 791 Orange Va
 Kerner Incinerator Div of Morse Boulder Inc 80 Fifth Ave New York 11 NY
 Kesko Prods Inc PO Box 277 Bristol Ind
 Kessler Products Co 4521 Lake Park Rd Youngstown Ohio
 Ketcham G M Mfg Corp 70-70 80th St Glendale 27 NY
 Kett Tool Co 5055 Madison Rd Cincinnati 27 Ohio
 Keuffel & Esser Co 300 Adams St Hoboken NJ
 Kewanee Mfg Co 1642 Burlington Ave Kewanee Ill
 Keystone Alloys Co Mellon Natl Bank Bldg Latrobe Pa
 Keystone Frame & Mfg Co PO Box 35 Spokane Wash
 Keystone Mfg Co 23328 Sherwood Ave Warren Mich
 Keystone-Seneca Wire Cloth Co Factory St Hanover Pa
 Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill
 Kiefer International Products Co Div 240 Front Ave SW Grand Rapids Mich
 Kimball Mfg Co 1014 Davis St Evanston Ill
 Kimble Glass Co Sub Owens-Illinois PO Box 1035 Toledo 1 Ohio
 King Mfg Co 3146 W Chicago Ave Chicago Ill
 King Refrigerator Corp 76-02 Woodhaven Blvd Glendale 27 NY
 Kingsford Ornamental Bldg Prods PO Box 9536 Pittsburgh 23 Pa
 Kingston Mills Inc Cartersville Ga
 Kinkead Industries Inc 5860 N Pulaski Rd Chicago 30 Ill
 Kinnear Mfg Co Box 596 Columbus Ohio
 Kirlin Co 3435 E Jefferson Detroit 7 Mich
 KitchenAid Home Dishwasher Div Hobart Mfg Co 711 Pennsylvania Troy Ohio
 Kitchen Compact Inc 911 E 11th St Jeffersonville Ind
 Kitchen Maid Corp 541 Snowden Andrews Ind
 Kitcheneering Co of America 6618 E 37 St Kansas City 29 Mo
 Klauer Mfg Co Ninth & Wash Sts Dubuque Ia
 Klise Mfg Co 52 Cottage Grove SW Grand Rapids 2 Mich
 Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
 Knoll-Drake Products Inc Box 996 Austin Tex
 Kochton Plywood & Veneer Co Inc 509 W Roosevelt Chicago 7 Ill
 Koehring Co 3026 W Concordia Milwaukee Wisc
 Kohler Co 44 High St Kohler Wisc
 Kol-Master Corp 124 Walberg St Oregon Pa
 Koolvent Metal Awning Corp of America 902 Arrott Bldg Pittsburgh 22 Pa
 Koppers Co Inc Koppers Bldg Pittsburgh Pa
 Koppers Co Inc Durethene Plant 7001 W 60 St Chicago 38 Ill
 Kor-It Co Inc 991 Richard Ave Santa Clara Cal
 Kordite Co Macedon NY
 Korfund Co Inc Cantlague Rd Westbury NY
 Kosmos Portland Cement Co 1529 Starks Bldg Louisville 2 Ky
 Koven L O & Bro Inc Richboynton Rd Dover NJ
 Kresky Mfg Co Inc Second & H Sts Petaluma Cal
 Kresno-Stamm Corp 400 Commercial Ave Fallsades Pk NJ
 Kreuger Mfg Co 1445 E Main St Owosso Mich
 Krieg Victor J Inc 611 Broadway New York 12 NY
 Kritzer Radiant Coils Inc 325 N River St Batavia Ill
 Kwikset Div American Hardware Corp 516 E Santa Ana St Anaheim Cal
 Kyanize Paints Inc Second & Boston Sts Everett 49 Mass

L

LCN Closers Inc 111 W Railroad Ave Princeton Ill
 Laboratory Equip Corp Hilltop Rd St Joseph Mich
 Labrie Mfg Co Inc 3525 NW 50th Miami Fla
 Laclede Steel Co Arcade Bldg St Louis Mo
 Lake Drive Products Co Inc PO Box 166 Edgerton Wisc
 Lake Lytle Shingle Co Box 371 Manhattan Beach RS Rockaway Ore
 Lake Shore Inc Lake Shore Engineering Div E Magnetic St Iron Mountain Mich
 Lamin Art Fabricon Products 6430 E Slauson Ave Los Angeles 22 Cal
 Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
 Lancaster Pump & Mfg Co Inc 1340 Manheim Pike PO Box 778 Lancaster Pa
 Landers Segal Color Co 78 Delavan St Brooklyn 31 NY
 Landon Inc 7240 Fulton Ave N Hollywood Cal
 Lanebro Mfg Co 110 Main St W Poughkeepsie NY
 Larsen Products Corp Box 5938 F Bethesda Md
 Larson Chas O Co PO Box 358 Sterling Ill
 Larson Ladder Co 651 Martin Ave Santa Clara Cal
 Lasco Industries Inc 1561 Chapin Rd Montebello Cal
 Lastik Paint Inc 200 S Craig St Pittsburgh 13 Pa
 Lato Prods Co 909 New Boston Rd Texarkana Tex
 Lau Blower Co 2001 Home Ave Dayton 7 Ohio
 Lawler Automatic Controls Inc 453 N Macquesten Mt Vernon NY
 Lawrence Brothers Inc Sterling Ill
 Lawrence W W & Co 1124-32 W Carson Pittsburgh 19 Pa
 Lawson F H Co 801 Evans St Cincinnati 4 Ohio
 Lawyers Title Insurance Corp 3800 Cuthshaw Ave Richmond Va
 Le Roi Div Westinghouse Air Brake Co Sidney Ohio
 Leathers A H Mfg Co Box 29 Dickson Tenn
 Lee Millwork Corp 4-21 Banta Place Fairlawn NJ
 Leeds Edward & Co Lakeview LI NY
 Legion Stainless Sink Corp 40 Ave & 21 St Long Island City NY
 Lehigh Portland Cement Co 718 Hamilton St Allentown Pa
 Lehman Co 1703 S Ironwood South Bend Ind
 Lehman Specialty Co 3355 York Rd Philadelphia 40 Pa
 Lehon Co 25th & Warren Bellwood Ill
 Leigh Building Products Div of Air Control Products Inc 1659 Bee St Dept 4 Coopersville Mich
 Lenawee Peerless Inc 1412 E Michigan St Adrian Mich
 Lennox Industries Inc 200 S Twelfth Ave Marshalltown Iowa
 Leslie Welding Co Inc 11241 W Melrose St Franklin Park Ill
 LeTourneau-Westinghouse Co 2301 N Adams St Peoria Ill
 Levelall 83 Webster St Rockland Mass
 Leviton Mfg Co Inc 236 Greenpoint Ave Brooklyn 22 NY
 Lewis-Shepard Products Inc 1556 Walnut St Watertown 72 Mass
 Libbey-Owens-Ford Glass Co 811 Madison Ave Toledo 1 Ohio
 Lifetime Industries Inc 629 Bergman Ave Louisville 3 Ky
 Lightoller Inc 346 Claremont Ave Jersey City NJ
 Lilly David Advertising Cartoons Box 167 Long Beach 1 Cal
 Lima Register Co 1790 N Cable Rd Lima Ohio
 Lindemann A J & Hoverson Co 5119 District Blvd Los Angeles 22 Cal
 Lindsay Co Div Union Tank Car Co 1381 Marshall Ave St Paul 4 Minn
 Line Material Industries McGraw-Edison Co 700 W Michigan St Milwaukee Wisc

Link-Belt Speeder Corp 1204 Sixth St SW Cedar Rapids Iowa
 Lippmann Engineering Works Inc 4603 W Mitchell St Milwaukee 14 Wisc
 Littercraft Mfg Pacific Corp 545 Rodier Dr Glendale 1 Cal
 Lithbar Co 345 W 14 St Holland Mich
 Little H C Burner Co PO Box 60 San Rafael Cal
 Lock-Joint Window Co 817 NW 61st Oklahoma City 18 Okla
 Locke Mfg Co Ohio St Lodi Ohio
 Locke Steve Co 114 W 11 St Kansas City 5 Mo
 Lockhart Mfg Corp 32840 W 8 Mile Rd Farmington Mich
 Lockport Mills Inc Lockport NY
 Lockwood Hardware Mfg Co 1960 Cleg-horn St Fitchburg Mass
 Logan Clay Prods Co Box 698 Logan Ohio
 Logan Co 201 Cabel St Louisville 6 Ky
 Logan-Long Co 6600 S Central Ave Chicago 38 Ill
 Lone Star Cement Corp 100 Park Ave New York 17 NY
 Longview Lime Corp Sub of Woodward Iron Co Woodward Ala
 Longview Shake Co 2236 Cascade Way Longview Wash
 Look Products Inc Box 1145 1090 East 16th St Haleah Pa
 Lookout Boiler & Mfg Co Mfrs Rd & Compress St Chattanooga Tenn
 Lord & Burnham Div Burnham Corp Main St Irvington NY
 Louden Machinery Co 2504 West Court Fairfield Iowa
 Louisville Cement Co 501 S Second St Louisville Ky
 Louisville Ladder Co 1101 W Oak St Louisville Ky
 Louver Mfg & Supply 3601 Woodale Ave Minneapolis Minn
 Louv-R-Pak Inc 3629 E First St Ft Worth Tex
 Lowe Bros 424 E Third St Dayton 2 Ohio
 Loxgreen Co Inc PO Box 5133 Columbia SC
 Lucas John & Co Inc 1617 Penna Blvd Philadelphia 3 Pa
 Lucke William B Inc 514 Poplar Drive Wilmette Ill
 Ludlow Papers Div of Ludlow Corp 145 Rosemary St Needham Heights 94 Mass
 Ludovici-Celadon Co 75 E Wacker Dr Chicago 1 Ill
 Ludwig Mfg Co Inc 1405-16th St Racine Wisc
 Lufkin Rule Co 1730 Hess Ave Saginaw Mich
 Lumino Co 515 Madison Ave New York 22 NY
 Luminous Ceilings Inc 3701 N Ravenswood Ave Chicago 13 Ill
 Lastrick Inc 3225 Frankford Ave Philadelphia Pa
 Lustrro Tile Mfg Co 1066 Home Ave Akron 10 Ohio
 Luxor Carpet Co 1507 Copley Rd Akron 20 Ohio
 Lyf-Alum Inc 930 Armour Rd Oconomowoc Wisc
 Lyon Inc 13881 W Chicago Blvd Detroit 28 Mich
 Lyon Conklin & Co Inc Race & McComas St Baltimore 30 Md
 Lyon Metal Products Inc 25 Montgomery St Aurora Ill

M

Mackie Mill Co Star Rt Box 36 Aberdeen Wash
 Macklanburg-Duncan Co PO Box 1197 Oklahoma City Okla
 Maeo Corp 1345 Henry St Huntington Ind
 Macomber Inc 1925 Tenth Canton Ohio
 Madison Glue Corp 200 W 34 St New York 1 NY
 Magic Chef Cleveland Tenn
 Maginnis Power Tool Co 154 Distl Ave Mansfield Ohio
 Maguire Walter Co Inc 60 E 42 St New York NY
 Mahon R C Co 6565 E Eight Mile Rd Detroit Mich
 Majestic Co Inc 433 Erie St Huntington Ind
 Major Industries Inc 505 N LaSalle St Chicago 10 Ill

Major Line Products Co Inc 120 Sixth Ave N Seattle Wash
 Malibu Mfg Corp 1557 N Tyler Ave Elmonte Cal
 Malta Mfg Co Malta Ohio
 Malvern Flue Lining Inc Malvern Ohio
 Manhattan Terrazzo Brass Strip PO Box 187 Norwalk Conn
 Manitowoc Equip Works Manitowoc Wisc
 Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div W Broadway Muskegon Mich
 Mansfield Sanitary Inc Perrysville Ohio
 Marchant Div of Smith-Corona Marchant Inc 6701 San Pablo Ave Oakland 8 Cal
 Marietta Paint & Color Co Green & Acme Sta Marietta Ohio
 Markel Electric Prods Inc 151 Seneca St Buffalo NY
 Markwell Mfg Co Inc 424 W 33rd St New York 1 NY
 Marlina Pool Equip Co 14600 Arminta Van Nuys Cal
 Marlow Pumps Div Bell & Gossett Co PO Box 200 Midland Park NJ
 Marmet Corp PO Box 208 Wausau Wisc
 Marmont-Herrington Co Inc 1511 W Washington Indianapolis 7 Ind
 Marona Mill Co Darrington Wash
 Marquette Cement Mfg Co 20 N Wacker Dr Chicago 6 Ill
 Marsh Furniture Co High Point NC
 Marsh Lumber Co S Tuscarawas Ave Dover Ohio
 Marsh Products Corp 4931 Bethesda Ave Bethesda Md
 Marsh Wall Products Inc 403 Main St Dover Ohio
 Martin Bros Coat & Timber Prods Corp PO Box 696 Oakland Ore
 Martin-Senour Co 2500 S Senour Ave Chicago Ill
 Marvan Corp PO Box 219 W Hartford Conn
 Marvel Equipment Corp 1803 Bowen St Oakkosh Wisc
 Marvel Metal Prods Co 3843 W 43 St Chicago 32 Ill
 Marvin Electric Mfg Co 648 S Santa Fe Ave Los Angeles 21 Cal
 Masland C H & Sons Carlisle Pa
 Masland Duralcather Co Amber & Willard St Philadelphia Pa
 Mason City Brick & Tile 200 Brick & Tile Bldg Mason City Iowa
 Masonite Corp 111 W Washington Chicago 2 Ill
 Massey-Ferguson Inc Industrial Div 12601 Southfield Rd Detroit Mich
 Master Builders Co 2490 Lee Blvd Cleveland 18 Ohio
 Master Hung Door Equip Co Franklin Apts Bldg Pottstown Pa
 Master Mechanic Mfg Co PO Box 389 Burlington Wisc
 Master Metal Strip Service Inc 3946 W Industrial Ave Rolling Meadows Ill
 Master Vibrator Co 1752 Stanley Ave Dayton Ohio
 Master Woodworker Mfg Co Inc 401-411 E Fort St Detroit 26 Mich
 Mastic Corp PO Box 65 131 S Taylor St South Bend 24 Ind
 Mastic Tile Div Ruberoid Co PO Box 128 Vails Gate NY
 Mastro Plastics Corp 3040 Webster Ave Bronx NY
 Mathews Conveyor Co 190 Tenth St Ellwood City Pa
 Mattison Machine Works 545 Blackhawk Park Rockford Ill
 Mauk Seattle Lumber Co PO Box 148 University Station Seattle 5 Wash
 Mayes Bros Tool Mfg Co 104 Ashe St Johnson City Tenn
 Mayhew Steel Products Inc Sears St Shelburne Falls Iowa
 Maytag Co Newton Iowa
 Maze W H Co 300 Church St Peru 3 Ill
 McCabe Powers Body Co 5900 N Broadway St Louis 15 Mo
 McCalls Magazine 230 Park Ave New York 17 NY
 McDonald A Y Mfg Co Twelfth & Pine Sts Dubuque Iowa
 McDonough Mfg Co 1530 Galloway Eau Claire Wisc
 McGuffee Co 4832 Ridge Rd Cleveland 9 Ohio
 McKee Door Co 85 Hanks Ave Aurora Ill
 McKinney Mfg Co 1715 Liverpool St Pittsburgh 33 Pa

McLean Engineering Labs 70 Washington Rd Box 228 Princeton NJ
 McMinnville Mfg Co S Chancery St McMinnville Tenn
 McPherson Inc 4603 W Osborne Ave Tampa 3 Fla
 McQuay Inc 1600 Broadway NE Minneapolis Minn
 Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill
 Meadow River Lumber Co Box 245 Rainelle W Va
 Meadows W B Inc 2 Kimball Elgin Ill
 Medalist Hardware Div National Lock Co 1902 Seventh St Rockford Ill
 Medford Veneer & Plywood Corp PO Box 507 Medford Ore
 Medusa Portland Cement Co PO Box 5668 Cleveland 1 Ohio
 Meier Electric & Machine Co Inc 3525 E Washington Indianapolis Ind
 Mellink Steel Safe Co 1672 Oakwood Toledo Ohio
 Memphis Hardwood Flooring Co 1591 Thomas St Memphis 7 Tenn
 Menasha Sales Corp North Bend Ore
 Mengel Co 4th & Broadway Louisville Ky
 Mercoid Corp 4201 W Belmont Ave Chicago 41 Ill
 Meridian Wood Prods Co Box 5 Meridian Miss
 Merrilat Woodworking Co 2075 W Beecher Rd Adrian Mich
 Merit Products Inc 3691 Lenawee Ave Los Angeles Cal
 Merwin Mfg Co 19th & German Erie Pa
 Mesker Bros Iron Co 6062 Lindbergh Hazelwood Mo
 Metal Crafters E Ave at 18th NE PO Box 630 Cedar Rapids Iowa
 Metal Trims Inc PO Box 632 Jackson 1 Miss
 Metalbestos Div Wm Wallace Co PO Box 137 Belmont Cal
 Met-Cro Specialties Co Inc PO Box 406 Portchester NY
 Metropolitan Brick Inc 1017 Renkert Bldg Canton 2 Ohio
 Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich
 Meyer Furnace Co 1390 S Washington Peoria Ill
 Meyers Fred L Mfg Co 1176 Hooven Ave Hamilton Ohio
 Miami Cabinet Div Philip Carey Mfg 1700 Grand Ave Middletown Ohio
 Miami General Air Conditioning Div Miami Okla
 Miami Window Corp PO Box 48-877 International Airport Branch Miami 48 Fla
 Michel & Pfeiffer Iron Works Inc 212 Shaw Rd S San Francisco Cal
 Michigan Ladder Co 12 E Forest Ave Ypsilanti Mich
 Midget Louver Co 6-8 Wall St Norwalk Conn
 Midland Brick & Tile Co Chillicothe Mo
 Midland Products Co Mahwah NJ
 Mid-States Steel & Wire Co Crawfordsville Ind
 Midwest Plywood Co 10123 Lyndon Ave Detroit 38 Mich
 Miller Bros Co PO Box 540 Johnson City Tenn
 Miller Co 99 Center St Meriden Conn
 Miller Frank B Mfg Co 3216 Valhalla Dr Burbank Cal
 Miller George E Lumber Co 1111 Equitable Bldg Portland 4 Ore
 Miller Howard Clock Co Zeeland Mich
 Miller Sliding Glass Door Co Inc 3216 Valhalla Dr Burbank Cal
 Millers Falls Co 57 Wells St Greenfield Mass
 Mills Co 960 Wayside Rd Cleveland 10 Ohio
 Milwaukee Elec Tool Corp 5356 W State St Milwaukee Wisc
 Milwaukee Faucets Inc 4250 N 124 St Milwaukee 22 Wisc
 Milwaukee Stamping Co Bathe-Rite Div 900 N Kilpatrick Ave Chicago 51 Ill
 Minneapolis Honeywell Regulator 2753 S Fourth Ave Minneapolis 8 Minn
 Minneapolis-Moline Co 130 Ninth Ave S Hopkins Minn
 Minnesota Mining & Mfg Co 900 Bush Ave St Paul Minn
 Minnesota Paints Inc 1101 Third St S Minneapolis Minn
 Miracle Adhesives Corp 250 Pettit Ave Bellmore LI NY

Miracle Hinge Co Monticello NY
 Miranco Inc Div of Miracle Adhesives Corp 250 Pettit Ave Bellmore NY
 Miraplas Tile Co 980 Parsons Ave Columbus 6 Ohio
 Mirra-Cote Co Inc 120 Standard St PO Box 158 El Segundo Cal
 Mirro Chrome Co Inc PO Box 315 Garnerville NY
 Misceramic Tile PO Box 1070 Cleveland Miss
 Missoula White Pine Sash Co Scott & Stoddard Missoula Mont
 Mitchell Rubber Prods Inc 2114 San Fernando Los Angeles 65 Cal
 Mixermobile Manufacturers 8027 NE Killingsworth Portland 2 Ore
 Mobile Paint Mfg Co PO Box 1686 Mobile Ala
 Modern Swimming Pool Co Inc 1 Holland Ave White Plains NY
 Modernwood Co PO Box 360 Clinton SC
 Modine Mfg Co 1501 Dekoven Ave Racine Wisc
 Moen Faucet Div Standard Screw Co 377 Woodland Ave Elyria Ohio
 Mohawk Flush Doors 212 W Ewing St South Bend Ind
 Molco Drilling Machines Inc 909 Franklin St NE Washington DC
 Molly Corp 504 Med Arts Bldg Reading Pa
 Moloney Co 13125 Shaker Sq Cleveland 29 Ohio
 Momar Industries 4176 Montrose Ave Chicago 41 Ill
 Monarch Range Co 1511T Lake St Beaver Dam Wisc
 Mondial United Corp 532 Madison Ave New York 22 NY
 Monogram Industries Inc 825 S Front St Quincy Ill
 Monostructure Inc Sarasota Bradenton Sarasota Fla
 Monroe Co Inc 10703 Quebec Ave Cleveland 6 Ohio
 Moore Goodloe E Inc 2811 N Vermillion St Danville Ill
 Monsanto Chemical Co Organic Chemicals Div Lindbergh & Olive St Rd St Louis 66 Mo
 Monsanto Chemical Co Plastics Div 812 Monsanto Ave Springfield 2 Mass
 Moore A E Co Inc Waupaca Wisc
 Moore Pipe & Sprinkler Co 1220 W State St Jacksonville 1 Fla
 Moorhead Brick & Tile Co Fifth Ave & 11 St St Joseph 41 Mo
 Morgan Company 520 Oregon St Oakkosh Wisc
 Morgan Machine Co 1230 University Ave Rochester NY
 Morgan-Wightman Co 9910 Page Blvd St Louis 66 Mo
 Morgen Mfg Co 117 W Third St Yankton SD
 Morphy-Richards Inc 232 S Van Brunt St Englewood NJ
 Morrison Co 125 W Melvina St Milwaukee Wisc
 Morrison Steel Products Inc 601 Amherst St Buffalo 7 NY
 Mortell J W Co 550 N Hobbie Ave Kankakee Ill
 Mortgage Exchange Co of America Inc 608 Louisville Trust Bldg Louisville 2 Ky
 Morton Ceramic Tile Co Morton Ill
 Mosaic Tile Co 1949 Pershing Ave Zanesville Ohio
 Mosler Safe Co 320 Fifth Ave New York 1 NY
 Mosley Electronics Inc 4610 N Lindbergh Blvd Bridgeton Mo
 Motor Truck Div International Harvester Co 180 N Michigan Ave Chicago 1 Ill
 Motor Wheel Corp Duo-Therm Div East Saginaw St Lansing 3 Mich
 Motorola Communications & Electronics Co 4501 W Augusta Blvd Chicago 51 Ill
 Moulton Ladder Mfg Co 2-40 Harding St Somerville Mass
 Mt Pleasant Shingle Co 1403 W Eighth Port Angeles Wash
 Mt Vernon Furnace & Mfg Co PO Box 213 Mt Vernon Ill
 Mower Lumber Co PO Box 2151 Charleston 28 W Va
 Mueller Brass Co 1925 Lapeer Ave Port Huron Mich
 Mueller Climatrol Div Worthington Corp 2005 W Oklahoma Box 401 Milwaukee 1 Wisc

Mulkey Sam Co Box 270 Lee Summit Mo
 Muller Machinery Co Inc 750 Whitman Ave Metuchen 4 NJ
 Multnomah Plywood Corp 1500 SW Harbor Dr Portland 1 Ore
 Muncie Gear Co PO Box 433 Cordele Ga
 Murphy Precast Inc PO Box 254 Hillsdale Mich
 Murray Mfg Corp 1250 Atlantic Ave Brooklyn 16 NY
 Murray Tile Co Inc Lewisport Ky
 Music & Sound Inc 118 Leslie St Dallas Tex
 Musson R C Rubber Co 1320 Archwood Ave Akron 6 Ohio
 Mustee E L & Sons Inc 6911 Lorain Ave Cleveland 2 Ohio
 Mutschler Bros 302 S Madison St Napanee Ind
 Mutual Fir Column Co PO Box 1342 Tacoma 1 Wash
 Myers F E & Bros Co 424-34 Orange St Ashland Ohio

N

Nalle Plastics Inc 108-112 W Second St Austin 1 Tex
 Nalco Corp 327 Fifth Ave Pittsburgh 22 Pa
 National Casein Co 601 W 80 St Chicago 20 Ill
 National Cash Register Co S Main & K Sts Dayton 9 Ohio
 National Chemical & Mfg Co 3617 S May St Chicago 9 Ill
 National-Detroit Inc 2810 Auburn Rockford Ill
 National Disposer 920 W Lafayette Rd Medina Ohio
 National Floor Prods Co Florence Ala
 National Forest Prods Co Box 510 Jacksonville Tex
 National Gypsum Co Gold Bond Bldg 325 Delaware Ave Buffalo 2 NY
 National Home Planning Service 80 Morris Ave Springfield NJ
 National Kitchens 163 Avenue A Bayonne NJ
 National Lead Co 111 Broadway New York 6 NY
 National Mfg Co 1 First Ave Sterling Ill
 National Mfg Corp PO Box 189 Tonawanda NY
 National Metal Prods 2 Gateway Center Pittsburgh 22 Pa
 National Plastic Products Co Odenton Md
 National Plumbing Fixture Corp South Second Elwood City Pa
 National Pool Equipment Co Lee Highway Florence Ala
 National Rubber Machinery Co Plumbing Equipment Div 920 W Lafayette Rd Medina Ohio
 National Stove Co 163 Avenue A Bayonne NJ
 National Tile & Mfg Co 1200 E 26 St Anderson Ind
 National Vanity Co 165 Avenue A Bayonne NJ
 National Window Corp PO Box 632 Jackson Miss
 Nationwide House Plan Service 595 Hope St Providence RI
 Nationwide Plan Book Co PO Box 404 Northridge Cal
 Neils J Lumber Co Div St Regis Paper Co Libby Mont
 Nelson Stud Driver Div Gregory Industries Inc E 28 St & Toledo Ave Lorain Ohio
 Nesbitt John J Inc State Rd & Rhawn St Philadelphia 36 Pa
 Nevamar Carefree Kitchens Odenton Md
 New Castle Products Inc Box 353 New Castle Ind
 New England Carbide Tool Co Inc 55 Commercial St Medford 55 Mass
 New London Engineering Co 1700 Division St New London Wisc
 New London Shake Co Box 535 Hoquiam Wash
 New Monarch Machine & Stamping 406 SW Ninth St Des Moines 9 Iowa
 New York Wire Cloth Co Inc 441 E Market St York Pa
 Newark Ladder & Bracket Co Inc 17 Walnut Ave Clark Rahway NJ
 Niagara Furnace Div Forest City Foundries Co 2500 W 27 St Cleveland 13 Ohio

Niagara Plywood Co Inc 1091 Ellicott Square Buffalo NY
 Nicholls Mfg Co Ottumwa Iowa
 Nichols Wire & Aluminum Co 1725 Rockingham Rd Davenport Iowa
 Nicholson & Co 161 First St Cambridge 42 Mass
 Nicholson File Co Providence 1 RI
 Noblecraft Industries Inc 630 S W Maple St Hillsboro Ore
 Nopce Chemical Co Plastics Div 175 Schuyler Ave N, Arlington NJ
 Nordahl Sliding Door Frames 180 W Alameda Ave Burbank Cal
 Norge Div Borg Warner Corp Rm 234 Mdse Mart Chicago Ill
 Norman Products Co 1150 Chesapeake Ave Columbus 21 Ohio
 Norman W F Sheet Metal Mfg Co Nevada Mo
 North American Door Co Inc PO Lindenhurst Long Island NY
 North Bangor Slate Co Bangor Pa
 North Carolina Granite Corp Mount Airy NC
 North East Metal Products Corp Merrick LI NY
 North Pacific Plywood Inc 1549 Dock St Tacoma 2 Wash
 Northern Conveyor Co Western Ave Janesville Wisc
 Northern Industries Inc 631 E Center St Milwaukee 2 Wisc
 Northwest Door Co Div St Regis Paper Co PO Box 1477 Tacoma 1 Wash
 Northwest Engineering Co 135 S LaSalle St Chicago 3 Ill
 Northwest Foundry & Furnace Co 2345 SE Gladstone Portland Ore
 Northwest Metal Products Inc 53 Spokane St Seattle 4 Wash
 Northwest Shake Distributor 3117 Broadway Everett Wash
 Northwestern Steel & Wire Co Ave B & Wallace St Sterling Ill
 Norton Co 1 New Bond St Worcester 6 Mass
 Norton Door Closer Co 372 Meyer Rd Bensenville Ind
 Nova Sales Co 1955 Harvey Rd Trenton NJ
 Novo Pump & Engine Co 702 Porter St Lansing 5 Mich
 Nurre Co Box 908 Bloomington Ind
 Nuside Metal Products Inc Box 369 Sharon Pa
 NuTone Inc Red Bank & Madison Cincinnati 27 Ohio
 Nu-Wall Mfg Co 832 N 34 St Milwaukee 8 Wisc

O

Oakland Foundry Co Belleville Ill
 O'Brien Corp 2001 W Washington South Bend 21 Ind
 Ohio Foundry & Mfg Co 629 Slack St Steubenville Ohio
 Ohio Lime Co Woodville Ohio
 Ohio Plate Glass Co 305 Morris St Toledo 4 Ohio
 Ohio Stamping & Mfg Co 5103 Lakeside Ave Cleveland 14 Ohio
 O'Keefe & Merritt Co 3700 East Olympic Los Angeles 23 Cal
 Okonite Co 220 Passaic St Passaic NJ
 Oliver Corp 400 W Madison St Chicago Ill
 Oliver Machinery Co 445 Sixth St NW Grand Rapids 2 Mich
 Olsen C A Mfg Co Filbert St Elyria Ohio
 Olson Mfg Co 620-24 S Broadway Albert Lea Minn
 Olympic Foundry Co 5300 Airport Way Seattle Wash
 Omark Industries Inc 9701 S E McLoughlin Blvd Portland 22 Ore
 Onan Div of Studebaker-Packard Corp 2515 University S E Minneapolis 14 Minn
 Orangeburg Mfg Co Div Flintkote Co 375 Park Ave New York 22 NY
 Orchard Bros Inc Alumarell Products Co 63 Meadow Rd Rutherford NJ
 Oro Mfg Co 1425 E Michigan St Adrian Mich
 Osage Prods Co Eldon Mo
 Osmonose Wood Preserving Co of America 980 Ellicott St Buffalo 9 NY
 Ostin David Moulding Corp PO Box 607 Sacramento 3 Cal

Otis Elevator Co 260 Eleventh Ave New York 1 NY
 Outdoor Oven Fireplace Co 859 Windsor St Hartford 1 Conn
 Overhead Door Corp PRR & Kickapoo St Hartford City Ind
 Owatonna Tool Co 134 Cedar St Owatonna Minn
 Owensboro Sewer Pipe Co PO Box 537 Owensboro Ky
 Owens-Corning Fiberglass Corp 603 Madison Ave Toledo Ohio
 Owens-Illinois PO Box 1035 Toledo 1 Ohio
 Oxford Tile Co Div of Universal Petteries Inc Cambridge Ohio
 Oxwall Tool Co Ltd 401 Park Ave S New York 16 NY
 Ozan Lumber Co Prescott Ark
 Ozark Oak Flooring Co Bismarck Mo

P

Pacific Brass & Hardware Mfg Co 2442 N Chico Ave El Monte Cal
 Pacific Lumber Co 100 Bush St San Francisco Cal
 Pacific Mercury Electronics Marketing Div 8345 Hayvenhurst Ave Sepulveda Cal
 Pacific Mutual Door Co PO Box 1589 Washington Bldg Tacoma 1 Wash
 Pacific Pre-cast Products Inc 2375 E 120th St Los Angeles 23 Cal
 Pacific Pumping Co PO Box 44 Oakland 4 Cal
 Pacific Tile & Porcelain Co 7716 Alondra Blvd Paramount Cal
 Paddock of California 14606 Arminta St Van Nuys Cal
 Paine Co 501 Westgate Addison Ill
 Paine Lumber Co Lid PO Box 1403 Louisville Ky
 Pak-Cel Inc 3 Malden St Natick Mass
 Pal-O-Fak Insulation Co Inc Hartland Wisc
 Palos Verdes Stone Dept Great Lakes Carbon Corp 612 S Flower St Los Angeles 17 Cal
 Panel-Lift Door Corp 1724 Chestnut St Philadelphia Pa
 Panefab Products Inc 2000 N E 146 St N Miami Fla
 Panelfold Doors Inc 1090 E 17 St Hialeah Fla
 Paragon Electric Co 1606 12th St Two Rivers Wisc
 Park Tool Co PO Box 44 St Cloud Minn
 Parker Ira & Sons 552 N Main St Oshkosh Wisc
 Parker Mfg Co 149 Washington St Worcester Mass
 Parker S Hdwe Mfg Corp 27 Ludlow St New York 2 NY
 Parker & Sons Shake Mill PO Box 32 Copalis Beach Wash
 Parkwood Laminates Inc 134 Water St Wakefield Mass
 Parr Paint & Color Co 18406 Syracuse Ave Cleveland 10 Ohio
 Parsons Co Div Koshing Co 200 North Eighth Ave E, Newton Iowa
 Pass & Seymour Inc Solvay Station Syracuse NY
 Patent Scaffolding Co 38-21 Twelfth St Long Island City NY
 Patten J V Co 550 DeKalb Ave Sycamore Ill
 Patton Clay Mfg Co Terra Cotta Ave Patton Pa
 Paxton Brick Co Paxtonville Pa
 Paxton Frank Lumber Co 6311 St John Ave Kansas City Mo
 Payne Co Box 2222 Lapuente Cal
 Pease Woodwork Co Inc 900 Forest Ave Hamilton Ohio
 Peaslee-Gaultbert Paint & Varnish Co 223 N 15 St Louisville Ky
 Pebeco Industries Inc Fruitville Rd Lancaster Pa
 Pecora Inc 300 W Sedgley Ave Philadelphia 40 Pa
 Peerless Electric Div H K Porter Co Inc 1401 W Market St Warren Ohio
 Peerless Heater Co Spring & Shaeffer Boyertown Pa
 Peerless Level & Tool Co 104 Third Ave Sterling Ill
 Peerless Mfg Co Inc 2100 N Eleventh St Reading Pa
 Peerless Pump Hydrodynamics Div 301 West Ave 26 Los Angeles 31 Cal

Peerless-Wood Products 2700 Junction Detroit Mich
 Penako Mfg Co 5755 Landregan St Emeryville Cal
 Penline Mfg Co 2690 The Alameda Santa Clara Cal
 Penberthy Mfg Co 2660 E. Grand Blvd Prophetstown Ill
 Penetray Corp 615 Front St Toledo 5 Ohio
 Peninsula Plywood Corp Marine Drive Port Angeles Wash
 Peninsula Tool Co Inc 1200 34th Ave Menominee Mich
 Penn-Akron Corp 32-01 57th St Woodside 77 NY
 Penn Controls Inc Goshen Ind
 Penn Crete Prods Co 4528 Tacony Sts Philadelphia 2 Pa
 Penn Metal Co Inc 40 Central St Boston Mass
 Pennsalt Chemicals Corp Three Penn Center Philadelphia 2 Pa
 Pennsylvania Furnace & Iron Co 316 Pine St Warren Pa
 Pennsylvania Wire Glass Co 1612 Market St Philadelphia 3 Pa
 Peoria Brick & Tile Co PO Box 515 Peoria Ill
 Perfect-Line Mfg Corp Old Country Rd Hicksville NY
 Perfection Industries Div Hupp Corp 1135 Ivanhoe Rd Cleveland 10 Ohio
 Perma-Jack Corp 1113 E 200 St Cleveland 17 Ohio
 Perma-Stone Co 719 E Hudson St Columbus 11 Ohio
 Permagile Corp of America 34-43 56th St Woodside 77 NY
 Permanente Cement Co 300 Lakeside Drive Oakland Cal
 Permiteco Inc PO Box 206 Station A Dayton 3 Ohio
 Permutit Co Div Pfaunder Permutit Inc 50 W 44 St New York 36 NY
 Perrine Industries Inc 5555 N W 36 Ave Miami Fla
 Peters Jas & Son 1934 N Front St Philadelphia Pa
 Peterson D J Co Inc Sheboygan Wis
 Peterson Robert H Co 2835 Sierra Grande St Pasadena Cal
 Peterson Window Corp 722 Livernois Ferndale 20 Mich
 Petterson J C Corp 116 S Stoneman Ave Alhambra Cal
 Phelan-Faust Paint Mfg Co 932 Loughborough St Louis 11 Mo
 Phelps Dodge Copper Prods Corp 300 Park Ave New York 22 NY
 Phenix Mfg Co Inc 4129 N Point Washington Ave Milwaukee 12 Wisc
 Philadelphia Screen Mfg Co Philadelphia 43 Pa
 Philco Corp Tlaga & C Sts Philadelphia 34 Pa
 Phillips Drill Co Highway 12 Michigan City Ind
 Phillips Ryhne Lumber Co Inc PO Box 257 Brookhaven Miss
 Pickens Hardwood Flooring Co Inc Pickens SC
 Pickering Lumber Corp Standard Cal
 Pickett Products Inc 1111 S Fremont Ave Alhambra Cal
 Pioneer Gen E Motor Corp 5841 W Dickens Ave Chicago 39 Ill
 Pioneering Mfg Co 3131 San Fernando Rd Los Angeles 65 Cal
 Pioneer Plastics Corp 28 Goodhue St Salem Mass
 Pitman Mfg Co Grandview Mo
 Pittsburgh Corning Corp 1 Gateway Center Pittsburgh 22 Pa
 Pittsburgh Plate Glass Co 632 Fort Duquesne Pittsburgh 22 Pa
 Pittsburgh Steel Products Div Pittsburgh Steel Co PO Box 118 Pittsburgh Pa
 Plasteco Inc PO Box 9123 Houston Tex
 Plastel Products Corp PO Box 481 Washington Pa
 Plastergen Wall Board Co 196 Philadelphia Buffalo 7 NY
 Plastering Development Center Inc 1725 W Pershing Rd Chicago 9 Ill
 Plastic Products Co 6473 Georgia Ave Detroit 11 Mich
 Plastic Woven Prods 51 Camden St Paterson NY
 Plastimayd Corp 2204 S E Seventh Ave Portland 14 Ore
 Flexstone Corp of America 2141 McCarter Hwy Newark NJ
 York 17 NY

Plumb Fayette R Inc 4837 James St Philadelphia 37 Pa
 Plyco Corp 54 Lake St Elkhart Lake Wisc
 Plyfloor Inc PO Box 1481 Hattiesburg Miss
 Plymold Co 12025 Brandford St Sun Valley Cal
 Plywall Prods Co PO Box 625 Fort Wayne Ind
 Plywood Co Fulton St Sumter SC
 Plywood Service Inc PO Box 78 Dillard Ore
 Polyplastex United Inc 870 Springfield Rd Union NJ
 Pomeroy S H Co Inc 41 Magee Ave Stamford Conn
 Pomona Terra-Cotta Co Pomona Station Greensboro NC
 Pomona Tile Mfg Co 629 N LaBrea Ave Hollywood 38 Cal
 Poolquip Mfg Inc PO Box 7483 Fort Worth Tex
 Postatuck Corp 50 Old Stratford R Shelton Conn
 Pope & Talbot Inc 3070 N West Front Portland Ore
 Port Austin Level & Tool Mfg Co Port Austin Mich
 Portable Electric Tools Inc 1200 E State St Geneva Ill
 Porter-Cable Machine Co 700 Marcellus St Syracuse 4 NY
 Power Line Sales Inc 540 Monterey Pass Monterey Park Cal
 Pownall Co 961 Montana St Chicago 14 Ill
 Powers Regulator Co 3400 Oakton St Skokie 19 Ill
 Prager Co Inc 3 Neponset St Worcester 6 Mass
 Pratt & Lambert Inc 75 Tonawanda St Buffalo 7 NY
 Precision Parts Corp 400 N First St Nashville 7 Tenn
 Precision Weatherstrip Co 7300 University Ave Chicago 19 Ill
 Precisionware Inc 78 Livingston St Brooklyn NY
 Precoc Inc 6300 E Slauson Ave Los Angeles 22 Cal
 Prefabricated Prods Co Inc PO Box 368 Kirkland Wash
 Premier Furnace Co Box 150 Dowagiac Mich
 Prescolite Mfg Corp 2229 Fourth St Berkeley Cal
 Prestite Div American-Marietta Co 39th & Chouteau Aves St Louis 10 Mo
 Prestile Mfg Co 5850 W Ogden Ave Chicago 50 Ill
 Preway Inc 1430 Second St N Wisconsin Rapids Wisc
 Prime Mover Co Highway 22 East Muscatine Iowa
 Proctor Products Co 16202 Sixth Ave N E Seattle 55 Wash
 Producers & Distributors Inc 1321 Hanover St Allentown Pa
 Progress Mfg Co Inc Castor & Tulip Ave Philadelphia 34 Pa
 Protection Products Mfg Co 2305 Superior Ave Kalamazoo 99 Mich
 Protective Papers Inc Union Ill
 Protective Products Co 2701 N E University Minneapolis 18 Minn
 Protectub Inc 93 Seigel St Brooklyn 6 NY
 Proto Tool Co Div Pendleton Tool Industries Inc 2209 Santa Fe Ave Los Angeles 54 Cal
 Puget Sound Plywood Inc 230 East F St Tacoma Wash
 Fullman Mfg Corp 325 Hollenbeck Rochester 21 NY
 Fullum Window Corp 12950 Lyndon Ave Detroit 27 Mich
 Furitron Corp 15 Stiles St PO Box 141 New Haven Conn
 Fyle-National Co 1334 N Kostner Chicago 51 Ill
 Pyramid Mouldings Inc 5353 W Armstrong Chicago 46 Ill

Q

Quaker State Metals Co Manheim Pike Lancaster Pa
 Quartz Mosaic Inc PO Box 36 Yorklyn Del
 Quicfrez Inc 105 Oak Place Fond Du Lac Wisc
 Quigley Co Inc 415 Madison Ave New

R

R C A Service Co Div of R C A Camden 8 NJ
 R & H Guaranteed Products Co 5440 W Cermak Rd Cicero Ill
 R O W Window Sales Co 1301-4 Academy Ave Ferndale Mich
 Racine Hydraulics & Machinery Inc 2000 Albert St Racine Wisc
 Radco Products Inc 3121 Skyway Drive Santa Maria Cal
 Radex Corp 2076 N Elston Ave Chicago 14 Ill
 Radiation Furnace Corp 230 Bond St Benton Harbor Mich
 Radiant-Ray Radiation Inc 464 Hartford Ave Newington Conn
 Radocy P A & Sons E River Rd Rossford Ohio
 Ramset Fastening System Winchester-Western Div Olin Mathieson Chem Corp 289 Winchester Ave New Haven 4 Conn
 Ranette Mfg Co 1917 S Broadway St Louis 4 Mo
 Ranier Plywood Co 2142 East D St Tacoma 2 Wash
 Rapids-Standard Co Inc 130 Trowbridge St Grand Rapids Mich
 Rawplug Co Inc 200 Petersville Rd New Rochelle NY
 Raybestos-Manhattan Inc M R Div 61 Willett St Passaic NJ
 Rayco Products Inc Middletown Conn
 Raynor Mfg Co East River Rd Dixon Ill
 Ray-O-Lite Corp of America 316 Peachtree N E Atlanta Ga
 Ready Hung Door Corp Neil P Anderson Bldg Fort Worth Tex
 Readybuilt Products Co 1701-23 McHenry St Baltimore 23 Md
 Reardon Co 7501 Page Ave St Louis 14 Mo
 Red Jacket Mfg Co P O Box 270 Davenport Iowa
 Redwood Sales Co 100 Bush St San Francisco 4 Cal
 Reed Cromex Corp 15757 Euclid Ave Cleveland 12 Ohio
 Reed Unit Fans Inc 501 N St Patrick St New Orleans 19 La
 Reeves Brothers Inc 1071 Sixth Ave New York 18 NY
 Reese Metal Weatherstrip Co 712 Park Ave Minneapolis Minn
 Reeves Steel & Mfg Co Div Empire-Reeves Steel Corp 8 Iron Ave Dover Ohio
 Reflectal Corp Sub Borg Warner 200 S Michigan Ave Chicago 4 Ill
 Reflectotherm Inc 26 E University Cincinnati 19 Ohio
 Regal Laminates Inc 1370 Ralph Ave Brooklyn NY
 Regal Products Corp 700 Angeneese St Harrisburg Pa
 Regulux Sash & Door Co 936 Bransten Rd San Carlos Cal
 Rehco Corp 5846 Hooper Ave Los Angeles 1 Cal
 Reiman & Georger Inc 1849 Harlem Rd Buffalo 12 NY
 Remcon Div Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY
 Remington Air Conditioning Div Willey St Auburn NY
 Remington Alum Window Corp 999 Stewart Ave Garden City NY
 Remington Arms Co Inc 939 Barnum Ave Bridgeport 2 Conn
 Remington Rand Div Sperry Rand 315 Park Ave S New York 10 NY
 Rempe Co 340 N Sacramento Chicago 12 Ill
 Reiten Corp 99 N Lotus Ave Pasadena Cal
 Re-Nu-It Corp 424 West 42 St New York 36 NY
 Reo Div White Motor Co 1331 S Washington Lansing 20 Mich
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio
 Republic Steel Corp Berger Div 1038 Belden Ave N E Canton 5 Ohio
 Republic Steel Corp Trusecon Div 1050 Albert St Youngstown 1 Ohio
 Research Products Corp 1015 E Washington Madison 10 Wisc
 Reuten Fred Inc Closter NJ
 Revco Inc Deerfield Mich

Revere Copper & Brass Inc 230 Park Ave New York 17 NY
 Reynolds Aluminum Supply Co 756 W Peachtree Atlanta 3 Ga
 Reynolds Metals Co West Broad St Richmond 18 Va
 Rez Wood-Tones Inc One Gateway Center Pittsburgh Pa
 Reznor Mfg Co David St Mercer Pa
 Rice Pump & Machine Co 400 Park Ave Belgium Wisc
 Rich Phil Fan Mfg Co Inc 2900 Caroline Houston 4 Tex
 Rich Howard B Inc Sixth St Carrollton Ky
 Richards Wilcox Mfg Co 174 Third St Aurora Ill
 Richbilt Mfg Co 3277 Spring Grove Cincinnati 25 Ohio
 Riehkraft Co 510 N Dearborn St Chicago 10 Ill
 Richmond Fireproof Door Co PO Box 97 Friends Station Richmond Ind
 Richmond Heating Equipment Home Products Group 7600 S. Kedzie Ave Chicago 52 Ill
 Richmond Plumbing Fixtures P O Box 111 Metuchen NJ
 Rieter Woodwork Specialty Co 241 N Second Ave P O Box 243 Cedarburg Wisc
 Rigidized Metals Corp 687 Ohio St Buffalo NY
 Rilco Laminated Products First Natl Bank Bldg St Paul Minn
 Rittenhouse Co Inc 68 East St Honeoye Falls NY
 Ritting Corp 95 Kentucky St Buffalo NY
 Robbins Floor Products Inc Tusculum Ala
 Robbins Flooring Co Reed City Mich
 Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio
 Roberts Co 600 N Baldwin Park Blvd City of Industry Cal
 Roberts Gordon Appliance Corp 44 Central Ave Buffalo 6 NY
 Roberts Mfg Co Box 177-426 Shafer Cleburne Tex
 Robertshaw Thermostat Div Robertshaw-Fulton Controls Co Youngwood Pa
 Robertson Steel & Iron Co 71 Elm St Cincinnati 2 Ohio
 Robinson Clay Product Co 65 West State St Akron 9 Ohio
 Robinson Plywood & Timber Co P O Box 904 Everett Wash
 Robot Industries Inc 7041 Orchard St Dearborn Mich
 Recco Products Inc 2916 Fourth Ave Minneapolis Minn
 Rocform Corp 15160 W 8-Mile Rd Detroit 35 Mich
 Rock Island Millwork Co Factory Div Rock Island Ill
 Rockote Paint Co 200 Sayre St Rockford Ill
 Rockford Brick & Tile Co Rockford Iowa
 Rockwell Mfg Delta Power Tool Div 400 N Lexington Pittsburgh 8 Pa
 Rockwell of Randolph Inc Randolph Wisc
 Rodale Manufacturing Co Inc Sixth & Minor Sta Emmaus Pa
 Roe Justus & Sons 217 River Ave Patchogue LI NY
 Rohloff & Co 918 North Western Ave Hollywood 29 Cal
 Rohm & Haas Co Washington Sq Philadelphia 5 Pa
 Rolatape Inc 1741 14th St PO Box 1190 Santa Monica Cal
 Roliscreen Co Main St Pella Iowa
 Romar Filter Corp 120 W Melvina St Milwaukee 12 Wisc
 Rome-Turney Radiator Co Canal St Rome NY
 Ronan & Junzi Inc 502 S Kalamazoo Ave Marshall Mich
 Root-Lowell Corp 445 N Lake Shore Drive Chicago Ill
 Roper Geo D Corp Kankakee Ill
 Rosboro Lumber Co P O Box 1098 Springfield Ore
 Roseman Tractor Equipment Co 2610 Crawford Ave Evanston Ill
 Round David & Son Inc P O Box 883 Cleveland 22 Ohio
 Rowe Mfg Co 614 W Third St Galesburg Ill
 Royal Jalouse Co 1036 E 24 St Hialeah Fla
 Royal Woodwork Inc 235 S 11 St Reading Pa

Rubatex Div of Great American Industries Inc Bedford Va
 Ruberoid Co 500 Fifth Ave New York 36 NY
 Rudeen N H Co Inc 2940 Girard Ave S Minneapolis 8 Minn
 Rudiger-Lang Co 219 International Trade Mart New Orleans La
 Rudiger-Lang Co 2701 Eighth St Berkeley 10 Cal
 Rusco Div of F C Russell Co Box 387 Pandora Ohio
 Russell & Erwin Div American Hardware Corp 102 Washington St New Britain Conn
 Rust-Oleum Corp 2425 Oakton St Evanston Ill
 Rutland Fire Clay Co Curtis Ave Rutland Vt
 Ruud Mfg Co 2025 Factory St Kalamazoo 24 Mich
 Rybolt Heater Co Box 590 Ashland Ohio
 Ryerson Joseph T & Son 16th & Rockwell St Chicago Ill

S

Sacramento Brick Co P O Box 843 Sacramento 4 Cal
 Safe Padlock & Hardware Co North Plum & Elizabeth Ave Lancaster Pa
 Safetec Glass Co 4717 Stenton Ave Philadelphia 44 Pa
 Safety-Flex Enclosures Div Woodside Industries 2566 Bay Rd Redwood City Cal
 Safety Nail Driver Corp 70 Rosalie St Clifton NJ
 Safway Steel Products Inc 8228 W State St Milwaukee 13 Wisc
 Sager Weatherstrip & Caulking 2050 W 59 St Chicago 36 Ill
 St Charles Mfg Co Tyler Rd St Charles Ill
 Saint Paul Corrugating Co S End Wabasha St Bridge St Paul 7 Minn
 St Regis Paper Co Panelyte Div 150 East 42 St New York 17 NY
 Samco Wm J Iron Co 917 Military Rd Kenmore 17 NY
 Samuel Stamping & Enameling Co Chattanooga Tenn
 San-Tex Stone Quarry Inc 4130 Broadway San Antonio Tex
 Sands Level & Tool Co Div Harmon Mach Co Inc 225 W Lewis Wichita Kan
 Sanford Gri-P-Late Co PO Box 1177 Pompano Beach Fla
 Sani-Top Inc 16634 S Figueroa PO Box 130 Gardena Cal
 Saniglas Inc Amsterdam NY
 Santa Anita Mfg Corp 4961 Double Drive Temple City Cal
 Sanymetal Products Co Inc 1705 Urbana Rd Cleveland 12 Ohio
 Sapolin Paints Inc 205 East 42 St New York 17 NY
 Sargent & Co 45 Water St New Haven 9 Conn
 Sargent-Gerke Co 323 West 15th Indianapolis 6 Ind
 Sassen Derrick Co 3101 West Grand Ave Chicago 22 Ill
 Saturday Evening Post Curtis Publishing Co Independence Square Philadelphia Pa
 Savogran Co PO Box 58 Norwood Mass
 Sawhill Tubular Products Inc Fabricating Div Sharon Pa
 Schalk Chemical Co 351 E Second St Los Angeles 13 Cal
 Scharf J H Mfg Co 6120 Binney St Omaha 4 Neb
 Scheirich H J Co 4460 Louisville Ave Louisville 9 Ky
 Schenck William & Co Evans City Pa
 Schield Bantam Co 262 Park St Waverly Iowa
 Schlage Lock Co 2201 Bay Shore Blvd San Francisco 24 Cal
 Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 Ny
 Schumacher F E Co 200 Mill St Hartsville Ohio
 Schwartz Mfg Co Lester Prairie Minn
 Screens & Fabric Metals Corp 34th St & Plank Rd N Bergen NJ
 Screw & Bolt Corp of America Southington Hardware Div 168 Center St Southington Conn
 Sea-Chrome Inc 1032 S Gerhart Ave Los Angeles 22 Cal

Seal-A-Door Co 712 N W Sixth Ave Ft Lauderdale Fla
 Sealtite Insulation Mfg Corp 115 Madison St Waukesha Wisc
 Seaman-Andwall Corp Ixonia Wisc
 Searcy Flooring & Lumber Co Inc Searcy Ark
 Seattle Cedar Lumber Mfg Co 4703 Ballard Ave Seattle 7 Wash
 Security Aluminum Co 403 Midland Ave Detroit 3 Mich
 Sedcon Inc Rt 30 E Box 66 Rock Falls Ill
 Seddon Co Box 36 Springfield Ohio
 Seidlitz Paint & Varnish Co 18th & Garfield St Kansas City 10 Mo
 Selby Battersby & Co 5220 Whitby Ave Philadelphia 43 Pa
 Selck Walter E & Co 223 West Hubbard Chicago 10 Ill
 Semling-Menke Co S Nast St Merrill Wisc
 Seneca Wire & Mfg Co Fostoria Ohio
 Sentry Stop-A-Draft Co 715 St Clair Ave N W Cleveland 13 Ohio
 Sequoia Manufacturing Co 1090 Brittan Ave San Carlos Cal
 Serviced Prods Corp 6051 W 65 St Chicago 38 Ill
 Servis Equipment Co PO Box 1590 1000 Singleton Blvd Dallas Tex
 Shadyside Foundry PO Box 507 Martins Ferry Ohio
 Shake-A-Ply Co PO Box 7 N Portland Ore
 Shakertown Corp 20310 Chagrin Blvd Cleveland 22 Ohio
 Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio
 Sheffield Div Armo Steel Corp Sheffield Station Kansas City 25 Mo
 Shelby Metal Prods Co PO Box 525 Shelby Ohio
 Shelby Spring Hinge Co Shelby Ohio
 Shell Chemical Co 110 W 51 St New York NY
 Shepard Niles Crane & Hoist Corp 410 Schuyler Ave Montour Falls NY
 Sherley-Wagner 125 E 57 St New York NY
 Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio
 Shopmaster Div Energy Mfg Co 100 N Main St Monticello Iowa
 Shower Door Co of America 1 Permalume Pl N W Atlanta 18 Ga
 Showerfold Door Corp 5858 N Pulaski Rd Chicago 46 Ill
 Signode Steel Strapping Co 2600 N Western Ave Dept 113 ABD Chicago 47 Ill
 Sika Chemical Corp 35 Gregory Ave Passaic NJ
 Silent Glow Oil Burner Co 850 Windsor St Hartford Conn
 Silent Hoist & Crane Co 841 63rd St Brooklyn NY
 Silicoes Div Union Carbide 270 Park Ave New York 17 NY
 Silicone Products Dept General Electric Co Waterford NY
 Silver Bellis Ltd PO Box 982 Carmel Cal
 Silver Line Co 19 Boright Ave Kenilworth NJ
 Silvercote Prods Inc 161 E Erie Chicago Ill
 Silvray Lighting Inc 100 West Main St Bound Brook NJ
 Simmonds Abrasive Co Tacony & Fraley St Philadelphia Pa
 Simons Saw & Steel Co 470 Main St Fitchburg Mass
 Simplex Forms System Inc 5695 Industrial Ave Rockford Ill
 Simplex Level Co PO Box 215 Hanover Mich
 Simpson Mark Mfg Co Inc 32-28 49th St LIC 3 NY
 Simpson Timber Co 2000 Washington Bldg Seattle 1 Wash
 Sin-Jin Products Co 5236-40 Fairlawn Ave Baltimore 15 Md
 Skill Corp 5033 Elston Ave Chicago 3 Ill
 Skuttle Mfg Co 140-150 Summit Milford Mich
 Skyline Industries Sales Inc 1900 Skyline Dr Titusville Pa
 Slant-Fin Radiator Corp 130-15 89th Rd Richmond Hill NY
 Slaymaker Lock Co 115 S W End Ave Lancaster Pa
 Slide-View Door & Window Co 1547 N Tyler Ave El Monte Cal
 Slidewall Co 1040 N North Branch Chicago Ill

Sloan Valve Co 4300 W Lake St Chicago 24 Ill
 Smith A O Corp Permaglas Div PO Box 28 Kankakee Ill
 Smith Alexander 295 Fifth Ave New York NY
 Smith-Corona Marchant Inc 410 Park Ave New York 22 NY
 Smith H B Co Westfield Mass
 Smith J Lee & Co Inc PO Box 185 North Brunswick NJ
 Smith & Loveless Div Union Tank Car Co Lenexa Kan
 Smith M R Shingle Co Box 2067 Seattle 11 Wash
 Smith T L Co 2835 N 32 St Milwaukee Wisc
 Smith W T Lumber Co Chapman Ala
 Smith Holst Mfg Co PO Box 205 Cassopolis 6 Mich
 Smeot-Holman Co PO Box 4097 Inglewood Cal
 Smooth-On Mfg Co 574 Communipaw Jersey City 4 NJ
 Snellstrom Lumber Co PO Box 449 Eugene Ore
 Solvay Process-Allied Chem Dye 61 Broadway New York 6 NY
 Sommer Metal Craft Corp 315 Poston Drive Crawfordsville Ind
 Sonneborn Chemical & Refining Corp 404 Park Ave S, New York 16 NY
 Sonoco Prods Co Construction Prod Div South St Hartsville SC
 Soss Mfg Co PO Box 38 Harper Station Detroit 13 Mich
 Sound Sidewall Shake Co PO Box 538 Winlock Wash
 Southern Cement Co American-Marietta 605 Protective Life Birmingham 3 Ala
 Southern Mill & Mfg Co 525 S Troost Tulsa 1 Okla
 Southern Pine Lumber Co Diboll Tex
 Southern Plaswood Corp PO Box 123 Hope Ark
 Southern Sash Sales & Supply Co 818 20th St Sheffield Ala
 Southern Screw Co Box 1360 Statesville NC
 Southwestern Plastic Pipe Co Box 117 Mineral Wells Tex
 Southwood Corp 4400 Marsalis PO Box 7385 Fort Worth Tex
 Spanall of the Americas Inc 767 United Nations Plaza New York NY
 Spanjers A J Co 6351 N Lilac Drive Minneapolis Minn
 Speakman Co 30th & Spruce Sts Wilmington 99 Del
 Specialty Tool Manufacturers 732 S Illinois St Belleville Ill
 Speed Queen Div McGraw-Edison Co PO Box 332 Ripon Wisc
 Speedway Mfg Div Thor Power Tool Co 1421 Barnsdale Rd La Grange Park Ill
 Spencer Heater Lymcoming Div-Avco 652 Oliver St Williamsport Pa
 Spokane Sash & Door Co PO Box 63 Spokane Wash
 Spetnalls Inc 1527 Lyons Evanston Ill
 Sprayton Equipment Co Box 286 Franklin Mich
 Square D Co Distribution Equipment Div 1601 Mercer Rd Lexington Ky
 Stamford Wallpaper Co Inc 153 Greenwich Ave Stamford Conn
 Standard Brick & Tile Corp 123 N W Fourth St Evansville 8 Ind
 Standard Building Products Co 621 McDonald Ave Brooklyn 18 NY
 Standard Coated Prods Inc Buchanan NY
 Standard Dry Wall Products Inc PO Box X New Eagle Pa
 Standard Electric Mfg Co Inc Haddon Ave W Berlin NJ
 Standard Paste & Glue Co Inc 3620 W 38 St Chicago 32 Ill
 Standard Register Co Campbell & Albany Dayton 1 Ohio
 Standard Steel Cabinet Co 3711 N Milwaukee Chicago Ill
 Standard Steel Works Inc 16th & Howell N Kansas City Mo
 Standard-Tech Chemicals Inc 2600 Richmond Terrace Staten Island NY
 Standard Veneer & Timber Co PO Box 578 Crescent City Cal
 Stanley Electric Tools 480 Myrtle St New Britain Conn
 Stanley Hardware Div of Stanley Works New Britain Conn
 Stanley Tools 111 Elm St New Britain Conn

Stanserew Fasteners Div Standard Screw Co 2901 W Washington Blvd Bellwood Ill
 Stanthony Corp 5341 San Fernando Rd West, Los Angeles 39 Cal
 Star Expansion Industries Corp Mountainville NY
 Starline Inc 300 W Front St Harvard Ill
 Starrett L S Co 1-165 Crescent St Athol Mass
 State Metal Awnings Inc 131 Shonnard St Syracuse NY
 State Steel Industries Inc 17900 E Valley Blvd PO Box F 1 City of Industry Cal
 Sta-Tite Inc 4620 N Port Washington Ave Milwaukee 12 Wisc
 Stay-Tite Products Co 9400 Steinway Ave Cleveland 4 Ohio
 Steel Partitions Inc PO Box 807 Jamestown NY
 Steel Scaffolding Co Uniontown Pa
 Steelcote Mfg Co 3418 Gratiot St St Louis 3 Mo
 Steelercraft Mfg Co 9017 Blue Ash Rd Cincinnati 42 Ohio
 Stephens-Adamson Mfg Co 274 Ridgeway Ave Aurora Ill
 Sterling Alderfer Co 3850 Granger Rd Akron 13 Ohio
 Sterling Faucet Co Morgantown W Va
 Sterling John Corp Richmond Ill
 Sterling Quality Products Inc 184 Commercial St Malden 48 Mass
 Stewart Industries Inc 320 E St Joseph Indianapolis Ind
 Stewart Iron Works Inc 2218 Stewart Block Cincinnati 1 Ohio
 Stewart S J Electric 527-531 St Joseph New Orleans 13 La
 Stewart-Warner Corp Heating & Air Conditioning Div Lebanon Ind
 Stiglitz Corp 2007 Portland Ave Louisville Ky
 Stic-Klip Mfg Co Inc 50 Regent St Cambridge Mass
 Stillwater Clay Products Co 20800 Center Ridge Rd Cleveland 16 Ohio
 Stonco Electric Prods Co 333 Monroe Ave Kenilworth NJ
 Stone Machinery Co 316 Fayette St Manlius NY
 Stone Products Co PO Box 58 Reno Nev
 Storm King Corp 1010 N Fourth St Miamisburg Ohio
 Stertz John & Son Inc 210 Vine St Philadelphia 6 Pa
 Stove Works Inc 131 S Union St Middletown Pa
 Stew Mfg Co 272 Shear St Binghamton NY
 Straitsville Brick Co New Straitsville O
 Stran-Steel Corp Div Natl Steel Corp Detroit 29 Mich
 Stratton Terstegge Co PO Box 311 New Albany Ind
 Streater Drain Tile Co West Tenth St Streater Ill
 Structoglas Inc 11701 Shaker Blvd Cleveland 20 Ohio
 Structural Products Div National Starch & Chemical Corp 750 Third Ave New York 17 NY
 Studebaker-Packard Corp South Bend Ind
 Stylon Corp Summer St Box 341 Milford Mass
 Sub Zero Freezer Co Inc PO Box 2017 Madison Wisc
 Suburban Propane Gas Corp Box 206 Whippany NJ
 Sullivan Co The 212 E Trigg Memphis 2 Tenn
 Summit Pressed Brick & Tile Co 13th & Erie Pueblo Colo
 Summit Sales Co PO Box 860 Everett Wash
 Summitville Tiles Inc Summitville Ohio
 Sume Pumps Inc 23 Brown House Rd Stamford Conn
 Sun Screen Products Co 2220 N Division St Spokane 21 Wash
 Sun Valley Industries Inc 4532 N Elston Ave Chicago 30 Ill
 Sunbeam Plastics Corp PO Box 4038 Station A Evansville Ind
 Suncraft Inc 1315 W Webster Ave Chicago 14 Ill
 Sunroc Corp Glen Riddle Pa
 Sunset Plywood Co 6067 District Blvd Los Angeles Cal
 Sunwarm Inc Box 266 Kingsport Tenn
 Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal

Super Mill Co Everett Wash
 Super-Structures Inc 1015 S Jefferson Albert Lea Minn
 Superior Clay Corp Lock Drawer 352 Uhrichsville Ohio
 Superior Electric Co 83 Laurel St Bristol Conn
 Superior Fastener Corp 2949 Elston Ave Chicago 18 Ill
 Superior Fireplace Co 4325 Artesia Ave Fullerton Cal
 Superior Industries Inc 3786 Oakwood Ave Youngstown 9 Ohio
 Superior Scaffold Co 5624 Bankfield Ave Culver City Cal
 Superior Window Co 625 E Tenth Ave Hiialeah Fla
 Superwood Corp 14th Ave W & Waterfront St Duluth Minn
 Supradur Corp of NY 122 E 42 St New York 17 NY
 Supreme Products Corp 2222 S Calumet Chicago Ill
 Surco Sales Co 18927 St Clair Ave Cleveland 10 Ohio
 Swanson Mfg Co 607 S Washington Owosso 1 Mich
 Swim Queen Pool Co 2301 E Oakton St Arlington Heights Ill
 Swiveller Co Inc Nauet NY
 Sylvania Elec Prods Inc One 48th St Wheeling W Va
 Symons Clamp & Mfg Co 4261 Diversey Ave Chicago 39 Ill
 Syntren Co 618 Lexington Ave Homer City Pa
 Syral Mfg Co 511 N State St Syracuse NY
 Syre Steel Co 1170 N State St Girard O

T

Taber Bushnell Inc 385 27th Ave NE Minneapolis 18 Minn
 Taco Heaters Inc 1160 Cranston St Cranston 9 RI
 Tait Mfg Co 500 Webster St Dayton 1 O
 Talk-A-Phone Co 5013 N Kedzie Ave Chicago 25 Ill
 Talk-A-Radio Mfg Co Box 11727 Dallas 16 Tex
 Tamblin Systems 15 Logan St Denver 3 Colo
 Tamm Industries Co 228 N LaSalle St Chicago 1 Ill
 Tappan Co 250 Wayne St Mansfield Ohio
 Tavari Co PO Box 167 Paramount Cal
 Taylor Bedding Mfg Co INS-Cotton Div Taylor Tex
 Taylor Garage Doors Inc 19800 Fitzpatrick Detroit 28 Mich
 Taylor Halsey W Co 137 North St NW, Warren Ohio
 Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa
 Techbuilt Inc 127 Mt Auburn St Cambridge Mass
 Tedrick Bros Mfg Co Inc Box 167 Kent Wash
 Tel-O-Post Co Pymatuning St Linesville Pa
 Temco Industrial Div Temco Electronics Corp PO Box 6191 Dallas 22 Tex
 Temco Inc 4101 Charlotte Ave Nashville 9 Tenn
 Tennant G H Co 721 North Lilac Dr Minneapolis 22 Minn
 Tennessee Fabricating Co 1490 Grimes St Memphis 6 Tenn
 Tennessee Coal & Iron Div US Steel PO Box 599 Fairfield Ala
 Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn
 Tennessee Stone Works 14th & Holtzclaw Chattanooga Tenn
 Tennison Bros Inc 450 N Bellevue Memphis 4 Tenn
 Tex-A-Panel Mfg Co 10846 Harry Hines Dallas Tex
 Texas Brick Co PO Box 510 Brownwood Tex
 Texas Vermiculite Co PO Box 6306 Dallas 22 Tex
 Texas Vitriol Pipe Co Box 117 Mineral Wells Tex
 Texboro Cabinet Corp PO Box 93 Mineral Wells Tex
 Texoak Flooring Co PO Box 480 Crockett Tex
 Textron Metals Co Box 144 Pottsville Pa
 Thatcher Furnace Center St Garwood NJ
 Thermador Elec Mfg Co 5119 District Blvd Los Angeles 22 Cal

3

Thermo Rite Mfg Co 323 N Arlington St
Akron 5 Ohio

Ther-Mo Roof Inc 3200 Texas Ave PO
Box 6913 Houston 5 Tex

Thilmany Pulp & Paper Co Kaukauna
Wisc

Thiokol Chemical Corp Trenton NJ

Thomas Industries Inc 410 S Third St
Louisville 2 Ky

Thomas Industries Inc 207 E Broadway
Louisville 2 Ky

Thomas Industries Inc Electric Spraylit
Div 1415 Illinois Ave Sheboygan Wisc

Thomas Moulding Floor Co Inc 325 West
Huron St Chicago 10 Ill

Thompson E A Co Inc Western Merchandise
Mart San Francisco 3 Cal

Thomson Oak Flooring Co Old Warren-
ton Rd Thomson Ga

Thor Power Tool Co State & Claim Sts
Aurora Ill

Three Centuries 202 E 56 St New York
22 NY

Three Rivers Plywood & Timber Dar-
rington Wash

Thrush H A & Co Peru Ind

Tibbals Flooring Co PO Box 218 Oneida
Tenn

Tiffany Mfg Co Inc 3640 NW 41 St Mi-
ami Fla

Tiger Brands Inc Sub of Basic Inc 845
Hanna Bldg Cleveland 15 Ohio

Tilemaster Corp 4400 N Harlem Ave Chi-
cago 31 Ill

Tile-Rite Co 4105 Harvard Ave Clevel-
and 5 Ohio

Tiletone Co 2323 N Wayne Ave Chicago
14 Ill

Tilley John S Ladders Co Inc 112 Second
St Watervliet NY

Tilt-A-Door Corp 3800 East Outer Dr
Detroit Mich

Timber Engineering Co 1319 18th St NW
Washington 6 DC

Timber Fabricators Inc PO Box 700
Perry Fla

Timber Fasteners Inc 1485 Bayshore Blvd
San Francisco Cal

Timber Products Co PO Box 1032 Med-
ford Ore

Timber Structures Inc PO Box 3782 Port-
land 8 Ore

Tinnerman Products Inc Dept 16 PO Box
6888 Cleveland 1 Ohio

Titus Mfg Corp Highway 20 W Waterloo
Iowa

Toch Bros 2600 Richmond Terrace Staten
Island 3 NY

Todays' Home Fawcett Publishing Corp
67 W 44 St New York 36 NY

Toledo Desk & Fixture Co 1020 Ford Rd
Maumee Ohio

Toledo Plate & Window Glass Co 1042
Utica St Toledo Ohio

Topcraft Inc 4207 Menlo Dr Baltimore
15 Md

Toridheet Div Cleveland Steel Products
Corp 16025 Brookpark Rd Cleveland
35 Ohio

Tork Time Controls Inc 15 Grove St
Mt Vernon NY

Toro Mfg Co 3042 Snelling Ave Minne-
apolis 6 Minn

Touch Plate Mfg Corp PO Box 1970
Long Beach 1 Cal

Tractor Div International Harvester Co
180 N Michigan Ave Chicago Ill

Trade-Wind Div Robbins & Myers Inc
7755 Paramount Pl Pico Rivera Cal

Trane Co Second & Cameron La Crosse
Wisc

Trego Industries Box 211 Red Oak Tex

Tremco Mfg Co 10701 Shaker Blvd Clevel-
and 4 Ohio

Tremont Lumber Co Joyce La

Triangle Conduit & Cable Co Inc Triangle
& Jersey Aves New Brunswick NJ

Triangle Mfg Co 708 Division St Oshkosh
Wisc

Trinco Metal Products 6304 Olive St Rd
St Louis 30 Mo

Trim Slide Inc Fulton & Potter St Farm-
ingdale LI NY

Trimview Metal Products Metal Fabric-
ating Div of W P Fuller & Co 600 N
Third St Covina Cal

Trion Inc 1000 Island Ave McKees Rock
Pa

Triplet Lumber Co Inc Box 1764 Char-
lotte NC

Triplex Heating Specialty Co Inc 252 N
Grant St Peru Ind

Troy Sunshade Co Grant St Troy Ohio

True Temper Corp 1623 Euclid Ave
Cleveland 15 Ohio

Truscon Labs Inc Grand Trunk RR Det-
roit Mich

Tubular Structures Corp of America 2960
Marsh St Los Angeles 39 Cal

Tuck-Aire Furnace Co 2045 Evans Ave
San Francisco Cal

Tucker Duck & Rubber Co 515 Garrison
Ave Ft Smith Ark

Tufcrete Co Inc 502 E Locust St Des
Moines 9 Iowa

Turn-A-Bore Equipment Co PO Box 7072
5916 E Rosedale Ft Worth Tex

Turner & Seymour Mfg Co Lawton St
Torrington Conn

Twentieth Century Paint & Varnish 456
Driggs Ave Brooklyn 11 NY

Tyee Lumber Mfg Co 765 Myrtle Ave
Seattle Wash

Tyler Arthur F Co 167 Hapgood St Athol
Mass

Typhoon Air Conditioning Co Div Hupp
Corp 505 Carroll St Brooklyn 15 NY

Typhoon Heat Pump Co Div Hupp Corp
2001 Garcia Ave Tampa Fla

U

Uhrden Inc 508 Grant St Dennison O

Underwood Corp 1 Park Ave New York
16 NY

Uni-Crest Div United Cork Foot of Cen-
tral Ave Kearney NJ

Uniflow Mfg Co 1525 E Lake Rd Erie Pa

Union Asbestos & Rubber Co 2900 W Ver-
mont Blue Island Ill

Union Carbide Plastics Co Div Union
Carbide Corp 30 E 42nd St New York
NY

Union Insulating Co PO Box 351 Park-
ersburg West Va

Union Tool Co 48 E River St Orange
Mass

Union Twist Drill Co 70 Monroe St Athol
Mass

Unique Window Balance Corp 4 Taft St
South Norwalk Conn

Unistrut Prods Co 933 Washington Blvd
Chicago 7 Ill

Unit Crane & Shovel Corp 6411 W Burn-
ham St Milwaukee 19 Wisc

Unit Structures Inc Peshtigo Wisc

United Brick & Tile Co 2800 McGee Traf-
ficway Kansas City 41 Mo

United Cork Companies Ft Central Ave
Kearny NJ

United Gilsonite Laboratories 1396 Jef-
ferson Ave Scranton 1 Pa

United Industries Inc 231 S LaSalle Chi-
cago 4 Ill

United Metal Cabinet Corp 8 E 36 St
New York NY

United States Air Compressor Co 5300
Harvard Ave Cleveland 5 Ohio

United States Air Conditioning Corp
PO Box 360 Delaware Ohio

U S Aluminum Siding Corp 11440 W Ad-
dison St Franklin Park Ill

United States Ceramic Tile Co Fourth &
Walnut Sts Canton Ohio

U S Expansion Bolt Co 500 State St
York Pa

United States Gypsum Co 300 W Adams
St Chicago 6 Ill

U S Mineral Wool Co Stanhope NJ

U S Plywood Corp California Div Shasta
Operations PO Box 1688 Redding Cal

United States Plywood Corp Mutual Ply-
wood Operations PO Box 18 Eureka
Cal

United States Plywood Corp 55 W 44 St
New York 36 NY

United States Register Co 344 E Burn-
ham St Battle Creek Mich

United States Rubber Co 1230 Sixth Ave
New York 20 NY

United States Steel Corp 525 William
Penn Pl Pittsburgh 30 Pa

United States Steel Products Div US
Steel 30 Rockefeller Plaza New York
20 NY

United Steel Fabricators Inc 333 Gasche
St Wooster Ohio

United Steel Products Co 1820 W Old
Shakopee Rd Minneapolis Minn

Universal Atlas Cement Div US Steel
Corp 100 Park Ave New York 17 NY

Universal Blower Co 1055 E Lincoln St
Birmingham Mich

Universal C I T Credit Corp 650 Madison
Ave New York 22 NY

Universal Fabricators 1785 1829 Boone
Ave New York 60 NY

Universal Fiberglass Industries 3920 N W
32 Ave Miami Fla

Universal Form Clamp Co 1238 N Kost-
ner Ave Chicago 51 Ill

Universal Mfg Co 3333 Eastshore Hwy
Richmond Cal

Universal Motor Co 517 Universal Dr
Oshkosh Wisc

Universal Plan Service 1620 S E Ankeny
St Portland 14 Ore

Universal Pulleys Co Inc 330 N Mosley
Wichita Kan

Universal-Rundle Corp Box 960 New
Castle Pa

Universal Window Co 950 Parker St
Berkeley 10 Cal

Upon Co Stevens St Lockport NY

Utica Radiator Corp 2201 Dwyer Ave
Utica 2 NY

Utility Body Co 1530 Wood St Oakland
7 Cal

V

Valley Metal Prods Co Bridge St Plain-
well Mich

Valspar Corp 200 Sayre St Rockford Ill

Van Packer Co Div Flintkote Co 1232
McKinney Ave Chicago Heights Ill

Vance Industries Inc 7401 W Wilson Ave
Chicago Ill

Vancouver Plywood Co 1010 Washington
Vancouver Wash

Vaughan & Bushnell Mfg Co 135 S La-
Salle Chicago 3 Ill

Veach-May-Wilson Inc 1199 Wright Rd
Alcoa Tenn

Vega Industries Inc Syracuse 5 NY

Velsicol Chemical Corp 330 E Grand Ave
Chicago 11 Ill

Vent-A-Hood Co 1907 Plantation Rd
Dallas 35 Tex

Vento Steel Products Co Inc 250 Colo-
rado Ave Buffalo 15 NY

Ventrola Mfg Co 501 S Chestnut St
Owosso Mich

Vermeer Mfg Co 1448 W Washington
Pella Iowa

Vermiculite-Northwest Inc 2107 N 34th
Seattle Wash

Vermont Marble Co Proctor Vt

Vernco Corp Columbus Ind

Versa Products Co Lodi Ohio

Vestal Mfg Co PO Box 152 Sweetwater
Tenn

Vibro Plus Prods Inc Stanhope NJ

Victaulic Co of America 835 Lehigh Ave
Union NJ

Victor Adding Machine Co 3900 N Rock-
well St Chicago Ill

Victor Inc 15 Maple Ave Paoli Pa

Victor Prods Corp 901 Pope Ave Hagers-
town Md

Victor Tool & Machine Corp 1207 Ann
St St Joseph Mich

Viking Mfg Corp 1747 Chester Ave
Cleveland 14 Ohio

Vikon Tile Corp Washington NJ

Vinyl Plastics Inc 1825 W Erie Ave She-
boygan Wisc

Virden John C Co 6009-6103 Longfellow
Ave Cleveland 3 Ohio

Virginia Glass Products Corp Martins-
ville Va

Virginia Metal Products Inc Dept A 44
Orange Va

Virginia Oak Flooring Co Inc PO Box
969 Pulaski Va

Visador Co 940 Visador Rd Jasper Tex

Visking Co 6733 W 65 St Chicago Ill

Vita-Var Corp 10 Commerce Ct Newark
NJ

Volkswagon of America Inc 476 Hudson
Terrace Englewood Cliffs NJ

Voss Washer Co Kellogg Iowa

Vulcan Electric Co 88 Holten St Danvers
Mass

Vulcan Metal Prods Inc 2801 Sixth Ave
S Birmingham Ala

Vulcan Radiator Co 775 Capitol Ave
Hartford Conn

W

W M Products Co PO Box 631 Henderson
Tex

Wabash Screen Door Co 310 S Michigan
Ave Chicago 4 Ill

Wacowall Div Waco-Porter Corp 3545 Wooddale Ave Minneapolis 16 Minn
 Wagner Iron Works 1905 S First St Milwaukee 1 Wisc
 Wagner Mfg Co 122 W First St Cedar Falls Iowa
 Wahlstrom Bros 273 W Alameda Ave Burbank Cal
 Wakefield Co Vermillion Ohio
 Waldorf Heater Co 1421 Chestnut St Philadelphia 2 Pa
 Wall Plugs Inc 8347 S Racine Chicago Ill
 Wallace J D Co Inc Warsaw Ind
 Wallace Mfg Co 10th & Fayette N Kansas City Mo
 Wallboard Tool & Equipment Co 1708 Seabright Ave Long Beach Cal
 Walton Laboratories Inc 1186 Grove St Irvington 11 NJ
 Walters Mfg Co 140 Pennsylvania Allegheny City Oakmont Pa
 Ware Aluminum Windows Inc 3700 N W 25 St Miami Fla
 Warp Brothers 1100 N Cicero St Chicago Ill
 Warren-Knight Co 136 N Twelfth St Philadelphia 7 Pa
 Warren Shade Co Inc 2907 E Hennepin Ave Minneapolis Minn
 Warren Tool Corp PO Box 791 Warren Ohio
 Wasco Products Inc Bay State Rd Cambridge 38 Mass
 Washburn Co 28 Union St Worcester Mass
 Washington Steel Prods 1940 E Eleventh St Tacoma 2 Wash
 Waste King Corp 3300 East 50 St Los Angeles 58 Cal
 Watco-Dennis Corp 1756 22nd St Santa Monica Cal
 Waterfilm Boilers 154 Ogden Ave Jersey City NJ
 Waterloo Register Co Inc PO Box 147 Waterloo Iowa
 Watsontown Brick Co Watsontown Pa
 Waukesha Motor Co St Paul Ave Waukesha Wisc
 Wausau Metals Corp Wausau Wisc
 Waylite Co 20 N Wacker Dr Chicago 6 Ill
 Wayne Home Equipment Co Inc 801 Glasgow Ave Fort Wayne 4 Ind
 Weather Seal Inc 324 Wooster Rd Barberton Ohio
 Weatherbest Corp 966 Oliver St N Tonawanda NY
 Weather-Bloc Co Inc 3718 N Southport Ave Chicago 13 Ill
 Weatherproof Products Corp Waldo Station Box 8498 Kansas City 14 Mo
 Weber Showcase & Fixture Co PO Box 11065 Kearney Sta Los Angeles 11 Cal
 Weber Veneer & Plywood Co Shawano Wisc
 Webster Electric Co 1900 Clark St Racine Wisc
 Wedgwood-Holly Appliance Co 8536 Hays St Culver City Cal
 Well-McLain Co Blaine St Michigan City Ind
 Well Pump Co 1530 N Fremont St Chicago 22 Ill
 Wells Henry Mfg Co 941 Oak St Elkhart Ind
 Weiser Co 4100 Ardmore Ave South Gate Cal
 Welskittel Co Inc 4901 Pulaski Hwy Baltimore 24 Md
 Wettsmuller Johnny Cinema Pools 1314 Clay St Oakland Cal
 Wel-Bilt Products Co 917 Farnsworth Bldg Memphis 1 Tenn
 Welbilt Air Conditioning & Heating Corp Farmingdale NJ
 Welbilt Stove Co 57-18 Flushing Ave Maspeth NY
 Wells Aluminum Corp N Liberty Ind
 Wells J W Lumber Co 2231 Tenth St Menominee Mich
 Wells Mfg Corp 1530 Service Rd Three Rivers Mich
 Wen Products Inc 5806 N W Hwy Chicago 31 Ill
 Wenzel Tile Co Klagg Ave Trenton NJ
 Werner B D Co Inc Greenville Pa
 Wesix Electric Heater Co 390 First St San Francisco Cal
 Wemels Co 1625 E Euclid Ave Detroit 11 Mich
 West Allis Concrete Prods Co 8704 W Schlinger Milwaukee Wisc
 West Beatrice Color Inc 333 East 46 St New York 17 NY

West Virginia Brick Co PO Box 1071 Charleston W Va
 Western Lock Mfg Co 2075 Belgrave Huntington Pk Cal
 Western Metal Specialty Div Western Ind Inc 1211 N 62 St Milwaukee 13 Wisc
 Western States Stone Co PO Box 466 Santa Clara Cal
 Westinghouse Electric Appliance Div 246 E Fourth St Mansfield Ohio
 Westinghouse Electric Corp PO Box 2778 Pittsburgh Pa
 Westwind Mfg Co Inc 114 S Alaskan Way Seattle Wash
 Weyerhaeuser Co Lumber & Plywood Div Tacoma Bldg Tacoma 1 Wash
 Weyerhaeuser Co Silvatek Div Tacoma Bldg Tacoma 1 Wash
 Weyerhaeuser Co Roddis Div Marshfield Wisc
 Wheeling Corrugating Co 1134 Market St Wheeling W Va
 Wheeling Steel Corp 1134-1140 Market St Wheeling W Va
 Whirlpool Corp Administration Bldg US 31 St Joseph Mich
 White Creek Shingle Co Rockport Wash
 White Motor Co 842 E 79 St Cleveland 1 Ohio
 White Pine Sash Co E 4005 Broadway Spokane Wash
 White Products Corp 98 E Main St Middleville Mich
 White-Rodgers Co 9797 Reavis Rd St Louis 23 Mo
 Whiteman Mfg Co 13020 Pierce Ave Palmdale Los Angeles Cal
 Whitney Baxter D & Son Inc 507 Jackson Box 3428 Greensboro NC
 Whitney Vincent Co PO Box 335 Sausalito Cal
 Whizzer Industries Inc 350 S Sanford St Pontiac Mich
 Wickwire Bros Inc 189 Main St Cortland NY
 Wiegand Edwin L Co 7500 Thomas Blvd Pittsburgh 8 Pa
 Wilbur & Williams Co 650 Pleasant St Norwood Mass
 Wilcolator Co 1001 Newark Ave Elizabeth NJ
 Wiley E & W Inc 119 Dearborn St Buffalo 7 NY
 Wilke Metal Products Inc 1117 Drott St Schofield Wisc
 Willamette Valley Lumber Co Box 5 Dallas Ore
 Will-Burt Co Orrville Ohio
 Williams J L & Sons Sheridan Ark
 Williams Oil-O-Matic Heating Co Div National Union Electric Corp 851 W Third Ave Columbus 3 Ohio
 Williams Products Inc 1536 Grant St Elkhart Ind
 Williamson Co 3500 Madison Rd Cincinnati 9 Ohio
 Willingham-Little Stone Div Georgia Marble Co 422 Fulton Federal Bldg Atlanta 3 Ga
 Willis Lumber Co Inc PO Box 359 Bainbridge Ga
 Willits Redwood Products Co Box 608 Willits Cal
 Willys Motors Inc 940 N Cove Blvd Toledo 1 Ohio
 Wilson Grant Inc 141 W Jackson Blvd Chicago 4 Ill
 Wilson J G Corp Box 599 Norfolk 1 Va
 Wincharger Corp East Seventh & Division Sts Sioux City Iowa
 Windalume Corp Rt 46 Kenvil NJ
 Winfield Door Corp PO Lindenhurst LI NY
 Winpower Mfg Co 1225 First Ave Newton Iowa
 Winsullite Mfg Co 725 N Central Ave Baltimore 2 Md
 Winter Seal Corp 14575 Meyers Rd Detroit 27 Mich
 Winton Lumber Sales Co 3100 W Lake St Minneapolis 2 Minn
 Wiremold Co Hartford 10 Conn
 Wisco Inc 4015 Michigan Ave Detroit 10 Mich
 Wisconsin Clock Co Inc 921 S Second St Milwaukee Wisc
 Wisconsin Door Co 12550 Merriman Rd Livonia Mich
 Witch Marketing Co PO Box 249 Perry Okla

Witte Engine Works Oil Well Supply Div U S Steel Corp 1600 Oakland Ave Kansas City 26 Mo
 Wodack Electric Tool Corp 4627 W Huron St Chicago 44 Ill
 Wolfe Products Inc 71 Elinor Ave Akron 5 Ohio
 Wolverine Porcelain Enameling Co 3350 Scotten Ave Detroit 10 Mich
 Wolverine Tube Div of Calumet & Hecla Inc 17200 Southfield Rd Allen Park Mich
 Wood Conversion Co 1st Natl Bank Bldg St Paul 1 Minn
 Wood John Co Heater & Tank Div 100 Washington St Conshohocken Pa
 Wood Metal Industries Kreamer Pa
 Wood-Mosaic Corp Parkway Div 5000 Crittenden Dr Louisville Ky
 Wood Shovel & Tool Co Box 818 Piqua Ohio
 Wood Specialty Products Inc 24300 W 60 St Mountlake Terrace Wash
 Wood Treating Chemicals Co 5137 Southwest Ave St Louis 10 Mo
 Woodall Industries Inc 3500 Oakton Ave Skokie Ill
 Woodco Corp 34th St & Plank Rd N Bergen NJ
 Woodmack Products Inc 1080 N Eleventh St San Jose 12 Cal
 Woodside Engineering Co 9208 Grand Ave Franklin Pk Ill
 Woodward Lee L Sons 317 Elm St Owosso Mich
 Woodward Lumber Co Joseph Vance Bldg Seattle 1 Wash
 Woolery Stone Co Inc PO Box 40 Bloomington Ind
 Wooster Products Inc Spruce St Wooster Ohio
 Wooster Sealkote Co Wooster Ohio
 Worthington Corp Harrison NJ
 Wright Prods Inc St Paul Park Minn
 Wurdaek Chemical Co 4977 Fyler Ave St Louis 9 Mo
 Wyandotte Chemicals Corp Biddle Ave Wyandotte Mich

X

X-Pando Corp 43-15 36th St Long Island City 1 NY

Y

Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Philadelphia 15 Pa
 Yale & Towne Mfg Co Yale Lock & Hardware Div 11 S Broadway White Plains NY
 Yankee Hill Brick Mfg Co RFD 1 Lincoln 8 Neb
 Yates-American Machine Co 729 Fourth St Beloit Wisc
 Yawkey Bissell Hardwood Flooring Co White Lake Wisc
 Yeck Mfg Co 579 Tecumseh St Dundee Mich
 Yenkin-Majestic Paint Corp E Fifth Ave at Leonard Ave Columbus Ohio
 Yeomans Bros Co 1999 N Ruby St Melrose Park Ill
 York Corp Sub Berg-Warner Grantley Rd York Pa
 York-Shipley Inc Jessop & PRR York Pa
 York Wall Paper Co 750 Linden Ave York Pa
 Young L A Spring & Wire Corp 498 Lehman Ave Bowling Green Ohio
 Young Radiator Co 709 S Marquette St Racine Wisc
 Youngblood Lumber Co 1335 Central Ave Minn 13 Minn
 Youngstown Kitchens Warren Ohio
 Youngtown Mfg Inc 60-66 S Prospect Youngtown Ohio
 Youngtown Sheet & Tube Co PO Box 900 Youngstown 1 Ohio

Z

Zegers Inc 8090 S Chicago Ave Chicago 17 Ill
 Zenith Metal Products Co Primos Pa
 Zink John Co 4401 S Peoria Tulsa 5 Okla
 Zinsser William & Co Inc 319 North Western Ave Chicago Ill
 Zonolite Co 135 LaSalle St Chicago 3 Ill
 Zoss Lader & Mfg Co 4901 S W Macadam Ave PO Box 808 Portland 7 Ore
 Zurn Industries Inc Hydromechanics Div 1881 Pittsburgh Ave Erie Pa

HOME MANUFACTURERS DIRECTORY

In this section, prefab manufacturers are listed by state, alphabetically. For more information or literature, turn to the reply card on page 11 and circle the matching numbers.

Alabama

KINGSBERRY HOMES CORP., Fort Payne, Ala.

Firm distributes in 350 mi. radius. Has 65 basic plans. Sells through builders at prices from \$2,051 to \$8,673 f.o.b. Delivers in 14 days. Offers own financing plans.

District of Columbia

BARBER & ROSS CO., 2323 Fourth St., N.E., Washington, D.C.

Firm distributes in four states. Has seven basic plans. Sells through dealers or to builders at prices from \$2,390 to \$8,000 f.o.b. Delivers in ten days. Offers various financing methods. Catalog describes package which includes basic materials, blueprints, foundation and erection plans.

Circle No. 358 on reply card, p. 11

Florida

PANELFAB PRODUCTS, INC., 2000 N.E. 146 St., North Miami, Fla.

Firm distributes nationally, has "no limit" on number of basic plans. Sells through builders and dealers at prices from \$2,000 to \$15,000 f.o.b. Delivers in 30 days. Catalog describes modular panelized cottages, houses and buildings.

Circle No. 359 on reply card, p. 11

Georgia

KNOX HOMES CORP., 125 Fulton Federal Bldg., Atlanta, Ga.

Firm has 30 basic plans. Sells through franchised builders at prices from \$3,750 to \$6,000 f.o.b. Delivers in two weeks. Offers own financing plan. Literature consists of sheets that show designs by number with floor plans on reverse side.

Circle No. 360 on reply card, p. 11

Illinois

W. G. BEST HOMES CORP., U.S. Route 45 S., Effingham, Ill.

Firm distributes in 350 mi. radius. Has 30 basic plans. Sells through franchised builder-dealers at prices from \$2,500 to \$7,000 f.o.b. Delivers in 10 days. Offers financing through subsidiary mortgage firm. Eleven-page catalog of floor plans and elevations is available.

Circle No. 361 on reply card, p. 11

CMC HOMES INC., 6306 N. Cicero Ave., Chicago, Ill.

Firm distributes in 1,500 mi. radius. Has 52 basic plans. Sells to builders at prices from \$2,700 to \$5,900 f.o.b. Delivers in "a few days." Uses conventional financing. Catalogs are available for a wide variety of house plans.

Circle No. 362 on reply card, p. 11

CRAFT WAY INC., 850 Rathbone Avenue, Aurora, Ill.

Firm distributes in 300 mi. radius. Has 18 basic plans. Sells through dealers or to builders at prices from \$2,800 to \$8,000 f.o.b. Delivers in ten days. Offers own financing plan. Photos and floor plans of most popular models are available.

THURO BILT HOMES, Thuro Bilt Products, Inc., Fairbury, Ill.

Firm distributes in 350 mi. radius, has 25 basic plans. Sells to builders at prices ranging from \$1,900 to \$12,000 f.o.b. Delivers in 10 to 14 days. Financing assistance

includes land acquisition, development money, and construction. Catalog gives complete information.

Indiana

ALLEN INDUSTRIES, INC., P.O. Box 2497, Station C, Fort Wayne, Ind.

Firm distributes in 350 mi. radius, has 27 basic plans. Sells through builders at prices from \$1,960 to \$8,000 f.o.b. and delivers in seven days. Thick catalog made available only after interview.

COLPAERT HOMES, INC., 445 N. Sheridan, South Bend 19, Ind.

Firm distributes in 150 mi. radius, has 14 basic plans. Sells to franchised builder-dealers at prices from \$2,100 to \$3,500 f.o.b. Delivers in 14 days. Offers financing through acceptance firm. Complete literature kit is available.

GENERAL HOMES, DIVISION OF GENERAL INDUSTRIES, INC., 3035 Wayne Terrace, Fort Wayne, Ind.

Firm distributes in 450 mi. radius. Has 10 basic plans. Sells through dealers at prices from \$4,550 to \$5,240 f.o.b. Delivers in 14 days. Offers own financing plan. Literature describes package of stressed skin construction as totally prefabricated, gives variety of styles, elevations.

Circle No. 363 on reply card, p. 11

KAHLER-CRAFT HOMES CORP., Lafayette, Ind.

Firm distributes in 1,000 mi. radius, has great variety of floor plans. Sells through franchised dealers at prices from \$3,500 to \$5,000 f.o.b. Delivers in ten days. Offers "customer participation" financing plan. Literature is available.

Circle No. 364 on reply card, p. 11

NATIONAL HOMES CORP., Lafayette, Ind.

Firm distributes nationally, has 186 basic plans. Sells through builder-dealers at prices from \$2,750 up, f.o.b. Delivers after 11 days for processing order. Offers own financing plan. Literature describes basic package of exterior and interior panels, roof trusses, gable ends and other primary components.

Circle No. 365 on reply card, p. 11

NEW CENTURY HOMES, INC., P.O. Box 825, Lafayette, Ind.

Firm distributes in seven states, and has seven basic plans. Sells through dealers at prices from \$2,500 to \$4,500 f.o.b. Delivers 10 days after order. Offers conventional financing methods. Catalog shows models in color, floor plans, design variations. Sheet describes parts of house package.

Circle No. 366 on reply card, p. 11

PLACE HOMES, INC., 1212 S. Walnut St., South Bend 21, Ind.

Firm distributes in 600 mi. radius, has 11 basic plans. Sells through franchised builder-dealers at prices from \$2,225 to \$4,813 f.o.b. Offers financing through own acceptance firm. Separate literature on 11 series of homes is available.

Circle No. 367 on reply card, p. 11

RICHMOND HOMES, INC., N.W. "L" & Sheridan Sts., Richmond, Ind.

Firm distributes in 500 mi. radius. Has 40 basic plans. Sells through franchised dealers at prices from \$2,500 to \$4,565 f.o.b. Delivers in eight days. Offers own financing plan. Literature features floor

plan, most popular elevation and cost-cutting features of each model.

Circle No. 368 on reply card, p. 11

ROYAL HOMES, INC., 1140 Hayden St., Fort Wayne, Ind.

Firm distributes in 300 mi. radius, has 15 basic plans. Sells to builders only at prices from \$3,000 to \$9,000 f.o.b. Delivers in one week. Offers own package and construction financing plan.

Circle No. 369 on reply card, p. 11

Iowa

KOZY MFG. CO., Exira, Iowa

Firm distributes in 450 mi. radius. Has 45 basic plans. Sells through dealers or to builders at prices from \$3,000 to \$15,000 f.o.b. Delivers in two weeks. Offers financing source. Literature is available.

Kansas

STANDARD HOMES DIVISION, R. L. Sweet Lumber Co., 4500 Roe Blvd., Kansas City 3, Kan.

Firm distributes in 500 mi. area. Has 11 basic plans. Sells to builders at prices from \$3,000 to \$7,000 f.o.b. Delivers in 14 days. Uses regular financing channels. Four-color, 80-page catalog available.

Louisiana

CRAWFORD CORPORATION, 7111 Florida Blvd. (Drawer 2551), Baton Rouge, La.

Distributes in 500 mi. radius. Firm has 27 basic plans. Sells through franchised builders at prices from \$1,999 to \$9,995 f.o.b. Delivers ten days after receipt of order. Offers interim and permanent financing. Six-volume library available to franchised builders on loan basis.

Maine

MORGAN C. ELMER, INC., Rockland, Maine.

Firm distributes in 500 mi. radius. Has custom fabrication to any plan. Sells through dealers and to builders at prices from \$2,000 to \$7,000, f.o.b. Delivers in two weeks. Literature is available on package containing complete exterior, except roof shingles, and interior studded panels only.

Maryland

GOLDEN KEY HOMES INC., Howard County, Annapolis Junction, Md.

Firm distributes in 350 mi. radius. Has 12 basic plans. Sells at prices from \$2,000 to \$10,000 f.o.b. Delivers in two to three weeks. Uses regular financing channels.

MARYLAND HOUSING CORP., 5715 Southwestern Blvd., Baltimore 27, Md.

Firm distributes in 150 mi. radius. Has 12 basic plans. Sells to builders at prices from \$1,900 to \$6,000 f.o.b. Delivers in ten to 30 days. Uses regular financing. Catalog gives floor plans, drawings, a look at all models. Basic package consists of pre-cut floor assembly, sheathed exterior panels, roof trusses.

PRECISION QUALITY BUILT HOMES, INC., Milford Mill Rd. & W. Md. R.R., Baltimore, Md.

Firm distributes in 200 mi. radius. Has

100 basic plans. Sells through dealers or to builders at prices from \$2,175 to \$8,750 f.o.b. Delivers in about three weeks. Uses regular financing methods. Catalog sheets, punched for a looseleaf, give floor plans, drawings, elevations, features of each model.

Massachusetts

ASSEMBLED HOMES, INC., 40 Holton St., Winchester, Mass.

Firm distributes in 300 mi. radius. Has 20 basic plans. Sells through dealers and builders at prices from \$2,300 to \$5,800 f.o.b. Delivers in ten days. Offers interim financing. Color brochure and cost analysis sheets of finished house are available.

FRANKLIN HOMES, INC., 65 Dean St., Franklin, Mass.

Firm distributes in New England states. Has 25 basic plans. Sells through dealers or to builders at prices from \$1,700 to \$7,000 up, f.o.b. Delivers in three weeks. Bank does financing. Literature is available on package that consists of pre-cut and pre-assembled joists and sub flooring, roof trusses, gables and interior partitions, etc.

Circle No. 370 on reply card, p. 11

HODGSON HOUSES, INC., Dover, Mass.

Firm distributes in 350 mi. radius. Has 26 basic plans. Sells to builders or through dealers at prices from \$3,000 to \$9,000 f.o.b. Delivers in two weeks. Financing is done through bank assignment. Catalog contains sheets which illustrate design variations of model, give floor plans and check list of optional items.

Circle No. 371 on reply card, p. 11

PRE-BILT CONSTRUCTION CO., INC., 585 State Rd., Rt. 6, N. Dartmouth, Mass.

Firm distributes in 200 mi. radius, has 30 basic plans. Sells through dealers at prices from \$2,500 to \$10,000 f.o.b. Delivers in 15 days. Literature is available on package which consists of room-size exterior panels complete with siding.

TECHBUILT, INC., 127 Mt. Auburn St., Cambridge, Mass.

Firm distributes east of Mississippi river. Has 19 basic plans plus unlimited number of component variations. Sells through dealers and builders at prices from \$1,980 to \$11,450 f.o.b. Delivers in 21 days. Literature includes consumer brochure, reprinted articles, technical manual.

Circle No. 372 on reply card, p. 11

Michigan

ALADDIN COMPANY, 212 Davidson Bldg. Bay City, Mich.

Firm distributes nationally, has 115 basic plans. Sells to individuals at prices from \$3,000 to \$8,000 f.o.b. Delivers in ten days. Catalog describes package that features everything from foundation up, except plumbing, heating, lighting. Color drawings, floor plans, a look at many models.

GUERDON INDUSTRIES, INC., Van Dyke Rd., Marlette, Mich.

Firm distributes nationally, has eight basic plans. Sells at \$7,490 f.o.b. all plants. Delivers in ten days. Offers interim financing only. Brochure is available on request.

Circle No. 373 on reply card, p. 11

LIBERTY READY-CUT HOMES, 1012 Lafayette Ave., Bay City, Mich.

Firm distributes nationally, including Alaska. Sells to builders at prices from \$3,000 up, f.o.b. Delivers in 10 to 12 days. Uses local financing. Catalogs describe package of ready-cut materials, exclusive of masonry, heating, lighting, plumbing.

LYTLE MODERN HOMES, INC., 7742 Greenfield, Dearborn, Mich.

Firm distributes in 300 mi. radius. Has ten basic plans. Sells to builders at prices from \$2,200 to \$6,000 f.o.b. Delivers in two weeks. Assists in obtaining financing. Catalog sheets show models in color, floor plans, special features.

MANUFACTURED HOMES INC., 330 S. Kalamazoo Ave., Marshall, Mich.

Firm distributes in 500 mi. radius. Has 70 basic plans. Sells through dealers or to builders at prices from \$1,200 to \$10,000 f.o.b. Delivers in seven days. Offers own financing plan. Catalog shows some of the models available. Firm also sells modular panels separately.

MICHIGAN LUMBER FABRICATORS, INC., 613 Fisher Bldg., Detroit, Mich.

Firm distributes in Michigan. Has 48 basic plans. Sells to builders at \$10,000 price f.o.b. Delivers in 30 days. Offers own financing plan. Literature describes package which is complete except for electrical and rough plumbing.

SEMICO INC., Box 8, Seney, Mich.

Firm distributes in 450 mi. radius. Has 54 basic plans. Sells to builders at prices from \$2,400 to \$8,300 f.o.b. Delivers in ten days. Offers own financing plan. Catalog describes package, gives floor plans, construction details.

SERVICE HOME MFG. CO., 6521 S. Division, Grand Rapids 8, Mich.

Firm distributes in two states. Has 30 basic plans. Sells through builder-dealers at prices from \$2,000 to \$15,000 f.o.b. Delivers in ten days. Offers own financing plan. Catalog includes many sheets giving drawings and floor plans.

UNIVERSAL HOMES, INC., 271 First St., Milan, Mich.

Firm distributes in six states. Has custom plans or will fabricate to builder's plans. Sells through builder-dealers. Delivers in two weeks. Catalog gives specifications, prices of basic package, and features floor plans, drawings, variety of models.

Minnesota

PACKAGE HOMES, INC., 3-Sixth Ave. South, Hopkins, Minn.

Firm distributes in 500 mi. radius. Has 97 basic plans. Sells to builders at prices from \$3,450 to \$6,800 f.o.b. Delivers in two weeks. Offers own financing plan. Literature describes package as a complete pre-cut operation.

PAGE & HILL HOMES, INC., Albert Lea, Minn.

Firm distributes in 14 states. Has 50 basic plans. Sells through dealers or to builders at prices from \$2,200 to \$8,000 f.o.b. (Free delivery up to 200 mi.) Delivers in 14 days. Offers own financing plan. Catalog shows many models, floor plans, variations, outstanding features.

Missouri

HOME BUILDING CORPORATION, 303 N. Park Ave., Sedalia, Mo.

Firm distributes in 500 mi. radius. Has ten basic plans. Sells through dealers or to builders at prices from \$5,000 to \$10,000 f.o.b. Delivers in 15 to 45 days. Catalog gives floor plans, drawings, photos of finished interiors and optional extras.

MODULAR HOMES, INC., Rt. 13, Kirkwood 22, Mo.

Firm distributes in 600 mi. radius. Has "unlimited" number of basic plans. Sells through dealers or to builders at prices from \$4,700 to \$16,000 f.o.b. Delivers in seven to 10 days. Uses regular financing methods. Catalog features photos of interiors and exteriors, drawings, floor plans.

Circle No. 374 on reply card, p. 11

WILSON HOMES, INC., Box 6037, Lambert Airport Branch, St. Louis 24, Mo.

Firm distributes in 300 mi. radius. Features 15 basic plans. Sells to builders at \$1,500 and up, f.o.b. Delivers in ten days. Catalog contains floor plans, elevations of available models.

Montana

NATIONAL LOG CONSTRUCTION CO. OF MONTANA, Box 68, Thompson Falls, Mont.

Firm distributes nationally, has 50 basic plans. Sells through builder-dealers at prices from \$900 to \$17,000 f.o.b. Delivers in ten days. Uses regular financing methods. Catalog shows many models, floor plans, elevations. Describes package as one that can be pre-cut to fit almost any plan.

Nebraska

PRODUCTION SALES CO., 2719 Washington St., Lincoln, Nebr.

Firm distributes in 500 mi. radius, has 24 basic plans. Sells through builder-dealers at prices from \$5,000 to \$7,500 f.o.b. Delivers in three weeks. Package consists of pre-cut joists and sub-floor; average room-size wall panels; roof sheathing in plywood.

New Jersey

PRESIDENTIAL HOMES, INC., Pemberton, N.J.

Firm distributes in 400 mi. radius. Has 150 basic plans. Sells through dealers or to builders at average price of \$3,900 f.o.b. Delivers in two to three weeks. Uses regular financing methods. Literature describes package of panelized vertical members, pre-cut horizontal members.

Circle No. 375 on reply card, p. 11

New York

ALLEGHANY HOMES CORP., 26 Copeland Ave., Homer, N.Y.

Firm distributes in 400 mi. radius. Has 24 basic plans. Sells through dealers or to builders at prices from \$2,100 to \$11,000 f.o.b. Delivers in 7 to 14 days. Uses regular financing. Literature describes package of 2x4 stud panels, with insulation, sheathing; roof trusses; complete floor system.

BENNETT LUMBER CORP., 190 Oliver St., North Tonawanda, N.Y.

Firm distributes in 500 mi. radius. Has about 75 basic plans. Sells through franchised representatives and to builders. Delivers in 5 to 15 days. Thick annual catalog is available on request.

BUSH HOMES, INC., Second St. & Lenox Rd., Huntington Station, L.I., N.Y.

Firm distributes in 350 mi. radius. Has 24 basic plans. Sells through builder-dealers at prices from \$1,941 to \$12,179 f.o.b. Delivers in three weeks. Uses regular financing methods. Catalog describes package of panelized sheathed walls, doors and windows installed. Drawings, floor plans of models included.

Circle No. 376 on reply card, p. 11

IVON B. FORD, INC., McDonough, N.Y.

Firm distributes in 300 mi. radius. Has 50 basic plans. Sells to builders at prices from \$3,350 to \$8,500 f.o.b. Delivers in 30 days. Uses regular financing methods. Catalog gives floor plans, drawings of models.

Circle No. 377 on reply card, p. 11

NORTHERN HOMES, INC., 10 La Cross St., Hudson Falls, N.Y.

Firm distributes in 250 mi. radius, has 45 basic plans. Sells through builder-dealers at prices from \$1,800 to \$7,000 f.o.b. Delivers in ten days. Catalog covers three lines of houses.

SEABOARD HOMES 200 Sawmill Rd., Hawthorne, N.Y.

Firm distributes coast to coast, has 20 basic plans, each with three variations. Sells through franchised salesmen and dealers at prices from \$2,690 to \$8,690. Delivers in two weeks. Model financing available through acceptance corp.

Circle No. 378 on reply card, p. 11

Ohio

DUNBAR INDUSTRIES, INC., 3810 Upton Ave., Toledo, Ohio.

Firm distributes in 400 mi. radius. Has six basic models. Sells to builders at prices from \$2,935 to \$8,275 f.o.b. Delivers in 14 days. Offers own financing plan. Literature describes package of exterior modular wall panels with sheathing, siding, insulation.

EXPAN HOMES, INC., 15411 Chatfield, Cleveland, Ohio.

Firm distributes in Ohio. Has 12 basic plans. Sells through dealers or to builders at prices from \$2,600 to \$5,200 f.o.b. Delivers in ten days. Catalog presents floor plans, drawings of many models in compact form. Check list included.

INLAND HOMES CORPORATION, 501 South College St., Piqua, Ohio.

Firm distributes in 25 states, has 24 floor plans. Sells through authorized builder-dealers at prices \$1,655 to \$6,100, f.o.b. all plants. Delivers in seven days. Financing assistance covers construction and permanent mortgage; land acquisition and development; model home and model home furniture package financing. Brochures and material specs are available for each house series.

Circle No. 379 on reply card, p. 11

METROPOLITAN HOMES, INC., 721 W. Columbia St., Springfield, Ohio.

Firm distributes in four states. Has eight basic plans. Sells to builders at prices from



\$2,100 to \$8,000 f.o.b. Uses conventional financing methods. Literature describes package of full wall panels, insulating sheathing or stressed skin panels.

MIDWEST HOUSES, INC., P.O. Box 334, Mansfield, Ohio.

Firm distributes in three states. Has 12 basic plans. Sells to builders at prices from \$2,800 to \$9,200 f.o.b. Delivers in two weeks. Offers own financing plan. Catalog describes package of complete carpentry material, rough and finish; gives floor plans, drawings, a look at all models.

Circle No. 380 on reply card, p. 11
PEASE WOODWORK CO. INC., 900 Forest Ave., Hamilton, Ohio.

Firm distributes in 400 mi. radius. Has 16 basic plans. Sells through dealers or to builders at prices from \$3,000 to \$10,000 f.o.b. Delivers in two weeks. Offers own financing plan. Catalog describes package of factory-assembled component wall panels, trusses, door and window units.

SCHOLZ HOMES, INC., 2001 N. Westwood, Toledo, Ohio.

Firm distributes nationally, has 100 basic plans. Sells through dealers or to builders at prices from \$3,000 to \$15,000 f.o.b. Delivers in two to three weeks. Uses regular financing methods. Literature elaborates on package of exterior and interior panels, roofing structure, windows.

Circle No. 381 on reply card, p. 11
THYER MFG. CORP., 2857 Wayne St., Toledo, Ohio.

Firm distributes in three states. Has 21 basic plans. Sells to builders at prices from \$2,500 to \$6,000 f.o.b. Delivers in seven days. Offers own financing plan. Literature on new Lafayette series is available.

Circle No. 382 on reply card, p. 11
WEAKLEY MANUFACTURING CO., South 26th & Buckeye, Newark, Ohio.

Firm distributes in four states. Has 12 basic plans. Sells through dealers or to builders at prices from \$2,300 to \$10,000 f.o.b. Delivers in three weeks. Literature describes package as fully fabricated, with exterior siding complete and primed, interior wall board primed.

Oklahoma

SOUTHERN MILL HOMES CO., P.O. Box 1087, Tulsa, Okla.

Firm distributes in 400 mi. radius, has 28 basic plans. Sells to builders and dealers on nonfranchise basis at prices from \$3,500 to \$8,500 f.o.b. Delivers in 14 days. Provides assistance on interim and long-term financing, and land acquisition and development "on projects of merit." Literature shows models, floor plans, specs.

Pennsylvania

ADMIRAL HOMES, INC., 149 Water St., West Newton, Pa.

Firm distributes in 300 mi. radius. Has 26 basic plans. Sells through dealers or to builders at prices from \$3,000 to \$7,800 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog presents floor plans, drawings, sizes of many models, describes methods of building.

CRESTWOOD HOMES CO., Reynolds Development, Greenville, Pa.

Firm distributes in 150 mi. radius. Has 17 basic plans, sells to builders or dealers. Package prices range from \$2,650 to \$13,000 f.o.b. Delivers in 14 days. Catalog features color photos of models, pictures of interiors, floor plans, drawings, construction methods.

FRANKLIN THRIFT HOMES, INC., P.O. Box 631, State College, Pa.

Firm distributes nationally, has 69 basic plans. Sells through dealers or to builders at prices from \$1,600 to \$15,000 f.o.b. Delivers in 15 days. Offers own financing plan. Catalog gives floor plans for 10' wide mobile models, lists optionals, specifications.

IMPERIAL HOMES CO., 140 Water St., West Newton, Pa.

Firm distributes in 300 mi. radius. Has 25 basic plans. Sells to builders and dealers. Delivers in ten days. Descriptive literature is available.

NORTHERN HOMES OF PA., INC., Fifth Ave., Chambersburg, Pa.

Firm distributes in 500 mi. radius. Has 50 basic plans. Sells through dealers or to builders at prices from \$1,500 to \$10,000 f.o.b. Delivers in 10 to 14 days. Catalog gives floor plans, color sketches, photos of models, describes package, specifications.

Circle No. 383 on reply card, p. 11
SHOWCASE HOMES, INC., subsidiary of Iron City Sash Door Co., Mansfield Ave., Pittsburgh 5, Pa.

Firm distributes in 300 mi. radius, has seven basic plans. Sells through dealers only at prices from \$3,000 to \$10,000 f.o.b. Delivers in two to three weeks. Catalog features color drawing and floor plans of models, plus sketches of millwork used for interiors.

SWIFT HOMES, INC., 1 Chicago Ave., Elizabeth, Pa.

Firm distributes in 600 mi. radius. Has 80 basic plans. Sells through distributors at prices from \$1,775 to \$5,295 f.o.b. Delivers in one day. Offers own financing plan. Literature describes package of exterior materials, subfloor and interior partitions, roof, windows, doors.

UNITED STATES STEEL HOMES DIVISION, United States Steel Corp., 525 William Penn Place, Pittsburgh 30, Pa.

Firm distributes in 450 mi. radius of New Albany, Ind. plant. Has 10 basic models, 127 floor plans. Sells through franchised dealers at \$28,000 and up, f.o.b. Delivers in ten days. Offers comprehensive financing program. Eight-page brochure on floor plan, elevations.

Circle No. 384 on reply card, p. 11

South Dakota

MIDWESTERN HOMES DIVISION, Buckingham Wood Products, 931 East North St., Box 886, Rapid City, S.D.

Firm distributes in 1,000 mi. radius, has 50 basic plans. Sells through builder-dealers at prices from \$3,995 to \$12,000 f.o.b. Delivers in ten days. Portfolio of descriptive literature is available.

Tennessee

FAIRHILL, INC., 2165 S. Latham St., Memphis 9, Tenn.

Firm distributes in 450 mi. radius. Sells to franchised builders at prices from \$1,800 to \$6,000 f.o.b., and delivers in ten days. Brochure of floor plans is available.

UNIQUE HOMES, INC., 2915 Eighth Ave., Chattanooga, Tenn.

Firm distributes in 100 mi. radius, has 80 basic plans. Sells to builders at prices from \$2,000 to \$20,000 f.o.b. Financing through local companies. Catalog includes floor plans, description of prefab system.

Texas

HOLIDAY HOUSE MANUFACTURERS CORP., P.O. Box 8097, Fort Worth 12, Tex.

Firm distributes in 400 mi. radius. Has 115 basic plans. Sells to builder-dealers and delivers in ten days. Offers construction financing. Catalog includes floor plans, elevations and specifications.

Circle No. 385 on reply card, p. 11

Virginia

CONTINENTAL HOMES, INC., P.O. Box 25, Boones Mill, Va.

Firm distributes in 350 mi. radius, has 27 basic plans. Sells through builder-dealers at prices from \$4,300 to \$14,000 f.o.b. Delivers in ten days. Offers construction and permanent financing. Catalog gives floor plans, drawings of models, color photos of houses.

LESTER BRO INC., Box 751, Martinsville, Virginia.

Firm distributes in 500 mi. radius. Has 35 basic plans. Sells through dealers. Delivers in ten days. Offers both construction and permanent financing. Catalog gives basic designs, construction briefs.

Washington

LOCTWALL CORPORATION, 16530 Hwy. 99, Lynwood, Wash.

Firm distributes in eight states. Has 25 basic plans. Sells through dealers or to builders at prices from \$4,000 to \$15,000 f.o.b. Delivers in 20 days. Uses regular financing methods. Catalog gives designs, floor plans, drawings of models.

LOXIDE STRUCTURES, 9004 S. 19th St., Tacoma, Wash.

Firm distributes to all western states. Alaska, Hawaii. Has 40 basic plans. Sells through dealers or to builders at prices from \$1,140 to \$8,990 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog lists general specifications, shows floor plan and alternate for various models.

VIRGINIA LEE HOMES, INC., Box 606, Kirkland, Wash.

Firm distributes to Northwest, Alaska, Hawaii. Has 200 basic plans. Sells through dealers or to builders at prices from \$1,800 to \$6,500 f.o.b. Delivers in 10 to 14 days. Uses regular financing methods. Catalog shows variety of model drawings, floor plans, exterior photos.

WEST COAST MILLS, 555 State St., Chehalis, Wash.

Firm distributes nationally. Has 115 basic plans. Sells through dealers or to builders at prices from \$2,000 to \$4,000 f.o.b. Delivers in ten days. Catalog details construction system, specifications, drawings and floor plans for many models.

Circle No. 386 on reply card, p. 11

West Virginia

SCOTT LUMBER CO., SCOTT HOMES DIVISION, 2313 National Rd., Elm Grove, W. Va.

Firm distributes in three states. Has 15 basic plans. Sells through dealers or to builders at prices from \$3,900 to \$7,600 f.o.b. Delivers in ten days. Catalog gives color drawings, floor plans, construction system.

Wisconsin

GREAT LAKES HOMES INC., Box D, Sheboygan Falls, Wisc.

Firm distributes in 300 mi. radius of each plant. Has about 92 basic plans. Sells through dealers at prices from \$2,795 and up, f.o.b. Delivers in 14 days. Colored brochures show floor plans of many house and multi-family designs.

Circle No. 387 on reply card, p. 11
HARNISCHFEGGER HOMES, INC., 500 N. Spring St., Port Washington, Wisc.

Firm distributes in 500 mi. radius. Has 64 basic plans. Sells through dealers or to builders. Offers own financing plan. Catalog offers floor plans, photos.

Circle No. 388 on reply card, p. 11

MARSHALL ERDMAN & ASSOCIATES, INC., 5117 University Ave., Madison, Wisc.

Firm distributes in 300 mi. radius. Has 15 basic plans. Sells through dealers at prices from \$4,000 to \$18,000 f.o.b. Delivers in 14 to 30 days. Individual catalog sheets in folder are available.

Canada

COLONIAL HOMES LTD., Box 282, West Hill, Ontario, Can.

Firm distributes in Ontario, Quebec and Maritime provinces. Has 58 basic plans. Sells through builders and dealers at prices from \$1,800 to \$10,000 f.o.b. Delivers in ten days. Offers own financing source. Thick catalog is available.

HALLIDAY CO., LTD., 551 Maple Ave., Burlington, Ontario, Can.

Firm distributes in 300 mi. radius, has 45 basic plans. Sells through franchised builders at prices from \$2,500 to \$10,000. Delivers in ten days. Offers NHA mortgage financing. Catalog gives floor plans, elevation details. Blueprints are available to contractors.

SUNNIBILT PREFAB PRODUCTS LTD., 426 Ellesmere Rd., Scarborough, Ontario, Can.

Firm distributes in 400 mi. radius, has 32 basic plans. Sells through dealers and to builders at prices from \$4,000 to \$8,000 f.o.b. Delivers in 14 to 21 days. Offers NHA financing. Brochure available.

BRAND NAMES DIRECTORY

Brand names are listed in alphabetical order, together with the names of their manufacturers. To obtain the complete name and address of a manufacturer, turn back to Section 3.

A B ARISTOCRAT Welbilt Stove
A-CE Arro Expansion Bolt
A F C Labrie Mfg Co Inc
A R B REMOVE-A-GLIDE
 A. R. B. Window Sales Co
A. R. B. FEATHER-LIFT
 A. R. B. Window Sales Co
A-LUMI-CAULK Sterling Quality
A-LUMI-GLAZE Sterling Quality
A-M WOOD PRESERVATIVE
 Marietta Paint
ABBEON Abbeon Supply Co
ABESTO CHEMICAL
TERMITE CONTROL
 Abesto Mfg Co
ABESTO FIBERATED Abesto
ABESTO LIQUID Abesto Mfg
ABESTO LUMICLAD Abesto
ABESTO PLASTER BOND
 Abesto Mfg Co
ABESTO QUICK SET
PLASTIC Abesto Mfg Co
ABESTO SEALER Abesto Mfg
ABESTO SEMI-PLASTIC
 Abesto Mfg Co
ACCOLON Armstrong Cork Co
ACCORDOFOLD American
 Accordion-Fold Doors Inc
ACE Eagle Rule Mfg Corp.
ACME Acme Appliance Mfg Co
ACME Acme National
ACOUSTIC-CELOTEX Celotex
ACOUSTICAL FIREGUARD
 Armstrong Cork
ACOUSTICAL-PENCO
 McGuffie Co
ACOUSTILITE Insulite Div
ACOUSTOLIGHT Barreled Sunlight
ACOUSSTONE U S Gypsum
ACRISATIN Seidlitz Paint
ACRYLITE Wasco Products
ACT-EASY Speakman Co
ACTANE Hedges M M Mfg
ACTINIC Pennsylvania Wire
ACTIVE QUALITY WARE
 Active Tool & Mfg Co
ACUSTI-LUMINUS CEILING
 Luminous Ceilings Inc
AD-AIRE Carter-Waters Corp
ADALOX Behr-Manning Co
ADAMANT U S Gypsum
ADAPTABEL Edwards Co Inc
ADAPTAHORN Edwards Co
ADJUST-A-BILT FIXTURES
 Masonite Corp
ADJUST-A-PITCH LOUVERS
 Leslie Welding Co Inc
ADJUSTA COLUMNS Adjusta Post Mfg
ADJUSTA-SPRAY Speakman Co
ADJUSTA POSTS Adjusta Post
ADJUSTA-HITE Chain Belt Co
ADJUSTA-WATE Chain Belt
ADJUSTITE Ives H B Co
ADJUSTO Milwaukee Faucets
ADMIRAL Fiat Metal Mfg Co
ADMIRAL General Bathroom
ADMIRAL Great Northern Mfg
ADVANCE Beaver Advance
ADVENTURER Mansfield Sanitary
AERO Crane Co
AERO-FLEX Auer Register Co
AEROFAN Emerson-Fryne Co
AEROLITH Sonneborn Chemical & Refining
AEROLUX Consolidated General Prod Inc

AEROLUX Johnson S T Co
AEROTUBE Johns-Manville
AEROWRAP Owens-Corning
AFCO American Furnace Co
AFTER-GLOW Goodrich B F
AGATINE Goodrich B F
AGITAIR Air Devices Inc
AGRASEAL Tammis Industries
AIR ACE Dotmar Industries
AIR-CRETE Jaeger Machine
AIR FOIL Titus Mfg Corp
AIR-JET General Products Co
AIR-LITE BRAND Graybeal C R & Sons
AIR-LITE FIBERGLAS Plastic Woven Prods
AIR-LITE SARAN Plastic Woven Prods
AIR-O-MATIC Williams Oil-O-Matic Heating Co
AIR PLUS Jaeger Machine Co
AIR-SPEED Louisville Cement
AIRACOUSTIC Johns-Manville
AIRCON McQuay Inc
AIRDITIONER Modine Mfg
AIRDOME Wasco Products
AIRDOME ROOF LOUVER
 Rudeen N H Co Inc
AIREFRIGERATION
COOLING Williamson Co
AIRLINE Ingersoll Prod
AIRLUME Eastern Products
AIROFLEX Auer Register Co
AIROLITE Airolite Co
AIRPATH Goodrich H F Co
AIRSTRIP Mitchell Rubber Products
AIRTRON Holly-General Co
AIRWEIGHT Newark Ladder
AJAX Ceilheat Inc
AKBAR Kinnear Mfg Co
AL SEAL Reese Metal
AL-WEL-DOOR Superior Industries
ALABASTINE Chicago Bronze
ALABAX Pass & Seymour Inc
ALCOTE Precision Weatherstrip
ALDRIN Shell Chemical Co
ALENCO Albritton Engineering
ALFOL Reflectal Corp
ALGEM Modern Swimming
ALIN CREST Aluminum Indus
ALIN TILT Aluminum Indus
ALINO Bowerston Shale Co
ALKATITE Pratt & Lambert
ALL AMERICAN Eagle Rule
ALL TUB Gerber Plumbing
ALL WALL Gerber Plumbing
ALLEGHENY STAINLESS
 Allegheny Ludlum Steel Co
ALLIGATOR GRIP Wagner Mfg Co
ALLISTER ALL-O-MATIC
 Allister Mfg Co Inc
ALLITH Allith-Prouty Inc
ALLWEATHER LOUVERS
 Rudeen N H
ALLWOOD Hines Edw Lumber
ALLOHA BRAND Smith M R
ALOXITE Carborundum Co
ALSTO Alsto Co
ALSYNITE Alsynite Div
ALTICO Alloy Tile Corp
ALUM-A-COAT Protectub
ALUM-O-TOP Chase Brass
ALUMALUN Amer Abrasive
ALUMAPORTE Orchard Bros
ALUMAROLL Orchard Bros
ALUMI-COUSTIC Cupples Products Corp
ALUMIKOTE Vita-Var Corp

ALUMILADDER Werner R D
ALUMILASTIC Parr Paint
ALUMIN-AIR Leigh Building
ALUMINUM SNAP-ON Wasco
ALUMISEAL Parr Paint
ALUNDUM Behr-Manning Co
ALUNDUM Norton Co
ALWINTITE General Bronze
AMALITE American Asbestos
AMANIZE American Asbestos
AMARLITE American Art
AMASPRO American Asbestos
AMBALLOY Byers A M Co
AMBASS-A-DOR Ambassa Dor
AMER-GLAS Amer Air Filter
AMER-PLY-WOOD Lehman Co
AMER-PLY-WOOD Southwood
AMERETTA Seaman-Andwall
AMERFLEX American Flexible
AMERICAN American Hoist
AMERICAN Tenn Coal & Iron
AMERICAN BRAND Builders Fireplace
AMERICAN CRANES American Hoist & Derrick Co
AMERICAN SOLID-CORE
 Curtis Companies Inc
AMERICAN SUPER 8
 American Floor
AMERICAN THATCH
 Ruberoid Co
AMERICANA Congoleum-Nairn
AMEROCK Amerock Corp
AMERSPUN Fabrikona Inc
AMERWOOD Lehman Co
AMERWOOD Southwood Corp
AMIDON FITTINGS Amidon Engineering
AMTICO American Biltrite
AMURSEAL Anti Hydro
AMVAD Edwards Co Inc
AMWELD Amweld Building
ANACONDA Anaconda American Brass Co
ANCHOR Allied Chemical Corp
ANCHOR Lufkin Rule Co
ANCHOR Maze W H Co
ANCHOR Merwin Mfg Co
ANCHOR-LOK Allied Chemical
ANCHORBOND Allied Chemical Corp
ANCHORFAST NAILS
 Independent Nail
ANCHORITE Wall Plugs Inc
ANCOR-EEZ Woodmack Prod
ANDROC PENTA Androc Chemical
ANDROCK Washburn Co
ANNUNCIETTE Edwards Co
ANTI-HYDRO Anti Hydro Waterproofing
ANTY-CHEK Rockcote Paint
ANYSTREAM Speakman Co
APCO Aluminum & Glass
APCO PUMP Aurora Pump
APECO American Photocopy Equipment
APRILAIRE Research Products
APSCO Assoc Plumbing Supply
AQUA-FLO Morrison Co
AQUA-SEAL Sullivan Co
AQUA-SHIELD Camp Co Inc
AQUA-VAC Modern Swimming
AQUADAM Johns-Manville
AQUAPATCH Johns-Manville
AQUASEAL General Cable Corp
AQUATHENE General Cable
AQUATHERM Circle Wire
AQUET Pennsalt Chemicals
AQULUX Johnson S T Co
ARB 400 WINDOWS
 A. R. B. Window

ARCADIA Arcadia Metal Prod
ARCADIA Cole Mfg Co
ARCADIA BRISE SOLIEL
 Arcadia Metal Products
ARCHITECT Bird & Son Inc
ARDEE Werner R D Co Inc
ARIDCLEAR Anti Hydro Waterproofing Co
ARIDSIL Anti Hydro
ARIDTITE Anti Hydro
ARIDTONE Anti Hydro
ARISLIDE Michel & Pfeffer
ARISTO Fiat Metal Mfg Co
ARISTOCRAT Ohio Stamping
ARISTOCRAT HEATING
 Cable Ceilheat Inc
ARISTOPAVE Thomas Moulding Floor
ARKANSAS SOFT PINE
 Fordyce Lumber
ARLINGTON Gerber Plumbing
ARMORPLY CHALKBOARD
 U S Plywood Corp
ARMORTOP Anti Hydro Waterproofing
ARRESTONE Armstrong Cork
ARRO-CORE Arro Expansion
ARROW-LOCK U S Gypsum Co
ARROFLUTE Arro Expansion
ARROW Copymaton Inc
ARROW Eagle Rule Mfg Corp
ARROW DELUXE Eagle Rule
ARROW-HART Arrow Hart
ARROW STAPLERS Arrow Fastener Co
ARROW SUPREME Eagle Rule
ART Crane Co
ART LINE Calder Mfg Co
ART-ROC Truscon Labs Inc
ARTRIM Superior Industries
ASBESTILE Johns-Manville
ASBESTO MASONRY
WATER REPELLENT Abesto
ASBESTOS SEMI-PLASTIC
 Abesto Mfg
ASHTONE Bloomington Limestone Corp
ASPHALCRETE Thomas Moulding Floor
ASTRAL Morphy-Richards Inc
ATHA Stanley Tools
ATLAS CEMENT Universal Atlas Cement
ATLAS COMPO FORMS
 Irvington Form & Tank Co
ATLAS SPEED FORMS
 Irvington Form & Tank Co
ATLITE Atlas Electric Prods
ATMOS-THERM Rempe Co
ATTI-C-OOLER Damp Vent
ATTIC-AIR Acme Engineering
AUDICOTE U S Gypsum Co
AUDITONE U S Gypsum Co
AURORA PUMP Aurora Pump
AUTO-BLOC Round, David
AUTO LOCK Superior Scaffold
AUTO-NAILER Auto-Nailer Co
AUTOFLO Speakman Co
AUTOMATIC HOUSEKEEPER
 Trion Inc
AUTOSHIFT Hamilton Mfg
AUTORVE Ekco Products Co
AXIAL FLO-FANS Emerson-Pryne Co
AXIAL FLOW Trade-Wind
AZPHLEX Azrock Floor Prod
AZROCK Azrock Floor Product
AZTEC Sullivan Co
AZTEK Kaiser Aluminum & Chemical Corp
B H & ROTARY Johnson S T

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B & H ANGLE-RITE
Butcher & Hart Mfg

B-K POWDER Pennsalt
Chemicals Corp

B SPINNER American Floor

BACKER BOARD Air O-Cel

BAK-R-FOAM Alasco Inc

BALANCED-FLOW Goulds
Pumps Inc

BALL-RITE Cummins Portable

BALSAM-WOOL Wood
Conversion Co

BAMA BRAND Alabama Oak
Flooring Co

BAMBOOFOLD American
Accordion-Fold

BANTAM Grant Pulley

BANTAM Remington Arms

BAR BROOK BREEZE
BUILDER Bar-Brook Mfg Co

BAR D-K Cabot Samuel Inc

BARCO DRILL Barco Mfg Co

BARCO HAMMER Barco Mfg

BARCO RAMMER Barco Mfg

BARCO VIBRA-TAMP Barco

BARCOL Barber Colman Co

BARRELED SUNLIGHT
Barreled Sunlight Paint Co

BARRERA Empress Brick Co

BARRETT-HOLT Allied
Chemical Corp Barrett Div

BASMOR-LITTLE Bastian-
Morley Co Inc

BATH MAID Kitchen Maid

BATHE-RITE Milwaukee
Stamping Co Bathe-Rite Div

BAXCO Baxter J H & Co

BAY STATE Devroe & Raynolds

BAYFLEX Bay State Abrasive

BAYLAUN-BRAND Elliott Bay

BEAM-HUGGER Round, David

BEAR Behr-Manning Co

BEAUTI-DOR Beauti-Dor Inc

BEAUTI-WOOD Lehman Co

BEAUTY BARROW Northwest
Metal Products Inc

BEAUTY-GLO Vita-Var Corp

BEAUTY QUEEN Toledo Desk

BEAUTY-TONE Vita-Var Corp

BEAUTY-CRAFT CURV LINE
Beautycraft Kitchens Div

BEAUTYKOTE Vita-Var Corp

BEAUTYLINE Andersen Corp

BEAUTYLINE Holcombs & Hoke

BEAUTYWOOD Beautycraft
Kitchens Div

BEAVER Mansfield Sanitary Inc

BEHR-LAC Behr Process Corp

BEL-AIR Leigh Building

BELAIRE Emerson-Pryne Co

BELTEVATOR Buschman E W

BEN FRANKLIN United States
Gypsum Co

BENDICK SELF-LEVELING
LADD Richbilt Mfg Co

BENDIX-FRIEZ Abbeon Supply

BENEFACOR Hess Co

BENEFIRE Bennett-Ireland Inc

BENEFORM Bennett-Ireland

BENJAMIN Thomas Industries

BENNETT BILT Bennett Mfg

BERKELEY Berkeley Aluminum

BERKITE Modern-Swimming
Pool Co Inc

BERKO UH SERIES Berko
Electric Mfg

BERMICO Brown Co

BERMIDRAIN Brown Co

BERMIGATION Brown Co

BERMISEPTIC Brown Co

BERRY DOORS Berry Door

BESTWALL Bestwall Gypsum

BETSY ROSS Carey-McFall Co

BEVIL-DEVIL Kimball Mfg Co

BG 2 Bay State Abrasive

BI-RAIL Acme Appliance Mfg

BIDDLES ELASTIC Biddle Co

BIG 44 Calder Mfg Co

BIG MUSCLE Equipment Div
Young Spring & Wire Corp

BIG 7 JALOUSIE Superior
Window

BIG TIMBER-BRAND Elliott
Bay Mill Co

BILDRITE Insulate Div

BILT-WELL Caradoc Inc

BIN-PAK Ives H B Co

BIN-VEYOR Bosworth Mfg Co

BIRGE MEDALLION Birge Co

BLACK DIAMOND Nicholson
File Co

BLACK SHIELD Allied
Chemical Corp

BLACK TEMPERED
PRESWOOD Masonite Corp

BLACKHAWK Tilley John S
Ladders Co Inc

BLAZECRETE Johns-Manville

BLEND-AIR Coleman Co Inc

BLENDTEX United States
Gypsum Co

BLO-FAN Emerson-Pryne Co

BLO-VAC Atlas Floor Surfacing

BLOC-SEAL Surfco Sales Co

BLOK-JOINT Carter-Waters

BLOK-LOK A A Wire Products

BLOK-MESH Carter-Waters

BLOK-SEAL Carter-Waters

BLP Mobile Paint Mfg Co

BLU-FLEX Millers Falls Co

BLU-MOL Millers Falls Co

BLUE-BOND Clipper Mfg Co

BLUE CIRCLE Dunkirk
Radiator Corp

BLUE FLASH Bay State

BLUE LINE Gates & Sons Inc

BLUE RIBBON Thatcher
Furnace Co

BLUE RIDGE American-Saint
Gobain Corp

BLUSH BUFFS Bowerston Shale

BNCO PARTITIONS Biersach
& Neidermeyer Co

BO PEEP Carey-McFall Co

BOL-TITE Pyramid Mouldings

BOLTA FLOOR General Tire &
Rubber Co Building Mat.

BOLTA-TOP General Tire &
Rubber Co Building Mat.

BONDACOR Air Placement
Equipment Co

BONDCRETE United States
Gypsum Co

BONDEX Reardon Co

BONDKOTE National Mfg

BONDRITE Standard Paste

BONDSTONE Emco Cement

BONDWOOD Harris Mfg Co

BONTEX Columbus Coated
Fabrics Corp

BORD-JAK Maco Corp

BOROLON Simmonds Abrasive

BOSCO Bowerston Shale Co

BOWBAY Woodco Corp

BOX-FIN Edwards Engineering

BOX SHOOK U S Plywood Corp
California Div

BREEZEMASTER Acme
Engineering

BREEZEMASTER Angel Co

BRESSLER Kol-Master Corp

BRIAR EDGE True Temper

BRIDGEPORT Bridgeport
Hardware Mfg Corp

BRIDJOINT United States
Gypsum Co

BRIGADIER General
Bathroom Products Corp

BRIGHT-GLAZE Mosaic Tile

BRIK-HITE Jeff Jones Co

BRIKSULITE Certain-Teed

BRIGGS BEAUTYWARE Briggs

BRILLIANT FIRE Ohio
Foundry & Mfg Co

BRISTOL DOOR General Doors

BRIXMENT Louisville Cement

BROADVIEW Miami Cabinet

BRONCO Woodward Lumber

BRONZALUM American
Abrasive Metals Co

BRONZELGLOW BIRCH
Scheirich H J Co

BROOKPLY Brookings Plywood

BROWN-LABEL Johnson's Wax

BROWN-X Pass & Seymour Inc

BRULE Brule Incinerator Corp

BRUSHWOOD
Congoleum-Naim Inc

BUCKEYE Gar Wood Industries

BUCKEYE Youngstown Sheet

BUDGIT Manning, Maxwell

BUILT-IN Standard Building

BUILT-UP ROOF Ther-Mo
Roof Inc

BULKBINDER Gerrarda A J

BULL DOG FLOOR CLIPS
New Monarch Machine

BULLCLAM Drott Mfg Corp

BULLDOZER Atlas Floor

BULLS EYE BLACK GLOSS
Zinsser William & Co Inc

BULLS EYE SHELLAC Zinsser
William & Co Inc

BURKAY Smith A O Corp

BURKS Decatur Pump Co

BURT FREE FLOW GRAVITY
VENTILATOR Burt Mfg Co

BURT MONITOR GRAVITY
VENTILATOR Burt Mfg Co

BURT MONOVENT Burt Mfg

BURT STANDARD GRAVITY
VENTILATOR Burt Mfg Co

BURT THERMAVENT Burt

BUSHMAN Gensco Tools

BUSTER CRABBE Cascade
Pools Corp

BUTLERIB Butler Mfg Co

BYERS 4-D Byers A M Co

BYZANTILE Mosaic Tile Co

CABLE HEAT Electromode Div

CADET Fiat Metal Mfg Co

CADET General Bathroom

CAFCO BLAZE-SHIELD U S
Mineral Wool Co

CAFCO HEAT-SHIELD U S
Mineral Wool Co

CAFCO SOUND-SHIELD U S
Mineral Wool Co

CAL CAR BATH California Car
Wash Systems Inc

CALCINATOR Calcinator Corp

CALDWELL LAVATORY
Universal-Rundle Corp

CALK-INS Rawplug Co Inc

CALK-SCREW Maze W H Co

CAM-LOCK FORMING
SYSTEM Gates & Sons Inc

CAM-TITE Ives H B Co

CAMASTIC C Cambridge Tile

CAMDEN LAVATORY
Universal-Rundle

CAMEO Shower Door Co

CAMP-O-LITE Camp Co Inc

CAMPICO National Metal Prods

CAMPCRETE Camp Co Inc

CANDYCOTE Crown Rubber

CANNON BALL Starline Inc

CANNON PLUGS Cannon
Electric Co

CANOELECTRIC Trade-Wind

CAPE CANAVERAL Gerber
Plumbing

CAPRI DOORS Capri Sales Inc

CARBI-TWIST U S Expansion

CARBOFLEX Carborundum Co

CARBOLINEUM Carbolineum

CARBOSOTA Allied Chemical

CARDENAS Evergreen States

CAREYSPUN Carey Philip

CARLSON Diston Div H K

CARLTON Carrollton Mfg Co

CARNEY BRITE-WALL Carney

CARNEY CUBE-FILL Carney

CARNEY GOLDEN FLEECE
Carney Co Inc

CAROLINA Arnold Altex
Aluminum Co

CARRARA Pittsburgh Plate

CASCADE Fiat Metal Mfg Co

CASE Case J I Co

CASEIN GLUE Borden
Chemical Co

CAT Caterpillar Tractor Co

CATALINA Amerock Corp

CATALINA SCREEN DOOR
Rudiger-Lang Co

CATERPILLAR Caterpillar
Tractor Co

CAULK-FLO PUMP Force-Flo

CAUXEAL X-Pando Corp

CAVITY-LOK A A Wire
Products Co

CECOPFRAME Ceco Steel Prods

CECONOMY Ceco Steel Prods

CECOROLL Ceco Steel Prods

CEDA-SPRAE Plexstone Corp

CEDAR GRAIN Certain-Teed

CEDARCO Giles & Kendall

CEFCO Central Foundry Co

CEIL-N-VENTOR Universal
Blower Co

CEILTILE Arrow Fastener Co

CELL-O-GLASS Arvey Corp

CELL-U-BLANKET Wood
Conversion Co

CELL-U-FORM Wood
Conversion Co

CELLU-TONE Pratt & Lambert

CELLUDECK Inland Steel Prods

CELLUFLOOR Inland Steel Prods

CELLULFTE Gilman Bros Co

CELO-ROK Celotex Corp

CELO-SEAL Celotex Corp

CELOTONE Celotex Corp

CEMENT PLUG Coddington
E D Mfg

CEMENT STONE Cleveland
Wash Tray Mfg

CEMENTICO United States
Gypsum Co

CEMENTONE Serviced Prods

CEMESTO Celotex Corp

CENCO Central Metal Strip Co

CENTRAVAC Trane Co

CENTRI-THRIFT Myers F E

CENTURY Tilley John S
Ladders Co Inc

CERAMAFLEX United States
Ceramic Tile Co

CERAMI-TAPE Straitsville
Brick Co

CERAMIDUCT Straitsville
Brick Co

CERAMIFILTER Straitsville
Brick Co

CERAMO Carey Philip Mfg

CERATILE Cambridge Tile
Mfg Co

CERCO Ceresit Corp

CERTAGLAS Certain-Teed

CERTAIN-TEED Certain-Teed

CERTATILE Pacific Tile

CERTI-SPLIT Jackson Shake

CHALLENGER Boice Crane Co

CHALLENGER Coffing Hoist

CHALLENGER Kol-Master

CHAMCO Chamberlun Co

CHAMPION Dunn W E Co

CHAMPION Heinemann Saw

CHAMPION Safe Padlock

CHAMPION Tilley John S

CHAMPION United States
Gypsum Co

CHAMPION Vento Steel

CHAMPION DEARMENT
Champion Dearment Tool Co

CHAN-L-CROS Junior-Pro
Products Co

CHANNEL-LAP Celotex Corp

CHANNELLOCK Champion
Dearment Tool Co

CHAR-B-Q Majestic Co Inc

CHARGRILL Majestic Co Inc

CHATTANOOGA Chattanooga
Royal Co

CHECK-CORD & JUNIOR
Lanebro Mfg Co

CHECKERBOARD United
States Plywood Corp

CHECKPEST Wood Treating
Chemicals Co

CHEM-O-GLAS Chemold Co

CHEM-WELD Southwestern
Plastic Pipe Co

CHEROKEE Mosaic Tile Co

CHICAGO Chicago Pottery Co

CHICOPEE Chicopee Mills Inc

CHINALINE Barreled Sunlight

CHIP-A-SAW Cenatron Ind

CHLORDANE Velsicol
Chemical Corp

CHORE BOY Incinerator
Products Co

CHROMALITE B & T Metals

CHROMALOX Wiegand
Edwin L Co

CHROME CLAD Lufkin Rule

CHROME-X Fans & Seymour

CHROME-BRITE United
Industries Inc

CHROMEDGE B & T Metals

CHROMTRIM Werner R D

CID Goulds Pumps Inc

CINCH Biddle Co

CIRCLE MOLD Circle Wire

CIRCLE SHEATH Circle Wire

CIRCLE SUPER Circle Wire

CIRCULATOR Majestic Co Inc

CIREFIN Circle Wire & Cable

CIREFIN-75 Circle Wire

CIRFLEX Circle Wire & Cable

GIRO RECESS TUB Universal-
Rundle Corp

CIRTEX Circle Wire & Cable

CIRTUBE Circle Wire & Cable

CIRTUF Circle Wire & Cable

CITATION Birge Co Inc

CLARITONE Baldwin-Ehret-
Hill I C

CLARKETTE Clark Equipment

CLARKLIFT Clark Equipment

CLAYTON LAVATORY
Universal-Rundle Corp

CLEAR-AIRE Sin-Jin Products
CLEAR-COAT American Sta-Dri Co
CLEAR-DRAIN Sin-Jin Products Co
CLEAR PANEL Unit Structures Inc
CLEAR SITE Pickett Products
CLARCUSHION Congoleum-Nairn Inc
CLEARLITE Fourco Glass Co
CLEARTOX Abesto Mfg Co
CLERESPAN Republic Steel
CLERESPAN Republic Steel Corp Truscon Div
CLIMATE CHANGER Trane
CLIMATE MASTER Hess Co
CLIPPER Bastian-Morley
CLIPPER Clark Equipment Co
CLIPPTFAST Ruberoid Co
CLOR-TABS Pennsalt Chemicals Corp
CLOROPOOL Modern Swimming Pool Co Inc
CLOS-O ROD Mirro Chrome
CLUSTER SQUARE Wood-Mosaic Corp Parkway Div
CMC Construction Machinery
CO-PLY North Pacific Plywood
COAL SUPER Williamson Co
COAT CRETE Penn Crete
COATATUB Protectub Inc
COBURN Colorado Fuel & Iron
COFAR Granco Steel Prods Co
COIL-WAL Dubuque Products
COLD GENERATOR Trane Co
COLDSHELF Barkow Aug G
COLLOPAKES Cabot Samuel
COLONEL LOGAN Logan Co
COLONIAL Birge Co Inc
COLOR-BLEND Maze W H Co
COLOR-TEX Ruberoid Co
COLORBESTOS Johns-Manville Corp
COLORCERAN Johns-Manville
COLORCRETE Luminio Co
COLORCRON Master Builders
COLORGLAZE Colorcrete Industries Inc
COLORLITH Johns-Manville Corp
COLORMIK Master Builders
COLORSOL Martin-Senour Co
COLORSPAN Mondial United
COLORUNDUM Horn A C
COLUMBIA Eagle Rule Mfg
COLUMBIA National Metal
COLUMBIA-MATTIC Columbia Mills Inc
COMBOMATIC Easy Laundry Appliances Div Murray Corp
COMBWOOD United States Plywood Corp
COMET Comet Mfg Div
COMET 2-TRACK TILT WINDOW Alumatic Corp
COMFORTLINE Crane Co
COMFORTMASTER Thatcher Furnace Co
COMFORTROL Weather Seal
COMFY Bemis Mfg Co
COMINCO U S Mineral Wool
COMMANDER Crane Co
COMMANDER Speakman Co
COMMANDO Equipment Div Young Spring & Wire Corp
COMMANDO Universal-Rundle Corp
COMMODORE Fiat Metal Mfg
COMMODORE LIGHT Wakefield Co
COMO Universal Rundle Corp
COMPO-STACK Hamilton Mfg
COMPOUND M Camp Co Inc
COMPRESS Met-Cro Specialties
CON SAW MATIC Clipper Mfg
CON-VAY-IT CONCRETE SPECIAL American Conveyor
CON-VAY-IT MODEL RB American Conveyor Co
CONCEPT 70 Congoleum-Nairn Inc
CONCRETE FORM FREDWOOD Masonite Corp
CONCRETE PLACERS Air Placement Equipment Co
CONCRETE-TERMITE BRILLS Relton Corp
CONCRETIX Elliott Paint & Varnish Co

CONDAIRE Williamson Co
CONDOR Raybestos-Manhattan Inc
CONDUIT WEATHERMASTER SYSTEM Carrier Corp
CONGOLEUM Congoleum-Nairn Inc
CONIC Hilti Rapid Fastening
CONOLITE Continental Can
CONQ-R-DUST Johnson's Wax
CONSERVO Cabot Samuel Inc
CONSO Consolidated General
CONSO WINDMASTER Consolidated General Prod
CONSWELD EDGE TRIM Consoweld Corp
CONSWELD POSTFORMING Consoweld Corp
CONSWELD TWIN TRIM Consoweld Corp
CONSWELD 6 Consoweld
CONSWELD 10 Consoweld
CONTINENTAL Continental Aluminum Prod
CONTINENTAL Wabash Screen Door Co
CONTINUOUS STRIP Robbins Flooring Co
CONTROLENS Holophane Co
CONTROLLER Silver Bells
CONVENIENT LIVING Home Planners Inc
CONVERT-TO-COOL Typhoon Air Conditioning Div
CONVEYALL Bosworth Mfg
COOKMASTER Stove Works
COOLAIR American Coolair
COP-O-TOP Chase Brass
COP-R-LOY Wheeling Steel
COP-R-NAP Osmore Wood
COP-R-TOX Mobile Paint
COPPER ARMORED SIBALKRAFT American Sinalkraft Corp
COPPER-CHAMP Ludlow Papers Div of Ludlow Corp
COPPERCRAFT Peterson Robert H Co
COPPERWELD Copperweld Steel Co Wire & Cable Div
COPPES NAPANEE KITCHENS Coppers Inc
COPR-FIBRE Forty-eight Insulations Inc
CORAL Lehman Specialty Co
CORALUX Builders Fireplace & Supply
CORALUX Johns-Manville
CORINTHIAN KOROSEAL Goodrich B F Co Flooring
CORK BRICK Dodge Cork Co
CORKTITE Meadows, W R Inc
CORLON Armstrong Cork Co
CORNER-EX Inland Steel
CORNER GUARD Casings Inc
CORNICE VENTILATOR Damp-Vent Co
COROMAT Owens-Corning Fibreglas Corp
CORONET Walters Mfg Co
CORONET SHOWER Norman W F Sheet Metal Mfg Co
CORONIZED Owens-Corning
COROTOP Owens-Corning
CORRUFORM Granco Steel
CORRULUX Johns-Manville
CORRULUX Miranco Inc Div
CORTLAND BRAND Wickwire Bros Inc
CORTLAND EMERY AGGREGATE Maguire Walter Co Inc
COSALCO Colonial Moulding
COSMOPOLITAN Congoleum-Nairn Inc
COST CUTTER New London Engineering Co
COTSWOLD Hopes Windows
COUNTER V-CAP Stylon Corp
COUNTERFLO Dravo Corp
COVENTRY Mobile Paint Mfg
COVERALL Macklanburg-Duncan Co
COVERALL Warp Brothers
COVERANGE Carey Philip
COVERANGE Miami Cabinet Div Philip Carey Mfg
CRAFTWALL PANELING Weyerhaeuser Co Roddis Div

CRE-O-TOX Cre-O-Tox Chemical Co
CRESCENT Mustee E L & Sons
CRESCENT Walters Mfg Co
CREST Lithbar Co
CRESTLINE Crestline Co
CRESTONE Reardon Co
CRESTONE Armstrong Cork Co
CRESTONE Reardon Co
CRESTWOOD Mengel Co
CRETE-FIX Horn A C
CRETEHARD American Asbestos Product Co
CREZON Crown Zellerbach
CRIBBER Maze W H Co
CRIS CROS STEEL BRIDGING Rudeen N H Co
CROSSLY SURESEAL JALOUSIE Crossly Window
CROWN Crown Rubber Co
CROWN Miller Co
CROWN BRAND Gensco Tools
CROWN CONTOUR Lustro Tile Mfg Co
CRYSTAL Allied Chemical Corp Barrett Div
CRYSTAL SILICONE Wurdack Chemical Co
CRYSTAL TIPS McQuay Inc
CRYSTOLON Behr-Manning
CRYSTOLON Norton Co
CUDO Mondial United Corp
CUISINE CENTRE Elkay Mfg
CUPRINOL Chemical Products
CURON Curtis Wright Corp
CURTIS Curtis Companies Inc
CURTIS Southern Mill & Mfg
CURTIS-ALLBRITE Curtis-Allbrite Lighting Inc
CURVFORM Schenck, William
CUSHION GRIP Bridgeport Hardware Mfg Corp
CUSHION SEAL Kesler Products Co
CUSHIONED POWER White-Rodgers Co
CUSHIONTONE Armstrong Cork Co
CUSTOM 80 Logan-Long Co
CUSTOM FOLD American Accordion-Fold Doors Inc
CUSTOM MAGIC FOLD Cloday Corp
CUSTOMLINE White-Rodgers
CYCLE-CORE New England Carbide Tool Co Inc
CYCLE-TWIST New England Carbide Tool Co Inc
DAD & LAD Dad & Lad Co
DAISY Peterson Window Corp
DAISY Wagner Mfg Co
DALL Modern Swimming Pool
DAMIT Quigley Co Inc
DAMP-COAT Wilbur & Williams
DANDIE MIXERS Koehring
DAP KWIK-SEAL Dap Inc
DARA FILM Dewey & Almy
DARACONE Dewey & Almy
DARATARD Dewey & Almy
DARAWELD Dewey & Almy
DAREX AEA Dewey & Almy
DART Copymat Inc
DASBOND Dasco Co Inc
DASCO Dasco Co Inc
DASCO TARGETHEAD Damascus Steel Products Corp
DASCREE Dasco Co Inc
DASTEX-X Dasco Co Inc
DASTITE Dasco Co Inc
DAVID ROUND Round, David
DAVID WHITE David White
DAVIS & WELLS Comet Mfg
DEBONAIR Acme National
DECOR-A-LITE Miller Co
DECORATOR Tilley John S.
DECORPANEL North Pacific
DECOTILE Mosaic Tile Co
DECRO-WALL Decro-Wall
DEEPFREEZE Amana Refrigeration Inc
DEFENDER Corbin P & F Div
DEFT WOOD FINISH Desmond Bros Paint Co
DEGLOSSER Savogran Co
DEHYDRATINE Horn A C
DEKADOOR United States Plywood Corp
DEKALEATHER United States Plywood Corp
DEKALUX United States Plywood Corp

DEKAPLY United States Plywood Corp
DEKATILE United States Plywood Corp
DELCO CONDITIONAIR Delco Appliance Div
DELCO-HEAT Delco Appliance
DELCO-MATIC Crawford Door
DELFAIR Fair D L Lumber
DELTA-SEAL Texas Vitriified
DELTAFILM Delta Co
DELTASTRAL Delta Co
DELTOX Armstrong Cork Co
DELUXE Goodyear Tire
DELUXE 300 Globe Roofing
DENCO Deniston Co
DENISON KWIK-LAY Mason City Brick & Tile
DENSULITE Insulite Div
DESMOND SIMPLEX Desmond-Stephan Mfg Co
DESPARD Pass & Seymour Inc
DESPORD Pass & Seymour Inc
DETOPAK Mondial United
DETROIT JEWEL Welbilt Stove Co
DEVIL-LEVEL Pickett Products Inc
DEVILBISS Devilbiss Co
DEVOE Devoe & Raynolds Co
DEXLOCK Dexter Lock Div
DEXTER Dexter Lock Div
DEXTRA-LITES Swivelier Co.
DIAL-O-MATIC Leigh Building Products
DIAL-SET Kol-Master Corp
DIALMATIC Dexter Lock Div
Dexter Industries
DIAMIDE Diamond Expansion Bolt Co Inc
DIAMOND Speakman Co
DIAMOND HARD Wells, J W
DIAMOND-LITE DOOR Morgan Company
DIAMOND-RIB Kaiser Aluminum & Chemical
DIAMOND T Diamond T Motor Truck
DIAVAC Chester Products Inc
DIE-CUT STRAP Gerrarda A J & Co
DIFFUSAIRE Hart & Cooley
DITCH WITCH Witch Marketing Co
DIVCO Division Lead Co
DIXIE Rich Howard B Inc
D'LUXLINE White-Rodgers Co
DO-X Schalk Chemical Co
DOLPHIN Fiat Metal Mfg Co
DOMCO Ostin, David
DOOR BOTTOMS Schlegel Mfg
DOOR CHIMES International Register Co
DOORMAN Barber Colman Co
DOORMASTER Crawford Door Co
DOORSCOPE Dooroscope Co
DOR-O-MATIC Dor-O-Matic
DOR-TITE Durkee-Atwood Co
DORFLO EZ-Way Sales Inc
DORGUARD Lockwood Hardware Mfg Co
DOSCH CUSTOM CUTTER Dosch Mfg Co
DOUBLE-DIPPED Maze W H
DOUBLE-HUNG Wisco Inc
DOUBLE-WHITE Cabot Samuel
DOUBLE X Schalk Chemical
DOUBLE XX Simmonds Abrasive Co
DOUBLELENGTH Evans Pipe
DOUGLAS CRESTLYN Douglas
DOUGLINS International Inc
DOWN FLOW McQuay Inc
DRAFTOP Roberts Co
DRAFT-O-STAT Hotstream Heater Co
DRAIN-LINE Skyline Industries Sales Inc
BRAMEX Reardon Co
DRAVO Dravo Corp
DRAWER-KIT Firpine Products Co
DREAMLINE Angel Co
DRESDEN Mansfield Sanitary
DRESSATORY Reflectotherm
DRI-CEIL Ceilheat Inc
DRI-N-TITE Horn A C
DRI-SPEEDWALL Natco Corp
DRI-VAC Robbins Flooring Co

DRIFILM Silicone Products
DRIFSTONE Baldwin-Ehret-Hill
DRILFAST ANCHORS U S
 Expansion Bolt Co
DRIVE-RITE ALUMINUM
 NAILS Independent Nail
DRY-AIRE Roper Geo D Corp
DRY-LUX Coddington & E D
DRYJOINT Standard Dry Wall
DRYLOK United Gilsonite
DRYOMATIC Abbeon Supply
DRYSEAL Reverse Copper
DU-AL-CLIP Timber
 Engineering Co
DU-O-JECT Smith & Loveless
DU RITE Scharf J H Mfg Co
DUAL-LAP Edco Products Inc
DUAL-PRIME Construction
 Machinery Co
DUAL-TONE Edco Products Inc
DUALVECTOR Kritzer Radiant
DUB-L-TITE Mobile Paint Mfg
DUCTLESS AIR PURIFIER
 Ductless Hood Co Inc
DUETTE Miami Cabinet Div
DUMPTOR Koehring Co
DUNBEAM Dunn W E Co
DUNBRIK Dunn W E Co
DUNTELE Dunn W E Co
DUO-FAST Fastener Corp
DUO-GUARD PNEUMATICS
 Bulldog Electric Products Div
DUO-JOBMASTER Ramset
 Fastening
DUO-RAP Pebeco Industries
DUO-SAFETY Duo-Safety
 Ladder Corp
DUO-TROL HEATING
 Holly-General Co
DUOCREX Horn A C
DUPLEX Congoleum-Nairn Inc
DUPLEX Johns-Manville Corp
DUPLEX United States Gypsum
DUR-ABRITE B & T Metals Co
DUR-O-PANE Warp Brothers
DURA-GLIDE Durell Products
DURA-GLIDE Zegers Inc
DURA-LAP Edco Products Inc
DURA-LOK Allied Chemical
DURA-PLUG Penn Crete Prods
DURA-SEAL Zegers Inc
DURA-WELD Penn Crete Prods
DURABILT Auer Register Co
DURACUT Bay State Abrasive
DURAFAX Horn A C
DURAFLEX Horn A C
DURALIFE DOOR Jasco
 Aluminum Products
DURAMESH Johns-Manville
DURAMIC Hanley Co
DURAPLY United States
 Plywood Corp
DURATEX United States
 Plywood Corp
DURATUB Mustee E L
DURAVAL United States
 Gypsum Co
DURELL Durell Products Inc
DURETHENE Koppers Co Inc
DUREX Chicago Spring Hinge
DUREX Richbilt Co
DURITE Behr-Manning Co
DURMO THE FINISH
 ETERNAL Seidlitz Paint
DURMOSEAL Seidlitz Paint
DURO Fiat Metal Mfg Co
DUROLITE Insulite Div
DURON United States Gypsum
DUROPIPE Sonoco Prods Co
DUSKLITE Pittsburgh Plate
DUST-STOP Owens-Corning
DUSTRONIC Radex Corp
DUTCH BOY National Lead Co
DUTCH BRAND
 Johns-Manville Corp
DUX SULATION Wilson,
 Grant, Inc
DUXBAC Logan-Long Co
DX-100L POWER ASSIST
 Hilti Rapid Fastening
DYMOBITS Milwaukee Elec
DYMODRILL Milwaukee Elec
DYMORIG Milwaukee Elec
DYNA-AIRE C & H Air
 Conditioning Co Inc
DYNAMIC True Temper Corp
DYNASTY Congoleum-Nairn
DYNO-MITE Millers Falls Co
E Z DU Imperial Color
E-Z-FLOAT ATTACHMENT
 Plastering Development
E-Z-ON Baltz Robert N Co. Inc
E-Z PATCH Sullivan Co
E-Z POST Inland Steel
E-Z POUR Inland Steel
E-Z ROLL Engineered Products
E-Z SHELVING HARDWARE
 Standard Steel Works Inc
E-Z TEX Plastering
 Development Center Inc
E-Z TEX SPRAY UNIT
 Plastering Development
E-Z TROWEL Plastering
 Development Center Inc
E-Z-WAY STAIRS EZ-Way Sales
E-ZEE LOC Woodco Corp
E-ZEELock Rockwell of
 Randolph Inc
EE-ZE-DO Berkeley Aluminum
EAGALINE Eagle Electric Mfg
EAGALOCK Eagle Electric Mfg
EAGLE PICHER Eagle-Picher
EARTHCO DOZER Earth
 Equipment Corp
EASIMOUNT Edwards Co Inc
EASTERN Rich Howard B
EASY National-Detroit Inc
EASY-CALL Music & Sound Inc
EASY-WALL Simpson Timber
EAVESEAL Tension Bros Inc
EBBTONE Johns-Manville
ECCO Ekstrom Carlson & Co
ECON-O-POST Tel-O-Post Co
ECON-O-WALL Ware
 Aluminum Windows Inc
ECON-O-WARE Ware
 Aluminum Windows Inc
ECONO-CAVITY-LOK
 A A Wire Products Co
ECONO-LOK A A Wire
ECONO-TAKEOUT Grand
 Rapids Hardware Co
ECONOCOVE Johnson Plastics
ECONOMY Economy Forms
ECONOMY Harris Mfg Co
ECONOSOFT Red Jacket Mfg
ECONOVENT Rockwell of
 Randolph Inc
EDGE GUARD Casings Inc
EFCO FORMS Economy Forms
EFFECTO Pratt & Lambert Inc
EL REY Celotex Corp
ELASTICA Standard-Toch
ELASTIGUM Allied Chemical
 Corp Barrett Div
ELASTITE Carey Philip Mfg
ELECTOFIN Berko Electric
ELECTRA-CAL Calcinator Corp
ELECTRAMIC BROILER
 Stanthony Corp
ELECTREND Electrend Prod
ELECTRI-CARS Victor Adding
ELECTRIC TRIMLINE Vulcan
 Radiator Co
ELECTRICIAN Tilley John S
ELECTRO-RAY INFRAPLO
 Electro-Ray Mfg Co
ELECTROLON Simmonds
 Abrasive Co
ELECTRONIC SERVICEMAN
 McKee Door Co
ELECTROSTRIP Bulldog
 Electric Products
ELECTRUNITE Republic Steel
 Corp Truscon Div
ELECTRUNITE Republic Steel
ELEVETTE Inclinator Co
ELGIN Elgin Softener Corp
ELMER'S GLUE-ALL Borden
 Chemical Co Div Borden Co
EMCO Emco Cement Products
EMEREL Johnson's Wax
EMERI-BOND Maguire Walter
EMERI-BRICK Maguire Walter
EMERI-CRETE FLOORING
 Maguire Walter Co Inc
EMERI-CRETE KURE Maguire
EMERI-EPOX Maguire Walter
EMERI-TOPCRETE Maguire
EMERSON IMPERIAL
 Emerson Electric Mfg Co
EMERSON PRYNE Emerson
 Electric Mfg Co
EMPIRE Empire Level Mfg Co
EMPIRE Tilley John S
EMPIRE-STONE Protective
 Products Co
EMPRESS K Empress Brick Co
ENAMELINE Ruud Mfg Co
ENCHANTE Thomas Industries
ENDURA Lustru Tile Mfg Co
ENSIGN Fiat Metal Mfg Co
ENTERITE General Cable
EQUATEMP Safety Glass Co
ES-NAIL ES-Products Inc
ESCALIFT Dover Corp.
ESKAY-LITE American
 Sisakraft Corp
ESSO Gilbert & Barker Mfg Co
ETERNIUM Allied Chemical
 Corp Barrett Div
ETLING Etling Window
EUREKALITE TROWELS
 Nicholls Mfg Co
EVANEER Evans Products Co
EVANITE Evans Products Co
EVANS Evans Rule Co
EVEN-TEMP Northwest Metal
EVER-FAST Allied Chemical
EVER-NU Goodrich B F Co
EVER-TIGHT Wagner Mfg Co
EVERDUR Anaconda American
EVERETT TRENCHER Earth
 Equipment Corp
EVERFAST Ambroid Co
EVERGLAZE Mosaic Tile Co
EVERGLEAM Goodyear Tire
EVERJET Allied Chemical Corp
EVERLAST Acme Brick Co
EVERLASTIC Acme Brick Co
EVERLASTIC Allied Chemical
EVERLOX Allied Chemical
EVERLUM US Aluminum
EVERSET Acme Brick Co
EVERTEX Mosaic Tile Co
EVERWARM HEATERS
 Everwarm Inc
EVERWEAR LOUVERS
 Ruden N H Co Inc
EX-WOOD Lehman Co
EXECUTIVE Executone Inc
EXPAND-R-STRAP
 Gerrarda A J Co
EXPEDITE Pratt & Lambert
EXTERCOTE National
 Chemical & Mfg Co
F C P LIQUID BOND Tamms
 Industries Co
F L Farley & Loetscher Mfg
F & W Flint & Walling Mfg Co
FAB-FORM Pittsburgh Steel
FABRICO Woodco Corp
FABRICOTE Wasco Products
FABRIKONA Fabrikona Inc
FABRIQUE Birge Co Inc
FABROW Fabrow Mfg Inc
FAIENTEX Mosaic Tile Co
FAIRFIELD Ekco Products Co
FALLS CITY True Temper
FAMOUS Goshen Churn
FAN-AIR Premier Furnace Co
FANAIRE Auer Register Co
FANON FONE Fanon
 Electronic Industries Inc
FANTASY Insulite Div
FANLITE Farley & Loetscher
FARLODOR Farley & Loetscher
FASCO Fasco Industries Inc
FASHION White-Rodgers Co
FASHION FAB Tedrick Bros
FASHION-FAB WARDROBES
 Evergreen States Forest Prod
FASHION PLATE Bryant
 Electrical Co
FASHIONETTE Sani-Top Inc
FASHIONFLAIR Curtis
FASHIONFOLD Hough Mfg
FASHIONWOOD Curtis
 Companies Inc
FASHION General Tire &
 Rubber Co Building Material
FASTINGE Leeds Edward & Co
FASTINGE NO-MORTISE
 Leeds Edward & Co
FASTRIP United Gilsonite
FEATHER ROD Superior
 Scaffold Co
FEATHERWEIGHT Larson
 Ladder Co
FENESTA Fenestra Inc
FENMARK Fenestra Inc
FENWALL Fenestra Inc
FERALUN American Abrasive
FERRO-FAX Horn A C
FERRORBORD Republic Steel
FERRUBRON Carbolineum
 Wood Preserving Co
FESCO BOARD Johns-Manville
FI ROK Celotex Corp
FIBERCAST Youngstown Sheet
FIBERESIN Fiberesin Plastics
FIBERGLAS Owens-Corning
FIBERLITE Insulite Div
FIBRA-TUB Cleveland Wash
 Tray Mfg Co
FIBRE FLEECE Janesville
 Cotton Mills
FIBREKOTE National Mfg
FIBRETONE Johns-Manville
FIESTA MEXICO Empress
 Brick Co Inc
50-50 PUSH OVER Allith-
 Prouty Inc
FILM-OFF Seidlitz Paint
FILMIX Selby Battersby & Co
FILON Filon Plastics Corp
FILSHIE Maze W H Co
FILTER-FLO General Electric
 Co Major Appliance Div
FILTER-PAK Sunroc Corp
FILUMA Frantz Mfg Co
FIN-AWN-WIN Arnold Altex
 Aluminum Co
FINE/LINE Slant-Fin Radiator
FINGER-STRAP Gerrarda A J
FIRE-CHEX Carey Philip Mfg
FIRE-LOCK Kaul Clay
FIRECRETE Johns-Manville
FIREHOOD Condon-King Co
FIREITE Johns-Manville
FIRESTONE VELON Plastic
 Woven Prods
FIRESTOP Bestwall Gypsum
FIRZITE US Plywood Corp
FISSURLITE Insulite Div
 Minn & Ontario Paper Co
FITS-ALL Macklanburg-Duncan
FIVE STAR Bestwall Gypsum
FIVE STAR PLANS Better
 Homes and Gardens
FIXIT National Mfg Corp
FIXT-AIRE Hart & Cooley Mfg
FLAGCRETE General Concrete
 Products Inc
FLAIR Buffalo Wallcraft Co
FLAIRWOOD Curtis
 Companies Inc
FLAME MASTER Robertshaw
 Thermostat Div
FLAME SET Robertshaw
 Thermostat Div
FLAMEX Suburban Propane
 Gas Corp
FLEETLITE Fleet of America
FLEETWOOD Crawford Door
FLEETWOOD Toledo Desk
FLETCHER Fletcher-Terry
FLEX-A-LITE Arnold Altex
 Aluminum Co
FLEX A SWITCH Metzgar
FLEX-O-GLASS Warp Bros
FLEX-O-PANE Warp Bros
FLEX-SULATION Wilson
 Grant Inc
FLEXALUM Bridgeport Brass
FLEXAZONE Drayson-Hanson
FLEXBOARD Johns-Manville
FLEXCELL Celotex Corp
FLEXI-BILT FRAME KIT
 Firpine Products Co
FLEXI DUCT TAPE Wilson
 Grant Inc
FLEXICO O'Brien Corp
FLEXICORE Flexicore Co Inc
FLEXIGUM Allied Chemical
FLEXIVENT Andersen Corp
FLEXO-SEAL Resce Metal
FLEXROLLER Hypro
 Engineering Inc
FLEXROTOR Hypro
 Engineering Inc
FLEXSCREEN Bennett-Ireland
FLEXSTONE Johns-Manville
FLEXWOOD US Plywood Corp
FLIGHT-VEVOR American
 Conveyor Co
FLINT EDGE True Temper
FLIP-SEAL Rodale Mfg Co Inc
FLITE-CHEK Ramset Fastening
FLO-MASTER Acme
 Engineering & Mfg
FLOOR-KING American Floor
FLOORLEVEL General
 Automatic Products Corp
FLOORLINE Crane Co
FLOORMASTER Atlas Floor
FLOORSTONE Tamms
 Industries Co
FLOOR-EVER Congoleum-Nairn
FLOOR-NU Coddington E D Mfg
FLOOR-PATCH American
 Asbestos Product

(Continued on page 86)

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(Continued from page 84)

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FLOW RACK Rapids-Standard
FLOW-TEMP Acme Industries
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FOAMCOTE Crown Rubber Co
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FOAMFLEX Mortell J W Co
FOAMGLAS Pittsburgh Corning
FOAMSIL Pittsburgh Corning
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FOLD-ASIDE Acme Appliance
FOLD-BACK Macklanburg-Duncan Co
FOLDET Gates Mfg Co Inc
FOLDOOR Holcomb & Hoke
FOOTHOLD Behr-Manning
FORCE-FLO Trane Co
FORDYCE ROYAL OAK Fordyce Lumber Co
FORECAST Congoleum-Nairn
FORESTONE Simpson Timber
FORGE CRAFT Penn-Akron
FORGEWELD Colson Corp
FORM FLOW Standard Register Co
FORMBINDER Gerrarda A J
FORMCO Form Co
FORMFREE Mosaic Tile Co
FORMTEX Formtex Industries
FORMTEX US Plywood Corp
FORMTY Form Co
FORUM Miraplas Tile Co
FORWAY US Expansion Bolt
FOUR A Alabama Metal Lath
FOUR POINT Wilbur & Williams Co
FOUR-IN-ONE SKID SHOVEL Drott Mfg Corp
4-SQUARE Weyerhaeuser Co Lumber & Plywood Div
4-WAY WINDOWS Farley & Loetscher Mfg Co
FPF Reese Metal Weatherstrip
FRAIM Safe Padlock & Hardware Co
FRANCISCAN-HERMOSA Gladding McBean & Co
FRANTZ Frantz Mfg Co
FRATE-GATE Gar Wood Industries, Inc.
FRE-FLO Sequoia Mfg Co
FRENCH LOCK Certain-Teed Products Corp
FRESH'ND-AIRE Corp Corp
FRICITION-MATIC Boice Crane Co
FRIGIDAIRE Frigidaire Div
FRONT END Allied Chemical
FULL-VU Leigh Building Prods
FULTEX Fulton Cotton Mills
FULTON TARPS Fulton Cotton Mills
FURLATH Inland Steel Products Co
FUSE-O-LINK Clark Door Co
FUSIONBRAZED Higbie Mfg
FUSIONWELD Higbie Mfg Co
FUTURA Beauti-Dor Inc
FUTURA Miraplas Tile Co
FUTURA Penn-Akron Corp
FYNAL-KOLOR Weatherbest
FYNAL-KOTE Creo-Dipt Co
FYRGARD Richmond Fireproof Door Co
G-B DUCT Gustin-Bacon Mfg
G & P Grinding & Polishing Mach Corp
G S D Glass Shower Door Co
GACOR WINKERS Eagle Electric Mfg Co
GALA Congoleum-Nairn Inc
GALVA-TEX Rockcote Paint
GALVA TWIST Jeffery Form Tile Co
GALVANUM Vita-Var Corp
GALVINOLEUM Rust-Oleum

GARAGE DOR-MAN Dor-O-Matic Div
GARD-N-BEAUTY Gilbert & Bennett Mfg Co
GARDENCRETE Colorcrete Industries Inc
GARLAND Welbilt Stove Co
GARNET Behr-Manning Co
GAS-O-MATIC Williams Oil-O-Matic
GAS SUPER Williamson Co
GASAVER Williamson Co
GASLITES Arkla Air Conditioning Corp
GE General Electric Co Apparatus Sales
GEE-VEE-LINE Gee Vee Line
GEM-SET Bay State Abrasive
GEMCO Moore Goodloe E Inc
GENASCO Fry Lloyd A Roofing
GENCASEAL General Cable
GENCATROL General Cable
GENERAL General Bathroom Products Corp
GENERAL General Hardware
GENERAL Great Northern Mfg
GENERAL GIBRALTAR General Plywood Corp
GENIE Alliance Mfg Co Inc
GENRALAC Sapolin Paints Inc
GENUWOOD Parkwood Laminates Inc
GEOCOUSTIC Pittsburgh Corning Corp
GER-PAK Gering Plastics Div
GETTY Getty H S & Co Inc
GIBRALTAR Fiat Metal Mfg
GILBARCO Gilbert & Barker
GILL Progress Mfg Co Inc
GLAMADOR Northern Industries Inc
GLAMOUR Farley & Loetscher
GLAS-GLAZ American Vitrifed Products Co
GLASBARS Owens-Illinois
GLASFLEX Horn A C
GLASIRON Wolverine Porcelain Enameling
GLASS-O-NET Warp Bros
GLASSHEAT Continental Radiant Glass Heating
GLASSURFACED Kirlin Co
GLASWELD US Plywood Corp
GLATEX US Gypsum Co
GLAZE COAT Johns-Manville
GLAZOL United Gilsonite Laboratories
GLAZON Triangle Conduit & Cable Co Inc
GLENDURA SOIL-PROOF WALLCOVERINGS Imperial Color Chemical
GLID-TONE Glidden Co
GLIDE Frantz Mfg Co
GLIDE-ALL Woodall Industries
GLIDE-AWAY Farley & Loetscher Mfg Co
GLIDE-O-MIR General Bathroom Products Corp
GLIDE-O-MIR Great Northern Mfg Corp
GLIDEMASTER Cox Arthur & Sons Inc
GLIDEOVER Wagner Mfg Co
GLIDER Momar Industries
GLIDEX Caldwell Mfg Co
GLIDORAMA Whizzer Ind
GLISTO Sapolin Paints Inc
GLO-FLEX Globe Paints Works
GLOBE-ALUME Globe Roofing Products Co Inc
GLOBEROID Globe Paint Works Inc
GLONAMEL Globe Paint Works Inc
GLOS-TONE Martin-Senour Co
GLYDE-WIN Arnold Altex Aluminum Co
GOLD BAK Alisco Inc
GOLD BOND National Gypsum
GOLD CROWN Pioneer Gen E Motor Corp
GOLD MEDAL Patent Scaffolding Co

**BRAND NAMES
DIRECTORY**

GOLD SEAL Dalton Mfg Co
GOLD SEAL Reese Metal Weatherstrip Co
GOLD STRAND Colorado Fuel & Iron Corp
GOLDEN LINK Kaiser Aluminum & Chemical
GOLDEN MAPLE Curtis Companies Inc
GORDON DOOR Gordon Mfg
GOSSETT Kees F D Mfg Co
GPX Georgia Pacific Corp
GRAIN-TEX Mastic Corp
GRAINGLO Puget Sound Plywood Inc
GRAND PRIZE US Gypsum Co
GRANDVIEW Miami Cabinet
GRANTEX Mosaic Tile Co
GRANITEX Truscon Labs Inc
GRANOLITH Barreled Sunlight Paint Co
GRAVEL-SPREADER Air Placement Equipment
GRAYLITE Insulite Div
GRAYS HARBOR Mackie Mill
GRAYSTONE Graystone Div
GREASEPTOR Zurn Industries
GRECIAN Insulite Div
GREEN-LABEL Johnsons Wax
GREENCON Clipper Mfg Co
GRENADIER Wakefield Co
GRI-P-LATE Sanford Gri-P-Late Co
GRIDTONE Armstrong Cork
GRIDVUE Air Vue Products
GRIFFIN Griffin Mfg Co
GRILLADIER Bennett-Ireland
GRIND-O-FLEX Merit Prods
GRIP-O-MATIC Owatonna Tool Co
GRIP-SNIP Sargent & Co
GRIP TRED Plextone Corp of America
GRIPSTAYS Maze W H Co
GRIPTAC B & T Metals Co
GRITCLOTH Bay State Abrasive Products
GUARD Columbus Coated Fabrics Corp
GUARDIAN Corbin P & F Div
GUARDIAN General Cable Corp
GUARDIAN Pittsburgh Plate Glass Co
GUIDE-O-MATIC Barrett Cravens Co
GULF STREAM Aldrich Co
GULFSpray Binswanderer Glass
GULFSTAR Binswanderer Glass Co
GUM-A-TUB Protectub Inc
GUM-BESTOS Wilson Grant Inc
GYP C DOODLE Gypsum Ceiling Jack Co
GYP C JACK Gypsum Ceiling Jack Co
GYP C PROP Gypsum Ceiling Jack Co
GYRO-SPENSER Gyro Brass Mfg Corp
H & C Hart & Cooley Mfg Co
H-D Bridgeport Brass Co
H & H Arrow Hart & Hegeman Elec Co
H-P H-P Products Inc
H & P BRAND Hassell & Parkes
HADDON HALL Wood-Mosaic Corp
HAKO PRODUCTS Hachmeister-Inc
HALSEY TAYLOR Taylor Halsey W Co
HAM-R-TOOLS Fastway Fasteners, Inc.
HAMILTON Remington Alum Window Corp
HAMMER-SETS Rawplug Co
HAN-D-POST Sawhill Tubular Products
HANDI-COIL B & T Metals Co
HANDIE TALKIE Motorola Communications & Electronics
HANDY PLASTER Coddington E D Mfg Co

(Continued on page 88)



*don't do a thing
until you see these*

FORD HOMES

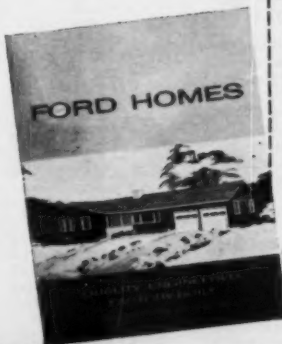
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FACT: Your prospects are interested in homes that are attractive—economical to maintain—and they want to **MOVE IN FAST**.

FACT: You and your prospects both get what you want in Ford Homes because in Ford Homes you get more factory-fabrication to help you **BUILD FAST** in all kinds of weather so prospects can **MOVE IN FAST**. Send us the information requested on the coupon and we will send you the complete story.

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 We build about _____ houses per year.
 We have about _____ approved lots

Firm Name _____

Address _____

Ask for Mr. _____

IVON R. **Ford** INC., McDonough, N.Y.



Turn to Section 3

BRAND NAMES DIRECTORY

(Continued from page 87)

HANMOLE Molco Drilling Machines Inc
 HAR-VEY American Screen Products Co
 HARCO Veach-May-Wilson Inc
 HARCO BRAND Hardwood Corp of America
 HARCOL Sonneborn Chemical & Refining
 HARD-GLOSS Johnson's Wax
 HARD-TIP Heinemann Saw
 HARDLAP Insulate Div
 HARGRAVE Cincinnati Tool Co
 HARMITONE Mosaic Tile Co
 HARRIS BRAND Harris Hardwood Co Inc
 HARTCO Tibbals Flooring Co
 HASTINGS Hastings Aluminum Products Inc
 HAWK SPREAD Ohio Lime Co
 HAWS-KRAMER Haws Drinking Faucet Co
 HAYES Gerber Plumbing Fixtures Corp
 HEAT-PAK Aldrich Co
 HEATFORM Superior Fireplace
 HEATILATOR Vega Industries
 HEATLUX Johnson S T Co
 HEATRITTE Auer Register Co
 HEETAIRES Market Electric Prods Inc
 HEF-T-POST Sawhill Tubular Products Inc Fabricating Div
 HELIX Caldwell Mfg Co
 HELYX Hillwood Mfg Co
 HERCULES Meilink Steel Safe
 HERCULES Newark Ladder & Bracket Co Inc
 HERCULES Sargent & Co
 HERCULITE Pittsburgh Plate Glass Co
 HERCULOY Revere Copper & Brass Inc
 HERCULUME Shower Door Co
 HERMAN NELSON American Air Filter
 HERMIDIFIERS Abbeon Supply
 HERMITAGE Leathers A H Mfg Co
 HERRINGBONE Merwin Mfg
 HERRINGBONE DOUBLE MESH Republic Steel Corp Truscon Div
 HEXCAST U S Expansion Bolt
 HI-BOY Airtemp Div Chrysler
 HI-CAP Rempe Co
 HI-ELECTRIC Maginnis Power Tool Co
 HI-LINE Lufkin Rule Co
 HI-LINE Weatherproof Products
 HI-LITE Farley & Loetscher Mfg Co
 HI-LITE United States Gypsum
 HI LO Peninsula Tool Co Inc
 HI & LO Utica Radiator Corp
 HI-LO Wolfe Products Inc
 HI-LOAD Independent Nail & Packing Co
 HI-RED Holub Industries Inc
 HI-SPEED Louisville Cement Co
 HI-STRENGTH Certain-Teed Products
 HICO Hico Corp of America
 HIDALIFT Turner & Seymour Mfg Co
 HIDE-A-SHELF Amerock Corp
 HIDE-A-WAY Acme National Refrigeration Co Inc
 HIDEWAY Newark Ladder & Bracket Co Inc
 HILO Frantz Mfg Co
 HILTI Hilti Rapid Fastening Systems Inc
 HOE-BOY Construction Machinery Co
 HOIST ALL Coffing Hoist Div Buff-Norton
 HOIST MASTER Smith Hoist Mfg Co
 HOL ANCHOR Hollaender
 HOLD-IT Arro Expansion Bolt
 HOLESHOOTERS Milwaukee Electric Tool
 HOLFORD Hopes Windows Inc

HOLGUN Black & Decker Mfg
 HOLIDAY Burnham Corp Heating & Cooling
 HOLIDAY Winter Seal Corp
 HOLOFLUX Holophone Co Inc
 HOME-CRETE Corson G & W H Inc
 HOMEGARD Russell & Erwin
 HOMEGARD Pal-O-Pak Insulation Co Inc
 HOMELIFT Dover Corp
 HOMELITE Homelite Div Textron Inc
 HOMES FOR LIVING INC Architectural Plan Service Inc
 HOMESHIELD Amer Screen
 HOMOFLEX Raybestos-Manhattan Inc
 HOODAIRE Hearthaire Conditioning Co
 HOPTO Badger Div Warner & Swasey Co
 HORIZON TILE Cambridge Tile Mfg Co
 HORN OF PLENTY Ajax Hardware Corp
 HORNFLX Horn A C Cos
 HOT WITCH Witch Marketing
 HOUR SEAL O'Brien Corp
 HOUSEMART Weyerhaeuser Co Roddiss Div
 HOWELL Kol-Master Corp
 HOWELL-DOR Howell Mfg
 HOWELL-TITE Howell Mfg
 HPC SOUND INSULATING DOORS Hardwood Products
 HUBBELLOCK Hubbell Harvey
 HUDEE Selck Walter E & Co
 HUDSON Tilley John S Ladders Co Inc
 HUETEX American-Saint Gobain Corp
 HUEWHITE American-Saint Gobain Corp
 HUFOR Hough Mfg Corp
 HUGADOR B & T Metals
 HUMPHREY GAS LIGHTS General Gas Light Co
 HUNT PROCESS Carter-Waters Corp
 HUSH-TONE Celotex Corp
 HUSKY Zoss Ladder & Mfg
 HV-CENTRIFUGAL Decatur Pump Co
 HYDRAPATCH Seddon Co
 HYDRASPLIT Park Tool Co
 HYDRAULIC ACTION White-Rodgers Co
 HYDRO-FLO Bell & Gossett Co
 HYDRO-LINE Skyline Industries Sales Inc
 HYDRO-PLUG Camp Co Inc
 HYDRO-TITE Slant-Fin Radiator Corp
 HYDROGUARD Powers Regulator Co
 HYDROFEL American Bitumuls & Asphalt Co
 HYDROTHERM Hydrotherm
 HYDRONOLATOR Outdoor Oven Fireplace Co
 HYPRO Hypro Engineering
 HYSTAWAY Hyater Co
 I-BEAM Farley & Loetscher Mfg
 I-XL LAVANITIES I-XL Furniture Co
 IDA-DOOR Ida Products Co
 IDA-TILT Allied Chemical
 IDA-TILT Ida Products
 IDAMATIC Ida Products
 IDEAL Extension Drawer Support Co
 IGAS Sika Chemical Corp
 ILO Independent Lock Co
 IMPERIAL Bastian-Morley
 IMPERIAL Miller Co
 IMPERIAL U S Aluminum
 IMPERIAL BLOCK MACHINES Lithibar Co
 IMPERIALITES Emerson-Imperial Lighting Co
 IMPERVO Hanley Co
 IN-A-WALL CLOCK Wisconsin Clock Co Inc

INADOR DOOR CLOSER Norton Door Closer Co
 INCLIN-ATOR Inclinator Co of America
 INCLINE TRACK King Mfg
 INCLINETTE Inclinator Co of America
 INCOR Lone Star Cement
 INDEPENDENCE Independence Oak Flooring Co
 INDUSTRIAL Miller Co
 INDUSTRIAL HIGH-TENSILE Granite City Steel Co
 INFRA-RED Emerson-Pryne Co
 INFRA-RED Insto-Gas Corp
 INLAND HI-BOND Inland Steel Co
 INLAND TI-CO Inland Steel
 INLAND TI-NAMEL Inland Steel Co
 INS-LITE Insulite Div
 INSELMUM Mastic Corp
 INSL-COTTON Taylor Bedding
 INSTANT-FIT Universal Fabricators
 INSTANT HEAT Emerson-Pryne Co
 INSTO-GAS Insto-Gas Corp
 INSUL-FIL Miracle Adhesives Corp
 INSULAYMENT BOARD Camp Co Inc
 INSULITE Insulite Div
 INSULKOTE Johns-Manville
 INSULPRENE Hubbell Harvey
 INTEGRALOCK Sargent & Co
 INTER-CALL Music & Sound
 INTER-LINK Cable Electric Products Inc
 INTERCOTE National Chemical & Mfg Co
 INTERMATIC International Register Co
 INTERNATIONAL Motor Truck Div. Internat'l Harv
 INVINCIBLE Fry Lloyd A Roofing Co
 INVINCIBLE DOOR Jacso Aluminum Products
 INVISIBLE DOR-MAN Dor-O-Matic Div
 IRON-COTE Sullivan Co
 IRONBOUND Robbins Flooring Co
 IRONRITE Ironrite Inc
 IVANHOE Miller Co
 IVORY US Gypsum Co
 IVORY-X Pass & Seymour Inc
 J-FOAM Johns-Manville Corp
 J N BRAND Cook, F C & Co
 J-M Johns-Manville Corp
 JACK FROST Allied Chemical
 JACK RABBIT Hubbell Harvey
 JACKLIFT Lewis-Shepard Products Inc
 JACKSON Gerber Plumbing Fixtures Corp
 JACKSON Vulcan Electric Co
 JACKTRACTOR Lewis-Shepard Products Inc
 JACQ Luxor Carpet Co
 JACUZZI Jacuzzi Bros Inc
 JAL ZINC Jones & Laughlin Steel Corp
 JALOUSIE Vulcan Metal Prods
 JAMB-UP Macklanburg-Duncan
 JAY BEE Kaiser Aluminum & Chemical
 JAY-LITES Jay Lighting Mfg
 JAYCANDESCENT Jay Lighting Mfg Co Inc
 JAYS ANZAC Jay Lighting Mfg Co Inc
 JAYS CORONET Jay Lighting Mfg Co Inc
 JAYS PARASOL Jay Lighting Mfg Co Inc
 JAYS VISORLITE Jay Lighting Mfg Co Inc
 JELCO Jenkins Lumber & Mfg
 JET-AGE McPherson Inc
 JET-BLASTERS Air Placement Equipment
 JET E-Z Jet Tool Inc
 JET-LINE Wilson Grant Inc
 JET LITE Wood Shovel & Tool
 JET-O-MATIC Gould Pumps
 JET ROCKET True Temper
 JET-TOWER Youngstown Kitchens

JETBLAK Ruberoid Co
 JETO Lake Shore Inc
 JEWEL Jewel Paint & Varnish
 JIFFE-PLUGS Ackerman Johnson Co
 JIFFY Angel Co
 JIFFY JACKS Superior Scaffold
 JIFFY JOINT Cannelton Sewer Pipe Co
 JIFFY-JOINT Texas Vitrifired Pipe Co
 JIFFY 2 WAY Zoss Ladder Mfg Co
 JIM DANDY True Temper
 JMJ CUTTER J M J Industries
 JOHN DAY Hines Edward Lumber Co
 JUBILEE Burnham Corp Heating & Cooling Div
 JUNIOR Weil-McLain Co
 JUNIOR BEAMS Jones & Laughlin Steel Corp
 JUNIOR CHANNELS Jones & Laughlin Steel
 K & M Keasbey & Mattison Co
 K-LITE Kessler Products Co
 K-V Knappe & Vogt Mfg Co
 K-VENIENCE Knappe & Vogt
 K/W Kaiser Aluminum & Chemical Corp
 KAAR IMP Kaar Engineering
 KAIBAB STONE Western States Stone Co
 KAISER Permanente Cement
 KAISER FIR-TEX Kaiser Gypsum Co Inc
 KAISERCOUSTIC Kaiser Gypsum Co Inc
 KALISTRON US Plywood Corp
 KALITEX US Plywood Corp
 KALOK Kaul Clay Co
 KANT-LEAK Sullivan Co
 KANT-SAG United Steel Prods
 KANT-SLAM Kant-Slam Door Check Co
 KANT-SLIP Standard Register
 KARRY KRANE Hyster Co
 KAY CEE Ductless Hood Co
 KAYTHERM Keasbey & Mattison Co
 KELCO Wells Aluminum Corp
 KELLEY BANTAM Kelley Machine Div
 KELLEY CHIEF Kelley Machine Div
 KELLEY HYDRA-TOWEL Kelley Machine Div
 KELLY PERFECT True Temper Corp
 KEMI-KAL Sullivan Co
 KENCO Kenco Mfg Co
 KENCORK Kentile Inc
 KENCORV Kentile Inc
 KENFLEX Kentile Inc
 KENFLOR Kentile Inc
 KENGRADE Kentile Inc
 KENNA-PAK Kennatrack Corp
 KENNA-RAMA Kennatrack
 KENNAFRAME Kennatrack
 KENNAGUIDE Kennatrack
 KENNALATCH Kennatrack
 KENNALATCH Kennatrack Corp
 KENNOLOY Kennatrack Corp
 KENRUBBER Kentile Inc
 KENT Speakman Co
 KENTILE Kentile Inc
 KENTUCKY COLONEL General Plywood Corp
 KEWANEE Lake Shore Inc
 Lake Shore Engineering Div
 KEX Rutland Fire Clay
 KEY-HAK Producers & Distributors Inc
 KEYBEAD Keystone Steel & Wire Co
 KEYCORNER Keystone Steel & Wire Co
 KEYDOR Dina-Pak Corp
 KEYLINE Calder Mfg Co
 KEYMESH Keystone Steel & Wire Co
 KEYNOTE Edwards Co Inc
 KEYSTONE Diamond Expansion Bolt Co Inc
 KEYSTONE Revere Copper & Brass Inc
 KEYSTONE Seneca Wire & Mfg

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SITE PLANNING

How to Select a Subdivision Site

GENERAL PREPARATIONS:

The site chosen for your houses should first fit the local home market. Determining this market demand, both as to house type and price range, population growth and housing needs, is a basic precaution, particularly if you are buying in an area where land prices are high and your investment will be costly. A good deal of this market information is available from local agencies such as your Chamber of Commerce and Planning Commission, from the FHA and U.S. Bureau of Census. Much of this type of information for specific cities has been summarized by American Builder in its series of research studies, "Markets on the Move."

Once you have decided what and for whom you are building, the choice of acreage is already narrowed down. Cost of the land, amount of grading involved, public utilities available, adjacent land use, zoning ordinances... are the next considerations. A

careful check of these factors against your original market plan and cost estimate will narrow the choice once again.

It is important to remember, too, that the FHA and other loaning agencies are extremely careful of physical environment when rating a location. To establish the stability of value and desirability of a site FHA considers: protection from adverse influences, such as industry, airports, etc.; freedom from special hazards, such as high speed traffic, fire hazards; adequacy of civic, social and commercial centers; adequacy of transportation; and general appeal.

The check list below can be used to quickly evaluate a potential subdivision site and compare it with the others under consideration. You can tear this one out of the magazine or have it copied into an office form for convenient use. You may also want to add some new check points to it to cover your local problems.

CHECK LIST:

Site
 Size Acres.....

Location Factors

Direction from city
 Class of surrounding development:
 highmedium.....low.....
 Distance from central business district
 viastreet
 Distance from major employment centers
 Public Transportation: type
 goodfair.....poor.....
 Fare to employment and center
 Travel time
 Automobile access:
 goodfair.....poor.....
 Travel time to employment and center
 Type of highway approaches:
 goodfair.....poor.....

Presence of Community Facilities

Existing shopping center or stores:
 Size and type
 Distance
 New center feasible: yes.....no.....
 Size of supporting area

Schools:
 Elementarydistance
 High Schooldistance
 Nursery Schoolsdistance

Churches:
 Number
 Denominations
 Distances

Recreations:	Name	Distance
Parks
Playgrounds
Other

Other facilities such as library, colleges, etc.

Environment Factors—Tract—Surrounding Area

Zoning
 Private Covenants
 Subdivision Regulations
 Surrounding development: kind
 goodfair.....poor.....
 Tract abuts heavily traveled thoroughfare:
 Yes No.....

Prevailing wind
 Industrial smoke: YesNo.....
 Airports:

Distance
 Relation to approaches

Airparks:
 Distance
 Relation to approaches

Site Factors

Raw Land Priceper acre. Total
 Public Water Supply Connections: yes.....no.....
 Distance and size of nearest main
 Will require—independent system
 Individual wells
 Public Sewer—connections: yes.....no.....
 Distance, size and invert of nearest main
 Will require—independent system
 Septic tanks
 Topography: hilly.....level.....rolling.....
 Elevation of site:
 Highest point.....Lowest point.....Average elevation.....
 Estimated amount of land over 8%
 Elevation with relation to existing streets:
 above gradebelow grade.....
 Heavy grading needed:
 for streetsfor lots.....
 Swamp areaspockets.....
 Type of soil
 Rock outcrop or depth of soil cap
 Heavy woodsscrub.....open.....
 Type of development indicated by check list:
 Single Family Detached
 Group
 Row
 Garden apartments
 Small Shopping Center
 Other
 Large Lots required—estimated size
 Price range indicated by survey
 Current Market Demand
 Rating of site for various uses:
 Are indicated uses permitted by zoning or covenants?
 Remarks:

Courtesy: "Home Builders Manual for Land Development, Second Revised Edition"
 published by National Association of Home Builders

How to Grade a Site

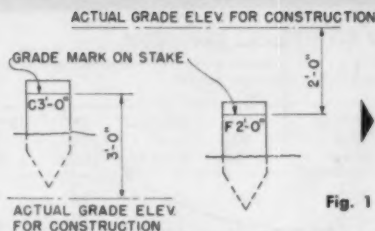


Fig. 1

SETTING OF GRADE STAKES: The surveyor very often is called upon to "give grade." This means that he must set marks, like tops of stakes, nails on forms, and keel marks at required elevations. Where the required elevation itself cannot be marked, giving grade consists of marking reference points at or near the construction, which are definite distances above or below actual grade. Where the grade marks are not placed directly on the forms or other parts of the work, they are transferred to the work by carpenter's levels and rules.

CUT AND FILL: When the grade elevation (elevation of future construction) is below the grade mark placed on a stake, cut is indicated. A mark set 2'-0" above the actual grade elevation is noted as cut 2'-0" or C 2'-0". When the final grade elevation is above the grade mark placed on a stake, fill is indicated. A fill would be marked F 3'-0". The two cases are indicated in Fig. 1.

PROCESS OF SETTING GRADE MARKS: The problem is to set a mark at an elevation marked on the plans. The height of instrument is determined by a backsight on a bench mark. The grade elevation is known as the "Rod For Grade" and is determined from the following formula:

$\text{Rod for Grade} = \text{H.I. (height of instrument)} - \text{Elevation of Grade}$. Suppose H.I. has been determined as 104.23'. Grade elevation for the first floor of the building is 98.67'. It is desired to set tops of stakes at elev. 98.67' for reference during construction. Compute rod for grade = $104.23' - 98.67' = 5.56'$. Set target on rod at 5.56' and drive a stake in the ground until the target on the rod intersects the line of sight of the H.I. Top of the stake is then at the desired elev. 98.67'. The top of the stake should be keeled to indicate that the top of the stake is at grade, Fig. 2.

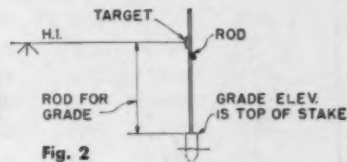


Fig. 2

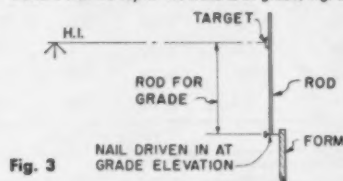


Fig. 3

TO GIVE GRADE ON INSIDE OF FORM: To give grade on the inside of a form (Fig. 3) or other vertical construction surface, the same procedure is followed. A nail is usually driven in at grade elevation. When no support such as the top of a stake or a side of a form is available to mark the proper grade elevation, it is customary to set grade stakes at a certain number of half feet above or below grade. The number of half feet used is often different at different stakes, and the stakes worked accordingly. To accomplish this, set the target a certain number of half feet above or below the value of the rod for grade.

Suppose H.I. = 104.50', grade elev. = 97.75'. Rod for grade = $104.50' - 97.75' = 6.75'$. If the target is set at 6.75', the ground elevation will be above the grade elevation. Therefore, a nail will be set on the grade stake at some half foot interval above the actual grade elevation (See Fig. 4).

To determine the amount of the interval C, take a reading on the ground where the stake was driven. Suppose this rod reading is 5'. Then it will be possible to drive a nail into the grade stake which will be 2'-0" above grade. To calculate the target setting for a 2'-0" cut use the following formula:

$$\text{Cut Rod} = \text{Rod for Grade} - C \quad 4.75' = 6.75' - 2.00'$$

Set the target at 4.75'. The bottom of the rod where a nail is driven will be 2'-0" above grade. The stake will be marked C 2'-0" with an arrow pointing to the nail.

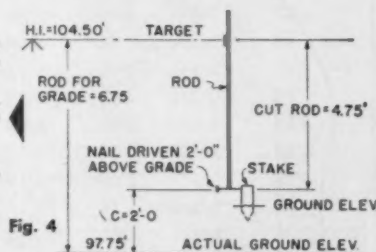


Fig. 4

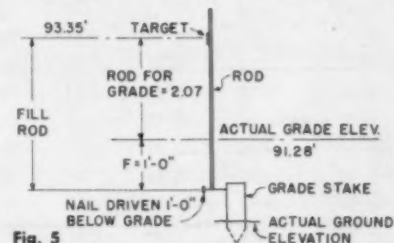


Fig. 5

GRADE FILL: The case for fill is handled as shown in Fig. 5. Calculate Rod for Grade = $93.35' - 91.28' = 2.07'$. When target is set at 2.07', the bottom of the rod will be above top of grade stake. Therefore, the nail must be driven into the grade stake which is some half foot interval below actual grade elevation.

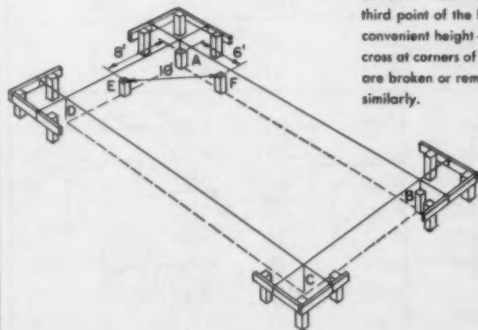
To determine proper amount of interval F to use, take a reading on the rod with it held on the ground next to the grade stake. If this had been 3.35' it would indicate F = 1'-0" should be used. To calculate the target setting for a 1'-0" fill use the following formula:

$$\text{Fill Rod} = \text{Rod for Grade} - F \quad 3.07' = 2.07' + 1.00'$$

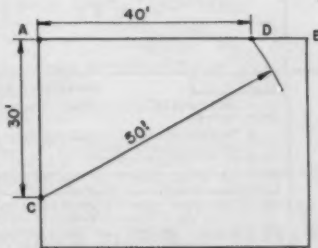
Set target at 3.07'. The bottom of the rod where a nail is driven will be 1'-0" below grade. The stake should be marked F 1'-0" with an arrow pointing to the nail.

RIGHT TRIANGLE METHODS FOR LAYING OUT A BUILDING

Establish a base line to mark out one end or side of a building. Erect stakes A and B at ends of line and drive a nail in the center of each stake to locate accurately the corners. Next drive a stake along line AB exactly 6' from A. Then drive another stake in at a point B' from the center of stake A, and 10' from the center of stake B. EAF is then a right triangle. AE extended the proper distance to point D establishes the third point of the building. Set stakes and batter boards at corners beyond corners A, B, C, and D at some convenient height—usually top of foundation wall. Attach strings to batter boards and level. Strings must cross at corners of building. Nails should be driven in the batters where strings are fastened, so that if strings are broken or removed, they can be replaced accurately. Other corners of the building should be located similarly.

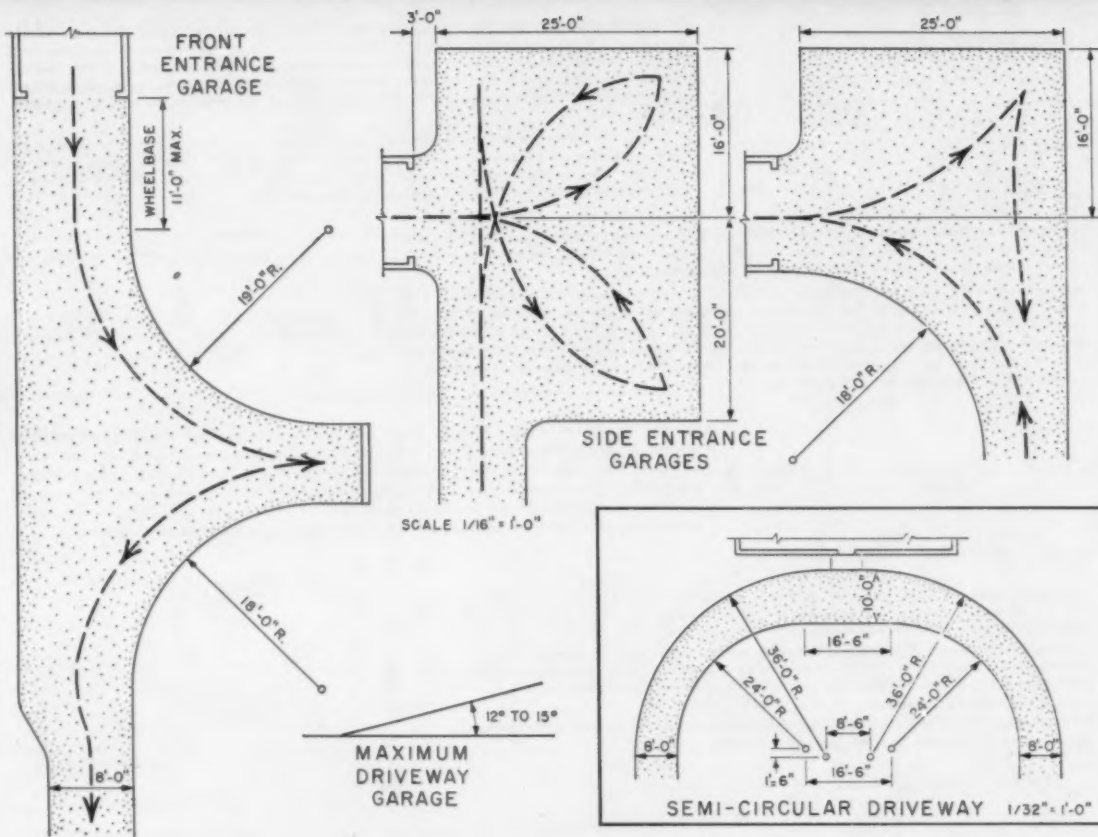


A and B can be any corners of a building. Along AB measure a distance of 40' with a steel tape. Approximately at right angles to A, measure a distance of 30' to a point C. From C, measure a distance of 50'. When points C and D are exactly 50' apart, angle CAD becomes a right angle.

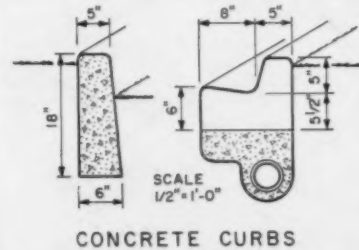
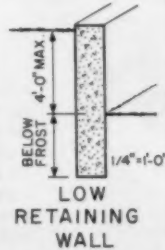
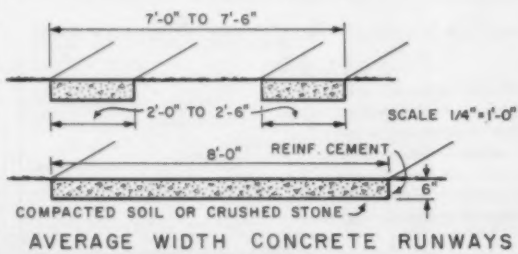
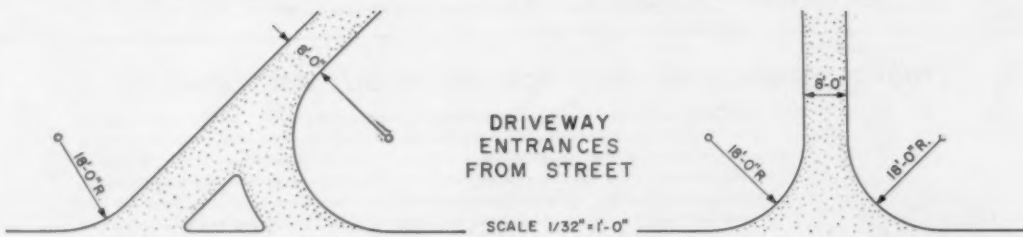


SITE PLANNING

Driveway Design



1959 AUTOMOBILES	LENGTH	WIDTH	WHEELBASE	OVERHANG	
				F.	R.
RAMBLER AMERICAN	178.3"	73"	100"	31"	47"
CADILLAC SPECIAL	225"	80.2"	130"	35.6"	51.7"



CONCRETE, MASONRY, TILE, BRICK

Estimating Concrete Masonry

NOMINAL LENGTH OF CONCRETE MASONRY WALLS BY STRETCHERS

(Based on units 15 1/2" long and half units 7 1/2" long with 3/8" thick head joints)

LENGTH OF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS
0'-8"	1/2	20'-8"	15 1/2	40'-8"	30 1/2	60'-8"	45 1/2	80'-8"	60 1/2	100'-8"	75 1/2
1'-4"	1	21'-4"	16	41'-4"	31	61'-4"	46	81'-4"	61	101'-4"	76
2'-0"	1 1/2	22'-0"	16 1/2	42'-0"	31 1/2	62'-0"	46 1/2	82'-0"	61 1/2	102'-0"	76 1/2
2'-8"	2	22'-8"	17	42'-8"	32	62'-8"	47	82'-8"	62	102'-8"	77
3'-4"	2 1/2	23'-4"	17 1/2	43'-4"	32 1/2	63'-4"	47 1/2	83'-4"	62 1/2	103'-4"	77 1/2
4'-0"	3	24'-0"	18	44'-0"	33	64'-0"	48	84'-0"	63	104'-0"	78
4'-8"	3 1/2	24'-8"	18 1/2	44'-8"	33 1/2	64'-8"	48 1/2	84'-8"	63 1/2	104'-8"	78 1/2
5'-4"	4	25'-4"	19	45'-4"	34	65'-4"	49	85'-4"	64	105'-4"	79
6'-0"	4 1/2	26'-0"	19 1/2	46'-0"	34 1/2	66'-0"	49 1/2	86'-0"	64 1/2	106'-0"	79 1/2
6'-8"	5	26'-8"	20	46'-8"	35	66'-8"	50	86'-8"	65	106'-8"	80
7'-4"	5 1/2	27'-4"	20 1/2	47'-4"	35 1/2	67'-4"	50 1/2	87'-4"	65 1/2	107'-4"	80 1/2
8'-0"	6	28'-0"	21	48'-0"	36	68'-0"	51	88'-0"	66	108'-0"	81
8'-8"	6 1/2	28'-8"	21 1/2	48'-8"	36 1/2	68'-8"	51 1/2	88'-8"	66 1/2	108'-8"	81 1/2
9'-4"	7	29'-4"	22	49'-4"	37	69'-4"	52	89'-4"	67	109'-4"	82
10'-0"	7 1/2	30'-0"	22 1/2	50'-0"	37 1/2	70'-0"	52 1/2	90'-0"	67 1/2	110'-0"	82 1/2
10'-8"	8	30'-8"	23	50'-8"	38	70'-8"	53	90'-8"	68	110'-8"	83
11'-4"	8 1/2	31'-4"	23 1/2	51'-4"	38 1/2	71'-4"	53 1/2	91'-4"	68 1/2	111'-4"	83 1/2
12'-0"	9	32'-0"	24	52'-0"	39	72'-0"	54	92'-0"	69	112'-0"	84
12'-8"	9 1/2	32'-8"	24 1/2	52'-8"	39 1/2	72'-8"	54 1/2	92'-8"	69 1/2	112'-8"	84 1/2
13'-4"	10	33'-4"	25	53'-4"	40	73'-4"	55	93'-4"	70	113'-4"	85
14'-0"	10 1/2	34'-0"	25 1/2	54'-0"	40 1/2	74'-0"	55 1/2	94'-0"	70 1/2	114'-0"	85 1/2
14'-8"	11	34'-8"	26	54'-8"	41	74'-8"	56	94'-8"	71	114'-8"	86
15'-4"	11 1/2	35'-4"	26 1/2	55'-4"	41 1/2	75'-4"	56 1/2	95'-4"	71 1/2	115'-4"	86 1/2
16'-0"	12	36'-0"	27	56'-0"	42	76'-0"	57	96'-0"	72	116'-0"	87
16'-8"	12 1/2	36'-8"	27 1/2	56'-8"	42 1/2	76'-8"	57 1/2	96'-8"	72 1/2	116'-8"	87 1/2
17'-4"	13	37'-4"	28	57'-4"	43	77'-4"	58	97'-4"	73	117'-4"	88
18'-0"	13 1/2	38'-0"	28 1/2	58'-0"	43 1/2	78'-0"	58 1/2	98'-0"	73 1/2	118'-0"	88 1/2
18'-8"	14	38'-8"	29	58'-8"	44	78'-8"	59	98'-8"	74	118'-8"	89
19'-4"	14 1/2	39'-4"	29 1/2	59'-4"	44 1/2	79'-4"	59 1/2	99'-4"	74 1/2	119'-4"	89 1/2
20'-0"	15	40'-0"	30	60'-0"	45	80'-0"	60	100'-0"	75	120'-0"	90

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NOMINAL HEIGHT OF CONCRETE MASONRY WALLS BY COURSES

(Based on units 7 1/2" high and 3/8" thick mortar joints)

HEIGHT OF WALL	NO. OF UNITS	HEIGHT OF WALL	NO. OF UNITS	HEIGHT OF WALL	NO. OF UNITS	HEIGHT OF WALL	NO. OF UNITS
0'-8"	1	8'-8"	13	16'-8"	25	24'-8"	37
1'-4"	2	9'-4"	14	17'-4"	26	25'-4"	38
2'-0"	3	10'-0"	15	18'-0"	27	26'-0"	39
2'-8"	4	10'-8"	16	18'-8"	28	26'-8"	40
3'-4"	5	11'-4"	17	19'-4"	29	27'-4"	41
4'-0"	6	12'-0"	18	20'-0"	30	28'-0"	42
4'-8"	7	12'-8"	19	20'-8"	31	28'-8"	43
5'-4"	8	13'-4"	20	21'-4"	32	29'-4"	44
6'-0"	9	14'-0"	21	22'-0"	33	30'-0"	45
6'-8"	10	14'-8"	22	22'-8"	34	30'-8"	46
7'-4"	11	15'-4"	23	23'-4"	35	31'-4"	47
8'-0"	12	16'-0"	24	24'-0"	36	32'-0"	48

HOW TO USE THESE TABLES

The tables on this page are an aid to estimating and designing with standard concrete masonry units. The following are examples of how they can be used to advantage.

Example:

Estimate the number of units required for a wall 76' long and 12' high.

From table: 76' = 57 units
12' = 18 courses
57 x 18 = 1026 = No. masonry units required.

Example:

Estimate the number of units required for a foundation 24' wide by 30' long by 11 courses high.
2 x 24 = 48
2 x 30 = 60

108' = distance around foundation.

From table: 108' = 81 units
81 x 11 = 891 = No. masonry units required.

This table can also be useful in the layout of a building on a modular basis to eliminate cutting of units. Example: If design calls for a wall 41' long it can be found from the table that making this wall 41'-4" will eliminate cutting units and consequent waste. Example: If the distance between two openings has been tentatively established at 2'-9" consulting the table will show that 2'-8" dimension would eliminate cutting of units.

CONCRETE, MASONRY, TILE, BRICK

Concrete Estimating

CUBIC YARD CONTENTS OF WALLS AND SLABS

No. SQ. FT. IN WALL	THICKNESS OF WALL IN INCHES											
	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
1	.0062	.0124	.0185	.0247	.0308	.037	.043	.049	.055	.062	.068	.074
2	.0124	.0248	.0370	.0492	.0616	.074	.086	.099	.111	.123	.136	.148
3	.0186	.0372	.0555	.0741	.0924	.111	.129	.148	.166	.185	.203	.222
4	.0248	.0496	.0740	.0988	.1232	.148	.173	.197	.222	.246	.271	.296
5	.0310	.0620	.0925	.1235	.1540	.185	.216	.247	.277	.308	.339	.370
6	.0372	.0744	.1110	.1482	.1848	.222	.259	.296	.333	.369	.407	.444
7	.0434	.0868	.1295	.1729	.2156	.259	.302	.346	.385	.431	.475	.518
8	.0496	.0992	.1480	.1976	.2464	.296	.345	.395	.444	.493	.542	.592
9	.0558	.1116	.1665	.2223	.2772	.333	.389	.445	.499	.554	.610	.666
10	.0620	.1240	.1850	.2470	.3080	.370	.432	.494	.555	.616	.678	.740
20	.124	.248	.370	.492	.616	.740	.864	.988	1.108	1.232	1.356	1.480
30	.186	.372	.555	.741	.924	1.110	1.296	1.482	1.665	1.848	2.034	2.220
40	.248	.496	.740	.988	1.232	1.481	1.728	1.976	2.220	2.464	2.712	2.960
50	.310	.620	.925	1.235	1.540	1.852	2.160	2.470	2.775	3.080	3.390	3.704
60	.372	.744	1.110	1.482	1.848	2.222	2.592	2.964	3.330	3.696	4.068	4.444
70	.434	.868	1.295	1.729	2.156	2.592	3.024	3.458	3.885	4.312	4.746	5.184
80	.496	.992	1.480	1.976	2.464	2.962	3.456	3.952	4.440	4.928	5.424	5.924
90	.558	1.116	1.665	2.223	2.772	3.333	3.888	4.446	4.995	5.544	6.102	6.666
100	.62	1.24	1.85	2.47	3.08	3.70	4.32	4.94	5.55	6.16	6.78	7.41
200	1.24	2.48	3.70	4.92	6.16	7.40	8.64	9.88	11.08	12.32	13.56	14.80
300	1.86	3.72	5.55	7.41	9.24	11.10	12.96	14.82	16.65	18.48	20.34	22.20
400	2.48	4.96	7.40	9.88	12.32	14.81	17.28	19.76	22.20	24.64	27.12	29.60
500	3.10	6.20	9.25	12.35	15.40	18.52	21.60	24.70	27.75	30.80	33.90	37.04
600	3.72	7.44	11.10	14.82	18.48	22.22	25.92	29.64	33.30	36.96	40.68	44.44
700	4.34	8.68	12.95	17.29	21.56	25.92	30.24	34.58	38.85	43.12	47.46	51.84
800	4.96	9.92	14.80	19.76	24.64	29.62	34.56	39.52	44.40	49.28	54.24	59.24
900	5.58	11.16	16.65	22.23	27.72	33.33	38.88	44.46	49.95	55.44	61.02	66.66
1000	6.20	12.40	18.50	24.70	30.80	37.04	43.20	49.40	55.50	61.60	67.80	74.06

HOW TO USE THIS TABLE

This table gives the cubic yard factors to use in estimating quantities of concrete required for walls, slabs, walks or drives when the square footage is known.

Example: Find the number of cubic yards of concrete required for the walls of a foundation 24' x 30' x 8' — 10" thick.

$$2 \times (24 + 30) \times 8 = 864 \text{ sq. ft.}$$

Use factors from table for 10" wall thickness:

$$800 \text{ sq. ft.} = 24.64 \text{ cu. yds.}$$

$$60 \text{ sq. ft.} = 1.848 \text{ cu. yds.}$$

$$4 \text{ sq. ft.} = .123 \text{ cu. yds.}$$

$$26.611 \text{ cu. yds. of concrete required.}$$

Where concrete thickness is an odd number of inches use factors for double the thickness and divide result by 2. Example: For 9" walls use 18" factors and divide final quantity in half.

CONCRETE FOOTING QUANTITY FACTORS

(Cu. Yd. per 10 Lin. Ft.)

DEPTH IN INCHES	WIDTH OF FOOTING IN INCHES									
	6	8	10	12	14	16	18	20	22	24
6	.093	.124	.154	.185	.217	.248	.278	.308	.340	.370
8	.124	.165	.205	.247	.289	.330	.370	.410	.451	.494
10	.155	.206	.256	.308	.360	.412	.462	.512	.564	.616
12	.185	.247	.308	.370	.432	.494	.555	.616	.678	.740
14	.216	.288	.360	.432	.504	.576	.648	.720	.792	.864
16	.247	.329	.410	.494	.576	.658	.739	.820	.904	.988
18	.278	.370	.462	.555	.648	.740	.832	.924	1.017	1.110
20	.309	.411	.513	.617	.720	.820	.924	1.024	1.130	1.234
22	.339	.452	.564	.679	.791	.900	1.016	1.128	1.243	1.358
24	.37	.494	.616	.740	.864	.988	1.110	1.232	1.360	1.480

HOW TO USE THIS TABLE

This table gives the cubic yard factors to use in estimating quantities of concrete required for footings when the total lineal feet is known.

Example: Find the number of cubic yards of concrete required for a footing 18" wide, 10" thick for a foundation wall 24' x 30'

$$2 \times (24 + 30) = 108 \text{ lin. ft.}$$

From the table it is found that 10 lin. ft. of 18" x 10" footing contains .462 cu. yds. (or .0462 for 1 lin. ft.)

$$\text{Multiply } .0462 \times 108 = 4.989 \text{ cu. yds. concrete required}$$

NOTE: This table is also useful in estimating the quantity of earth to be removed from footing excavations. Follow the same procedure as outlined above.

CONCRETE, MASONRY, TILE, BRICK

Estimating Brick Masonry

TABLE 1
FOUR-INCH MODULAR-BRICK FACING WALLS
RUNNING BOND
(Full Bed and Head Joints)

Nominal Size of Brick*	Number of Brick per Sq. Ft. of Wall	Cu. Ft. of Mortar per Sq. Ft. of Wall**		Cu. Ft. of Mortar per 1000 Brick**	
		3/8" Joint	1/2" Joint	3/8" Joint	1/2" Joint
2-2/3x4x8	6.75	0.0608	0.0765	8.90	11.30
2-2/3x4x12	4.50	0.0535	0.071	11.90	15.80
2x4x12	6.00	0.0676	0.09	11.30	15.00
4x4x8	4.50	0.0432	0.0575	9.60	12.80
4x4x12	3.00	0.039	0.052	13.00	17.30

*Actual size plus thickness of one joint
**10% added for waste

MODULAR-BRICK

In Table 1 are quantities of units and mortar required to construct a 4-in. wall using 5 sizes of modular brick with two joint thicknesses. The mortar quantities shown are for the bed and head joints only. If this facing is to be applied to a backup wall, the quantity of mortar required for the interior vertical or collar joint must be added. These quantities are as follows:

- .0313 cu. ft. for 1 sq. ft. mortar joint 3/8-in thick.
- .0365 cu. ft. for 1 sq. ft mortar joint 1/2-in thick.
- .0417 cu. ft. for 1 sq. ft. mortar joint 1/2" thick.

The brick quantities shown are for brick laid in running bond. For other bonds in which full headers are used, the correction factors in Table 4 must be added. The 2-2/3x4x8-in. size brick is commonly referred to as the "Standard Modular" size.

TABLE 2
EIGHT- AND TWELVE-INCH BRICK BACKUP WALLS
IN RUNNING BOND
(Full Bed, Head and Collar Joints)

Nominal Size of Brick*	Number of Brick	8" Wall Cu. Ft. of Mortar**		Number of Brick	12" Wall Cu. Ft. of Mortar**	
		3/8" Joint	1/2" Joint		3/8" Joint	1/2" Joint
2-2/3x4x8	13.50	0.1544	0.1988	20.25	0.2489	0.3211
4x4x8	9.00	0.1210	0.1610	13.50	0.1984	0.2641

*Actual size plus thickness of one joint
**10% added for waste

Mortar for interior vertical joints (paring or plastering) per 100 sq. ft. of joint.

3/8" joint.....	3.13 cu. ft.
1/2" joint.....	3.65 cu. ft.
1/2" joint.....	4.17 cu. ft.

TABLE 3
NON-MODULAR SOLID-BRICK WALLS IN RUNNING BOND
(No headers, or pattern made with blind headers)

WALL AREA SQ. FT.	4-IN. WALL		8-IN. WALL		12-IN. WALL		16-IN. WALL	
	No. OF BRICK	CU. FT. MORTAR	No. OF BRICK	CU. FT. MORTAR	No. OF BRICK	CU. FT. MORTAR	No. OF BRICK	CU. FT. MORTAR
1	6.16	.0271	12.32	.19	18.48	.3	24.64	.4132
10	62	.721	124	1.86	185	3	247	4.2
20	124	1.5	247	3.72	370	6	493	8.3
30	185	2.2	370	5.6	555	9	740	12.4
40	247	2.9	493	7.5	740	12	986	16.6
50	308	3.6	616	9.3	924	15	1232	20.7
60	370	4.4	740	11.15	1109	18	1479	24.8
70	432	5.1	863	13	1294	21	1725	29
80	493	5.8	986	14.9	1479	24	1972	33.1
90	555	6.5	1109	16.75	1664	27	2218	37.2
100	616	7.25	1232	18.6	1848	30	2464	41.4
200	1232	14.5	2464	37.2	3696	60	4928	82.7
300	1848	21.7	3696	55.75	5544	90	7392	124
400	2464	29	4928	74.33	7392	120	9856	165.3
500	3080	36	6160	92.90	9240	150	12320	207
1000	6160	72.1	12320	185.8	18480	300	24640	413.2

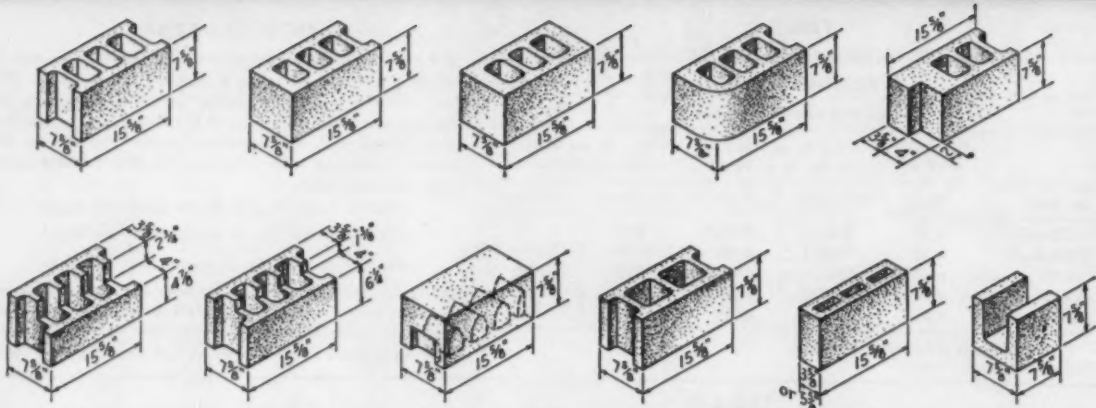
NOTE: 1/2" joints completely filled, including vertical interior joints of 8-in., 12-in. and 16-in. walls. For estimating number of facing and backup brick in any particular type of bonds use correction factor Table 4.

TABLE 4
CORRECTION FACTORS TO BE APPLIED TO 4-INCH WALL QUANTITIES FOR ESTIMATING
THE REQUIRED NUMBER OF FACING BRICK IN VARIOUS BONDS

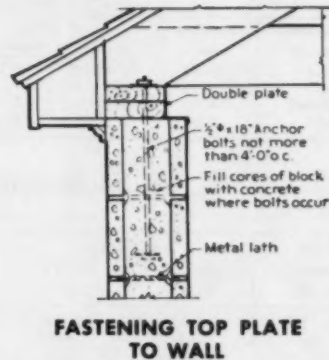
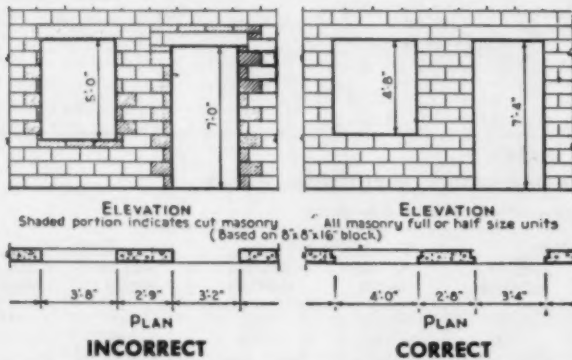
TYPE OF BOND	CORRECTION FACTOR
Common bond with full header every 5th course.....	20% or 1/5
Common bond with full header every 6th course.....	16.7% or 1/6
Common bond with full header every 7th course.....	14.3% or 1/7
English bond, alternate courses full headers.....	50% or 1/2
English or Dutch bond with full headers every 6th course and blind headers in intermediate courses.....	16.7% or 1/6
Flemish bond, alternate stretchers and full headers every course.....	33.3% or 1/3
Flemish bond, with stretchers and full headers every 6th course, intermediate courses with blind headers.....	5.6% or 1/8
Flemish cross bond, alternate courses with stretchers and headers.....	16.7% or 1/6
Double header and stretcher every 6th course.....	8.3% or 1/12
Double header and stretcher every 5th course.....	10% or 1/10

CONCRETE, MASONRY, TILE, BRICK

Concrete Block and Brick Details



TYPICAL SHAPES AND SIZES OF CONCRETE MASONRY UNITS

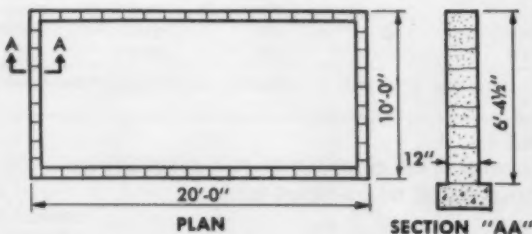


FASTENING TOP PLATE TO WALL

HOW TO TAKE OFF QUANTITIES OF CONCRETE BLOCK

ESTIMATING STRETCHER AND CORNER BLOCKS: Areas of all openings should be deducted from the total wall surface to get the net area of wall. From this the number of stretcher blocks and the number of corner blocks can be determined.

When the square feet of the wall are known, refer to Table 1 giving the number of blocks per 100 sq. ft. of wall.



AREA OF THE WALL: From the perimeter of the wall, deduct four times the thickness of the wall, and multiply by the height of the wall. This is the area of the wall for masonry estimating. The formula avoids doubling of corners.

Example: Find the area of the wall in the plan and section shown: The perimeter of the wall is
 $20' + 20' + 10' + 10' = 60$ linear feet.
 $60 - 4$ (corners) = 56 lin. ft.

Multiply: 56 lin. ft. by the height of wall, or
 $56 \times 6.37 = 356.72$ sq. ft. or 357 sq. ft.

TABLE 1 CONCRETE BLOCK

Size of Block	Wall Thickness	Number of Units per 100 sq. ft. of Wall	Mortar (cu. ft.)
8 x 8 x 16	8	110	3.25
8 x 8 x 12	8	146	3.50
8 x 12 x 16	12	110	3.25

Therefore: $357 \div 100 = 3.57$

110 blocks = 100 sq. ft.

357 sq. ft. = $3.57 \times 110 = 393$ blocks.

CORNER BLOCKS: The height of the wall is 6'-4 1/2" or 76 1/2 inches. $76 1/2 \div 8$ (height of block) = 9 courses of block. Each corner has 9 blocks, 4 corners have 36 blocks.

Total blocks = 393

Corner blocks — 36

357 Stretcher Blocks

CONCRETE, MASONRY, TILE, BRICK

Concrete Data

RECOMMENDED MIXES FOR SEVERAL CLASSES OF SMALL-HOUSE CONSTRUCTION

Kind of Work	U. S. gallons of water to add to each 1-sack batch			Trial mixture for first batch			Maximum aggregate size
	Damp sand & coarse aggregate	Wet sand & coarse aggregate	Very wet sand & cse. egg.	Cement	Sand	Coarse Aggregate	
Foundation walls which need not be watertight, mass concrete for footings, retaining walls, garden walls, etc.	6¼	Average sand 5½	4¾	sacks 1	cu. ft. 2¾	cu. ft. 4	in. 1½
Watertight basement walls, walls above ground, Well curbs and platforms, cisterns, septic tanks, watertight floors, sidewalks, stepping-stone and flagstone walks, driveways, play courts, porch floors, basement floors, steps, piers, columns, etc.	5½	Average sand 5	4¼	1	2¾	3	1½

Source: National Association of Home Builders Research Institute

HOW TO LAY CONCRETE IN COLD WEATHER

- Heat the Materials**
 - Have concrete temperatures between 50° and 70° for slabs and building frames.
 - For air temperatures between 30° and 40° F., heat the mixing water.
 - For air temperatures below 30° F., heat mixing water and sand or both sand and coarse aggregate.
 - Cover aggregate piles with tarps while heating.
 - Avoid frozen aggregate lumps in concrete at time it leaves the mixer.
 - Don't overheat. It may result in flash set.
- Use Accelerators Carefully**
 - Don't use more than 2 lb. of calcium chloride per sack of cement to hasten hardening.
 - Don't depend on any chemicals to prevent freezing.
 - Don't use calcium chloride with other mixtures which accelerate hardening.
- Provide Suitable Curing Temperatures**
 - Maintain temperature of concrete at 70° or above for three days or 50° or above for five days.
 - Cover aggregate piles with tarps while heating.
 - Do not allow concrete to freeze during next four days.
 - Cool concrete gradually at rate of one to two degrees per hour.
- Protect the Concrete**
 - Insulation without artificial heat is often sufficient protection for slabs on ground and heavy sections.
 - At lower temperatures, housing and artificial heat are necessary.
 - Raise heating units above floor to avoid rapid drying of concrete underneath.
 - Keep concrete moist, especially near heating units.
- Remove Forms at Proper Time**
 - Allow ample time for concrete to attain required strength.

COLD-WEATHER CONCRETE-MASONRY CONSTRUCTION

If the air temperature is:

Below 40 Deg. F. But Above Freezing

All masonry materials should be covered and properly stored to prevent them from becoming wet from rain, ice or snow. The mixing water should be heated, but not over 160 deg. F. Temperature of mortar when placed in the wall should not exceed 100 deg. F. or be less than 70 deg. F. Protective coverings should be placed over the newly laid masonry walls.

Below Freezing But Above 0 Deg. F.

In addition to the preceding requirements the sand should be heated. The working area should be enclosed with protective coverings and artificial heat should be provided by salamanders or

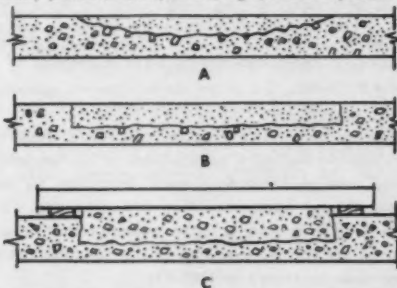
Balance of material courtesy Portland Cement Association.



COMPACTING: To compact concrete in foundation walls, a mechanical vibrator is ideal (although puddling or spading the concrete down is perfectly acceptable). Vertical penetration of vibrator, above, left, a few inches into previous lift at systematic regular intervals will give adequate consolidation. Random penetration, above, right, will insure combination of layers, and will distribute aggregate badly.



PLACING SLAB CONCRETE: Concrete should be dumped into face of previously placed concrete, as above, left. Dumping away from previously placed concrete, above, right, causes separation.



PATCHING: Incorrect (A) and correct (B) methods of installing a patch are shown. The chipped area should be at least one inch deep with the edges at right angles to the surface. Correct method of screeding patch is shown above (C). The new concrete should project slightly beyond the surface of the old concrete. It should be allowed to stiffen and then troweled or otherwise finished to match and be flush with adjoining surfaces.

portable heaters. When the temperature falls below 20 deg. F. all concrete-masonry units (hollow and solid) should be heated to at least 50 deg. F.

Below 0 Deg. F.

Concrete-masonry construction should be stopped unless for emergencies, when great care must be taken to insure complete and tight enclosures plus all the preceding requirements.

CONCRETE, MASONRY, TILE, BRICK

Concrete Admixtures

Admixtures are any materials other than water, aggregates, or cement added to concrete before or during mixing to make the concrete more suitable to a particular type of work. They will retard the concrete's setting time or accelerate it, and will entrain air or gas to help it withstand frost action or gas to counteract shrinkage and bleeding. They will increase concrete's workability and its resistance to corrosion. They will dampproof the concrete, make it water repellent, hasten or retard its flowability, and control shrinkage. Handled with reasonable caution—they sometimes alter the normal strength of concrete—admixtures give concrete new dimensions.

To accelerate set time:

Agents such as calcium chloride added up to 2% of the weight of portland cement will increase the rate of early hardening. This permits early removal of forms, creates a shorter curing period, advances the time when the concrete structure can be put in service, compensates for the retarding effect of other admixtures.

To retard set time:

Retarders are added to concrete in hot weather to prevent false set and to permit placing concrete in difficult positions. Builders sometimes place them on the inside of form faces to retard setting of the outside face of the concrete. This permits the builder to later brush away the laitance and expose the aggregate, creating a textural effect. Common retarders include starches, or cellulose products, sugars and acids, or salts of acids that contain one or more hydroxyl groups. They must be added to concrete in very small amounts.

To resist freezing:

Air entraining agents added to concrete incorporate small amounts of air in minute bubbles to help the concrete resist frost action. Air entraining also makes the concrete lightweight, and increases its plasticity and workability. Air entraining agents include natural wood resins, fats, various sulfonated compounds, and oils.

To counteract shrinkage:

Gas-forming agents will reduce shrinkage and bleeding in plastic concrete. Gas dispersed in concrete by generating agents also improves its resistance to frost but to a lesser degree than air—and produces a lighter weight concrete or mortar. Aluminum powder added at a ratio of 1 teaspoonful to each sack of cement reacts with the hydroxides in the hydrating concrete to produce minute bubbles of hydrogen. Adding the powder at a rate of ¼ lb. to a sack of cement makes the concrete lightweight. Other gas-forming agents include zinc and magnesium powder, hydrogen peroxide and bleaching powder.

To increase workability:

Cementitious agents substituted for 10 to 25% of the weight of portland cement increase the concrete's workability, decrease bleeding and heat of hydration. A drawback is that they decrease the concrete's strength and must be added with care. The group includes natural cements, hydraulic lime, slag cement, and the pozzolans.

To reduce permeability:

Pozzolans substituted for part of the cement factor reduce concrete's permeability and increase its resistance to sulfates and the corrosive action of sea water. Pozzolans also add to concrete's workability. This group of admixtures includes fly ash, volcanic ash, heat-treated diatomaceous earths, and either heat-treated or raw shales and clays.

To dampproof:

Agents that dampproof concrete and reduce its permeability generally are classified as "soaps." They are inorganic salts of fatty acids such as calcium or ammonium stearate, or oleate. These soaps also increase the workability of the plastic concrete. Heavy mineral oil will make concrete water repellent. But it should not contain vegetable or mineral components and should have a viscosity of about SAE 60. Asphalt cutback oils and asphalt emulsions will also serve the purpose.

To add plasticity:

These agents will increase concrete's workability, a vital factor when concrete must be placed around closely spaced reinforcing, must be pumped, or chuted long distances. This group includes the powdered admixtures such as hydrated lime, diatomaceous earth, bentonite, fly ash. These admixtures generally are added to the concrete during batching, though sometimes they are premixed with dry cement. Large quantities of finely powdered admixtures in concrete tend to require a higher water-cement ratio than normal. Unless proper adjustments are made in the mix, some adverse effect can be expected in the concrete's strength, durability, and drying shrinkage. Air and gas entrainment also increase concrete's workability.

To hasten or retard grout set:

Calcium chloride or triethanolamine added to grout will hasten its set when it must work as a plugging agent. Mucic acid and other patented chemicals will retard its set to increase its pumpability and flow. Grout retarders include fly ash, bentonite, pumicite, and diatomaceous earth.

To offset shrinkage:

Expanding agents are made by burning a mixture of gypsum, bauxite, and limestone to create a sulfoaluminous cement which, added to concrete, offsets shrinkage. Powdered iron and an oxidizing agent added to portland cement also make a non-shrinking concrete.

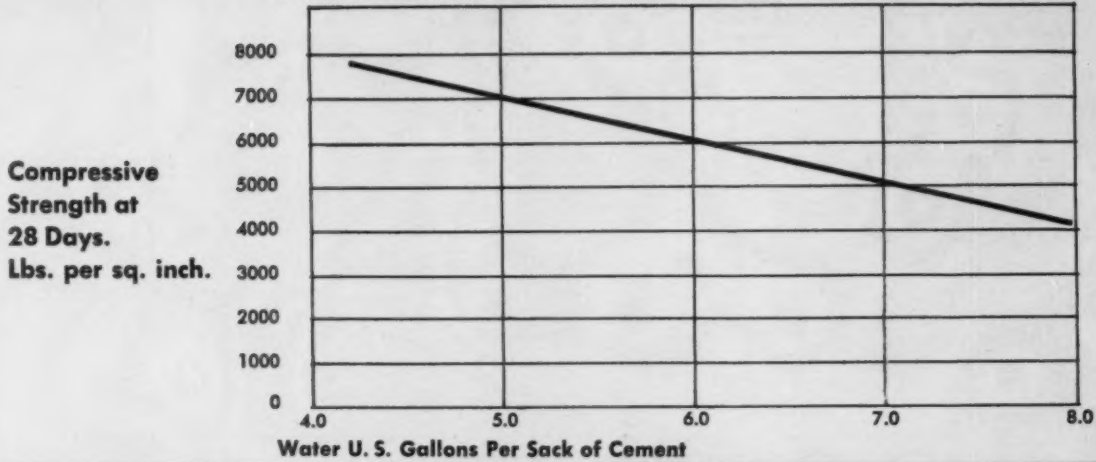
Other admixtures:

A variety of admixtures on the market will improve concrete's wear resistance, make it harder or softer (asphalt), foam it, make it easy to saw, and add color. Lumber yards and building material supply stores carry virtual chemical plants on their shelves.

CONCRETE, MASONRY, TILE, BRICK

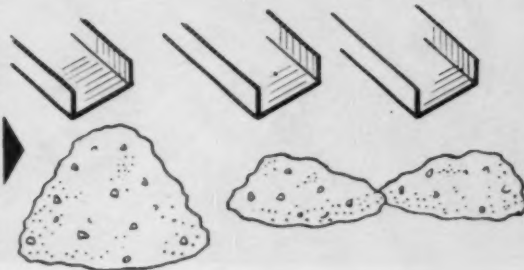
Mixing Concrete, Placing, Selection of Aggregate Combinations

EFFECT OF QUANTITY OF MIXING WATER ON STRENGTH OF CONCRETE



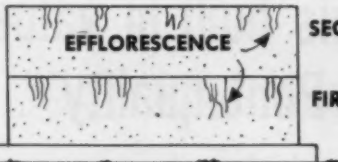
PREVENTION OF SEGREGATION: Segregation of concrete means the separation of the heavy materials, such as the aggregates, from the lighter materials, sand and cement, when the concrete is poured into the forms. Constant supervision is essential to insure complete filling of the forms to prevent the common practice of depositing continuously at one point. Allowing the material to flow over a long distance will cause segregation.

Excessive amounts of tamping or shoveling in the forms will also cause the materials to separate. When the concrete is properly proportioned, the entrained air will escape and the mass will be thoroughly consolidated with very little shoveling. Light spading of the concrete next to the forms will prevent honeycombing and make surface finishing easier.



POOR PRACTICE—WILL CAUSE SEGREGATION

GOOD PRACTICE



ELEVATION OF WALL SHOWING LAITANCE

SECOND DAY'S CAST
FIRST DAY'S CAST

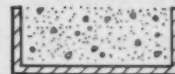
PREVENTION OF LAITANCE: Laitance is the formation of a froth of light materials on the surface of fresh concrete. It can only form from the presence of excess water, which causes the upper portion of a freshly poured concrete wall to be porous. The removal of a small layer of laitance still leaves several inches of porous concrete through which water will pass even under moderate pressure. The effect of this porous layer at the top of each day's work can be seen in many structures subject to water pressure. The lower portion of the layer is found to be hard and dense while the upper portion shows efflorescence due to passage of water.

SELECTION OF AGGREGATE COMBINATIONS: The relative proportions of fine and coarse aggregates and the total amount of cement and water depends not only on the consistency of concrete required, but also on the grading of each aggregate. A combination of aggregates made up largely of coarse particles offers less total surface to be coated with cement paste than aggregates of fine particles.

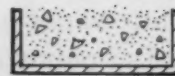
For economical purposes, it is more desirable to use the lowest proportion of fine aggregate which will properly fill the spaces between coarse aggregates. Aggregates that are graded so that they contain many sizes are more economical than aggregates in which one or two sizes predominate, because the former contain fewer voids. The small particles fill the spaces between the larger particles which otherwise must be filled with cement paste. A properly proportioned combination of well-graded fine and coarse aggregates contains all sizes between the smallest and largest without an excessive amount of any one size.



COARSE AGGREGATE
LESS TOTAL SURFACE TO BE COATED WITH CEMENT — (MORE ECONOMICAL)



FINE AGGREGATE
MORE TOTAL SURFACE TO BE COATED WITH CEMENT (LESS ECONOMICAL)



MANY SIZE AGGREGATE
ECONOMICAL — NO VOIDS
BEST COMBINATION



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tection Arrow shows where polyethylene film is used in crawl space.


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For the newest in homes . . .

**LIVING
CONCRETE**

PORTLAND CEMENT ASSOCIATION

*. . . A national organization to improve and
extend the uses of concrete*

BRAND NAMES DIRECTORY

(Continued from page 88)

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KEYWELD Keystone Steel & Wire Co
KIMAX Owens-Illinois
KING-SIZE Logan Clay Prods
KINGS FAIRWAY Kingston Mills Inc
KINGS PLUSH Kingston Mills
KINGSTREND Kingston Mills
KINTRIM Kinkead Industries
KITCH-N-HAND Washington Steel Products
KITCH-N-VENTOR Universal Blower Co

KITCHEN-AIRE Stewart Industries Inc
KITCHEN MAID Kitchen Maid
KITCHENAID Hobart Mfg Co
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KLEENEDGE Sunbeam Plastics
KLEENOLENE Thomas Moulding Floor Co Inc
KLEFTONE Johns-Manville
KLIP-LOK Globe Roofing Products Co Inc
KLIP-TIP Rutland Fire Clay

KLIPBILT Frick-Gallagher Mfg Co Inc
KNOX-OUT Pennsalt Chemicals Corp
KOL-MASTER Kol-Master Corp
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KOLORPINS Independent Nail & Packing Co
KOMUL Selby Battersby & Co
KONSEAL Sullivan Co
KONSET Sullivan Co
KONTITE Sullivan Co
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KORDUCT Johns-Manville
KORINA US Plywood Corp
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KORKER Mobile Paint Mfg

KORKER US Expansion Bolt
KOROSEAL Goodrich B F Flooring Products
KOROSEAL Goodrich B F Industrial Products
KORPAK Dunn W E Co
KOSMORTAR Kosmos Portland Cement Co
KOSMOS Kosmos Portland Cement Co
KOVELOCK Parker S Hardware Mfg Corp
KOVEN Koven L O & Bros
KOVEN VENKO Waterfilm Boilers
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KRAK-TITE Sterling Quality Products Inc
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LANES 3-TY Lanebro Mfg Co
LANGDON-ACME Millers Falls
LANSO Landers Segal Color
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(Continued on page 132)

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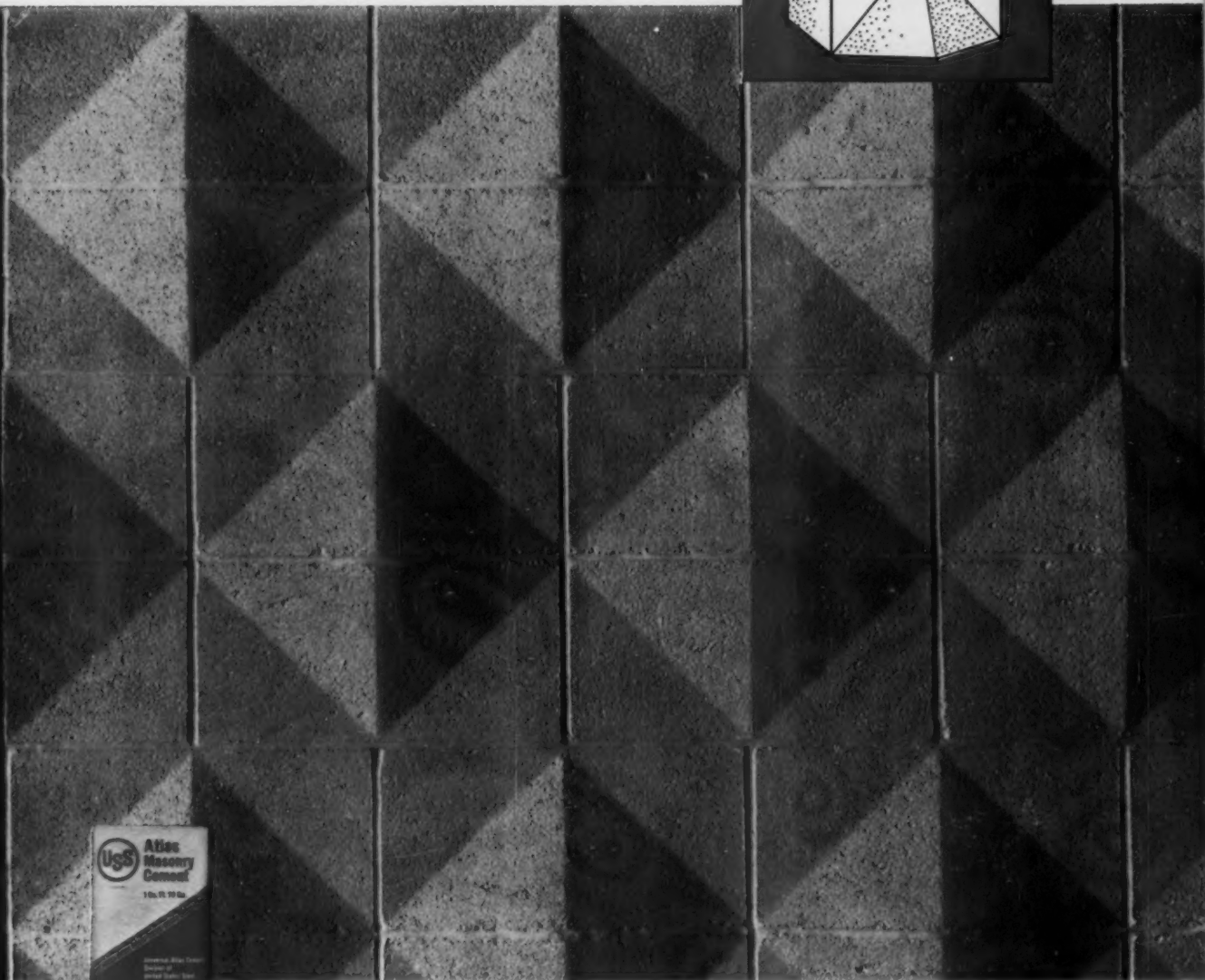
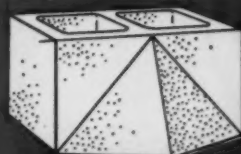
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M-63

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About 300 homes, priced from \$23,500 to \$32,500, are being built in San Jose, Calif., by Culligan Development Company of San Mateo, California. Lathing Contractor: William E. Ridgeway, Campbell, California. Plastering Contractor: Bill Wood & Son, San Jose, California. Shown are Bill Ridgeway, Ed Wood and Guy L. Rosebrook, Jr., Culligan's designer and superintendent.

“INSTANT BACKING WITH One-Step KEYMESH® Paperbacked

*says Thomas Culligan of Culligan Development
Company, a leading Northern California builder*

“It’s waterproof paper, belly band wire and wire mesh lath all in one,” says Mr. Culligan.

“Just once around the house with this Keymesh Paperbacked Lath and the walls are all ready to be stuccoed.

“I’ll admit, saying that it gives us ‘Instant Stucco Walls’ is somewhat of an exaggeration. But because it does allow my subs to go so quickly, we’ll have the walls in this project done faster than any we’ve ever built.”



Lath for Stucco Walls,"



3 STEPS REDUCED TO 1

... before, you had to attach waterproof paper, wire mesh and belly band wire separately. Now it's done all at once, with Keymesh Paperbacked Lath.

**KEYSTONE STEEL
& WIRE COMPANY**
PEORIA, ILLINOIS



PERLITE INSTITUTE PHOTO

NEARLY 9 MILES of refrigerating coils overlie the insulating floor slab of Permalite insulating concrete in the L. C. Walker Sports Arena, Muskegon, Michigan. Architect: Ralph Legeman, Evansville, Ind., with Associate Architects Magnuson & Summer, Muskegon. Alstrom Construction, Inc., Muskegon, was the general contractor, and the insulating floor slab was installed by Rohn Fireproofing Co., Detroit, Michigan.

Unusual Permalite Concrete Applications Keep Ice Cold, Insulate Sloped Roof

Lightweight Permalite insulating concrete was employed recently in two interesting applications—one a floor slab, the other a roof deck.

When the million-dollar L. C. Walker Sports Arena was erected in Muskegon, Michigan, one of the requirements was easy conversion from ice hockey to basketball. Over



POURED IN PLACE by craneline dump bucket, Permalite lightweight insulating concrete is screeded to a thickness of 2½" (over corrugations) on a corrugated steel deck, to serve as a monolithic base for the built-up roof. This type of construction is exceptionally strong and easy to erect. Insulation is excellent: finished roof deck should have a "U" value in the neighborhood of .165. Note the space for expansion joint at the coping.

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a natural sand base, Permalite insulating concrete was poured to a thickness of 11 inches. The insulating concrete, a 4:1 mix, was mixed adjacent to the job and pumped to point of placement. The refrigerating coils, almost 9 miles in length, were placed above this on special supports, and embedded in lightweight-aggregate concrete, with a structural concrete topping overall for a wear surface. About 550 cubic yards of Permalite perlite-aggregate insulating concrete were required for the 86'x201' floor. Design and construction proceeded under U.S. Patent #2,761,181.

The other application—roof deck for a new building in Texas—is equally interesting and entirely different. Here Permalite-aggregate lightweight insulating concrete was selected to provide both insulation and fire-safety. The unusual feature lies in the application to a sloping roof, a technique used in many outstanding buildings but frequently overlooked in planning buildings with other than flat roof decks.

Complete information on the application and advantages of Permalite lightweight insulating concrete and plaster may be obtained by writing to Permalite, 612 So. Flower St., Los Angeles 17, Calif.

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FRAMING

Lumber Calculator — Board Feet

SIZE OF TIMBER	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
4 x 4.....	10½	13½	16	18½	21½	24	26½	29½	32	34½	37½	40	42½	45½	48	50½	53½
4 x 6.....	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
4 x 8.....	21½	26½	32	37½	42½	48	53½	58½	64	69½	74½	80	85½	90½	96	101½	106½
4 x 10.....	26½	33½	40	46½	53½	60	66½	73½	80	86½	93½	100	106½	113½	120	126½	133½
4 x 12.....	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
4 x 14.....	37½	46½	56	65½	74½	84	93½	102½	112	121½	130½	140	149½	158½	168	177½	186½
4 x 16.....	42½	53½	64	74½	85½	96	106½	117½	128	138½	149½	160	170½	181½	192	202½	213½
6 x 6.....	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
6 x 8.....	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
6 x 10.....	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
6 x 12.....	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
6 x 14.....	56	70	84	98	112	126	140	154	168	182	196	210	224	238	252	266	280
6 x 16.....	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320
8 x 8.....	42½	53½	64	74½	85½	96	106½	117½	128	138½	149½	160	170½	181½	192	202½	213½
8 x 10.....	53½	66½	80	93½	106½	120	133½	146½	160	173½	186½	200	213½	226½	240	253½	266½
8 x 12.....	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320
8 x 14.....	74½	93½	112	130½	149½	168	186½	205½	224	242½	261½	280	298½	317½	336	354½	373½
8 x 16.....	85½	106½	128	149½	170½	192	213½	234½	256	277½	298½	320	341½	362½	384	405½	426½
10 x 10.....	66½	83½	100	116½	133½	150	166½	183½	200	216½	233½	250	266½	283½	300	316½	333½
10 x 12.....	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400
10 x 14.....	93½	116½	140	163½	186½	210	233½	256½	280	303½	326½	350	373½	396½	420	443½	466½
10 x 16.....	106½	133½	160	186½	213½	240	266½	293½	320	346½	373½	400	426½	453½	480	506½	533½
12 x 12.....	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480

SIZE OF TIMBER	8'	10'	12'	14'	16'	18'	20'	SIZE OF TIMBER	8'	10'	12'	14'	16'	18'	20'
1 x 2.....	1½	1½	2	2½	2½	3	3½	5/4 x 2.....	1½	2½	2½	2½	3½	3½	4½
1 x 3.....	2	2½	3	3½	4	4½	5	5/4 x 3.....	2½	3½	3½	4½	5	5½	6½
1 x 4.....	2½	3½	4	4½	5½	6	6½	5/4 x 4.....	3½	4½	5	5½	6½	7½	8½
1 x 5.....	3½	4½	5	5½	6½	7½	8½	5/4 x 5.....	4½	5½	6½	7½	8½	9½	10½
1 x 6.....	4	5	6	7	8	9	10	5/4 x 6.....	5	6½	7½	8½	10	11½	12½
1 x 8.....	5½	6½	8	9½	10½	12	13½	5/4 x 8.....	6½	8½	10	11½	13½	15	16½
1 x 10.....	6½	8½	10	11½	13½	15	16½	5/4 x 10.....	8½	10½	12½	14½	16½	18½	20½
1 x 12.....	8	10	12	14	16	18	20	5/4 x 12.....	10	12½	15	17½	20	22½	25
1 x 14.....	9½	11½	14	16½	18½	21	23½	6/4 x 2.....	2	2½	3	3½	4	4½	5
1 x 16.....	10½	13½	16	18½	21½	24	26½	6/4 x 3.....	3	3½	4½	5½	6	6½	7½
1 x 18.....	12	15	18	21	24	27	30	6/4 x 4.....	4	5	6	7	8	9	10
1 x 20.....	13½	16½	20	23½	26½	30	33½	6/4 x 5.....	5	6½	7½	8½	10	11½	12½
								6/4 x 6.....	6	7½	9	10½	12	13½	15
								6/4 x 8.....	8	10	12	14	16	18	20
								6/4 x 10.....	10	12½	15	17½	20	22½	25
								6/4 x 12.....	12	15	18	21	24	27	30

SIZE OF TIMBER	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
2 x 4.....	5½	6½	8	9½	10½	12	13½	14½	16	17½	18½	20	.....	.....	.....	.....	.....
2 x 6.....	8	10	12	14	16	18	20	22	24	26	28	30	32	.....	.....	.....	.....
2 x 8.....	10½	13½	16	18½	21½	24	26½	29½	32	34½	37½	40	42½	45½	48	50½	53½
2 x 10.....	13½	16½	20	23½	26½	30	33½	36½	40	43½	46½	50	53½	56½	60	63½	66½
2 x 12.....	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
2 x 14.....	18½	23½	28	32½	37½	42	46½	51½	56	60½	65½	70	74½	79½	84	88½	93½
2 x 16.....	21½	26½	32	37½	42½	48	53½	58½	64	69½	74½	80	85½	90½	96	101½	106½
3 x 4.....	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3 x 6.....	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
3 x 8.....	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
3 x 10.....	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
3 x 12.....	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
3 x 14.....	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
3 x 16.....	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160

8

FRAMING

Steel Beam & Column Design

Fiber Stress — 18,000#

BEAM		SPAN IN FEET																	
SIZE	WEIGHT	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
4"	8.5	9.5	7.6	6.3	5.4	4.7	4.2	3.8											
	10.5	10.7	8.5	7.1	6.1	5.3	4.7	4.3											
5"	10.0	14.5	11.6	9.7	8.3	7.3	6.5	5.8	5.3										
	12.25	16.2	13.0	10.8	9.3	8.1	7.2	6.5	5.9										
	14.75	18.0	14.4	12.0	10.3	9.0	8.0	7.2	6.5										
6"	12.5	21.8	17.4	14.5	12.5	10.9	9.7	8.7	7.9	7.3	6.7	6.2							
	14.75	23.8	19.0	15.9	13.6	11.9	10.6	9.5	8.7	7.9	7.3	6.8							
	17.25	26.0	20.8	17.3	14.9	13.0	11.6	10.4	9.5	8.7	8.0	7.4							
7"	15.3	31.0	24.8	20.7	17.7	15.5	13.8	12.4	11.3	10.3	9.5	8.9	8.3	7.7					
	17.5	33.4	26.7	22.2	19.1	16.7	14.8	13.3	12.1	11.1	10.3	9.5	8.9	8.3					
	20.0	36.0	28.7	24.0	20.5	18.0	16.0	14.4	13.1	12.0	11.1	10.3	9.6	9.0					
8"	18.4	42.7	34.1	28.5	24.4	21.3	19.0	17.1	15.5	14.2	13.1	12.2	11.4	10.7	10.0	9.5	9.0	8.5	
	20.5	45.2	36.1	30.1	25.8	22.6	20.1	18.1	16.4	15.1	13.9	12.9	12.0	11.3	10.6	10.0	9.5	9.0	
	25.5	51.1	40.9	34.1	29.2	25.5	22.7	20.4	18.6	17.0	15.7	14.6	13.6	12.8	12.0	11.4	10.8	10.2	
9"	21.8	56.6	45.3	37.7	32.3	28.3	25.2	22.6	20.6	18.9	17.4	16.2	15.1	14.2	13.3	12.6	11.9	11.3	
	25.0	60.9	48.7	40.6	34.8	30.5	27.1	24.4	22.2	20.3	18.7	17.4	16.2	15.2	14.3	13.3	12.8	12.2	
	30.0	67.6	54.1	45.1	38.6	33.8	30.0	27.0	24.6	22.5	20.8	19.3	18.0	16.9	15.9	15.0	14.2	13.5	
	35.0	74.2	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.7	22.8	21.2	19.8	18.6	17.3	16.5	15.6	14.8	
10"	30.0	80.1	64.1	53.4	45.8	40.1	35.6	32.0	29.1	26.7	24.6	22.9	21.4	20.0	18.8	17.8	16.9	16.0	
	35.0	87.5	70.0	58.3	50.0	43.7	38.9	35.0	31.8	29.2	26.9	25.0	23.3	21.9	20.6	19.4	18.4	17.5	
	40.0	94.8	75.8	63.2	59.2	47.4	42.1	37.9	34.5	31.6	29.2	27.1	25.3	23.7	22.3	21.1	20.0	19.0	

The loads are given in kips, a kip being 1,000 lbs.

SAFE LOADS FOR STEEL PIPE COLUMNS IN KIPS*

NOMINAL SIZE in INCHES	ACTUAL DIAMETER in INCHES	WEIGHT LBS. per FT.	LENGTH IN FEET															
			5	6	7	8	9	10	11	12	13	14						
2	2 3/8	3.65	12.2	10.6	9.0	7.4	6.6	5.8	5.0	4.1	3.3							
2 1/2	2 1/2	5.79	21.6	19.4	17.3	15.1	12.9	11.4	10.3	9.2	8.1	7.0						
3	3 1/2	7.58	29.0	28.6	26.3	24.0	21.7	19.4	17.1	15.2	14.0	12.9						
3 1/2	4	9.11	34.8	34.8	34.1	31.7	29.3	26.9	24.5	22.1	19.7	18.0						
4	4 1/2	10.79	41.2	41.2	41.2	40.1	37.6	35.1	32.6	30.0	27.5	25.0						
4 1/2	5	12.54	48.0	48.0	48.0	48.0	46.4	43.8	41.2	38.5	35.9	33.3						
5	5 1/2	14.62	55.9	55.9	55.9	55.9	55.9	54.2	51.5	48.7	46.0	43.2						
6	6 1/2	18.97	72.5	72.5	72.5	72.5	72.5	72.5	72.5	70.2	67.3	64.3						

*The loads are given in kips, a kip being 1,000 lbs.

SAFE LOADS FOR I-BEAM COLUMNS IN KIPS*

American Standard Sections

DEPTH in INCHES	AREA in SQ. IN.	LBS. per SQ. FT.	LENGTH IN FEET															
			3	4	5	6	7	8	9	10	11	12	13	14				
3	1.64	5.7	23.5	20.3	17.2	14.6	12.3	10.5										
4	2.21	7.7	33.0	29.1	25.3	21.8	18.7	16.1	13.9									
5	2.87	10.0	43.1	39.7	35.1	30.7	26.8	23.4	20.4	17.9								
6	3.61	12.5	54.2	52.1	46.9	41.8	37.0	32.7	28.9	25.5	22.6	20.2						
7	4.43	15.3	66.5	65.9	60.0	54.1	48.5	43.3	38.6	34.5	30.8	27.6	24.7					
8	5.34	18.4	80.1	80.1	74.9	68.3	61.8	55.7	50.1	45.0	40.5	36.5	33.0	29.8				
9	6.32	21.8	94.8	94.8	91.2	83.9	76.7	69.7	63.2	57.2	51.8	47.0	42.6	38.7				
10	7.38	25.4	110.7	110.7	109.5	101.7	93.8	86.0	78.7	71.8	65.6	59.7	54.5	48.8				

*The loads are given in kips, a kip being 1,000 lbs.

EXAMPLES:

To find correct I-beam size:

1. Determine uniformly distributed load.
2. Locate this load figure in column under span in feet.
3. Read size and weight of required beam in column at extreme left.

To find pipe column size:

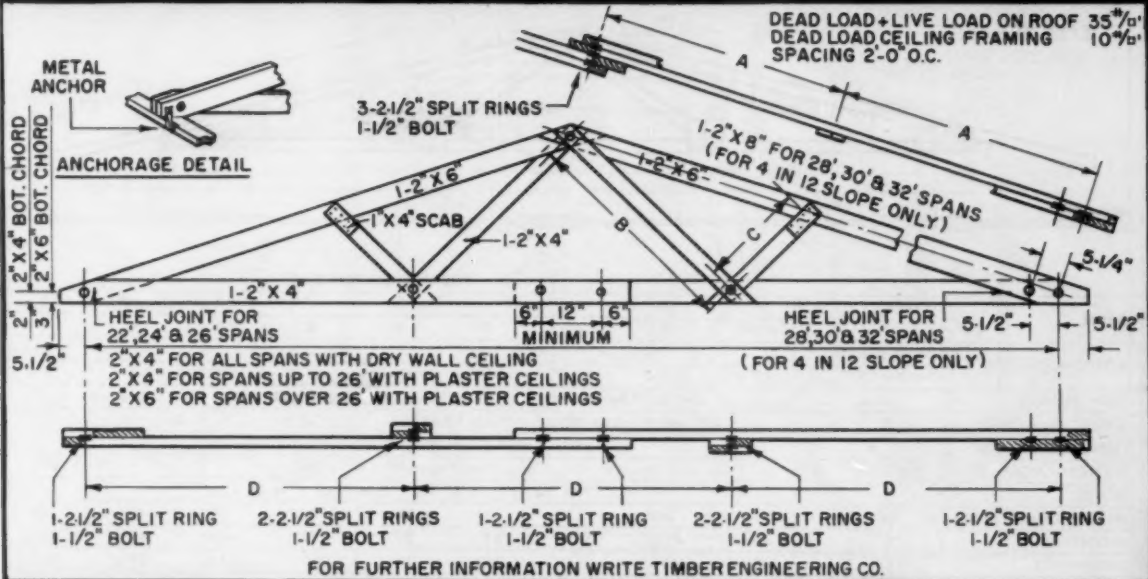
1. Determine load in kips. If column is to support center of beam supported at ends divide load in half.
2. Locate nearest load figure in column under required length.
3. Read size of pipe required in column at extreme left.

To find I-beam column size:

Follow same procedure as outlined for pipe columns.

FRAMING

Trussed Rafter Designs



FOR FURTHER INFORMATION WRITE TIMBER ENGINEERING CO.

PITCH	Length of Span	DIMENSIONS				LUMBER					
		A	B	C	D	SPAN	2"x8"	2"x6"	2"x4"	F.B.M. DRYWALL CEILING	F.B.M. PLASTER CEILING
4 12	20	5'-3 3/4"	4'-8 3/4"	2'-3 3/4"	6'-8"	18' 16'					
	22	5'-9 3/4"	5'-1 3/4"	2'-6 3/4"	7'-4"			2	2	51	51
	24	6'-3 3/4"	5'-7 1/2"	2'-9 3/4"	8'-0"			2	2	61	61
	26	6'-10 3/4"	6'-1 3/4"	3'-0 3/4"	8'-8"			2	2	68	68
	28	7'-4 3/4"	6'-6 3/4"	3'-3 3/4"	9'-4"			2	2	80	91
	30	7'-10 3/4"	7'-0 3/4"	3'-6 3/4"	10'-0"	2	(2)	2	2	88	100
	32	8'-5 3/4"	7'-6 3/4"	3'-8 3/4"	10'-8"	2	(2)	2	2	88	100
	5 12	20	5'-5"	5'-3 3/4"	2'-7 3/4"	6'-8"	20'	18'	16'	14'	12'	10'
22		5'-11 1/2"	5'-10 3/4"	2'-10 3/4"	7'-4"			2	2	53	53
24		6'-6"	6'-4 1/2"	3'-2"	8'-0"			2	2	60	60
26		7'-0 1/2"	6'-10 3/4"	3'-5 1/4"	8'-8"			2	2	63	63
28		7'-7"	7'-5 1/4"	3'-8 3/4"	9'-4"			2	2	70	70
30		8'-1 1/2"	7'-11 3/4"	3'-11 3/4"	10'-0"	2	(2)	2	2	73	80
32		8'-8"	8'-6 3/4"	4'-2 3/4"	10'-8"	2	(2)	2	2	79	91
32		8'-8"	8'-6 3/4"	4'-2 3/4"	10'-8"	2	(2)	2	2	85	95
6 12	20	5'-7 3/4"	5'-11 3/4"	2'-11 3/4"	6'-8"	20'	18'	16'	14'	12'	10'
	22	6'-1 3/4"	6'-6 3/4"	3'-3 3/4"	7'-4"			2	2	53	53
	24	6'-8 1/2"	7'-2 1/4"	3'-6 3/4"	8'-0"			2	2	63	63
	26	7'-3 3/4"	7'-9 3/4"	3'-10 3/4"	8'-8"			2	2	67	67
	28	7'-9 3/4"	8'-4 3/4"	4'-2 3/4"	9'-4"			2	2	69	69
	30	8'-4 3/4"	8'-11 3/4"	4'-5 3/4"	10'-0"	2	(2)	2	2	76	87
	32	8'-11 3/4"	9'-6 3/4"	4'-9 1/4"	10'-8"	2	(2)	2	2	79	94
	32	8'-11 3/4"	9'-6 3/4"	4'-9 1/4"	10'-8"	2	(2)	2	2	85	98
7 12	20	5'-9 3/4"	6'-8 3/4"	3'-3 3/4"	6'-8"	20'	18'	16'	14'	12'	10'
	22	6'-4 3/4"	7'-4 3/4"	3'-7 3/4"	7'-4"			2	4	60	60
	24	6'-11 3/4"	8'-0 3/4"	3'-11 3/4"	8'-0"			2	2	63	63
	26	7'-6 3/4"	8'-8 3/4"	4'-4"	8'-8"			2	4	70	70
	28	8'-1 3/4"	9'-4 3/4"	4'-8"	9'-4"			2	2	72	72
	30	8'-8 3/4"	10'-0 3/4"	5'-0 3/4"	10'-0"	2	(2)	2	2	78	90
	32	9'-3 3/4"	10'-8 3/4"	5'-4 3/4"	10'-8"	2	(2)	2	2	81	98
	32	9'-3 3/4"	10'-8 3/4"	5'-4 3/4"	10'-8"	2	(2)	4	4	88	100

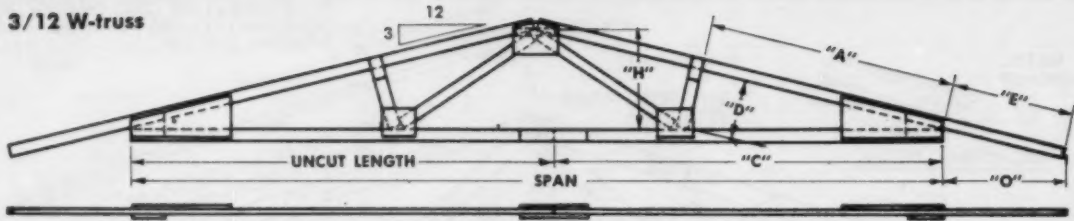
Note: Pieces in parentheses () are used in place of equal length 2x4's when plaster ceiling is used.

8

FRAMING

Typical glue-nail truss specifications

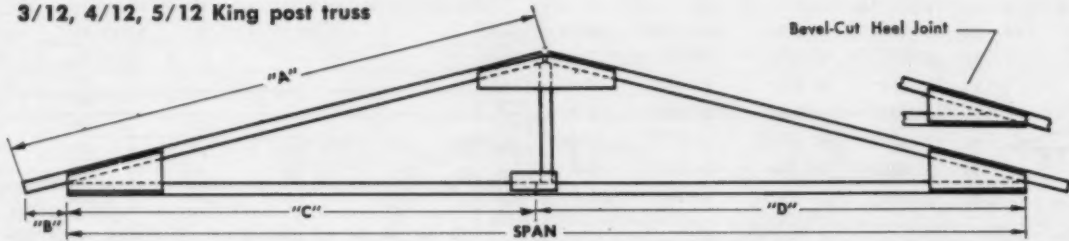
3/12 W-truss



CUTTING SCHEDULE

SPAN		24'			26'			28'		
		0"	4"	8"	0"	4"	8"	0"	4"	8"
BOTTOM CHORDS	Uncut Length	12'-0"								
	Member "C"	12'-0"	12'-4"	12'-8"	14'-0"	12'-4"	12'-8"	14'-0"	14'-4"	14'-8"
TOP CHORDS		Cut Top Chords Only If Less Overhang Than That Listed in Item "O" Is Desired.								
SHORT DIAGONAL	"D"	22"	23"	24"	25"	26"	27"	28"	29"	30"
LONG DIAGONAL		Use Material Left After Cutting Short Diagonals								
BOTTOM-CHORD SPLICE PLATES		Two Pieces 1" x 4" x 24"								
SCABS		Two Pieces 1" x 4" x 8"; One Piece 1" x 4" x 16"								
HEIGHT (Inside Dimension)	"H"	36"	36½"	37"	39"	39½"	40"	42"	42½"	43"
EXTENSION	"E"	43½"	41½"	39½"	31½"	29½"	27"	42½"	40½"	38½"
OVERHANG	"O"	42¼"	40¼"	38¼"	30¼"	28¼"	26¼"	41½"	39½"	37½"
DIMENSION "A"		7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"

3/12, 4/12, 5/12 King post truss



SPAN		26'			28'			30'			32'			
		0"	4"	8"	0"	4"	8"	0"	4"	8"	0"	4"	8"	
TOP CHORDS	Length "A"	16'-0"									20'-0"			
	Overhang "B"	2/12	33½"	31½"	29½"	45½"	43½"	41½"	33½"	31½"	29½"	45½"	43½"	41½"
		3/12	30¼"	28¼"	26¼"	42¼"	40¼"	38¼"	30¼"	28¼"	26¼"	42¼"	40¼"	38¼"
4/12	26¼"	24¼"	22¼"	36¼"	34¼"	32¼"	24¼"	22¼"	20¼"	34¼"	32¼"	30¼"		
BOTTOM CHORDS	"C"	14'-0"												
	"D"	14'-0"	12'-4"	12'-8"	14'-0"	14'-4"	14'-8"	14'-0"	14'-4"	14'-8"	16'-0"	16'-4"	16'-8"	
SPLICE PLATES — LENGTH		28"	24"	20"	20"	20"	20"	28"	24"	20"	20"	20"	20"	
POST LENGTH	Square-Cut on Bottom Chord	2/12	25½"	26"	26½"	27½"	28"	28½"	29½"	30"	30½"	31½"	32"	32½"
		3/12	38½"	39"	39½"	41½"	42"	42½"	44½"	45"	45½"	47½"	48"	48½"
		4/12	51½"	52"	52½"	55½"	56"	56½"	59½"	60"	60½"	63½"	64"	64½"
	Beveled Cut on Bottom Chord	Reduce all post lengths above by .5½ inches.												

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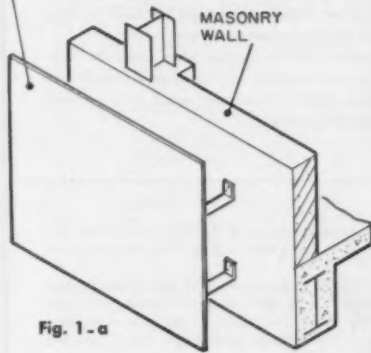
FRAMING

Curtain Wall Systems

In many commercial and industrial buildings the steel framework is the structural or main support of the building, while the "curtain wall" is a nonstructural covering, consisting of glass and many types of lightweight insulating panels of various textures, colors, and patterns.

There are three basic curtain wall systems in common use:

ALUMINUM OR STEEL FACING

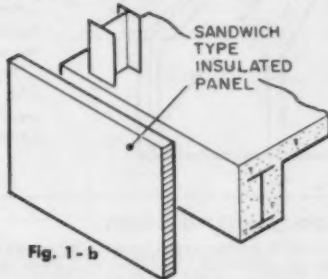


FACING TYPE CURTAIN WALL

In this type of wall (See Fig. 1-a) the skeleton steel framework is filled in with a lightweight masonry material such as cinder block or hollow clay tile. However, the material used must comply with the local hourly fire rated codes and provide the necessary thermal insulation.

A skin of aluminum, stainless steel or other material may be applied to the external surface of the wall, giving both weathertightness and finish treatment. The panels are attached to the steel framework either before or after the backing is placed.

MASONRY WALL



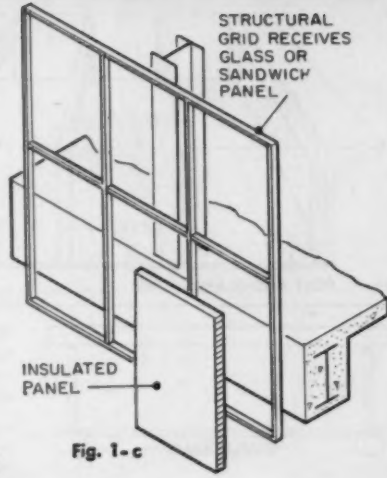
PREFABRICATED INSULATED TYPE CURTAIN WALL

This type of curtain wall consists of panels made up of a synthetic insulating material sandwiched between an exterior and interior finished facing material (Fig. 1-b).

External facings may be of stainless steel sheet, aluminum sheet or extruded aluminum shapes, asbestos cement, plywood and other exterior weather resistant materials. The inside face of the panel may be finished with aluminum, steel sheets, plywood, or compressed composition materials, with a painted surface if so desired.

A number of sandwich panels with their heat transmission coefficient "U" factors are shown in Fig. 2. These sandwich panels may be as thin as 1½" without requiring additional back-up material. The panels are fastened to the steel framework of the building and are quickly installed in convenient sizes. They are lightweight and have good insulating qualities despite their thinness.

SANDWICH TYPE INSULATED PANEL



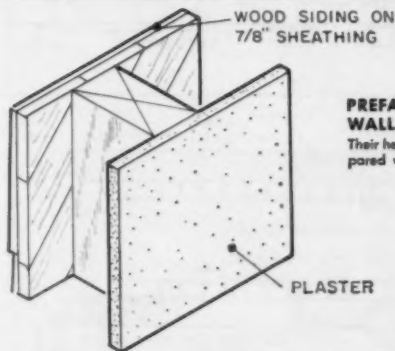
STRUCTURAL GRID RECEIVES GLASS OR SANDWICH PANEL

INSULATED PANEL

WINDOW WALL OR GRID TYPE CURTAIN WALL

In this system of curtain wall the external bay of the building is covered with a structural grid framework of aluminum extrusions or steel frame (Fig. 1-c). The grid may be filled in with glass or insulated panels of many patterns and colors. To insure weathertightness, caulking compounds or gaskets are used around the glass and the panels.

The window wall is easily installed, permitting large areas to be covered in a very short time. Standardization of the grid frame has made the window wall particularly economical.



PREFABRICATED INSULATED WALL PANELS

Their heat transmission coefficient "U" factor as compared with conventional frame wall.

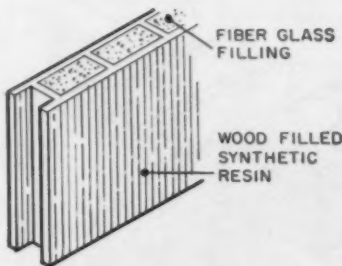
SHEET ALUMINUM BOTH SIDES

COMPRESSED ASBESTOS CORE

THICKNESS OF PANEL—1½"
"U"=0.20

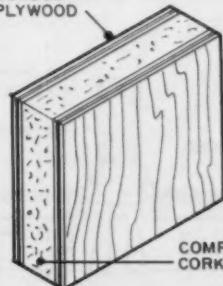
CONVENTIONAL FRAME WALL

"U"=0.26
"U"=0.10 insulated



THICKNESS OF PANEL—1½"
"U"=0.47 unfilled
"U"=0.34 filled

WATERPROOF RESIN BONDED PLYWOOD



THICKNESS OF PANEL—1½"
"U"=0.26

16 GA. STEEL PORCELAIN ENAMEL

1/4" ALUMINUM HONEYCOMB CEMENTED TO STEEL PANEL

18 GA. GALVANIZED STEEL PAINTED

2" FOAM GLASS CEMENTED TO ALUMINUM HONEYCOMB

THICKNESS OF PANEL—2½"
"U"=0.15

FRAMING

Contemporary Framing Methods

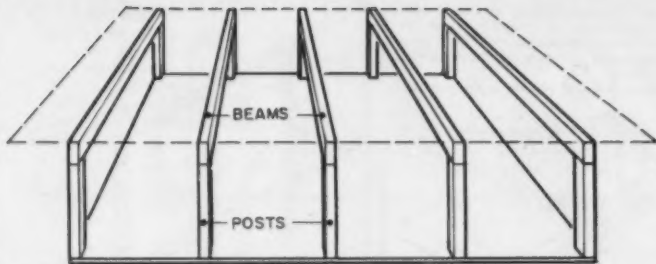


Fig. 1 POST-AND-BEAM SYSTEM

POST-AND-BEAM CONSTRUCTION

The principal variation from conventional framing methods is the post-and-beam system, in which roof loads are concentrated on beams supported by posts, rather than continuously on the walls. (See Fig. 1) Spacing of the posts is determined by the strength of the beam that spans between them.

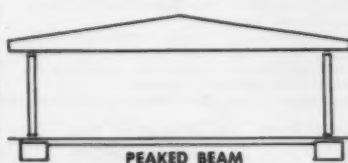
This method of construction gives complete flexibility. The roof structure can be of such materials as wood joists, planks, laminated wood strips, arches, and composition panels.



SIMPLE BEAM



TAPERED BEAM



PEAKED BEAM

GLUED-LAMINATED LUMBER

This type of lumber results from the joining of two or more pieces of lumber by glueing. The lumber is generally of 1" or 2" material, glued together to form beams (Fig. 2) arches, columns, and many other structural members.

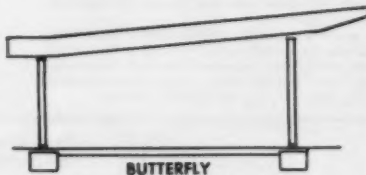
Advantages: the member is one-third stronger than a sawn member of equal size, giving more slenderness in design without sacrificing strength. Tests show that the glued joints are stronger than wood, and that time does not affect the adhesive qualities of the glue. Also, laminated lumber permits larger pieces of lumber in both cross-section and length than is possible in single pieces.

LAMINATED BEAMS AND PURLINS

Since laminated beams and purlins are manufactured by machine, and are planed and sanded to show the natural grain of the wood, they require no plastering, painting or other decorative treatment. They are economically practical when used as a finished product and exposed as part of the architectural treatment. When used merely as structural units they are generally more expensive than steel. For spans up to 30', solid timbers are usually cheaper than laminated sections, except for extremely heavy loads.



PEAKED & CAMBERED



BUTTERFLY

Fig. 2 GLUE-LAMINATED BEAMS

CONTEMPORARY FRAMING DETAILS

The contemporary framing in Fig. 3 employs five laminated wood bents in hollow rectangular shape, set 16' apart, from which the roof plane hangs and upon which the floor structure rests.

The 9" thick bents rise 16' and span 50'. They rest on a native stone foundation, cantilevering 8' over it on either side. Top and bottom chords are 30" deep. Ceiling beams are suspended from the laminated beams (Fig. 4) by joist hangers. The joist hangers are supported by a 3" x 1 1/2" channel iron running lengthwise under each laminated beam. The channel iron is fastened by bolts running through the entire beam. The wood bents have 45° sawcuts running along both sides of the chord to receive the roof flashing (Fig. 5).

Roof purlins, 3" x 3", run at right angles to the ceiling beams and provide nailing for the roof sheathing on a plane with the bottom of the chord. The floor joists (Fig. 6) rest on the bottom chords of the laminated beams and span the 16' distance between bents.

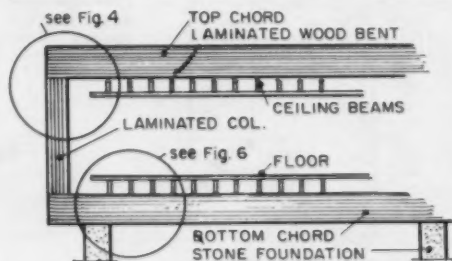


Fig. 3

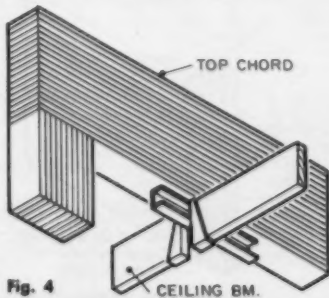


Fig. 4

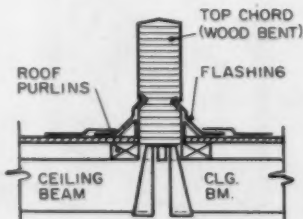


Fig. 5

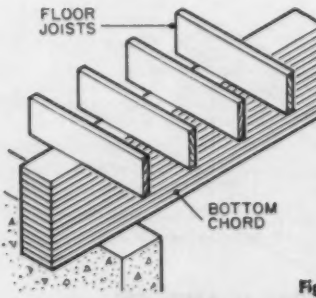


Fig. 6

Contemporary Framing Methods

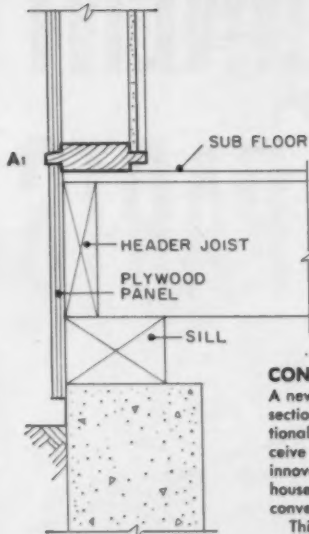


Fig. 7

CONTEMPORARY MILLWORK: System One

A new system of framing where only a number of milled sections are used can replace the stud wall of the conventional house. When in place, these milled sections will receive all doors, windows, glass or other wall panels. This innovation is as important to easy construction of modern houses as the stud frame wall was to the economy of the conventional house.

This system of framing employs standard milled sections cut from 2" x 6" common lumber. When the floor slab or platform is in place, strip A (Fig. 7) is placed around the periphery of the rough floor, in place of the usual shoe or sole plate. This immediately produces the exterior bottom trim with drip and shadow line under the plywood panels used on the outside. It also provides the exterior door sills and, at the same time, the interior baseboards that will project above the finished floor. Fig. 8 shows how strip A is used on masonry construction.

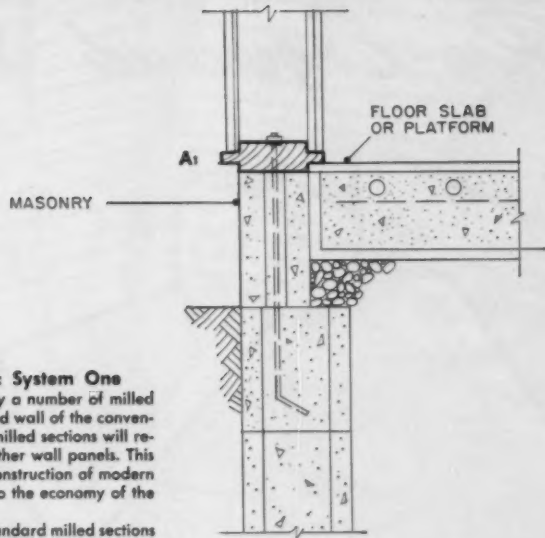
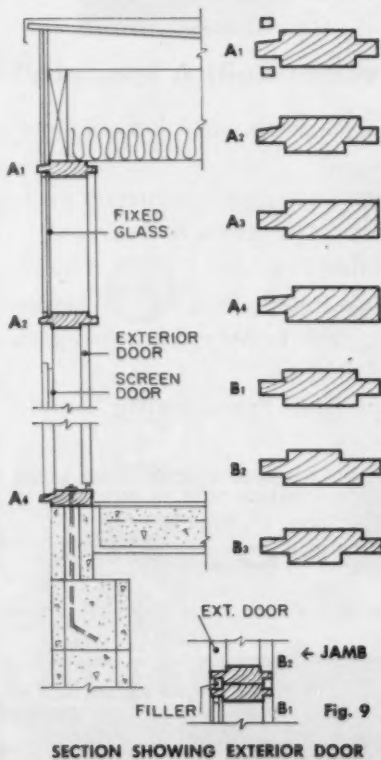


Fig. 8

8



Vertical 4 x 4s, widely spaced, are capped by another strip A, on Fig. 9, 10. These are nailed directly on top of the posts, but act as head trim for all doors, windows, interior or exterior wall finishes, and again as sill for strips either of wood fascia or of glass inserted in the spaces between the ends of the roof beams. All vertical members B, B1, B2 serve as mullions and post casings since the building on which these milled sections are used are ideally suited to post-and-beam construction.

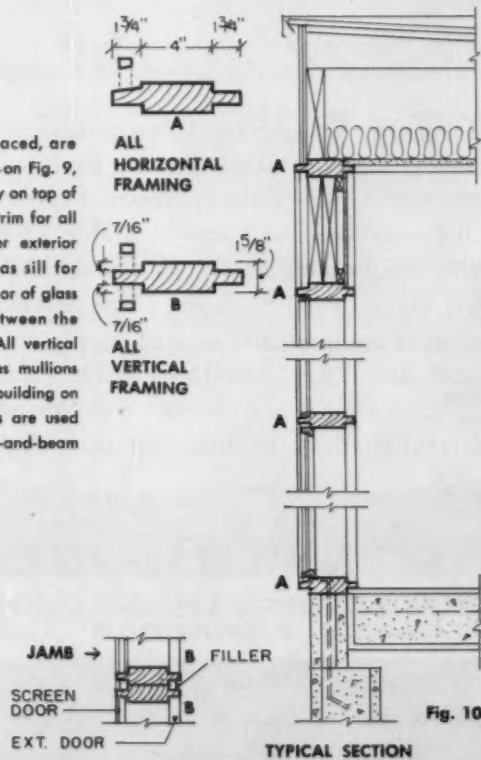
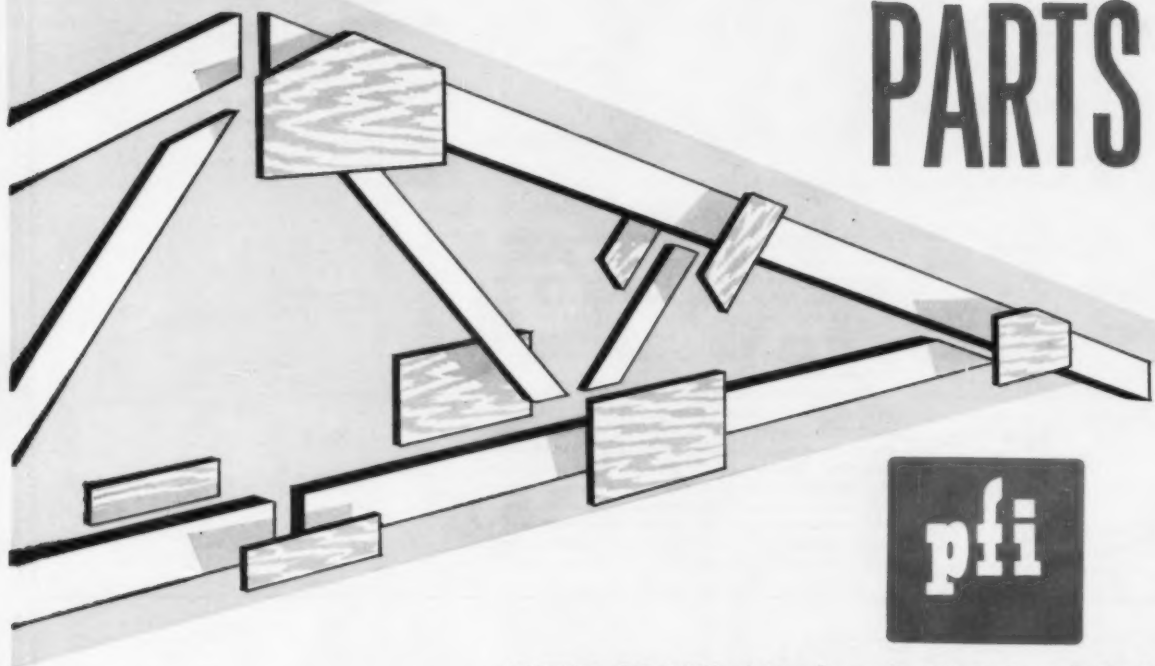


Fig. 10

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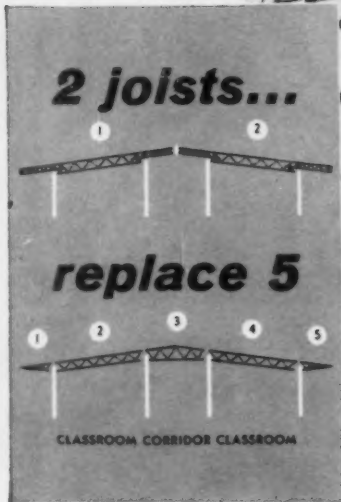
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Cost saving was a pre-eminent factor in architect William B. Ittner's design of this low-flung structure, with its long straight runs, free of costly jogs and bends. Further economy was achieved by allowing the rolling terrain to fall away from the single continuous ridgeline, rather than to follow the contours of the ground with multi-level roofs.

This design concept was based on the selection of open web steel joists as a versatile, economical structural material. Laclede 34' joists, with special shallow-depth ends, were used to provide an unbroken slope from ridgeline to cantilevered overhang, two joists replacing the five structural elements formerly required in this type of roof construction.



General contractor on the project was Kloster Company. Neal J. Campbell was consulting engineer.

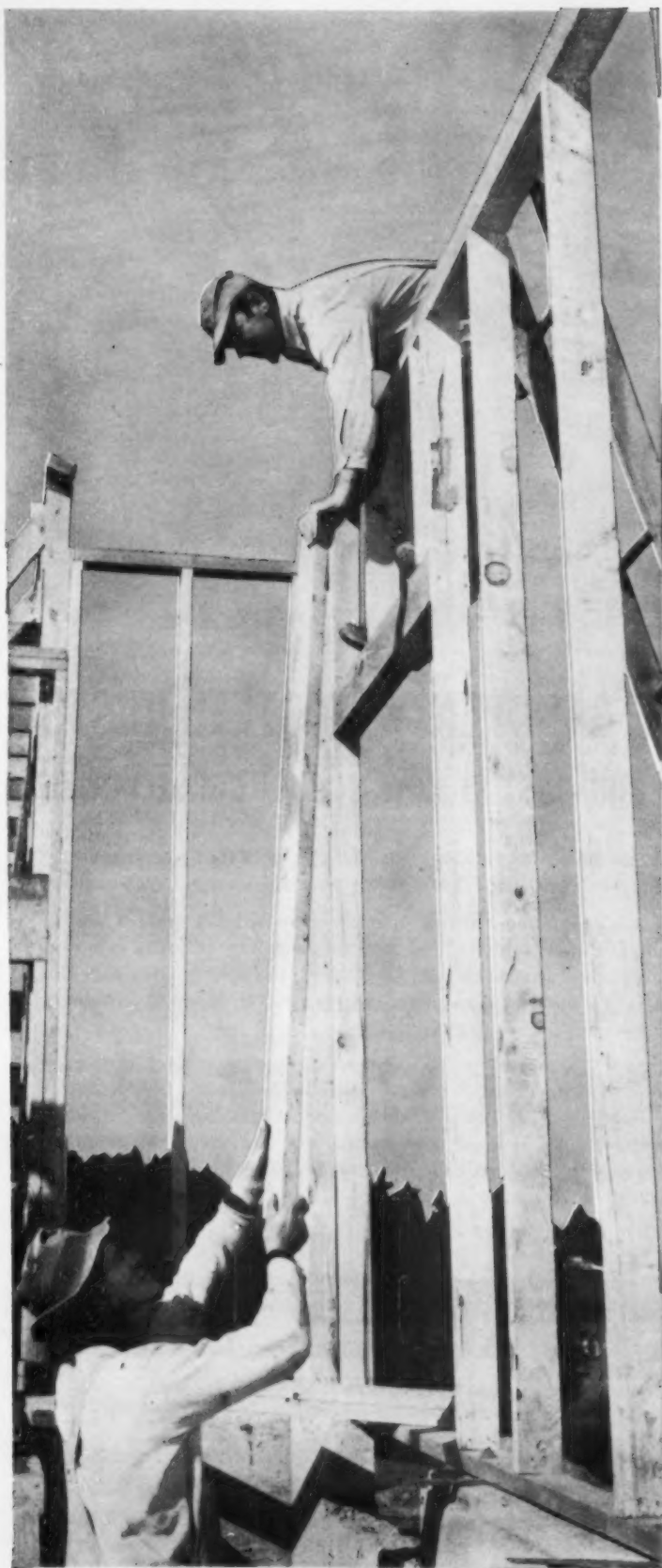
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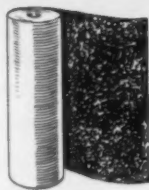
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ROOFING, SIDING, INSULATION, SHEATHING

Asphalt Roofing Guide



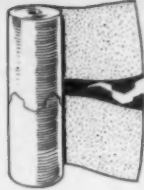
ASPHALT SATURATED FELT



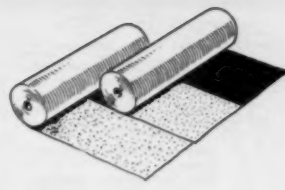
MINERAL SURFACED ROLL



SMOOTH ROLL



PATTERN EDGE ROLL

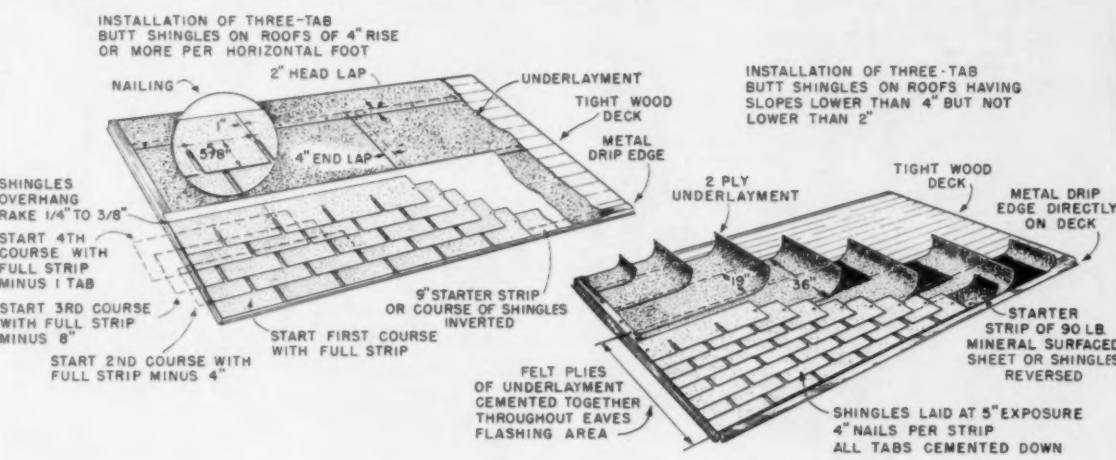


19" SELVAGE DOUBLE COVERAGE

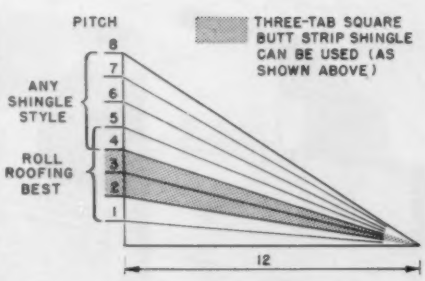
1 - LENGTH					2 - WIDTH					3 - SIDE OR END LAP					4 - HEAD LAP					5 - EXPOSURE									
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
144'	36"	4"	2"	34"	36'	36"	4"	2"	34"	36'	36"	4"	2"	34"	42'	36"		2"	16"	36'	36"				36'	36"			
22'	36"	4"	2"	34"	36'	36"	6"	3"	33"	36'	36"	4"	2"	34"	48'	32"		2"	14"	36'	36"				19"	17"			
					36'	36"	6"	4"	32"	36'	36"	4"	2"	34"															

3-TAB SQUARE BUTT STRIP SHINGLE					2-TAB HEX STRIP SHINGLE					3-TAB HEX STRIP SHINGLE				
36"	12"		2"	5"	36"	12"		4"	4"	36"	11 1/3"		2"	4 2/3"
36"	12"		4"	4"	36"	11 1/3"		2"	4 2/3"	36"	11 1/3"		2"	4 2/3"

INDIVIDUAL STAPLE DOWN					GIANT INDIVIDUAL AMERICAN					DUTCH LAP				
16"	16"	2 1/2"			16"	12"		6"	5"	16"	12"	3"	2"	10"
16"	12"				16"	12"		6"	5"	16"	12"	3"	2"	10"



	SHINGLES PER SQUARE	NAILS PER SHINGLE	NAILS PER SQUARE	LENGTH OF (IN) NAIL	LBS. PER SQUARE (APPROX)	
					12 GA. BY 7/16" HEAD	11 GA. BY 7/16" HEAD
ROLL ROOFING ON NEW DECK			252	1"	.73	1.12
ROLL ROOFING OVER OLD ROOFING			252	1 3/4"	1.13	1.78
19" SELVAGE OVER OLD SHINGLES			181	1 3/4"	.83	1.07
3-TAB SQUARE BUTT NEW	80	6	504	1 1/4"	1.83	2.32
3-TAB SQUARE BUTT REROOFING	80	6	504	1 3/4"	2.38	3.01
HEX STRIP NEW	86	4	361	1 1/4"	1.28	1.68
HEX STRIP REROOFING	86	4	361	1 3/4"	1.65	2.03
GIANT AMERICAN	226	2	479	1 1/4"	1.79	2.27
GIANT DUTCH LAP	113	2	236	1 3/4"	1.07	1.39
INDIVIDUAL HEX	82	2	172	1 3/4"	.79	1.03

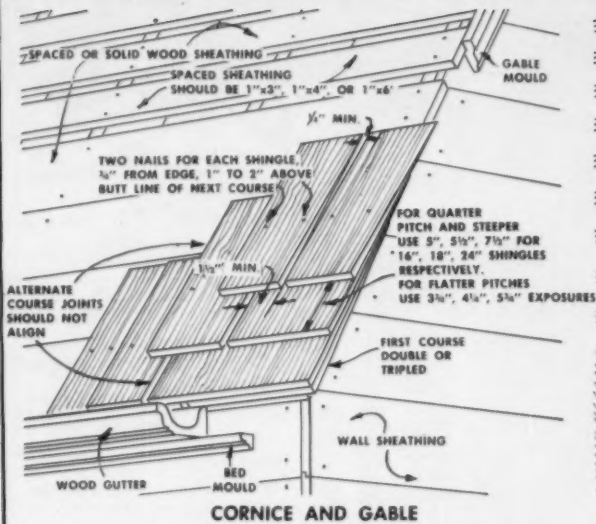


(*) LENGTH OF NAIL SHOULD ALWAYS BE SUFFICIENT TO PENETRATE AT LEAST 3/4" INTO SOUND WOOD DECK LUMBER. NAILS SHOULD SHOW LITTLE, IF ANY, BELOW UNDER-SIDE OF DECK LUMBER.

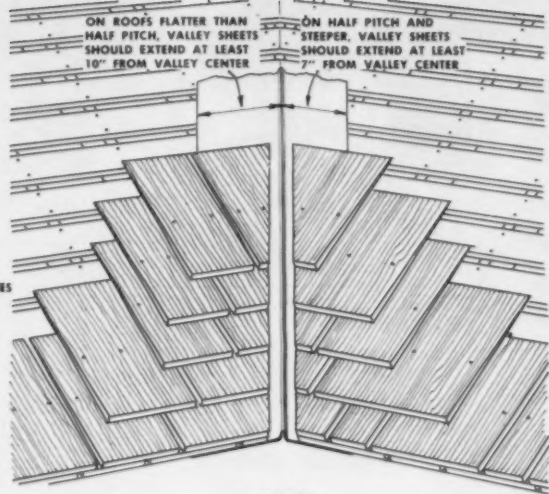
COURTESY OF THE ASPHALT ROOFING INDUSTRY BUREAU

ROOFING, SIDING, INSULATION, SHEATHING

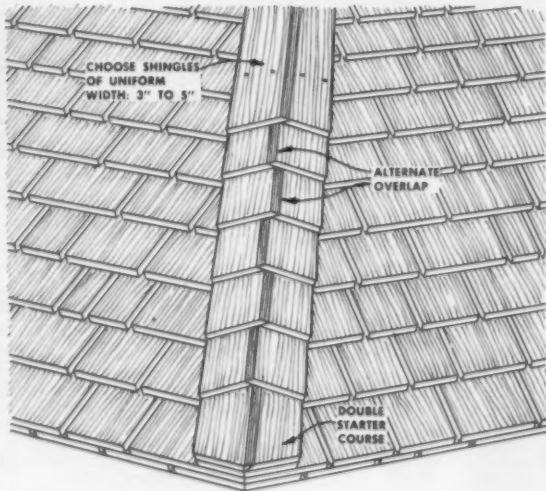
Red Cedar Shingles



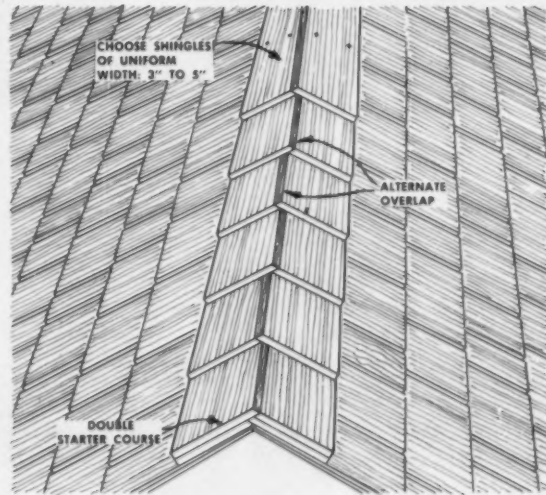
CORNICE AND GABLE



VALLEY

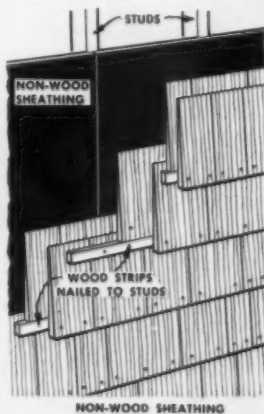


HIP

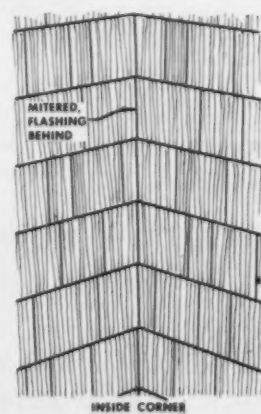


RIDGE

ROOFS



OUTSIDE CORNER



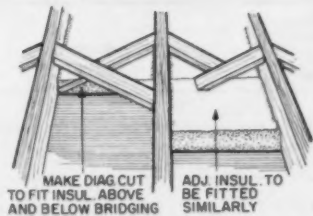
INSIDE CORNER

WALLS

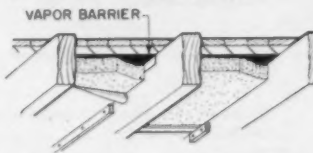
ROOFING, SIDING, INSULATION, SHEATHING

Insulation Guide

BETWEEN BRIDGING

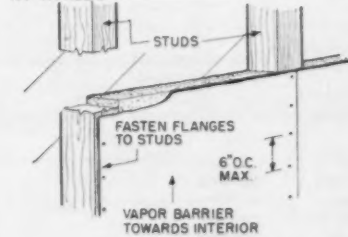


BETWEEN CEILING JOISTS



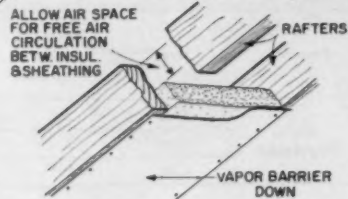
EITHER VAPOR PERMEABLE ASPH. FELT, WOOD STRIPS OR LACING WIRE, TO HOLD INSUL. AGAINST FLOORING

IN WALLS

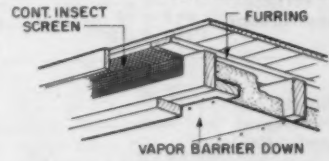


COURTESY: NATIONAL MINERAL WOOL ASSOCIATION

BETWEEN RAFTERS

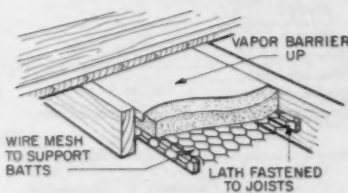


IN FLAT ROOFS

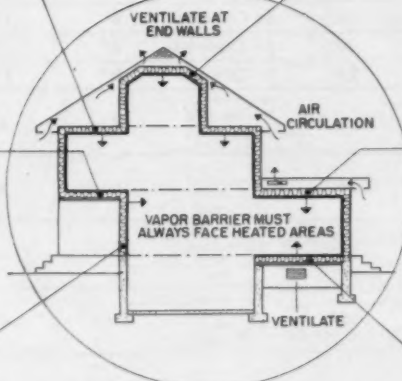


INSTALL FURRING AND SCREEN AS SHOWN IF FREE AIR CIRCULATION PARALLEL TO RAFTERS CANNOT BE PROVIDED

IN CRAWL SPACES



ALTERNATIVES: LACE BAILING WIRE BETW. JOISTS SECURED WITH STAPLES, OR ARCH. II GAUGE WIRE BETWEEN JOISTS



ALWAYS USE THE 6-3-2 RULE:

6" BATTS AS BLANKETS BETWEEN RAFTERS OR JOISTS, 3" BATTS BETWEEN STUDS AND 2" BATTS BELOW FLOORS

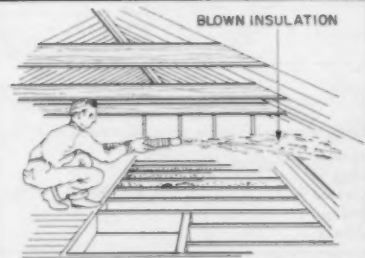
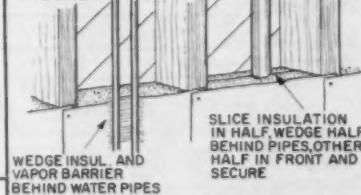
NAILING:

6" MAXIMUM SPACING

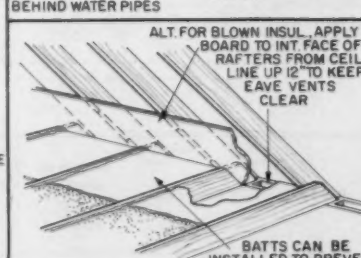
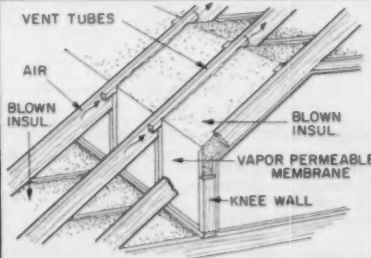
BLANKET SIZES

1	15" WIDTHS BETWEEN STUDS OR JOISTS - 16" O.C.
2	19" WIDTHS BETWEEN STUDS OR JOISTS - 20" O.C.
3	23" WIDTHS BETWEEN STUDS OR JOISTS - 24" O.C.

AROUND PIPES

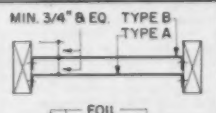


BLOWN INSULATION

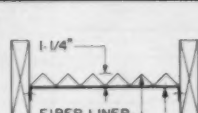


BATTS CAN BE INSTALLED TO PREVENT BLOCKING OF EAVE VENTS

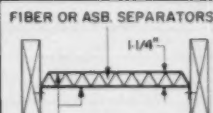
REFLECTIVE INSULATION



ALUM. IS ASPHALT LAMINATED TO HEAVY CRAFT PAPER ONE OR BOTH SIDES
TYPE A USED ALONE OR WITH TYPE B, SPACE EQ. DIVIDED 25", 33", 36" WIDTHS



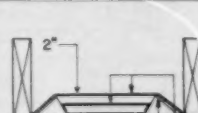
ECONOMICAL FOR WALL & CRAWL SPACES
16" & 24" WIDTHS



AVAILABLE IN 12", 16" & 24" WIDTHS
HEAVY WEIGHT FOIL IN 16" & 24" WIDTHS



THIN COAT OF ALUM. BONDED 2 SIDES OF KRAFT PAPER



VAPOR BARRIER PAPER
ALUMINUM FOIL
12", 16", 20" AND 24" WIDTHS

ROOFING, SIDING, INSULATION, SHEATHING

Sheathing Standards

WALL SHEATHING

Product	Sizes	Recommended Thicknesses	Maximum Stud Spacing (O.C.)	Nail Size and Type	Nail Spacing (Panel Edge)	Nail Spacing (Intermediate)	Notes
Fir Plywood	4'x8'	3/8"	16"	6d Common	6"	12"	Apply with face grain perpendicular to studs.
	4'x8'	3/8", 1/2"	24"	6d Common	6"	12"	
	4'x8'	3/8"	24"	8d Common	6"	12"	
Fiberboard (Vertical Application)	4'x8'-4'x9'	3/8"	16" or 24"	1 3/8" 12 ga. Galvanized Rfg. Nails 3/8" head	3"	6"	Drive nails until head is flush with sheathing surface.
	4'x8'-4'x9'	1/2"	16"	1 1/2" 12 ga. Galvanized Rfg. Nails 3/8" head	3"	6"	
	4'x10'-4'x12'	1/2"	16"	1 1/2" 12 ga. Galvanized Rfg. Nails 3/8" head	3"	6"	
Fiberboard (Horizontal Application)	2'x8'	3/8"	16"	1 3/8" 12 ga. Galvanized Rfg. Nails 3/8" head	4 1/2"	8"	Stagger end joints in successive courses.
	2'x8'	1/2"	16"	1 1/2" 12 ga. Galvanized Rfg. Nails 3/8" head	4 1/2"	8"	
Gypsum Board (Horizontal Only)	2'x8'	1/2"	16"	1 3/8" 11 ga. Galvanized Rfg. Nails 3/8" head	4"	8"	
Wood (Diagonal or Horizontal Application)	1"x4" to 1"x8"		16"	8d Common	2 Nails at all Bearings		Joints in adjacent boards separated by 2 stud spaces.
	Above 1"x8"		16"	8d Common	3 Nails at all Bearings		

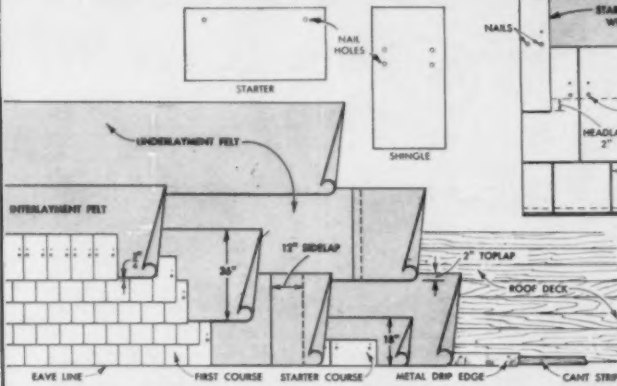
STAPLE APPLICATION SPECIFICATIONS

Product	Thickness of Fiberboard	Maximum Stud Spacing	Gauge of Staple	Minimum Crown of Staple	Minimum Length of Staple	Spacing at Edge of Sheet	Spacing at Intermediate Members	Notes
Fiberboard Wall Sheathing (with Diagonal Bracing)	1/2"	16"	16	3/8"	1 1/4"	4"	6"	1. 1/2" Fiberboard shall be special dense type. 2. Unless engineering analysis of racking resistance is submitted for FHA determination, each wall shall contain at least one eight foot or three four foot wall sections without openings. 3. Panel must be nailed around entire perimeter.
	1/2"	16"	14	3/8"	1 1/4"	4"	8"	
	3/8"	24"	16	3/8"	1 1/4"	4"	6"	
	3/8"	24"	14	3/8"	1 1/4"	4"	8"	
Fiberboard Wall Sheathing (without Diagonal Bracing)	1/2"	16"	16	3/8"	1 1/4"	3"	6"	
	1/2"	16"	14	3/8"	1 1/4"	4"	8"	
	3/8"	16"	16	3/8"	1 1/4"	3"	6"	
Gypsum Lath	3/8"	16"	16	3/8"	3/8"	5"		
	1/2"	16"	16	3/8"	1"	5"	For Gypsum Lath, staples shall be driven with the crown parallel to the long dimension of the framing member, using not less than 4 staples per 16" width of lath per framing member and not more than 5" o.c., in such a manner that the crown bears tightly against the lath but does not cut into the face paper. The legs of the staples shall be no less than 3/8" from the ends and edges of the lath. For Gypsum Wall Sheathing: no less than 5 staples per 24" width of sheathing per framing member and not more than 6" o.c., and for First Ply, etc., not more than 5" o.c. on ceilings and 6" o.c. on sidewalls.	
	1/2"	24"	16	3/8"	1"	4"		
Gypsum Wall Sheathing (with diagonal Bracing)	1/2"	16"	16	3/8"	1 1/4"	6"		
	1/2"	24"	16	3/8"	1 1/4"	6"		
First Ply Only of Two-Ply System Gypsum Dry-Wall Interior Finish	3/8"	16"	16	3/8"	1"	5" on ceilings 6" on walls		
	3/8"	24"	16	3/8"	1 1/4"	5" on ceilings 6" on walls		

ROOFING, SIDING, INSULATION, SHEATHING

Asbestos Cement Roofing Guide

Asbestos-Cement Roof shingles may be applied on roofs having a slope of 5" in 12" or greater. Using the low slope application methods shown here, they may be applied on slopes as low as 2" in 12".



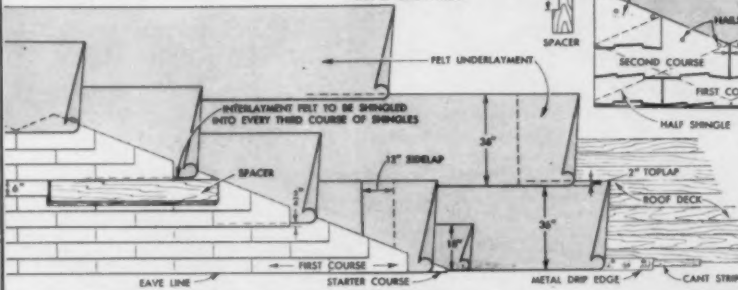
Individual American Method shingles.

	Nails	Blotometer	Length	Type
Over solid lumber deck	$\frac{3}{8}$ "		Approx. 1 $\frac{1}{4}$ "	1
Over plywood deck	$\frac{3}{8}$ "		not over 1 $\frac{1}{4}$ "	2
For reroofing	$\frac{3}{8}$ "		2"	1

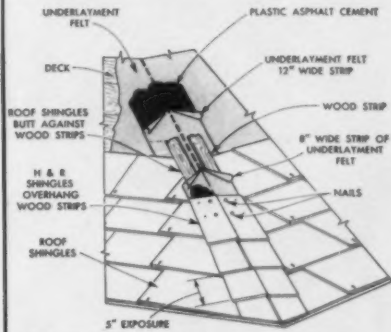
1. Smooth, Barbed, or Threaded
2. Single screw thread barbing, or ring barbing

Low-slope application method for American Method Individual shingles.

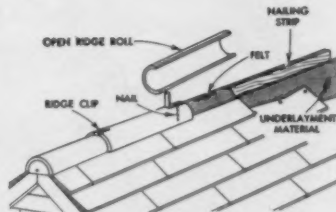
Note: Alignment feature of shingles will be obscured by felt on every third course. Snap chalk lines to provide accurate alignment or use an alignment spacer made of wood or metal.



Low-slope application for American Method Multiple-Unit shingles.

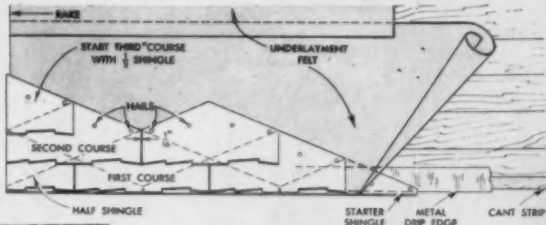


Application Method for finishing Hips and Ridges.

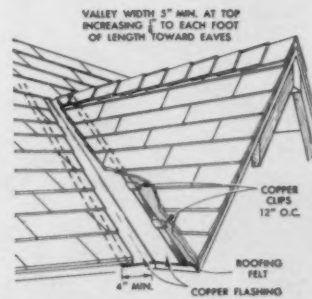


Ridge Roll used on Ridge as alternate to Ridge shingles.

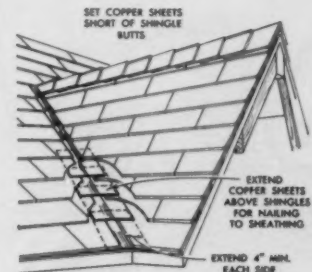
Asbestos Cement Roof shingles are manufactured with holes properly located and pre-punched to receive concealed roofing nails. Nails, which are not provided, must be made of non-corrodible metal or hot-dipped galvanized steel, needle or diamond pointed with heads approximately $\frac{3}{8}$ " dia. Underlayment and interlayment must be 15 lb. asphalt-saturated organic felt.



Application Method for another design of American Method Multiple-Unit shingle.



Open-Valley Flashing.



Closed-Valley Flashing.

4 Basic Types of Asbestos Cement Roof shingles

Type	Width	Height	Thickness	Exposure	Approx. Shipping wt.
American Method Individual Unit	8"	16"	$\frac{3}{32}$ "	7"	350 lbs.
	9"	18"	$\frac{1}{4}$ "	8"	585 lbs.
American Method Multiple Unit	24" to 30"	14" to 15 $\frac{1}{2}$ "	$\frac{5}{32}$ " to $\frac{1}{4}$ "	6" to 6 $\frac{1}{2}$ "	300 lbs. to 440 lbs.
	Dutch Lap	16"	16"	$\frac{3}{32}$ "	12" x 13"	265 lbs.
Ranch Design	24"	12"	$\frac{3}{32}$ "	20" x 9"	255 lbs.

Courtesy: Asbestos Cement Products Association

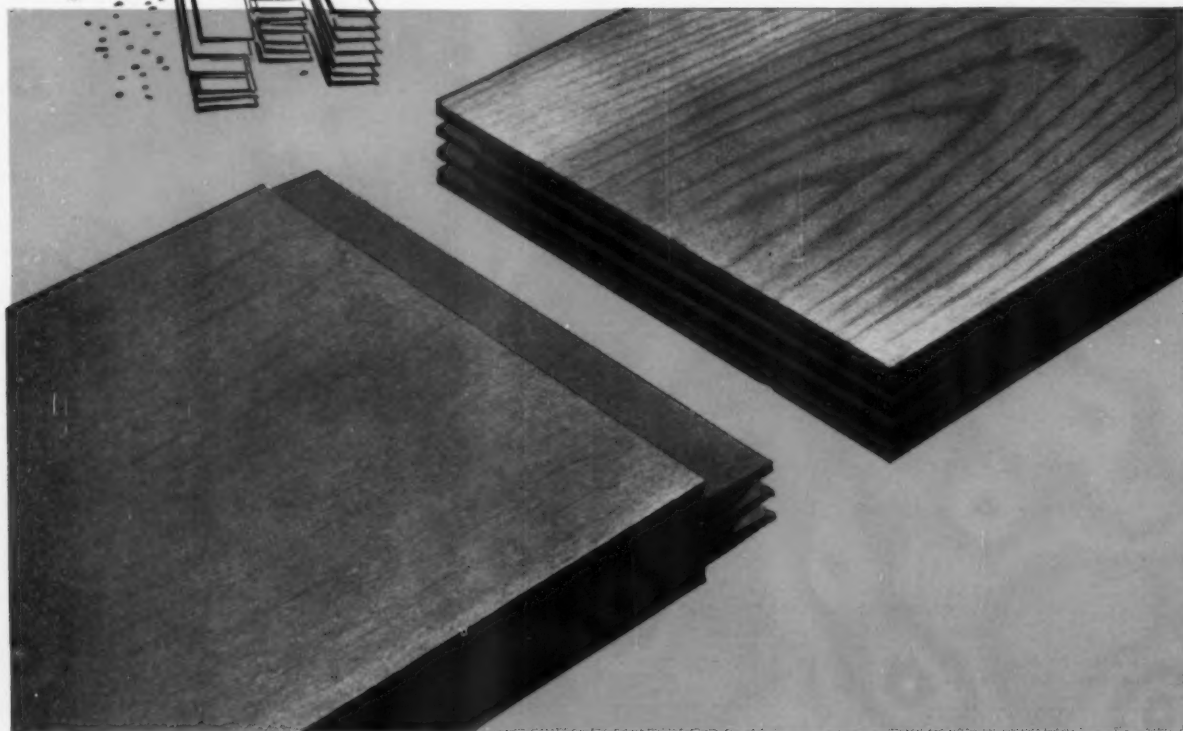


now . . . **PALCO-LOC** . . . tailor-made
lumber in custom lengths to fit
builder requirements, exactly.



Our finest Architectural Quality, certified kiln-dried redwood — finger-jointed and electronically glued to produce permanently strong, long pieces — for exterior or interior use. All specified, or any combination of lengths, at no extra cost!

Available in boards or worked patterns . . . also factory paint-primed if desired. Buy PALCO — standard of comparison since 1869.



THE PACIFIC LUMBER COMPANY

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2185 Huntington Drive, San Marino 9, California



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The ladies buy the homes you build!

Make your homes instantly wanted
... "clothe" them in the natural beauty
and warmth of genuine wood siding!

Whether for her person or her home, the discerning lady desires a wardrobe that is functional...practical...fashionable...handsome... and above all *genuine*. Just as with fine furs, homes "clothed" in genuine wood instinctively appeal to her! And for the very best, demand Weyerhaeuser 4-SQUARE®... the most dependable name in wood.



Weyerhaeuser Company

Lumber and Plywood Division



FREE COLORFUL "HOME FASHIONS" BOOK helps you sell your homes "clothed" in genuine Weyerhaeuser 4-SQUARE siding. Include in your model homes. Handy request form speeds it to you. Write Weyerhaeuser Company, Trade Promotion Department, Tacoma 1, Wash.

Firm.....

Address.....

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

MORE COLORS for builders
LESS CARE for buyers...



Dover White • Sheffield Gray • Coffee Brown • Jade Green • Soft Coral • Turquoise • Desert Tan • Charcoal Gray • Mayfair Green • Jonquil Yellow



UNITED STATES GYPSUM

the greatest name in building

REGENCY

NEW PLASTIC-SURFACED SIDING FROM U.S.G.

10 DISTINCTIVE COLORS!

BAKED ON PLASTIC FINISH

LASTS FOR YEARS... EASY UPKEEP

PUTS EVERY BUYER ON "EASY STREET"

New REGENCY plastic-surfaced siding brings big news to builders with... color! REGENCY is available in 10 distinctively different shades. With its wide range of color, REGENCY can make exteriors of homes having the same basic floor plan look dramatically different. With its subtle shake texture, it blends beautifully with any other exterior material you choose.

There's big news for homeowners, too, because REGENCY's plastic surface needs less care, and lasts for years and years. This carefree feature means you can sell more REGENCY-sided homes by offering modern "Easy Street" living... through less upkeep. Made of an asbestos cement base, REGENCY is fireproof, wind and weather resistant.

U.S.G. has prepared a builder merchandising program to help you sell "Easy Street" living, and to realize the full potential and profit of REGENCY. Read about it below... then mail the coupon today.



NEW

EASY STREET

SALES PROGRAM MEANS EASY SELLING FOR YOU

To help you build better and sell faster, U.S.G. has prepared this builder sales program. It's designed especially for you. Send for full information today.

- **STYLE WITH SIDING**—an architect's sketchbook of design ideas by L. Morgan Yost. Shows and tells how you can use REGENCY with a variety of architectural styles and exterior materials. Included are sketches, tips for application, facts on how REGENCY helps builders and pleases buyers.
- **PERSONALIZED BUILDER LITERATURE.**
- **MODEL HOME MERCHANDISING CENTER.**

United States Gypsum, Dept. AB-11
300 W. Adams St., Chicago 6, Ill.

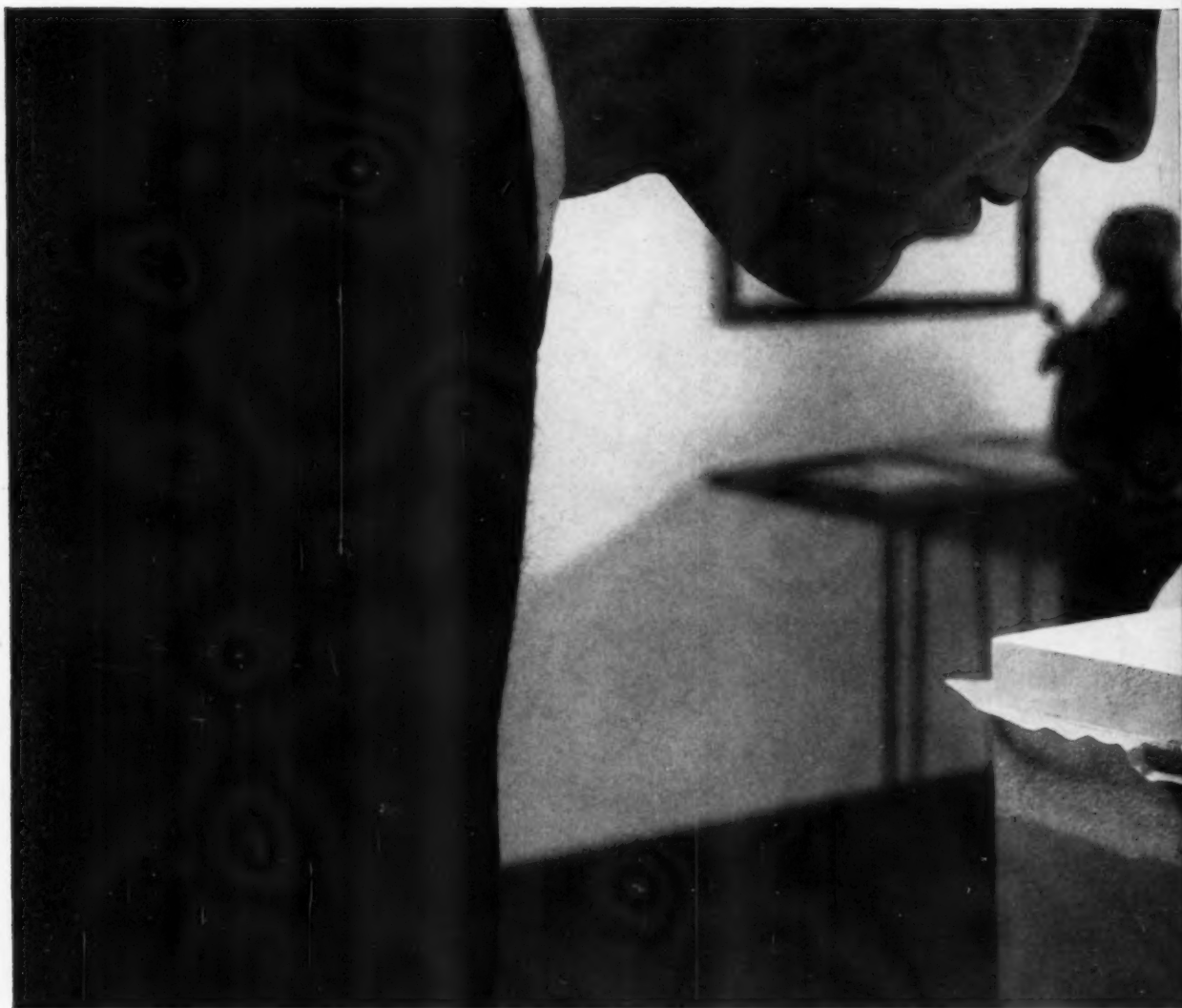
Please have the U.S.G. salesman call with my personal copy of the "STYLE WITH SIDING" Sketchbook and full information on REGENCY Siding and the new "Easy Street" merchandising program for builders.

Name _____

Company _____

Address _____

City _____ Zone _____ State _____



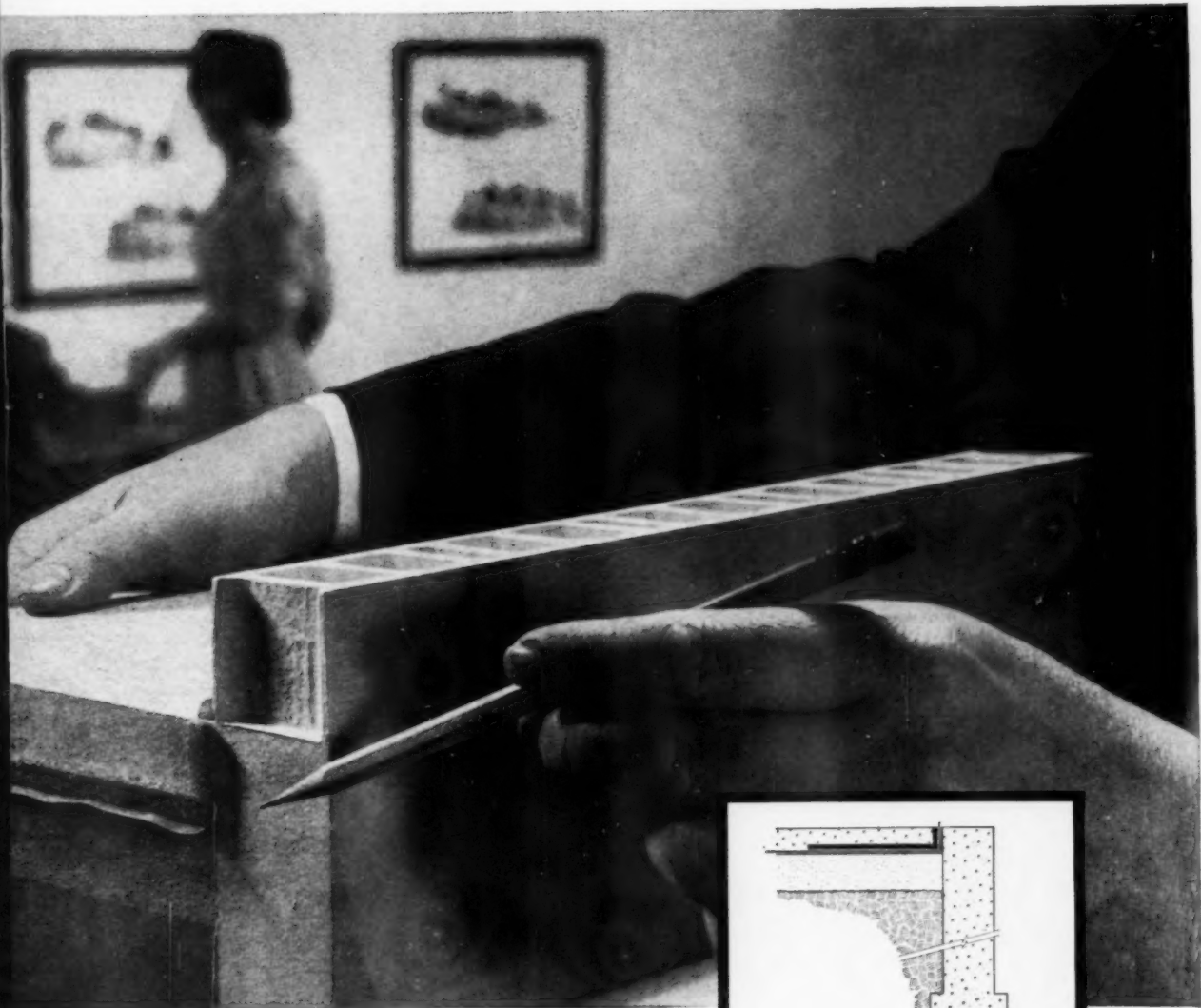
SCORBORD[®] AND POLYFILM[®]

Build comfort into your slab floors with positive permanent insulation against cold and ground moisture. SCORBORD and POLYFILM are quick and easy to lay . . . give you "plus" benefits to sell.

Homes and buildings are easier to sell . . . and "most wanted" . . . when you build in permanently warm, dry slab floors. Scorbord and Polyfilm stop heat loss and moisture entry through foundations and floors, regardless of temperature conditions outside. These Dow Building Products are easy and economical to install. The result: more comfortable buildings, lower heating costs, *more* satisfied buyers.

SCORBORD (Patent applied for) perimeter insulation. To install, simply snap off the prescored width you want and lay it without adhesive against the foundation and on the fill. It is excellent for both heated and unheated slabs and for crawl spaces.

POLYFILM polyethylene film. Forms a permanent ground-moisture barrier. Lay Polyfilm on the fill and place concrete directly over it. In crawl spaces, use it to cover all exposed ground. And for flashing around door openings and window framing, staple strips of Polyfilm around the openings before installing frames.

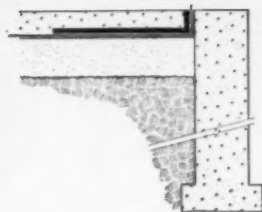


keep slab floors warm and dry

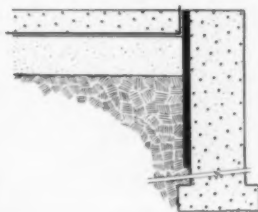
OTHER DOW BUILDING PRODUCTS

STYROFOAM® insulation board for insulating cavity walls and as an insulating base for plaster and wall-board with masonry walls. Low "K" factor and high moisture resistance.

SARALOY® 400 flexible sheet flashing. Installs easily without complicated pre-fabrication. For information on these and other Dow Building Products, write THE DOW CHEMICAL COMPANY, Midland, Mich., Plastics Sales Dept. 1512D4.



Scorboard for insulating perimeters can be used horizontally and vertically (above) or vertically only (below).



Scorboard interrupts the passage of heat from slab to foundation, helps prevent condensation around slab perimeter.

THE DOW CHEMICAL COMPANY

DOW

Midland, Michigan

How to make a lasting *offer exteriors that stay*



Will you invade his "in forever?"

MASONITE Division of Masonite Corporation

This ad, in current issues of *Better Homes & Gardens*, *American Home*, *Sunset* and *Living*, emphasizes the joy of owning a home sided with durable, beautiful Masonite exterior products.

MASONITE

Masonite, Sunline and Panelgroove are registered trade-marks of Masonite Corporation.

impression out of a first glance

beautiful for a generation and longer!

First glances turn "lookers" into interested prospects when the exteriors of your homes are *genuine* Masonite hardboard sidings.

The Sunline siding that forms the continuous patio and interior wall, for example, won't split or check... is exceptionally dent-resistant. Raised vertical ribs, an integral part of the siding itself, are rounded and smooth... offer unique sun-and-shadow effects.

Sunline saves labor cost, too.

Handy 4' x 8' to 4' x 16' panels install quickly. Edges are shiplapped for fast application—uninterrupted design.

Best of all, the beauty lasts and lasts—no annoying call-backs!

Investigate the wide range of vertical and horizontal Masonite sidings. Look into all Masonite exterior panels.

Hammer test leaves no doubts—Masonite sidings can take it! Can you imagine how most sidings would look after repeated blows with a hammer? Masonite hardboard comes through the pounding undaunted.



Masonite exteriors come through the hammer test undaunted.



Masonite Panelgroove—offers vertical grooves every 4", 8" or at random.



Masonite "X" siding—provides a deep $\frac{1}{8}$ " shadowline—factory-primed.

Always build with paneling that features this trade-mark. It says this is *genuine* Masonite hardboard. It's wood-made-better!—made with the "exclusive explosion process" for unequalled strength, smoothness and weatherability.



shows the way!

Look in the
Yellow Pages
for your nearest
Masonite dealer.
And for a
colorful booklet
on Masonite
exteriors,
send the
coupon.

MASONITE CORPORATION
Box 777
Chicago 90, Illinois

Please send me your booklet on Masonite exteriors and information on new "X" siding.

Name

Company

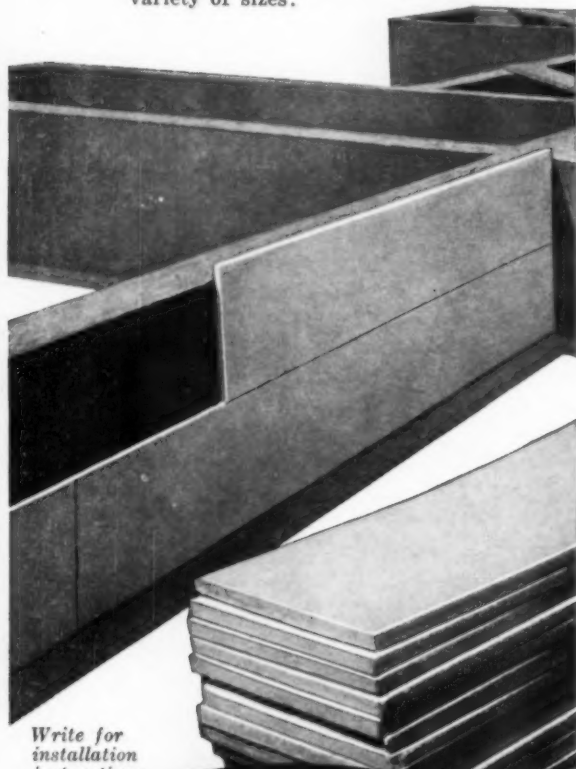
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City State

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new UNI-CREST insulation

Now, through the combination of modern chemistry and the experience of United's 50 years as a leading manufacturer of insulating material, comes Uni-Crest. A thoroughly proven foam plastic insulation of outstanding thermal properties . . . labor saving and cost cutting benefits. Highly recommended for walls, ceilings, floors and around foundations or under slabs. Readily adheres to masonry, eliminates furring or lathing, provides an excellent surface for plaster, cement or other finishes. Easy to work with, light, non-dusting, odorless, non-toxic, can be cut with all standard tools. Will not shrink or rot and retains its insulating value indefinitely. Regular and self-extinguishing available in a variety of sizes.



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instructions
and
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UNI-CREST
EXPANDED POLYSTYRENE

Uni-Crest Division
UNITED CORK COMPANIES

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OFFICES OR DISTRIBUTORS IN KEY CITIES COAST TO COAST.

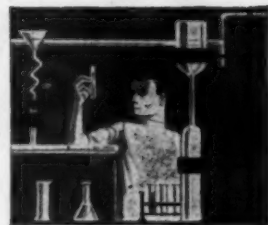
BRAND NAMES DIRECTORY

(Continued from page 102)

- LEVELEASY Hydrolevel
LEVELER Colson Corp
LEVELINE Calder Mfg Co
LEVELITE-LATEX Selby
Battersby & Co
LEVERLIFT Colson Corp
LEX-CRETE Rutland Fire Clay
LEXINGTON Miller Co
LIBERTY Tilley John S
Ladders Co Inc
LIDO Carey-McFall Co
LIFE BOND Horner Flooring
LIFETIME Miller Howard
Clock Co
LIFETIME Mirro Chrome Co
LIFT-A-SHELF Acme
Appliance Mfg
LIFTAMATIC Sasgen Derrick
LIGHTSTEEL Penn Metal Co
LIMPET Kcasbey & Mattison
LINE-O-LAMPS Wiremold Co
LINK American Sta-Dri Co
LION-BOND Cambridge Tile
Mfg Co
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Pootatuck Corporation
LION UNIVERSAL TRIMMER
Pootatuck Corporation
LIQUID ALUMINUM Chicago
Bronze & Color Works
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LITE ACOUSTIC Bestwall
Gypsum Co
LITE-MIX Bestwall Gypsum Co
LITTLE HUMMER Wagner
Mfg Co
LITTLE MAJOR Arro
Expansion Bolt Co
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David & Son Inc
LO-BOY Airtemp Div Chrysler
LO-HED American Engineering
LO-K INSULATION Lockport
Mills Inc
LO-TONE Wood Conversion
LOAD LIFTER Manning,
Maxwell & Moore
LOCK-TITE Lockhart Mfg
LOCK HOUSETIME
GUARANTEED Locke Mfg
LOCKPRIME Pennsalt
Chemicals Corp
LOCKWOOD Cloud Oak
Flooring Co
LOGAN Logan Clay Products
LOGAN-LOCK Logan Clay
Products Co
LOK-FLANGE Reed Cromex
LOK-FRAME Inland Steel
Products Co
LOK-ON Certain-Teed Prods
LOK-TAB Ruberoid Co
LOKATOR Edwards Co Inc
LOKD BAR Hopes Windows
LOKTITE US Expansion Bolt
LONE STAR Lone Star
Cement Corp
LONG LIFE Goodall Rubber
Co Inc
LOS RANCHOS Midland Brick
& Tile Co
LOUVER-DOR Berkeley
Aluminum Products
LOUVER-GLASS Kirlin Co
LOXCREEN Loxscreen Co Inc
LOXFRAME Loxscreen Co Inc
LOXON Sherwin-Williams Co
LOXTRIM Loxscreen Co Inc
LOZENGE ANTIQUE Mondial
United Corp
LUBRI-TASCON Cabot Samuel
LUMASKIN Ludlow Papers Div
of Ludlow Corp
LUMINALL National Chemical
& Mfg Co
LUMITE Chicopee Mills Inc
Lumite Div
LUNGEN Edwards Co Inc
LUPTON Flynn Michael Mfg
LUSTARITE Mobile Paint Mfg
LUSTERLITE Insulite Div
LUSTERTONE Elkay Mfg Co
- LUSTRO-LITE Lustro Tile
Mfg Co
LUSTRA GRAY American-
Saint Gobain Corp.
LUSTRACRYSTAL American-
Saint Gobain Corp
LUSTRAGLASS American-
Saint Gobain Corp
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Div Philip Carey Mfg
LUSTRAWHITE American-
Saint Gobain Corp
LUSTRE TONE O'Brien Corp
LUSTRE-UP O'Brien Corp
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Plastic Products Inc
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LUXAIRE Olsen C A Mfg Co
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LUXETTE Luxor Carpet Co
LUXSTAR Ceresit Corp
LUXTONE Minnesota Paints
LYDIAN Luxor Carpet Co
LYFALUM Lvf-Alum Inc
LYNTON Fabrikona Inc
LYT-ALL Pratt & Lambert Inc
M-BLOCK Kaiser Aluminum &
Chemical Corp
M-D Macklanburg-Duncan Co
M-DECK Machon R C Co
M-FLOOR Mahon R C Co
M-26 Kaiser Aluminum &
Chemical Corp
MACO-CRAFT Maco Corp
MADE-RITE Anson & Gilkey
MADUCO Macklanburg-Duncan
MAESTRO COLORS Pittsburgh
Plate Glass Co
MAG-O-CRETE Camp Co Inc
MAGIC-FOLD DOOR Clopay
MAGNA-LINE Skyline
Industries Sales Inc
MAGNALITE Graham John H
& Co Inc
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Co
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Products Co Inc
MAKE OUR OWN Larson
Chas O Co
MAL-LEAD BOLT ANCHOR
Arro Expansion Bolt Co
MALT-A-GLIDE Malta Mfg Co
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MALTA TOWN AND
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MALTESE CROSS BRAND
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Manhattan Inc M R Div
MAR-GON United Gilsonite
Laboratories
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Young Spring & Wire Corp
MARB-L-COTE National
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Moulding Floor Co Inc
MARGO FOLDING
STAIRWAYS Fabricon Co
MARDI-GRAS US Plywood
MARIGOLD Heilig Bros Co
MARINITE Johns-Manville
MARKWA Vermont Marble Co
MARLITE BLOCK Marsh Wall
Products Inc
MARLITE CELESTIAL Marsh
Wall Products Inc

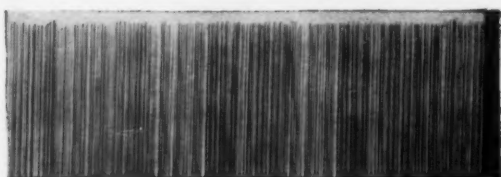
(Continued on page 160)

Shakolor is an exclusive
Shakertown finish
scientifically formulated



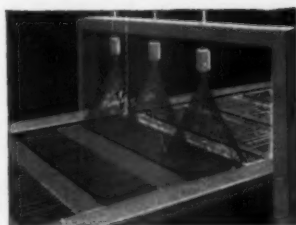
to **DOUBLE** color life...
minimize re-staining...
increase weather resistance of
Shakertown cedar shake

GLUMAC
panels!



Thoroughly field tested under all
climatic conditions... **Shakolor**

is factory applied
in **12** striking colors
to all **GLUMAC** panels



...NOW AVAILABLE AT
BUILDING MATERIALS
DEALERS EVERYWHERE!



Shakertown
CORPORATION
Dept. AB-41
20310 Chagrin Blvd.
Cleveland 22, Ohio

Please send me complete information about
Glumac Panels and name of nearest dealer.

NAME _____
COMPANY _____
STREET _____
CITY _____ ZONE _____ STATE _____

10144-02

Q. What's the
newest name
in gypsum
products?

A. The oldest name in building materials!

Next time you buy gypsum products, you'll see a new name — *Johns-Manville Gypsum Products*. We believe it'll pay you to give them a try. For we've been serving American builders with top-quality building materials for over a century. Get all the facts from your J-M representative this week. Or write Johns-Manville, Dept. AB461, Box 14, New York 16, N. Y.

JOHNS-MANVILLE JOHNS-MANVILLE
GYPSUM PRODUCTS 

Quality does cost more . . . but quality sells houses!

As a builder, you know better than anyone in the building industry that visible quality sells houses faster. Naturally, quality costs more . . . but the sales appeal of quality is unmistakably a good investment for you.

For example, a Follansbee Terne roof may be more expensive than the roofing you are now using. But look at the sales appeal of a Terne roof!

A Terne roof will last longer than a lifetime

A Terne roof is colorful—and the owner can change its color any time he wishes

A Terne roof is distinctive—Terne can be applied in many different designs . . . in batten, standing or bermuda seams (like the roof pictured below.)

In other words, Follansbee Terne is quality in roofing. A Terne roof is sales appeal—on the outside of the house, where prospects see it and are drawn to it.

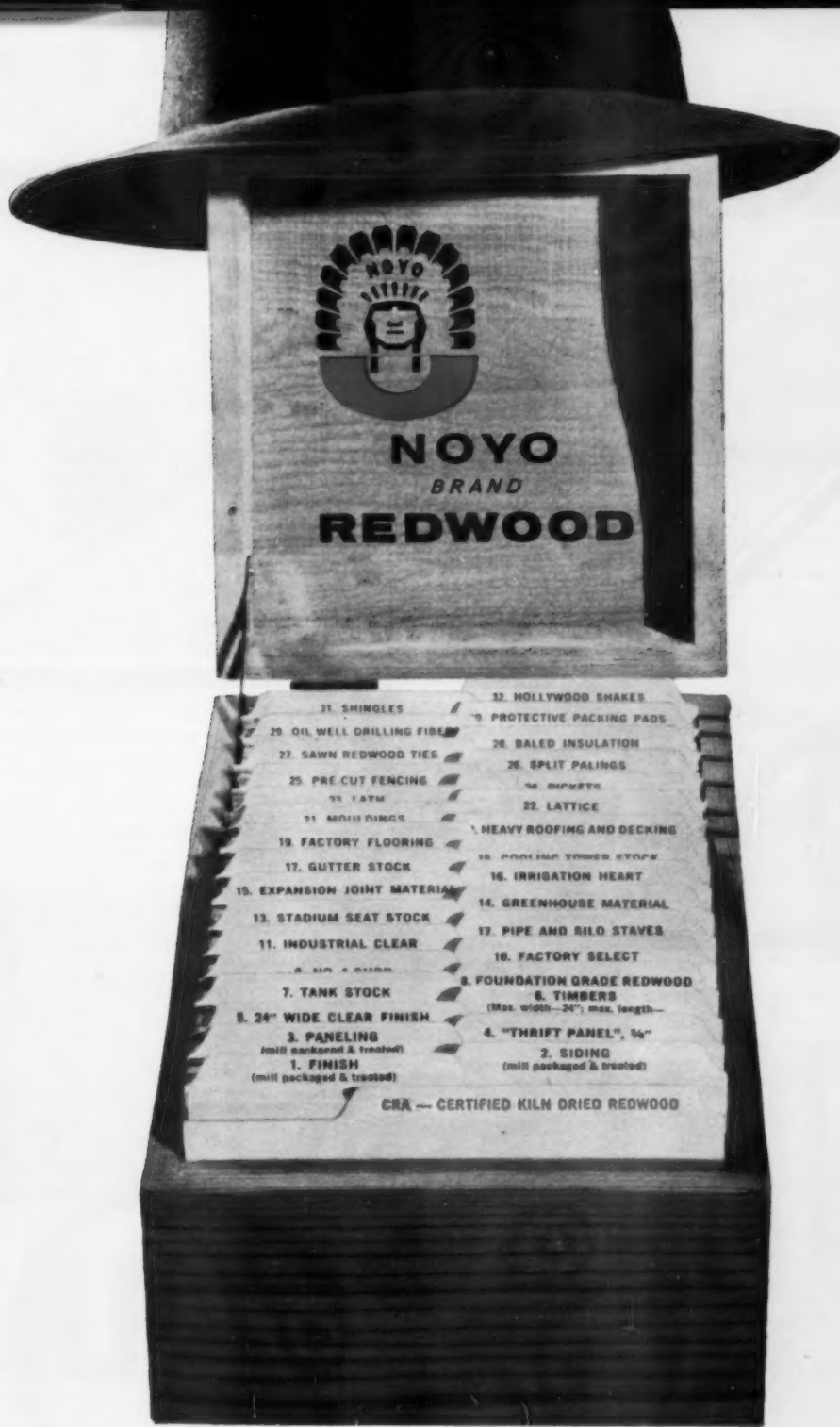
We would be happy to send you additional information about Follansbee Terne.



Architects: Martin & Jelliffe, AIA, Indianapolis, Indiana
Builder: A. Frank Woods, Lafayette, Indiana
Roofer: Rush Metal Products, Inc., Lafayette, Indiana



FOLLANSBEE STEEL CORPORATION
Follansbee, West Virginia



File this under your hat . . .

Whatever the job . . . residential, commercial, industrial or farm . . . be sure to specify Noyo brand Redwood by Union. Noyo gives you the quality, the service and the widest choice. Right now, for instance,

there are 32 different Noyo products available. And as Union's modern research labs develop new forest products, the Noyo family will grow even bigger.

UNION LUMBER COMPANY



REDWOOD Tree Farmers & Manufacturers
Mills: Fort Bragg, Leggett and Willits, California
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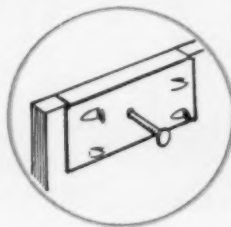
Member:
California
Redwood
Association

REPORT ON ASTM ACCELERATED AGING TEST #D-1037-56T:

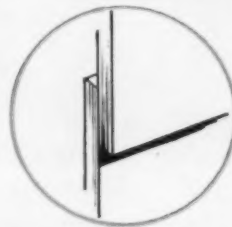
NO CRACKING • SPLITTING •



*Aluminum
fastener
eliminates
face
nailing!*



NOW YOU SEE IT!
Hidden fastener in place before
overlapping panel is applied.



NOW YOU DON'T!
Fastener cannot be seen after
overlapping panel is applied.

CHECKING OR SPLINTERING of **Upson Primed Siding** in a LIFETIME* of outdoor exposure!

Here's the most durable, neatest looking and completely practical lap siding! And you can't buy a more economical siding, either. Upson Primed Siding is cut to uniform size—12" wide by 12' long. These precision dimensions permit exact layout. Edges are uniformly true and straight, too. Surface guaranteed knot free. No grain to raise or hide. Both surfaces and edges are primed for longer life. One side gray, one white . . . and this paint will positively not peel! Upson Primed Siding is waterproofed throughout. And the hidden aluminum fasteners (see illustration, left) not only eliminate face nailing and improve appearance, but provide automatic venting that prevents moisture traps behind siding.

Our technical staff will gladly consult with you on your requirements. Phone, wire or write. The Upson Company, Upson Point, Lockport, New York.

*Here's proof! Read what brutal punishment Upson Primed Siding withstood during the ASTM accelerated aging tests estimated to be equivalent to 30 to 50 years of natural weathering. (The following six torturous steps were repeated six times.)



Soaked in water

1. One hour at 120°F.

Sprayed with steam

2. Three hours at 200°F.

Freezing storage

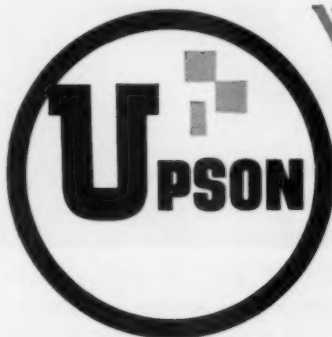
3. Twenty hours at 10°F.

Heated in dry air

4. Three hours at 210°F.

5. (Repeat of No. 2 above.)

6. Eighteen hours at 210°F.



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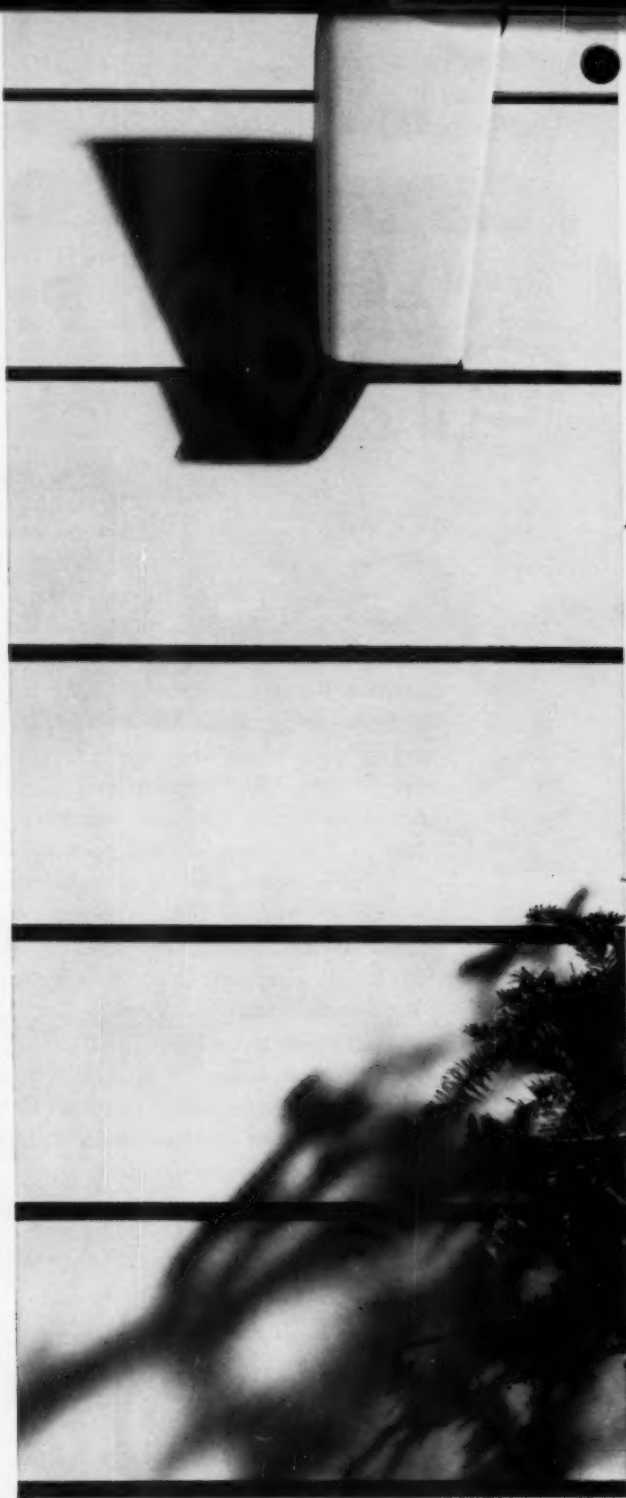
CITY: _____

STATE: _____

THE UPSON COMPANY • UPSON POINT • LOCKPORT, NEW YORK
PRIMED SIDING • DUBL-BILT • TRIM-BILT • SOFFITS • ALL WEATHER • STRONG-BILT



TEXTURED SIDINGS by Weldwood in a broad range of panel styles are especially appropriate for traditional architecture and accessories. Shown is a new red cedar siding called *Early American*® Cedar. Its deep-textured, brush-abraded surface, accentuating the pronounced grain patterns, can either be painted, stained, or left to weather naturally. The panel surface features 1½"-wide square-cut vertical grooves spaced 12" apart.



ULTRA-SMOOTH. The Duraply Lap Siding shown here offers all the general benefits of Duraply Sidings—warp, split, and dent resistance; lowest possible maintenance; paint peeling, checking and blistering eliminated when quality house paint is properly applied; less waste and scrap; fewer nails required; faster, better construction and no knots or other imperfections—plus a *deep, deep* shadow line for outstanding horizontal applications. Available factory-primed for one coat field painting.

SALES-CREATING
 VARIETY WITHOUT
 CHANGING FLOOR PLANS



Duraply Siding-Board-and-Batten Style



Duratex Siding



Duraply Lap Siding



Formtex Siding

YOU CAN BUILD BETTER HOUSES FOR THE MONEY WITH WELDWOOD SIDINGS

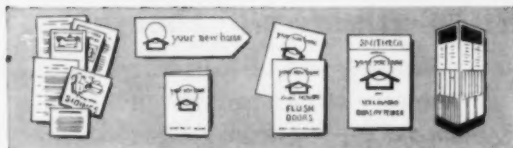
Attractive sidings add eye appeal, strength and permanence at low installed cost. Weldwood's New Merchandising Program promotes faster sales. Individualized beauty for every home you build is as practical as it is desirable with Weldwood's wide variety of plywood sidings. You can find a suitable siding for every architectural style, or use them in combination to give every home you build a customized "one-of-a-kind" look.

Big plywood sheets go up quickly and easily directly on studs—no sheathing necessary even

with Weldwood® Duraply® Lap Sidings, to meet F.H.A. requirements. You save on labor, painting and material costs without sacrificing quality.

Tests by the Department of Agriculture's Forest Products Laboratory show that a wall of ¼" plywood nailed directly to studs is twice as rigid and over four times as strong as a standard 1" x 8" diagonally sheathed wall. In addition, Weldwood Sidings offer superior dent, warp and split resistance. They also give your customers truly low maintenance exteriors.

WELDWOOD SIDINGS



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3. Product identification cards to highlight the quality features of your homes.
4. Colorful 32-page handout booklet personalized with stories and pictures of you and the houses you build.
5. Weldwood Sidings selector for your display room; sells the quality exterior of your homes; lets you "customize" your homes at no additional cost.

MAIL THIS COUPON for free illustrated new 12-page Weldwood Siding booklet and data on how you can participate in Weldwood's big "Your New Home" promotion.

United States Plywood AB4-61
55 West 44th Street, New York 36, N. Y.

Please send me your new 12-page Weldwood Sidings booklet.

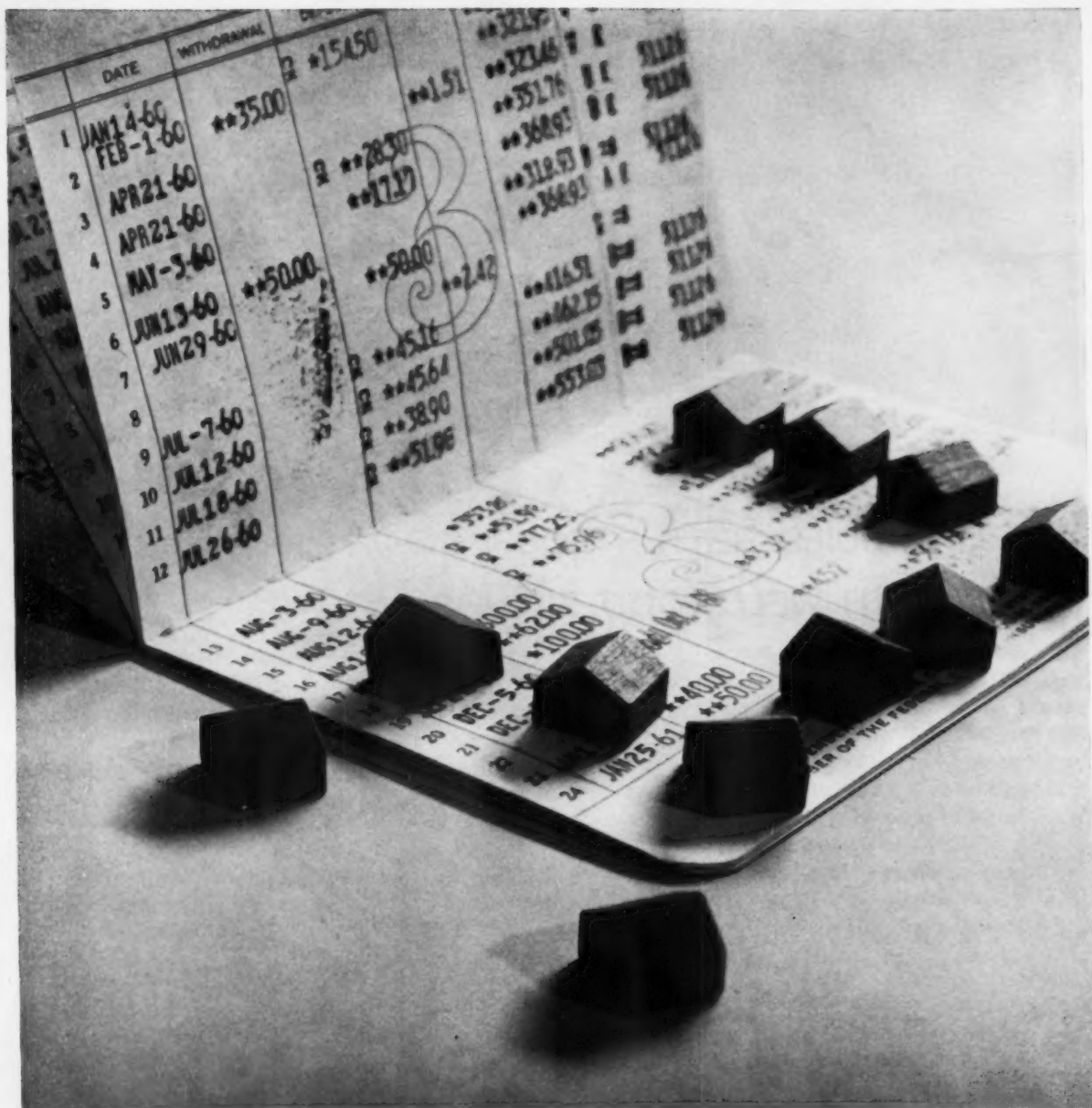
Please give me details on Weldwood's sale-boosting "Your New Home" Merchandising Program.

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...says Mike Pashcow, President, #1 Nassau County Homes, Inc., Plainview, Long Island, N. Y. "We've been building homes for 13 years and were pleased when 'Rigid-wall' helped save us \$70 to \$80 a house over the standard 1/2" plywood sheathing we'd been using. We're also impressed with its ease of handling, scoring, snapping; its strength, resistance to dampness and warping; and its ability to hold firmly asbestos shingle nailing." RIGIDWALL requires no corner bracing. Shingles apply directly (no furring strips needed)—saving more time. And Barrett's exclusive CHEM-FI process preserves original strength of wood fibers. See us soon and save!

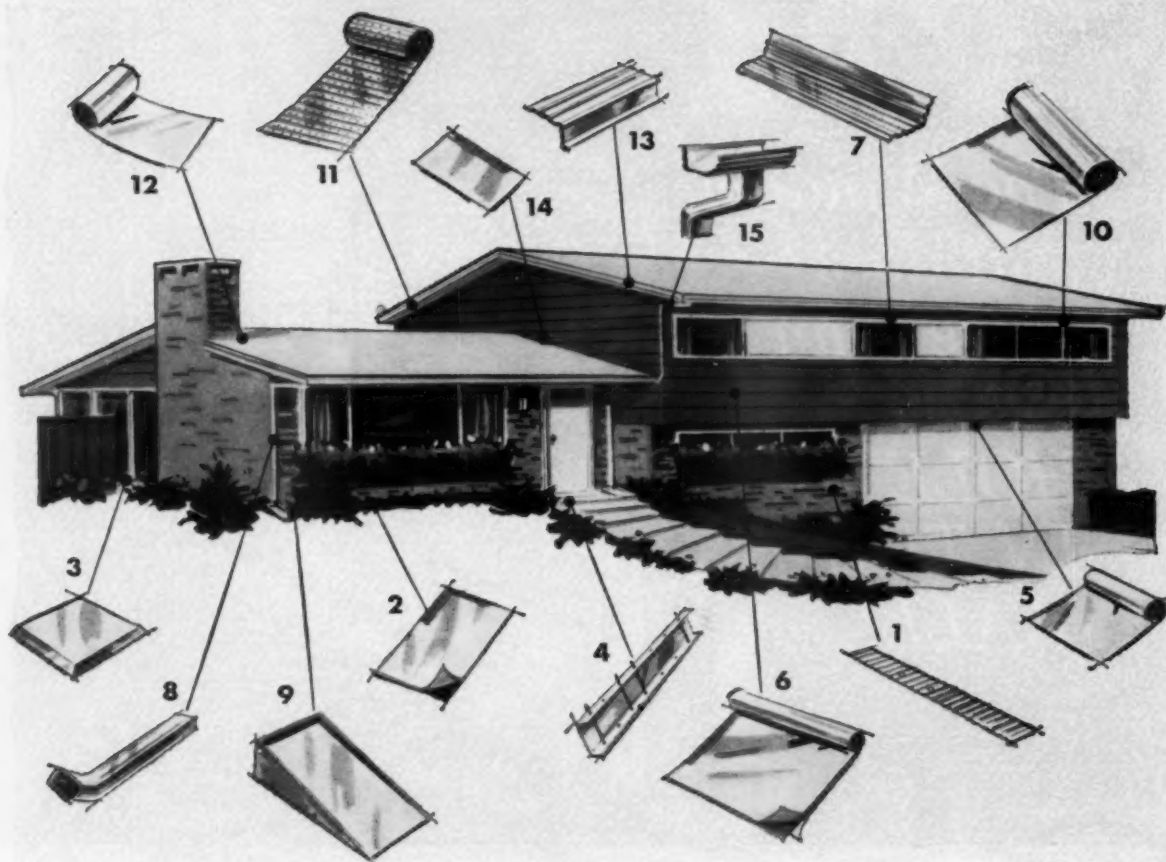
Offices in: Birmingham, Boston, Charlotte, Chicago, Cleveland, Houston, New York, Philadelphia, St. Paul

†Trade Mark Allied Chemical Corporation

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40 Rector Street, New York 6, N. Y.



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*The Window
that does
More than
**FILL A
HOLE
IN THE
WALL!***



INSULATED: The unique difference in windows today

Insulated: The most desired quality feature in homes today! And now a **window** that gives you insulation benefits . . . a more comfortable house, a house that's economical to heat and air-condition. It's the popular Titan Metals window and it's being used by more and more builders who want to stay a step ahead of competition.

The unique Titan Metals built-in double insulation feature adds an exciting new value to windows **without adding cost**. Only a live demonstration of this increasingly popular window can show you all the features that automatically sell it. Why not spend an hour with a TM representative to see how you can profit by installing this window.

SEND TODAY TITAN METALS CO.
Box 144, Pottsville, Pa.

I WOULD LIKE A QUOTE ON MODEL HOME

I WOULD LIKE FURTHER INFORMATION

Name _____

Title _____

Company _____

Address _____

City _____

State _____



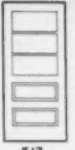


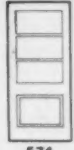










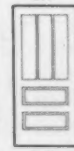
























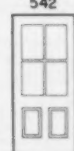




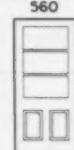












TITAN METALS
Company Inc.

formerly Textron Metals, Pottsville, Pa.

DOORS & WINDOWS

Exterior Wood Door Standards

 110	 500	 513	 514	 515	 574	 575	 578	 600	 605	 606	 607
 501	 502	 516	 517	 519	 580	 590	 591	 608	 609	 612	 613
 506	 507	 536	 537	 538	 592	 593	 594	 1 3/4" 2'-8" and 3'-0" x 6'-8" and 7'-0" 1 3/4" and 1 3/4" 2'-8" and 3'-0" x 6'-8" and 7'-0" 1 3/4" 3'-0" x 7'-6" and 7'-8" 3'-4" and 3'-6" x 6'-8"; 7'-0"; 7'-6" and 8'-0"			
 508	 509	 539	 542	 549	1 3/8" and 1 3/4" 2'-8" and 3'-0" x 6'-8" and 7'-0"						
 510	 512	 559	 560	 561	PLAIN, FLUSH and FLUSH "V" GROOVED 1 3/4" x 3'-0" and 3'-4" x 6'-8" and 7'-0" If desired, light openings may be cut in these doors to suit wishes of purchaser.						
 598	 597	 562	 563	 567							
 644	 569	 570	 571	EXTERIOR or INTERIOR RIM, HORIZONTAL LIGHT, FRENCH or CASEMENT DOORS 1 3/8" and 1 3/4" 2'-0"; 2'-4"; 2'-6" x 6'-6"; 6'-8"; 7'-0" 2'-8" and 3'-0" x 6'-8" and 7'-0" 1 3/8" and 1 3/4" 2'-8" and 3'-0" x 6'-8" and 7'-0" 1 3/4" only 3'-4" x 6'-8" and 7'-0"							
 735	 736	 737	 739								 749	756	1 1/8" 2'-6" x 6'-7" 2'-6" and 2'-8" x 6'-9" and 7'-1" 2'-10" x 6'-11"; 2'-10" and 3'-0" x 6'-9" and 7'-1"
COMBINATION DOORS											

NOMENCLATURE AND DEFINITIONS

The various terms used in this standard are defined below.

Bar—A bar extends the extreme width or length of the glass opening and may be either vertical or horizontal between glass.

Coped construction—The ends of rails, mullions, muntins, or bars so shaped that they will cover and fit the contour of the sticking.

Core—The innermost layer in veneered-door construction.

Crossbanding—The veneer that may be used in the construction of flush doors, which is placed between the core and face veneers with the direction of the grain at right angles to that of the face veneer.

Door, flush—Made up of core, crossbanding, and face veneers, or of core and face veneers only.

Door, panel—Made up of stiles, rails, and one or more panels; the stiles and rails forming the frame around the panel.

Door, sash—Same as panel door, except that one or more panels are replaced by glass.

Kiln-dried—Dried in a closed chamber in which the removal of moisture is controlled by artificial heat and usually by relative humidity.

Mullion—An upright, or vertical, member between panels.

Muntin—Any short bar, either vertical or horizontal, between glass, and not extending the extreme width or length of the glass opening.

Panel, plywood—A panel made up of core and face veneer.

Pitch seam—An opening or imperfection, parallel to the grain, which is filled with pitch.

Rails—The cross, or horizontal, pieces of the framework of a door.

Rail, bottom—The bottom cross, or horizontal, piece of a door.

Rail, lock—The wide cross, or horizontal, rail of a door at lock height.

Rail, top—The top cross, or horizontal, piece of a door.

Sticking—A mold which is worked on the edges of stiles, rails, mullions, muntins, or bars, adjacent to panels or glass.

Stiles—The upright, or vertical, outside pieces of a door.

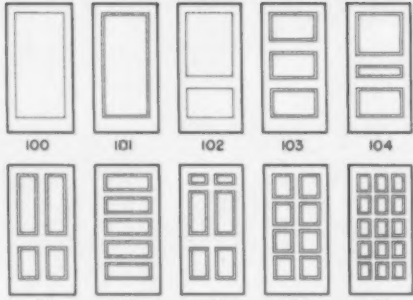
Veneered door—Made up of core and face veneers (may include crossbanding in flush doors).

10

DOORS & WINDOWS

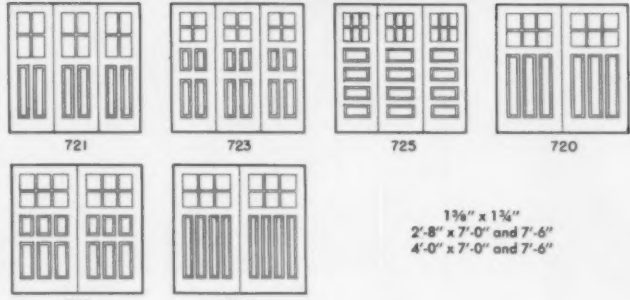
Interior, Garage, and Sliding Doors

PANEL DOORS



100 101 102 103 104
 105 106 107 108 109 110 111 112 113
 1 1/2" 1 3/4" and 1 1/2"
 1'-6" x 6'-6" and 6'-8" 2'-6" and 2'-8" x 6'-0"; 6'-6"
 2'-0" and 2'-4" x 6'-0"; 6'-6" 6'-8" and 7'-0"
 6'-8" and 7'-0" 3'-0" x 6'-8" and 7'-0"

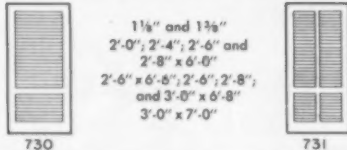
HINGE GARAGE DOORS



721 723 725 720
 722 724

1 1/2" x 1 3/4"
 2'-8" x 7'-0" and 7'-6"
 4'-0" x 7'-0" and 7'-6"

BLIND OR SUMMER DOORS

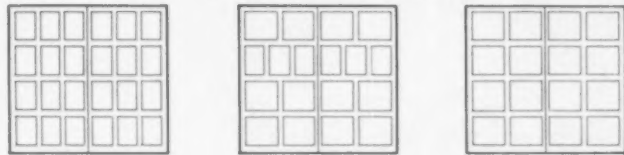


1 1/2" and 1 3/4"
 2'-0"; 2'-4"; 2'-6" and
 2'-8" x 6'-0"
 2'-6" x 6'-6"; 2'-6"; 2'-8";
 and 3'-0" x 6'-8"
 3'-0" x 7'-0"

730

731

SWINGUP GARAGE DOORS



780 781 782

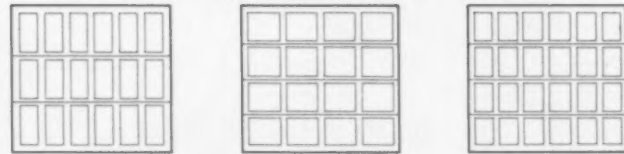
1 1/2"
 8'-0" x 6'-6" and 7'-0" - 9'-0" x 7'-0"

FLUSH DOORS



1 1/2"
 1'-6" x 6'-6" and 6'-8"
 2'-0"; 2'-4" 2'-6" and 2'-8"
 x 6'-0"; 6'-6"; 6'-8" and 7'-0"
 3'-0" and 3'-4" x 6'-8" and 7'-0"

ROLLUP GARAGE DOORS



786 787 788

1 1/2" x 8'-0" and 9'-0" x 7'-0"

FRENCH OR CASEMENT DOORS



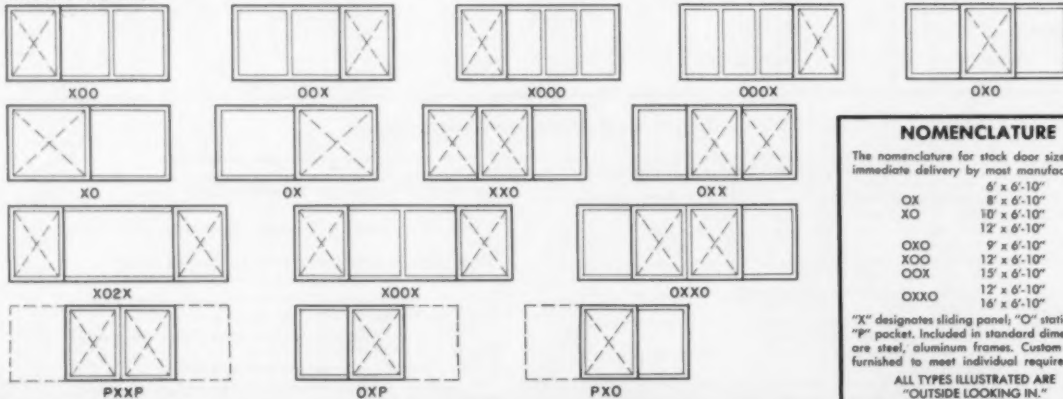
622 625 626 627
 1 3/4" and 1 1/2"
 2'-0"; 2'-4" and 2'-6"
 x 6'-6"; 6'-8" and 7'-0"
 2'-8" and 3'-0" x
 6'-8" and 7'-0"
 2'-4" and 2'-6" x
 6'-6"; 6'-8" and 7'-0"
 2'-8" and 3'-0" x
 6'-8" and 7'-0"

SCREEN DOORS



1 1/2"
 2'-6" x 6'-7"; 6'-9"; 7'-1"; 2'-8" x 6'-9"; 7'-1"
 2'-10" x 6'-9"; 6'-11"; 7'-1"; 3'-0" x 6'-9"; 7'-1"

SLIDING DOORS



NOMENCLATURE

The nomenclature for stock door sizes with immediate delivery by most manufacturers.

- OX 6' x 6'-10"
- XO 8' x 6'-10"
- XO 10' x 6'-10"
- XO 12' x 6'-10"
- OXO 9' x 6'-10"
- XOO 12' x 6'-10"
- OOX 15' x 6'-10"
- OXOX 12' x 6'-10"
- OXOX 16' x 6'-10"

"X" designates sliding panel; "O" stationary;
 "P" pocket, included in standard dimensions
 are steel, aluminum frames. Custom doors
 furnished to meet individual requirements.

ALL TYPES ILLUSTRATED ARE
 "OUTSIDE LOOKING IN."

DOORS & WINDOWS

Wood Window Standards

POPULAR SIZES AND DESIGNS

CASEMENT SASH 1 3/8"

Profit Face Measurements

Stiles 1 7/8"
Top Rail 1 3/8"
Bottom Rail 3"
Vertical Bar 3/8"
Muntin 3/8"

Sash are made 1/8" narrower and 1/2" shorter than opening sizes given below.



1 Lt.



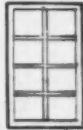
3 Lt. H.



4 Lt. H.



6 Lt. 2 W.



8 Lt. 2 W.

1-3 1/2 x 3- 2	12x33	12x10 3/4	.....	5 3/4 x 10 3/4	.....
3-10	41	13 1/2	12x10 3/4	13 1/2	5 3/4 x 10 3/4
4- 6	49	.....	12 3/4	.....	12 3/4
1-7 1/2 x 3- 2	16x33	16x10 3/4	.....	7 3/4 x 10 3/4	.....
3-10	41	13 1/2	16x10 3/4	13 1/2	7 3/4 x 10 3/4
4- 6	49	.....	12 3/4	.....	12 3/4

STORM SASH and SCREENS 1 1/8"

Profit Face Measurements

Storm Sash

St. 1 7/8"
T.R. 1 3/8"
B.R. 4 1/8"
C.R. 3/8"



Screens

St. 1 7/8"
T.R. 1 3/8"
B.R. 3"
C.R. 3/8"

Storm Sash or Screens

Storm Sash and Screens are available for all Standard Windows. The more popular sizes conform to the window sizes shown on the preceding page.

Storm Sash and Screens are made 1/8" narrower and 1" longer than window opening sizes.

CELLAR SASH 1 1/8" and 1 3/8"

Profit Face Measurements

St. 1 7/8"
T.R. 1 3/8"
B.R. 1 3/8"
V.B. 3/8"

Profit Face Measurements

St. 1 7/8"
T.R. 1 3/8"
B.R. 1 3/8"
V.B. 3/8"

Profit Face Measurements

St. 1 7/8"
T.R. 1 3/8"
B.R. 1 3/8"
V.B. 3/8"

Sash are made 1/8" narrower and 1/4" shorter than opening sizes given below



2 Lt.

Sash are made 1/8" narrower and 1/4" shorter than opening sizes given below



3 Lt.

Sash are made 1/8" narrower and 1/4" shorter than opening sizes given below



4 Lt.

2-0x1-4	10x12	2-4x1-4	8 x12	3-8x1-4	9 1/2 x 12
2-4x1-4	12x12	2-8x1-0	9 1/2 x 8	1-8	16
1-8	16	1-4	12	4-4x1-4	11 3/4 x 12
2-0	20	1-8	16	1-8	16
.....	.....	3-0x1-4	10 3/2 x 12	.....	.....
.....	.....	1-8	16	.....	.....
.....	.....	3-4x1-8	12 x 16	.....	.....
.....
.....
.....

PLAIN RAIL WINDOWS 1 1/8"

Profit Face Measurements

St. 1 7/8"
T.R. 2 3/8"
B.R. 2 3/8"
M.R. 1 3/8"
V.B. 1/8"
Mun. 3/8"

Profit Face Measurements

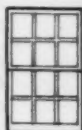
St. 1 7/8"
T.R. 2 3/8"
B.R. 2 3/8"
M.R. 1 3/8"
V.B. 3/8"
Mun. 3/8"

Windows are made 1/8" narrower and 3/4" shorter than opening sizes shown below



8 Lt.

Windows are made 1/8" narrower and 3/4" shorter than opening sizes shown below



12 Lt.

1-8 1/2 x 3-10	8x10	2-4x3-10	8x10
2-0 1/2 x 4- 6	10x12	4- 6	12
2-4 1/2 x 5- 2	12x14	2-7x4- 6	9x12
.....	.....	2-10x4-6	10x12
.....	.....	3- 4x5-2	12x14

BARN or UTILITY SASH 1 1/8" and 1 3/8"

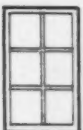
Profit Face Measurements—Stiles 1 7/8" Top Rail 1 3/8" Bottom Rail 3" *Vertical Bar 3/8" or 1/2" Muntin 3/8"

Sash are made 1/8" narrower and 1/2" shorter than opening sizes given below



4 Lt.

Sash are made 1/8" narrower and 1/2" shorter than opening sizes given below



6 Lt. 2 W.

Sash are made 1/8" narrower and 1/2" shorter than opening sizes given below



6 Lt. 3 W.

Sash are made 1/8" narrower and 1/2" shorter than opening sizes given below



9 Lt. 3 W.

Sash are made 1/8" narrower and 1/2" shorter than opening sizes given below



12 Lt. 3 W.

1-8x2-1	8x10	1-8x2-11 1/4	8x10	2-1x1-11	7x 9	2-0x2- 8 1/4	6 3/4 x 9	2-4x3-9 1/2	8 x 10
2-5	12	2-0x3- 5 1/4	10x12	2-4x2- 1	8x10	2-4x2-11 1/4	8 x 10	2-8x4-5 1/2	9 1/2 x 12
2-0x2-1	10x10	.....	.....	2- 5	12	3- 5 1/4	12	3-0x4-5 1/2	10 3/2 x 12
2-5	12	.....	.....	2-7x2- 5	9x12	2-8x3- 5 1/4	9 1/2 x 12	.....	.....
2-9	14	.....	.....	2- 9	14	.....	.....	.....	.....
3-1	16	.....	.....	2-10x2- 5	10x12	.....	.....	.....	.....
2-4x2-5	12x12	.....	.....	3-4x2- 5	12x12	.....	.....	.....	.....
2-9	14	.....	.....	.....	.....	.....	.....	.....	.....
3-1	16	.....	.....	.....	.....	.....	.....	.....	.....

*Vertical bar 3/8" for Sash 2 lights wide; 1/2" for Sash 3 lights wide.

Courtesy National Wood Work Manufacturers Association

DOORS & WINDOWS

Wood Window Standards

CHECK RAIL WINDOWS 1 3/8" — POPULAR SIZES AND DESIGNS

Profite Face Measurements	Stiles				Stiles				St.		St.				
	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail	Top Rail	Bottom Rail	Vertical Bar	Muntin	Check Rail	T.R.	B.R.	V.B.	Mun.	C.R.
	1 3/8"	1 3/8"	3"	3/8"	1 3/8"	1 3/8"	3"	3/8"	3/8"	1 3/8"	1 3/8"	2 3/8"	3/8"	3/8"	1 3/8"
	1 3/8"	1 3/8"	3"	3/8"	1 3/8"	1 3/8"	3"	3/8"	3/8"	1 3/8"	1 3/8"	2 3/8"	3/8"	3/8"	1 3/8"

Windows are made 1/8" narrower and 3/16" shorter than window opening sizes shown below								
	2 Lt.	Top 3 Lt. W.	Top 4 Lt. W.	4 Lt. H.	Top 6 Lt.	Top 8 Lt.	12 Lt.	16 Lt.
1-8 x 3- 2	16 x 16	.....	.....	16 x 7 3/4	.....	.....	.....	.....
3-10	20	.....	.....	9 1/4	.....	.....	.....	.....
4- 6	24	.....	.....	11 1/4	.....	.....	.....	.....
2-0 x 2-10	20 x 14	6 1/2 x 14	.....	20 x 6 3/4	6 1/2 x 7	.....	6 21/32 x 8	.....
3- 2	16	16	.....	7 1/4	8	.....	9	.....
3- 6	18	18	.....	8 3/4	9	.....	9	.....
3-10	20	20	.....	9 3/4	10	.....	10	.....
4- 2	22	22	.....	10 3/4	11	.....	11	.....
4- 6	24	24	.....	11 3/4	12	.....	12	.....
4- 6	24	24	.....	11 3/4	12	.....	12	.....
4-10	26	26	.....	12 3/4	13	.....	13	.....
5- 2	28	28	.....	13 3/4	14	.....	14	.....
2-4 x 2-10	24 x 14	7 27/32 x 14	.....	24 x 6 3/4	7 27/32 x 7	.....	.....	.....
3- 2	16	16	.....	7 1/4	8	.....	8 x 8	.....
3- 6	18	18	.....	8 3/4	9	.....	9	.....
3-10	20	20	.....	9 3/4	10	.....	10	.....
4- 2	22	22	.....	10 3/4	11	.....	11	.....
4- 6	24	24	.....	11 3/4	12	.....	12	.....
4-10	26	26	.....	12 3/4	13	.....	13	.....
5- 2	28	28	.....	13 3/4	14	.....	14	.....
2-8 x 2-10	28 x 14	9 3/32 x 14	.....	28 x 6 3/4	9 3/32 x 7	.....	.....	.....
3- 2	16	16	.....	7 1/4	8	.....	.....	.....
3- 6	18	18	.....	8 3/4	9	.....	.....	.....
3-10	20	20	.....	9 3/4	10	.....	9 13/32 x 10	.....
4- 2	22	22	.....	10 3/4	11	.....	.....	.....
4- 6	24	24	.....	11 3/4	12	.....	12	.....
4-10	26	26	.....	12 3/4	13	.....	13	.....
5- 2	28	28	.....	13 3/4	14	.....	14	.....
3-0 x 2-10	32 x 14	.....	7 13/16 x 14	32 x 6 3/4	.....	7 13/16 x 7	.....	.....
3-10	20	.....	20	9 3/4	.....	10	.....	7 13/16 x 10
4- 6	24	.....	24	11 3/4	.....	12	.....	12
4-10	26	.....	26	12 3/4	.....	13	.....	13
5- 2	28	.....	28	13 3/4	.....	14	.....	14
3-4 x 4- 6	36 x 24	.....	8 13/16 x 24	36 x 11 3/4	.....	8 13/16 x 12	.....	8 13/16 x 12
4-10	26	.....	26	12 3/4	.....	13	.....	13
5- 2	28	.....	28	13 3/4	.....	14	.....	14
3-8 x 4- 6	40 x 24	.....	9 13/16 x 24	40 x 11 3/4	.....	9 13/16 x 12	.....	9 13/16 x 12
5- 2	28	.....	28	13 3/4	.....	14	.....	14

Courtesy National Woodwork Manufacturers Association Inc.

OTHER DESIGNS and SIZES of STOCK WINDOWS and SASH AVAILABLE

No attempt has been made in this catalogue to illustrate or list all of the designs and sizes of Ponderosa Pine Stock Windows and Sash that are available. On this and the following page are shown those that are

most popular. For a complete listing of all standard sizes and designs, including one light sash, transoms and porch sash, write The National Woodwork Manufacturers Association.

DOORS & WINDOWS

Steel Window Standards (Residential)

STEEL CASEMENTS

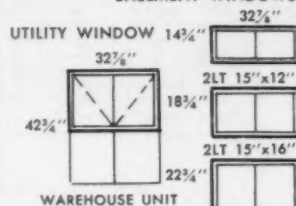
	1'-7 $\frac{1}{8}$ "	3'-1"	3'-1"	4'-5 $\frac{1}{8}$ "	5'-9 $\frac{3}{8}$ "	7'-7 $\frac{1}{2}$ "
2'-2"						
	1212	2222	2212	3222	4222	5222
3'-2 $\frac{3}{8}$ "						
	1313	2323	2313	3323	4323	5323
4'-2 $\frac{5}{8}$ "						
	1414	2424	2414	3424	4424	5424
5'-3"						
	1514	2524	2514	3524	4524	5524

3'-2 $\frac{3}{8}$ "	PW33	PW43
4'-2 $\frac{5}{8}$ "	PW34 DG34	PW44 DG44
5'-3"	PW35 DG35	PW45 DG45

"PW"—Picture windows—for single pane glazing—standard frame member construction.

"DG"—Double glazing—for 1" thick, double insulating glass, stock sizes—special section frame construction.

BASEMENT WINDOWS



All units shown are warehouse types and sizes.

Bullseye: 2'2" Dia.
3311

Dimensions shown are over-all out-to-out measurements. Units with single ventilator may swing from right or left jamb. All units are warehouse types and sizes. Fixed types furnished for all above sizes.

DOUBLE-HUNG WINDOWS

	2'0"	2'4"	2'8"	3'0"	3'4"		2'0"	2'4"	2'8"	3'0"	3'4"	
3'-1 $\frac{1}{2}$ "												
	B2031	B2431	B2831	B3031	B3431		E2031	E2431	E2831	E3031	E3431	
3'-9 $\frac{1}{2}$ "												
	B2039	B2439	B2839	B3039	B3439	3'8"	E2039	E2439	E2839	E3039	E3439	
4'-5 $\frac{1}{2}$ "												
	B2045	B2445	B2845	B3045	B3445	B3845	E2045	E2445	E2845	E3045	E3445	E3845
5'-1 $\frac{1}{2}$ "												
	B2051	B2451	B2851	B3051	B3451	B3851	E2051	E2451	E2851	E3051	E3451	E3851
"B" TYPES							"E" TYPES					
			5'-9 $\frac{1}{2}$ "				5'-9 $\frac{1}{2}$ "					
			B3059	B3459	B3859		E3059	E3459	E3859			

DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.

DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.

FIXED PANELS

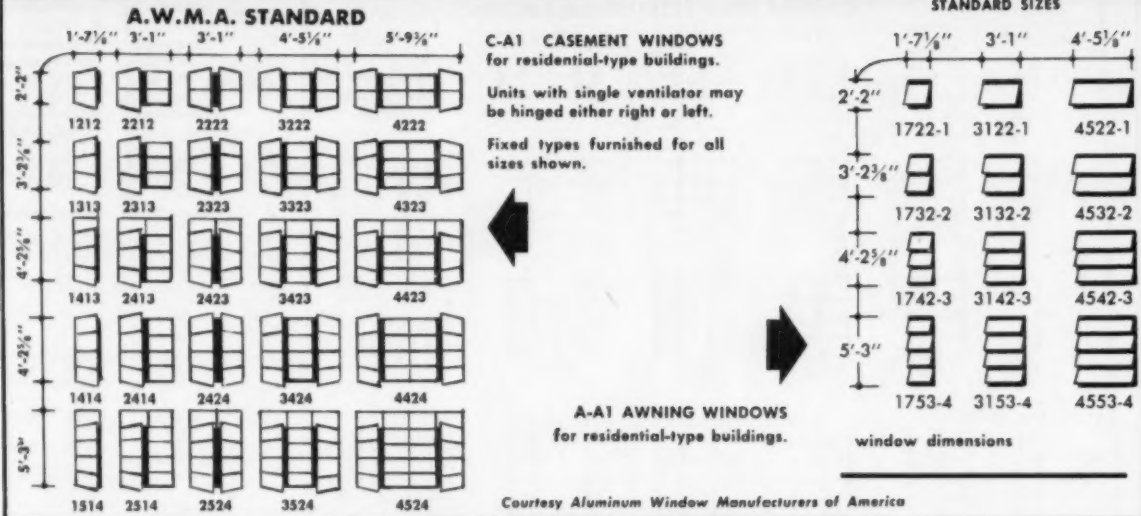
	3'4"	4'0"	4'8"		3'4"	4'0"	4'8"		3'4"	4'0"	4'8"
4'-5 $\frac{1}{2}$ "											
	F3445	F4045	F4845		F3451	F4051	F4851		F3459	F4059	F4859

Courtesy of the Steel Window Institute

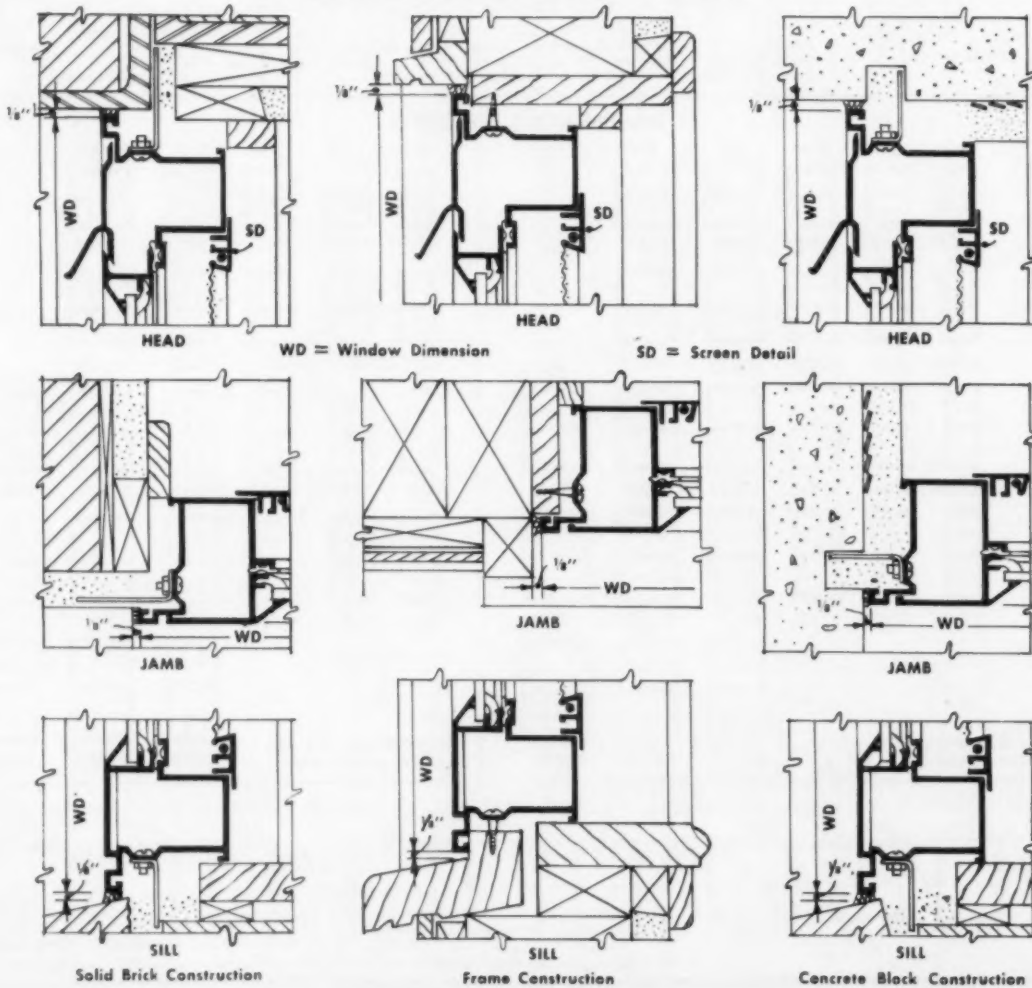
10

DOORS & WINDOWS

Aluminum Window Standards (Residential)



SECTIONS THROUGH AWNING WINDOWS





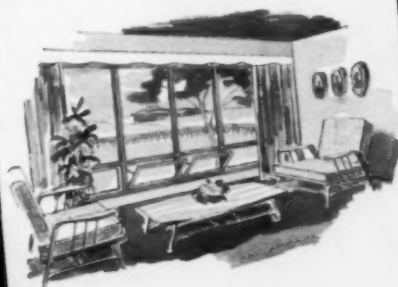
Casements

Designed for a luxury touch . . . yet priced for the modest of homes, Qualitybilt Wood Casement Windows provide the ultimate in window convenience. Slim, narrow mullions; extension hinges for inside cleaning; complete weatherstripping for snug comfort anytime of the year. A variety of high-quality hardware, one light welded or window glass or divided light window glass, and optional bar or diamond inserts give amazing design flexibility. Write for Catalog No. 2073.

You get greater flexibility...
higher quality...
in windows by **QUALITYBILT**

4-Ways

The amazing popularity of Qualitybilt 4-Way Windows is understandable. Their tremendous versatility permits using them as Awning, Casement, Hopper, or Fixed units, or in combinations. Units are supplied complete, fully weatherstripped, ready to install. Select roto or lever bar operators, or manual operation, optional glazing (welded insulated or window glass), all-aluminum screens. Bar or diamond inserts available. Write for Catalog No. 2067.



Gliders

Explore the amazing possibilities of this high quality, low-cost window line. Smooth, effortless operation — nylon rollers on anodized aluminum track — weathertight weatherstripping. Balances, "take-out" gadgets, hinges, operators . . . are all eliminated. Select from welded glass or window glass with optional removable double glazing panels. Aluminum screens are removable from inside. Brushed chrome "lock-pull." A quality window at an amazingly low price. Write for Catalog No. 2046.

be sure you get

Qualitybilt
WOODWORK®

FARLEY & LOETSCHER MFG. CO.

DUBUQUE, IOWA

Entrances / Doors / Frames / Sash / Blinds / Casements / Glider Windows / Sliding Doors / Screens / Combination Doors / Storm Sash
Mouldings / Interior Trim / Sash Units / Louvers / Kitchen Cabinet Units / Cabinet Work / Stairwork
Disappearing Stairs / "Farlite" Laminated Plastics



For better housing at lower cost.

IN THE WORKS AT U.S. STEEL RESEARCH:

A nonwarping steel door solid...tight...trouble-free

How many times have you been called back to adjust a door in the homes you've built? It's costly, time-consuming and a nuisance. It's one of the problems U. S. Steel is trying to solve for you right now.

Specialists at our Research Center are working on an exterior residential door far superior to any you've ever seen. It's made of steel sheets with formed edges and its interior is filled with special insulating materials. The door is rimmed with a neoprene strip and set in a steel frame. It won't swell or warp, won't jam in the summer, won't let in cold air in the winter. You can be sure you won't be called back on *this* door! It will decrease your installation costs, too. Because the door will come complete with a frame, it can be hung in half an hour—faster than older installation methods.

U. S. Steel knows you have other home-building problems—and we're hard at work on them. Our research team works closely with the NAHB Research Institute so we'll know just what steel products you need to build better houses for less money.



United States Steel

TRADEMARK

Front entrance, NAHB Research House at Michigan State University.

YOU CAN HAVE *Extra Volume Dollars* FROM
THIS *Amazing New* ELECTRICALLY-OPERATED
STEEL® PANEL-LIFT GARAGE DOOR!



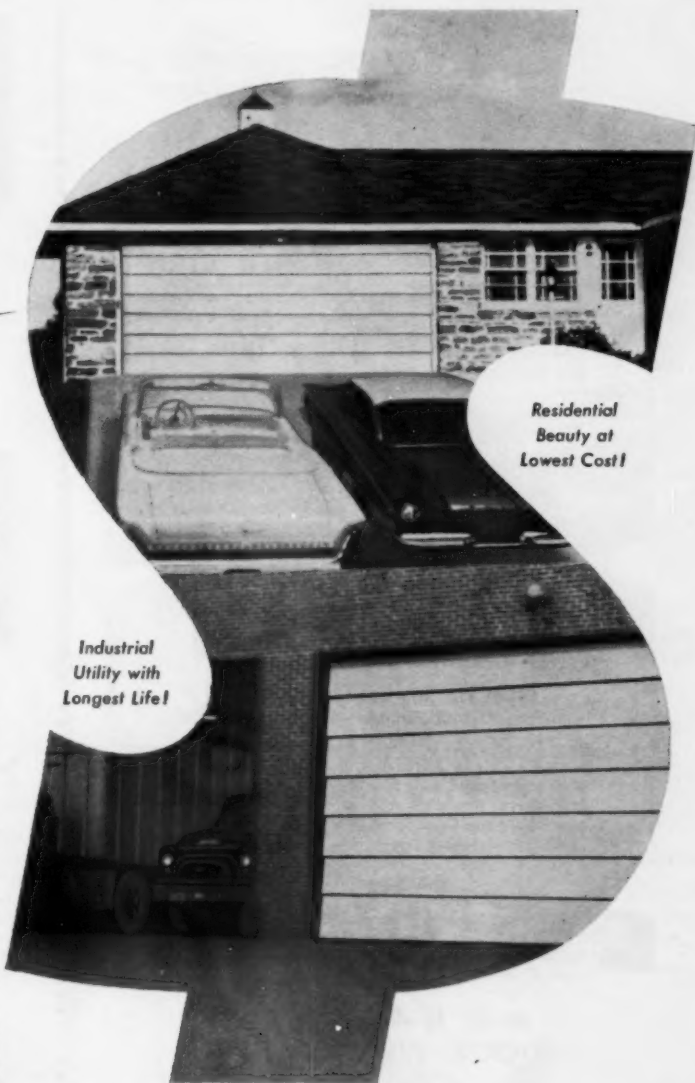
**LOWEST IN PRICE OF ANY
ELECTRICALLY-OPERATED DOOR
FOR RESIDENTIAL OR INDUSTRIAL USE!**

Works like a venetian blind!...Saves head-room!... No warp, no screech, no rumble nor rattle!

No other garage door can match the exclusive PANEL-LIFT DOOR for trouble-free performance or save so much space, money and installation time.

Look at these exclusive features:

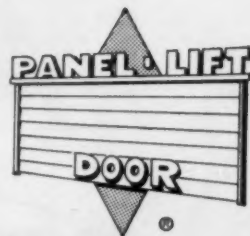
- **WORKS LIKE A VENETIAN BLIND.** Panels lift vertically, gliding quietly up their separate channels.
- **SAVES HEAD-ROOM.** Panels stack into a unit only 10-inches deep. No screechy, dirt-catching overhead tracks. No bulky counterweights.
- **SIMPLE, RUGGED DESIGN.** Complete all-steel door has only 9 components. Includes automatic-locking and safety-devices.
- **EASY INSTALLATION.** Only 4 bolts needed to secure door to jamb opening.
- **WEATHER-TIGHT** to prevent heat loss in winter.
- **KEY-OPERATED** as standard equipment to foil intruders. Additional remote control switches available if desired.
- **RUST AND ABRASION RESISTANT.** Doors are primed with a coating specially developed by Standard-Toch Chemicals Co. to give maximum surface protection, ready for finish coat with any conventional outside paint.
- **LOW COST.** Doors normally cost 50% less to buy and 66% less to install and maintain than other electrically-operated doors.
- **SIZES.** Standard residential sizes in 20-gauge steel; industrial sizes in 16- and 18-gauge. Sizes to 80 feet in length available on special order.



*Residential
Beauty at
Lowest Cost!*

*Industrial
Utility with
Longest Life!*

DEALER OPPORTUNITY. Investigate the dealer-profits in these amazing PANEL-LIFT DOORS. Write today for brochure and full details, without obligation, to Dept. A-461



PANEL-LIFT DOOR CORPORATION

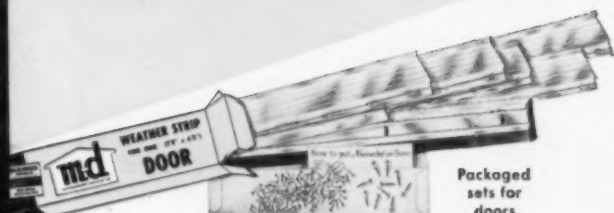
SUBSIDIARY OF STANDARD-TOCH INDUSTRIES, INC.

1724 CHESTNUT ST., PHILADELPHIA 3, PA.

(A few restricted wholesale distributorships are still available.)



For more SEE-able features...
Quality Building Products



Packaged sets for doors

M-D Numetal WEATHER STRIP

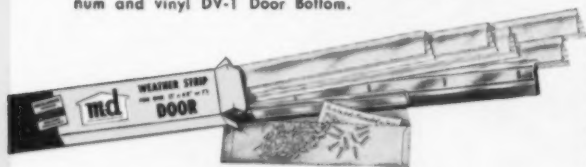
Packaged sets for doors. In stainless steel or bronze. Complete packaged units mean easier handling for you . . . easier installation for customers. M-D Numetal door sets available with regular door bottoms or with any M-D threshold.



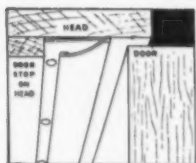
M-D Jamb-Up DOOR WEATHER STRIP

Extruded Aluminum & Durable Vinyl

Perfect for wood or metal doors. Made of sturdy, extruded aluminum and tough, durable vinyl. Comes completely packaged with necessary strip, nails, screws and instructions. Available with or without extruded aluminum and vinyl DV-1 Door Bottom.



M-D H-4 FOLD-BACK DOOR WEATHER STRIP



Automatically spaces itself when properly placed against door stop. A smoothly-operating, economical packaged set for all standard doors. Aluminum or bronze—with any door bottom or threshold desired. Nails, screws and instructions furnished in each set.

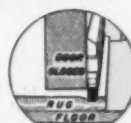


M-D Nu-GARD AUTOMATIC DOOR BOTTOMS

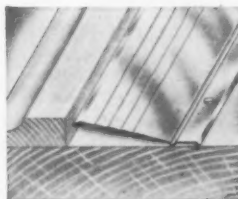
For ALL doors. With silvery-satin or Albras finish—will not rust or tarnish. Furnished in standard lengths—28", 32", 36", 42" and 48".



Up automatically to clear carpet easily when door opens.



Down snugly against floor to seal out drafts when door closes.



M-D On-GARD COIL WEATHER STRIP

All-metal weather strip in handy rolls. 8 widths in either stainless steel or bronze. Features built-in tension, embossed nail zone and hum-proof edgel

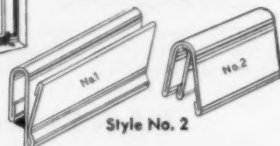
M-D Nu-WAY WEATHER STRIP

The "original" coil metal and wool felt weather strip. Fast-selling because it's so easy to put on. Each individual package contains one 18 ft. roll with nails and instructions. Packed 12 cartons in free display.



M-D CASEMENT WINDOW WEATHER STRIP

Easy to install on steel or aluminum casements. Slips over window flange. Style No. 1 is used on head and lock side or swinging edge of metal casement windows. Style No. 2 is used on hinge side and the sill.



Style No. 1

Style No. 2

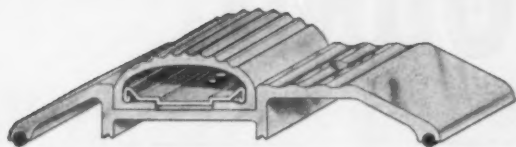


BUILDERS Sold by Leading Hardware, Lumber and Building Supply Dealers.

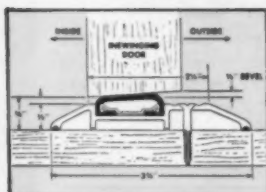
DEALERS ORDER TODAY your order will receive prompt shipment.

For more *SELL-able* features...

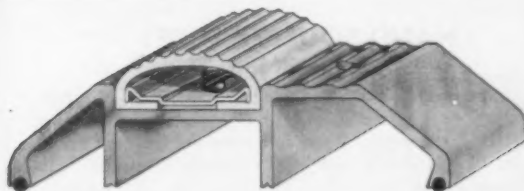
for Doors and Windows



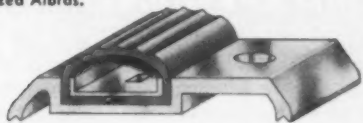
M-D EXTRUDED THRESHOLDS



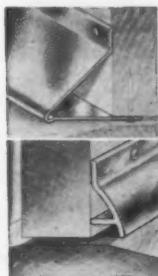
AP-3^{3/4} —America's most popular threshold with replaceable vinyl insert. Note vinyl calking strips under each leg, which may be removed if the use of Nu-Calk Calking Compound is preferred. Available in Alacrome or Anodized Albras.



AP-118—(above) Designed especially for thick pile rugs. Has vinyl calking under legs, as well as replaceable vinyl insert. Available in Alacrome or Anodized Albras.



AP-158—Threshold of sturdy, extruded aluminum with replaceable vinyl insert. Can be used on bottom of door or on top of wood threshold. Available in Alacrome or Anodized Albras.



M-D DRIP CAPS

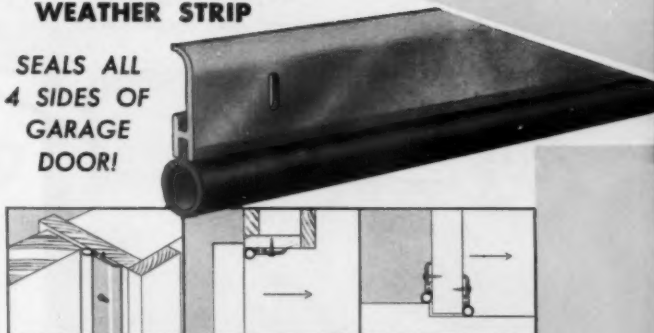
Prevents rain from draining or blowing under door or wood casement windows.

A Available in DCA Aluminum or DCA Albras. Holes punched, nails furnished—comes in any length.

B New, heavy duty extruded aluminum drip cap. Packed in individual poly tube. Available in natural Alacrome and in 3 permanent Anodized finishes. Standard lengths 32", 36", 42" and 48".

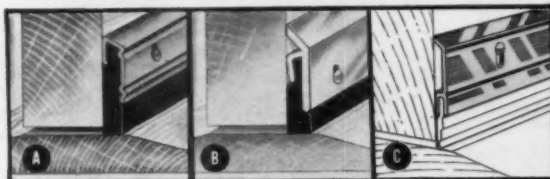
M-D GARAGE DOOR WEATHER STRIP

SEALS ALL
4 SIDES OF
GARAGE
DOOR!



SIDES OF DOOR TOP OF DOOR BOTTOM OF DOOR

Sturdy extruded aluminum and durable vinyl that lasts a lifetime. Exclusive design of vinyl weather strip seals out rain, snow, drafts, dirt. Made especially for overhead doors (both sectional and solid types) but may be used on almost every type of garage door. Packaged sets in poly tubing include screws and instructions.



M-D DOOR BOTTOMS

A M-D Numetal Door Bottom made of extra thick wool felt and heavy gauge stainless steel, brass or aluminum. Standard lengths—28", 30", 32", 36", 42" and 48".

B M-D heavy duty extruded aluminum and felt door bottom in Alacrome or Anodized satin, bright or brass colors, in all standard lengths.

C M-D extruded aluminum and vinyl door bottom—in natural Alacrome or Anodized Albras finish—in all standard lengths.



MACKLANBURG-DUNCAN CO.

Manufacturers of Quality Building Products • Box 1197 • Oklahoma City 1, Okla.

Those who know Quality always want



CALKING & GLAZING COMPOUND



Nu-Calk CALKING COMPOUND in Bulk—Knife or Gun Grade

Off-White Color available in knife or gun grade. Pure White Color available in gun grade only. Off-White shipped unless White specified. Gun Grade meets Federal Specifications No. TT-C-598 (Grade 1). Available in ½ pt., pt., qt., gallon, 5 gal. and 55 gals.



HAND SQUEEZE TUBES for small jobs

No gun needed. Simply remove cap from built-in nozzle, fasten key over crimped end, turn key and start calking. Here's a fast-moving item for over-the-counter sales. Packed 12 tubes in a handsome "Silent Salesman" display carton that can be quickly set up on your counter.



Nu-Glaze GLAZING COMPOUND Always stays "PUT"

Here's the perfect material for glazing wood or metal sash, replacing putty, setting plumbing, filling cracks, boatwork of all kinds. Clean to handle, easy to use. Will not dry out, harden, crack or peel. Available in ½ pt., qt. cans; 25, 50, 100, 880 lb. drums.



Nu-Phalt PLASTIC ASPHALT CEMENT for all jobs!

Ideal for sticking down asphalt shingles and floor tiles . . . for use on roofs, chimneys, flashings. Packed 12 loads to a carton . . . with or without plastic nozzle. Shipped without nozzle unless specified. Also available in 2½ and 10 lb. cans; 50 lb. pails; 550 lb. drums.

Advertised Nationally in 17
Leading Consumer Magazines

BUILDERS Sold by all
Hardware, Lumber and Build-
ing Supply Dealers.

DEALERS ORDER TODAY
—your order will receive
prompt shipment.



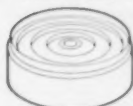
Perfect for Today's Quality-Built Homes!



AMERICA'S FAVORITE!

SPEED LOAD

WHEN ONLY THE BEST is good enough—builders and home owners choose M-D Speed Loads every time! With "controlled flow" action, M-D Speed Loads eliminate dripping or oozing of compound from nozzle. Get cleaner, neater jobs. It pays to tell customers about this feature. Point out the BUILT-IN Polyethylene pleated plunger (with accordion action) that STOPS flow of calking compound when desired!



- Available in white or off-white color.
- Available with or without plastic nozzle.

M-D Speed Loads are packed 12 loads to each carton. Please order in multiples of 12. Off-White loads without nozzle always shipped unless otherwise specified.

Meets Federal Specifications TT-C-598 (Grade 1)



NEW EXCLUSIVE FEATURES!

• NEW PLASTIC NOZZLE

New plastic nozzle provides on-the-job choice of 4 different size nozzle openings: 1/8", 3/16", 1/4" and 3/8". No longer do you have to change gun nozzle to get a small or large bead of calking.



• BUILT-IN CUT-OFF ON GUN HANDLE

As shown, the CG-4 gun now has a built-in cut-off knife blade on the trigger of the gun. Tip of plastic nozzle is cut off by squeezing trigger.



MACKLANBURG-DUNCAN CO.

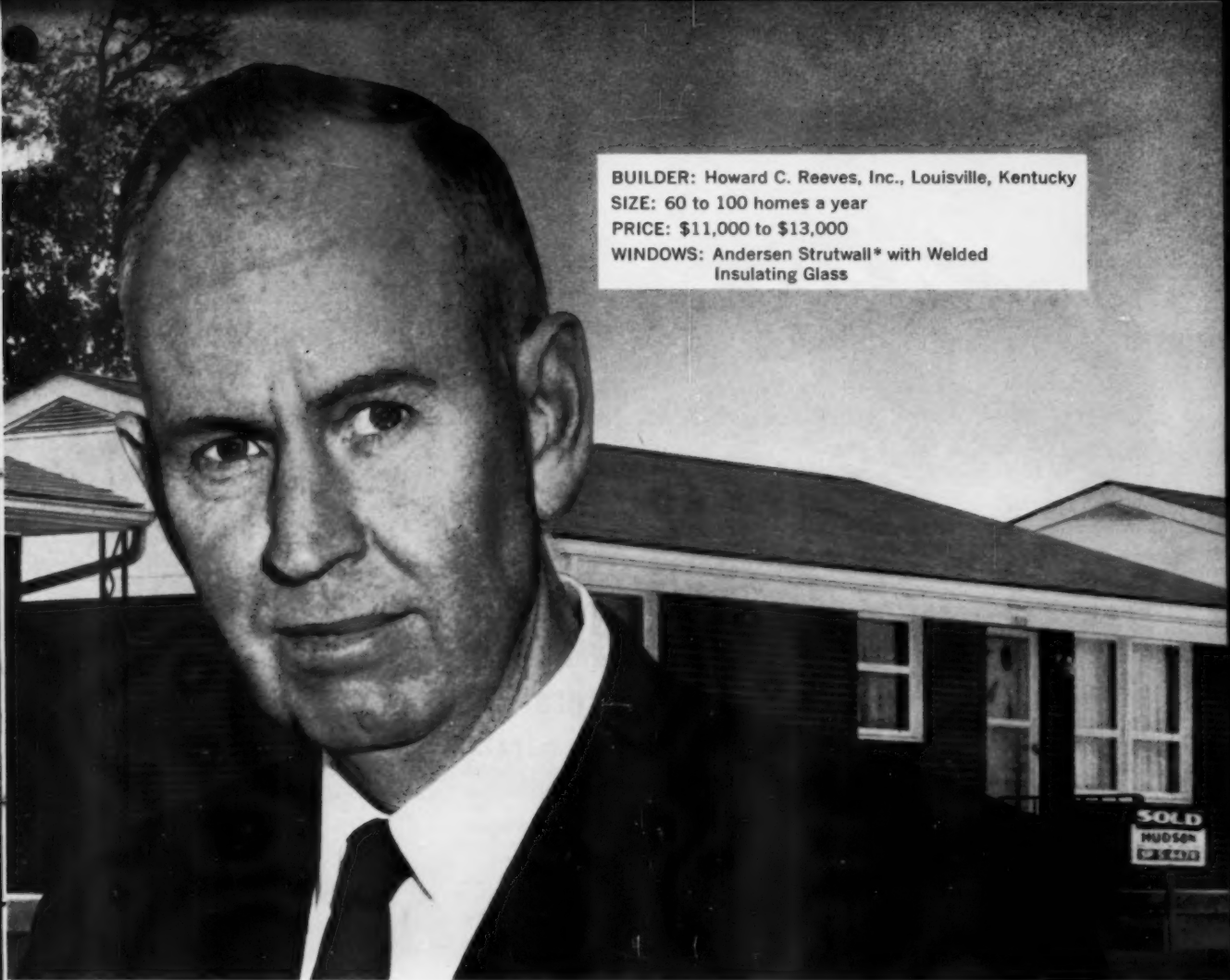
MANUFACTURERS OF QUALITY BUILDING PRODUCTS
BOX 1197 • OKLAHOMA CITY 1, OKLAHOMA



"THIS ANDERSEN LABEL



This label is factory applied as of March 1, 1961



BUILDER: Howard C. Reeves, Inc., Louisville, Kentucky
SIZE: 60 to 100 homes a year
PRICE: \$11,000 to \$13,000
WINDOWS: Andersen Strutwall* with Welded Insulating Glass

IS A BIG HELP IN SELLING OUR \$13,000 HOMES"

*Starts were down 20 to 30% in 1960—
but Louisville Builder Howard Reeves
sold at his usual rate of 60 homes.*

1960 was a bad year for builders generally. But not for Howard Reeves! He credits Andersen Windows with a good part of his success. "Many of our prospects know Andersen is a top quality window, but they are almost always surprised to find Andersen with welded insulating glass in homes in our 11 to 13 thousand-dollar price range.

"The Andersen label is a good starting place for our salesmen to point out all the quality brands and features we put into our low price homes."

Why not put America's best and best-known window to work for you? Take advantage of the fact that in the minds of many buyers, the Andersen name is a sure sign of high quality throughout

the house. Remember—this fact is being stressed all year long in big, full-color advertisements in *Life* and *Better Homes and Gardens*.

Check your lumber and millwork dealer for all the Andersen facts. And send for the new 1961 Home Promotion Kit. It's free—and this kit also includes the new Andersen labels.

*Trademark of Andersen Corporation

Andersen Windows

ANDERSEN CORPORATION • BAYPORT, MINNESOTA



KINNEAR DOOR *Quality* has a place in every building picture

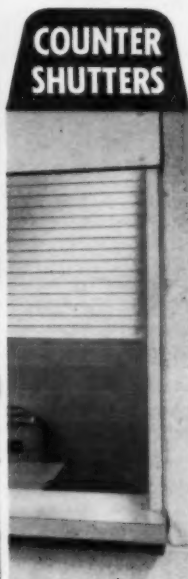
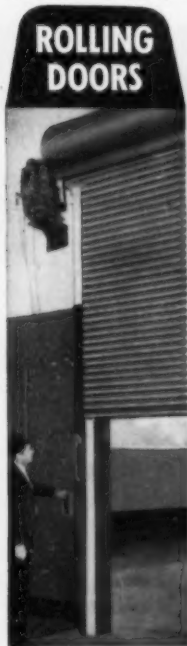
Only four Kinnear space-saving doorway products are shown below. All reflect the *extra quality* for which Kinnear has been recognized through more than half a century. They meet *many* needs, in buildings of every classification. And Kinnear equipment is never "orphaned" . . . all are REGISTERED — parts are always replaceable from engineering details kept in Kinnear's *fireproof vaults!* It pays to insist on *Kinnear!*

The KINNEAR Manufacturing Co. Factories: 1560-80 Fields Ave., Columbus 16, Ohio; 1742 Yosemite Ave., San Francisco 24, Calif.

Offices and Agents
in All Principal Cities

SEND FOR NEW DATA —

Be sure you have all data on the *complete* Kinnear line — upward-acting sectional doors (steel or wood) . . . protective "see-through" rolling grilles . . . interlocking-slat counter shutters and service doors (aluminum, steel or other metals) . . . Kinnear Power Operators — also U-L labeled fire doors, Bi-fold (two-section jack-knife) doors! Lots of useful "specs". Send for FREE copy today.



BRAND NAMES DIRECTORY

(Continued from page 132)

MARLITE HI GLOSS Marsh Wall Products Inc
MARLITE KORELOCK Marsh Wall Products Inc
MARLITE MARBLE PANEL Marsh Wall Products Inc
MARLITE PLANK Marsh Wall Products Inc
MARLITE POLISH Marsh Wall Products Inc
MARLITE RANDOM PLANK Marsh Wall Products Inc
MARLITE TRENDWOODS Marsh Wall Products Inc
MARSCHKE Grinding & Polishing Mach
MARSH MOULDINGS Marsh Wall Products Inc
MARTHA WASHINGTON Gray & Dudley Co
MARVAIR Muncie Gear Co
MARVAN TAPE Marvan Corp
MARVEL-LIFT Crawford Door Fabricating
MARZOLF Farwell Metal
MASCO Simpson Mark Mfg Co
MASLAND DURAN CLAD Masland Duralather Co
MASON-DRI Sapolin Paints Inc
MASONITE Masonite Corp
MASONIZE American Asbestos Product Co
MASTER-BILT Bird & Son Inc
MASTER CLEANER & POLISH Miraplas Tile Co
MASTER CRAFT Met-Cro Specialties Co Inc
MASTER-FLUSH DOOR Hardwood Products Corp
MASTER GLAZIERS Biddle Co
MASTER MASTIC Miraplas Tile Co
MASTER PROFESSIONAL B Holt Mfg Co
MASTERKUR Master Builders Co
MASTERLINE Blonder-Tongue Laboratories Inc
MASTERIX Master Builders Co
MASTERPLATE Master Builders Inc
MASTIC Crown Tile Corp
MASTICBOARD Camp Co Inc
MASTIPAVE Fiberboard Paper Prods Inc
MATICO Mastic Tile Div Ruberoid Co
MATICO CONFETTI Mastic Tile Div Ruberoid Co
MATICO MATICORK Mastic Tile Div Ruberoid Co
MATICOVE Mastic Tile Div Ruberoid Co
MAX-BOND Kaiser Aluminum & Chemical Corp
MAXAW Cummins Portable Tools Div John Oster Mfg
MAXIM-AIR Republic Steel Corp Truscon Div
MAXIMUL Kaiser Aluminum & Chemical Corp
MAYES Mayes Bros Tool Mfg
MAZEMADE Maze W H Co
McDONOUGH McDonough Mfg Co
MECHANIZED MOLE Molco Drilling Machines Inc
MEDALIST LOCKSETS Medalist Hardware Div
MEL-LUX Sapolin Paints Inc
MELBOURNE Remington Alum Window Corp
MELLO-GLOSS Lowe Bros
MELLO-TEX Lowe Bros
MELLOTONE Lowe Bros
MELLOTONE Mosaic Tile Co
MENGELWOOD Mengel Co
MERCURY Vulcan Electric Co
MERCURYS Weatherbest Corp
MERLIN Fitzgerald M J Co
MERTLAND Hedges M M Mfg Co Inc

(Continued on page 164)

all new Malta casement
windows

- WITH SNAP-IN GRIDS -

give you
custom quality

at economy prices



Stocking or installing, the new Malta Casement window offers outstanding advantages to both dealer and builder. The basic design features one light sash in a variety of heights and widths—with snap-in grids for diamond, colonial or custom light divisions.

This new Malta unit carries an economy price tag—but it is constructed with custom quality appointments. Superb gold-tone hardware and window trim... smooth action roto-operators... inside screens... the ultimate in weatherproof protection against drafts, dust and moisture... and extended hinges that permit cleaning from the inside... are a few "buy-appeal" features.

Malta precision milling and finishing... a stronger, more rigid frame... a new sill design that assures proper drainage bring fast, easy installation.

Frames are shipped KD to jobber... fitted for double glazing standard or insulated glass... hardware attached... manufactured to conform with Commercial Standards CS205-59.

See the all new Malta Casement window at your nearest Malta dealer today or write directly to the factory for full details,



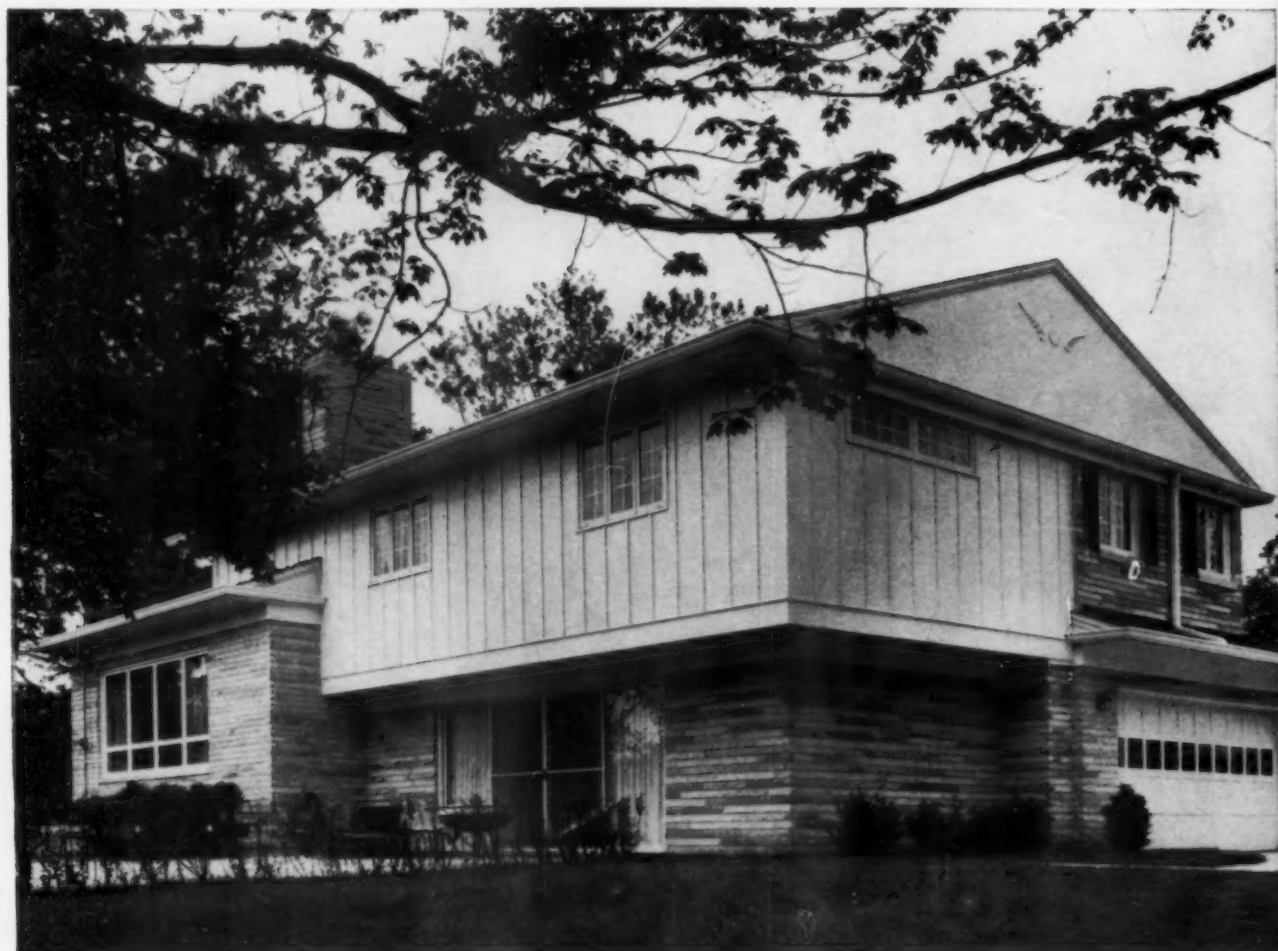
Supreme Quality Since 1901

THE MALTA MANUFACTURING CO., MALTA, OHIO



Member
Ponderosa Pine
Woodwork Assn.
and N. W. M. A.

"TWINDOW[®] Insulating Glass has become



TWINDOW in every window makes every room comfortable. What looks like small panes in upper windows are actually snap-on moldings over a large pane of glass.



HIGH-FIDELITY[®] Mirrors of twin-ground Pittsburgh Plate Glass on sliding clothes closet doors have real sales appeal to the women.



Metal edge TWINDOW in PITTCO[®] Sliding Glass Doors and large glass areas gives maximum insulation.

one of my best selling features,"

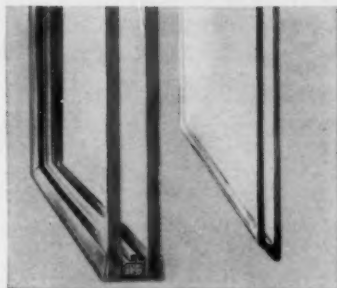
says Wendell P. Wright,
builder, Indianapolis, Indiana

This beautiful home is one of the 12 to 15 that Wendell P. Wright builds annually in the Indianapolis area. He constructs better homes, on a speculative basis, in the price range of \$38,000 and up and is highly regarded for the quality of his homes. All the houses have TWINDOW Insulated Glass in the windows and sliding glass doors!

Mr. Wright says, "TWINDOW Insulating Glass adds the comfort and convenience that are demanded in today's homes. I build only better quality homes and I use TWINDOW because it is one of my best selling features. TWINDOW Insulating Glass adds the quality touch to the windows of the homes I build."

TWINDOW is two panes of Pittsburgh Glass with an insulating layer of dry air sealed between. It keeps a home warmer in winter, cooler in summer. Cold drafts near windows are reduced. TWINDOW minimizes window steaming and frosting . . . provides window insulation in its most convenient form.

Give *your* homes the extra sales appeal of TWINDOW in every window and sliding door. It comes in glass edge or metal edge in all popular sizes. Our free TWINDOW booklet will give you the details. Write: Pittsburgh Plate Glass Company, Room 1132, 632 Fort Duquesne Blvd., Pittsburgh 22, Pennsylvania.



TWINDOW—METAL EDGE (left) for large windows. Made with two panes of $\frac{1}{4}$ " Plate Glass, with a $\frac{1}{2}$ " sealed air space between. **TWINDOW—GLASS EDGE** (right) for smaller windows. Made from two panes of $\frac{1}{8}$ " PENNVERNON® Window Glass with a $\frac{3}{16}$ " air space between.

TWINDOW®

... the windowpane with insulation built in



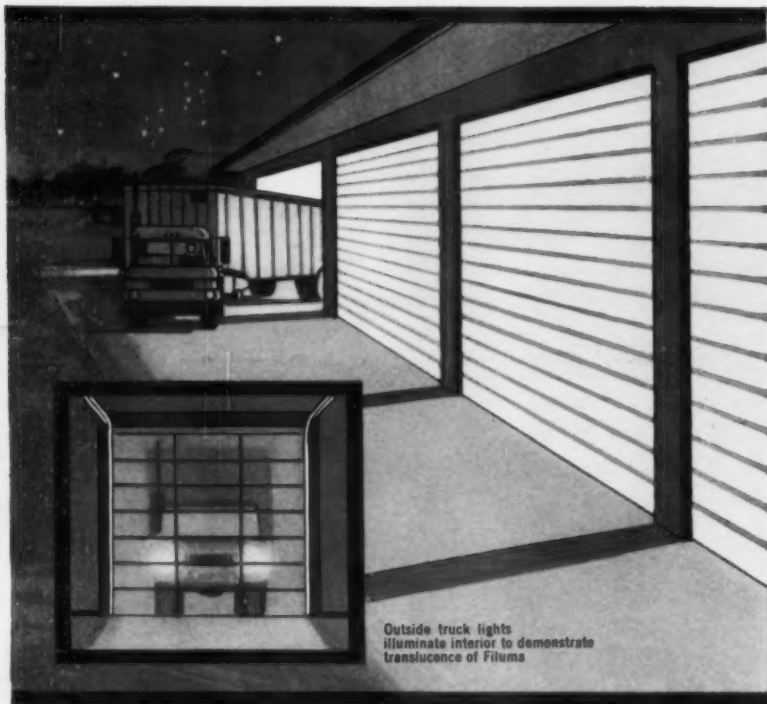
Pittsburgh Plate Glass Company

Paints • Glass • Chemicals • Fiber Glass

In Canada: Canadian Pittsburgh Industries Limited

FILUMA[®] *Fiberglass-Aluminum Extension Spring Doors*

**Performance-proved translucent overhead type door
for commercial and industrial use**



- *Clean lines for modern building design*
- *Lets light in like a skylight*
- *Saves window installations*

Filuma is winning increased preference by operators and builders of many kinds of business and types of construction for these reasons: *Transluence*—light floods in to vastly improve working conditions. *Light weight*—only one-third that of wood doors . . . a much smaller power unit can operate the largest sizes. *Modern materials*—reinforced fiberglass panels, in a sculptured design, are encased in tempered extruded aluminum with reinforcing rails for all sizes. *Durable and maintenance free*—will not split, impervious to corrosion. Shatterproof, shrinkproof, weatherproof. Never needs painting. Hoses clean. *Custom made* to fit door openings up to 14' high or 16' wide. *Five colors*—white, yellow, green, tan, coral. Trained installation not required. Filuma is nationally distributed through lumber yards and building supply dealers.

SWEETS 16i/FRA



FILUMA IS A PRODUCT OF
FRANTZ
MANUFACTURING COMPANY
STERLING, ILLINOIS

Manufacturers of Over 100 Sizes and Styles of Sectional and One-Piece Overhead Type Doors for Residential, Commercial, and Industrial Application. Extension and Torsion Spring.

BRAND NAMES DIRECTORY

(Continued from page 160)

MET-CRO Met-Cro Specialties Co Inc
MET-L-GLIDE Lock-Joint Window Co
METAL-LITE Rich Howard B
METAL MESH Alabama Wire Co Inc
METALACE Plextone Corp of America
METALBESTOS Metalbestos Div Wm Wallace Co
METALLIC Lufkin Rule Co
METALON Horn A C Cos
METALSET Smooth-On Mfg
METERGAS Suburban Propane Gas Corp
METLVENT Hart & Cooley Mfg Co
METRO Motor Truck Div International Harvester Co
METRO-MIX Bestwall Gypsum
METRODECK Goldsmith Metal
MEZURALL Lufkin Rule Co
MIAMI-CAREY Miami Cabinet Div Philip Carey Mfg
MICARTA US Plywood Corp
MICARTA Westinghouse Electric Corp
MICARTABORD US Plywood
MICHIGAN Clark Equipment
MICRO-LOK Johns-Manville
MICROLITE Johns-Manville
MICROTEX Johns-Manville
MIDGET Metzgar Conveyor Co
MIDGET Midget Louver Co
MIDGET Utica Radiator Corp
MIDGET Wilson J G Corp
MIGHTY MIDGET PULLERS Coffing Hoist Div Duff-Norton
MIGHTY MITE Holly-General
MIGHTY-MITE Remington Arms Co Inc
MILCOR Inland Steel Products
MILDOOM Sapolin Paints Inc
MILLER Miller, Frank B
MILMARK Mastic Tile Div Ruberoid Co
MINABOARD Armstrong Cork
MINATONE Armstrong Cork
MINIATURES Buffalo Wallcraft Co Inc
MINNCOTE Minnesota Paints
MINNFLO Minnesota Paints
MINNSPAR Minnesota Paints
MINUTE MAN Slaymaker Lock
MINUTE MOUNT Progress Mfg Co Inc
MIRACLE BLACK MAGIC Miracle Adhesives Corp
MIRACLE FLOOR Camp Co
MIRACLE TAPE Gering Plastics Div
MIRACLE TUB CAULK Miracle Adhesives Corp
MIRAMENT Seddon Co
MIRAPLAS Miraplas Tile Co
MIRARIM Elkay Mfg Co
MIRATRIM Miraplas Tile Co
MIRRO-CHROME Penn-Akron
MITCO Hendrick Mfg Co
MITY MIDGET National-Detroit Inc
MIX ELVATOR Air Placement Equipment Co
MOBILE MAID General Electric Co Major Appliance
MOBILEWALLS Virginia Metal Products Inc
MODERN-COTE New Castle Products
MODERN MAID Tennessee Stove Works
MODERN PROVINCIAL Amerock Corp
MODERNE Luxor Carpet Co
MODERNFOLD New Castle Products Inc
MODERNWOOD Modernwood
MODU-AIRE US Air Conditioning Corp
MODULITE General Bathroom Products Corp

(Continued on page 168)



seeing spots ?

SO WILL
YOUR
CUSTOMERS

Sometimes "seeing spots" is a healthy condition; it's especially healthy for your business when they see Rimco's Sales Spots. Ask your Lumber Dealer about this new idea to merchandise Rimco Wood Window Units in your model homes. These colorful 5" pressure-sensitive "spots" will tell your prospects about Rimco benefits like: preservative-treated Ponderosa Pine construction; premium stainless steel and anodized aluminum weatherstripping; wood bead glazing; decorator hardware; "Gold-Tone" screen frames; A.W.W.I. "seal of approval" and many more, dependent upon the type of Rimco Wood Window Units you install. Choose from a complete line of casement, double-hung, horizontal sliding, awning type, and single-jamb fixed sash over awning. Plan right now to cash in on this new idea to help sell your homes. See your Lumber Dealer or write directly to:

ANOTHER NEW MERCHANDISING IDEA FROM RIMCO

RIMCO.

ROCK ISLAND MILLWORK COMPANY
FACTORY DIVISION, P. O. BOX 97
Rock Island, Illinois

(SEE OUR CATALOG IN SWEET'S FILE)

DESIGNED AND ENGINEERED BY ROCK ISLAND MILLWORK COMPANY • HELPING BUILD AMERICA FOR OVER 90 YEARS

LABOR-**SAVING** PRODUCTS
kewanee

Residential, Interior STEEL DOOR FRAMES



PLASTERITE—(PATENTED)— **UNIVERSAL "KWIK-FIT"**
 INSTALLS BEFORE PLASTERING SNAPS OVER DRYWALL
 FULL LINE OF HOLLOW METAL DOORS AND FRAMES

FULL LINE OF "BUCK" WINDOWS FOR POURED WALLS



STANDARD 2-LITE



SLIDER



CASEMENT



HOPPER VENT



"BUCK" DOOR FRAMES

ALSO
 RANCH AND
 BLOCK "BUCK"
 WINDOWS ...

OTHER KEWANEЕ QUALITY PRODUCTS:

- Clean-Out Doors
- Ash Dumps
- Commercial Windows
- Lintels
- Utility Windows
- Basement Coal Chutes
- Steel Mortar Boxes, etc.

Write for Literature
kewanee *Manufacturing Co.*

461 ROMPEL AVE. • KEWANEЕ, ILLINOIS

The Cost of Quality
 more than repaid
 in direct labor savings!

Columbia-matic[®]
**FABRIC
 DOORS**



... and only real
 quality will sell in
 the 60's!

Spend just five minutes at your building materials dealers examining his Columbia-matic display model, and the total marketability of the folding door will be crystal clear. Installs in seconds, narrow, neat, with exclusive pantograph* mechanism, it is built to stand up to abuse. No complaints, no call-backs. Washable, fire retardant, highly styled, it comes in widths to 4 ft.—heights to 8 ft. Can be hung in pairs.

*Patent Pending

For complete details see your distributor, or write Dept. 114
THE COLUMBIA MILLS, INC.
 368 S. Warren Street, Syracuse 1, New York

WAGNER



GARAGE DOORS
 and *Electric* OPERATORS

THE COMPLETE LINE for

- RESIDENTIAL
- COMMERCIAL and
- INDUSTRIAL SERVICE

Get full details on styles, types and sizes available in both wood and steel. Write for Catalog ABH-61



★ If interested in metal sawhorse legs, building brackets, hangers and tracks, joist supports or studding sockets, ask for Hardware Catalog AB-61

WAGNER MANUFACTURING COMPANY
 CEDAR FALLS, IOWA, U.S.A.

PELLA PRODUCTS

THE FOCAL POINT OF QUALITY



FREEMONT UNION HIGH SCHOOL, SUNNYVALE, CALIFORNIA
 ARCHITECTS: MASTEN, HURD AND GWATHMEY
 BUILDER: FRIETAS CONSTRUCTION COMPANY



wood folding partitions

provide walls that "get out of the way"

Wherever a single floor area must serve two or more activity groups, there's a place for heavy-duty PELLA WOOD FOLDING PARTITIONS. Besides solving fast-changing space division problems, these handsome partitions also lend rich interior beauty to schools, churches, offices, clubs and restaurants. Massive panel dimensions of 10 1/4" x 1 1/4" emphasize the natural grains of 6 genuine wood veneers. Laminated stable core construction permanently prevents warping. Patented "live-action" hinging maintains panel alignment. For any opening width and heights up to 20'-1". Call the PELLA distributor listed in the classified section of your telephone directory or mail coupon.

6 Fine Wood Veneers • ASH • OAK • PHILIPPINE MAHOGANY • AMERICAN WALNUT • BIRCH • PINE



SOLID WOOD BLOCK CORE
 of each panel is laminated with water-resistant plastic glue and faced with genuine wood veneer.

THIS COUPON ANSWERED WITHIN 24 HOURS

PELLA ALSO MAKES QUALITY WOOD FOLDING DOORS,
 WOOD SLIDING GLASS DOORS, WOOD CASEMENT
 AND MULTI-PURPOSE WINDOWS AND ROLSCREENS

ROLSCREEN COMPANY, Dept. MB-26, Pella, Iowa

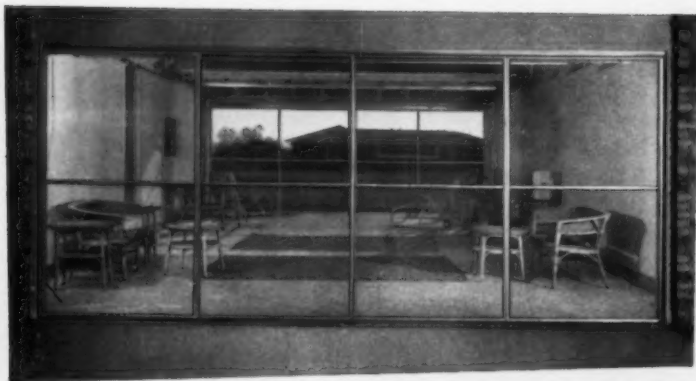
Please send details on PELLA WOOD FOLDING PARTITIONS

NAME _____

FIRM NAME _____

ADDRESS _____

CITY & STATE _____ STATE _____



INDOOR LIVING AT ITS BEST

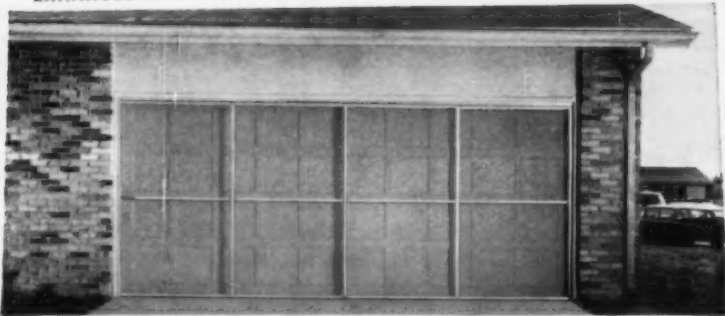


EASY ACCESSIBILITY



FINGERTIP OPERATION

ENHANCES ANY ARCHITECTURE



RAYNOR MFG. CO.

Dixon, Illinois Hammonton, New Jersey

Builders of a Complete Line of Sectional Overhead Type Doors

RAYNOR *Garage-Aire* **SCREEN DOORS**

*Mean SALES for
the Homes You Build!*

The garage becomes a SUMMER FAMILY ROOM . . . a cool, insect free covered breezeway for summer living that means usable — livable floor space at a low, low cost.

- Rugged, rolled aluminum frame, weatherproof fiberglass screening
- Available in both one and two car sizes
- Easily installed without costly alterations
- Attractively designed, will not mar the beauty of your homes
- Will not interfere with the operation of the garage door

BRAND NAMES DIRECTORY

(Continued from page 164)

MOE LIGHT Thomas Industries Inc
MOEN Moen Faucet Div., Standard Screw Co
MOHAWK Behr-Manning Co
MOHICAN Mansfield Sanitary
MOISTOP American Sisalkraft
MOLCOR Bemis Mfg Co
MOLY Wood Shovel & Tool Co
MONARCH Dietz R E Co
MONARCH Martin-Senour Co
MONCRIEF Henry Furnace Co
MONO-FIBRICK Kaiser Aluminum & Chemical Corp
MONO-FLASH Carrollton
MONO-D-JECT Smith & Loveless Div
MONOGRAM Monogram Industries Inc
MONOMASTER Boice Crane
MONOPANL Butler Mfg Co
MONTEREY Fiat Metal Mfg
MONTEREY Rudiger-Lang Co
MOORE GAS HEATER Locke Stove Co
MOORE-O-MATIC Moore A E
MOPA-COTE Mobile Paint Mfg
MOPACO VAR Mobile Paint
MOR-SUN Morrison Steel
MOR-TILE Morton Ceramic Tile Co
MORTASEAL US Gypsum Co
MORTITE Mortell J W
MOTO-BUG Koehring Co
MOTO-MIXER Chain Belt Co
MOTO-TRIMMER Bosworth Mfg Co
MOTORDOR Broan Mfg Co
MOTRAC Motorola Communications
MOULSTONE Thomas Moulding Floor Co Inc
MOUNT AIRY GRANITE North Carolina Granite Corp
MOUNT VERNON Gerber Plumbing, Fixtures
MT VERNON Mt Vernon Furnace & Mfg Co
MOYNO Robbins & Myers Inc
MOZEL Quartz Mosaic Inc
MP CIRCUIT BREAKERS Murray Mfg Corp
MUD-JACK Koehring Co
MUELLER CLIMATROL Mueller Climatrol Div
MUL-T-SIZE Leigh Building Products
MULE-HIDE Lehon Co
MULSOMASTIC Tremco Mfg
MULTI-CALKS Rawplug Co
MULTI-CELL Pal-O-Pak Insulation Co Inc
MULTI-COIL Ruud Mfg Co
MULTI-DIAMETER US Expansion Bolt Co
MULTI-FIN Ruud Mfg Co
MULTI PAK Slant-Fin Radiator Corp
MULTI-PITCH H-C Products
MULTI-SHINGLES Allied Chemical Corp
MULTI-TEMP Hydrotherm
MULTI-USE DRIVERS US Expansion Bolt Co
MULTI-WOOD-BLOCK Fair D L Lumber Co
MULTIMATIC Seidlitz Paint & Varnish Co
MULTITINT Seidlitz Paint & Varnish Co
MURALS Birge Co Inc
MURRAY Gladding McBean
MUSI-KOM Home Music Systems Inc
MUSI-TALK Fanon Electric Industries Inc
MW-ONE Carey Philip Mfg Co
MW-50 Carey Philip Mfg Co
NAILDRIVER Morgan Machine
NAILMASTER Stanley Tools
NAILON-BRICK Ludowici-Celadon Co

(Continued on page 192)

PELLA PRODUCTS

THE FOCAL POINT OF QUALITY



ARCHITECT: HOWARD W. TUTTLE



ROLSCREEN®
the inside screen that rolls
down, up and out of sight.



**wood casement
windows**

give homes "talk-about" quality

Home buyers instantly recognize the unique convenience of ROLSCREEN®—the inside screen that rolls down in the spring and up in the fall. The "here's-how-it-works" attraction of ROLSCREEN will continually remind the occupants of your good judgment in installing PELLA WOOD CASEMENT WINDOWS. Inside storm panels are also self-storing. Removable muntin bars available in regular, diamond and horizontal styles. The lasting beauty of genuine Western Pine is fortified by a 16-gauge steel frame surrounding the entire window. For sizes and prices, call the PELLA distributor listed in your classified telephone directory or mail coupon.

THIS COUPON ANSWERED WITHIN 24 HOURS

PELLA ALSO MAKES QUALITY WOOD MULTI-PURPOSE
WINDOWS, WOOD FOLDING DOORS AND PARTITIONS,
ROLSCREENS AND WOOD SLIDING GLASS DOORS

ROLSCREEN COMPANY, Dept. MB-27, Pella, Iowa
Please send illustrated details on PELLA WOOD CASEMENT WINDOWS
with the exclusive Rolscreen feature.

NAME _____

FIRM NAME _____

ADDRESS _____

CITY & ZONE _____

STATE _____



8:00 a.m. You are about to view a new, cost-saving, one man "K-D" frame installation for wood doors using Amweld Steel E-Z Frames. E-Z Frames are installed OVER 1/2" drywall! First, the wood stud is checked for plumb.



8:01 a.m. Hinge jamb is placed in starting position and rotated to vertical. Lightweight sturdy 22 gauge, rust-resistant steel sections are easy for one man to handle.



8:02 a.m. Place header in starting position and rotate to horizontal position. Note trim hairline-mitered corner. Provides neat, professionally-finished appearance without on-the-job fitting.



8:03 a.m. Now strike jamb is placed into starting position and rotated to vertical position. Beveled profile of E-Z Frame harmonizes well with contemporary decor.



8:04 a.m. Spacer is positioned for parallel alignment of jambs. Overlapping design simplifies installation over drywall. All steel frame eliminates splitting and warping. No call backs.



8:05 a.m. Base anchors at bottom of jambs are nailed and the strike plate and rubber bumpers installed. No nail holes to fill . . . anchors covered by base molding.

WATCH HIM BEAT THE "COST CLOCK" WITH E-Z FRAME, NEW STEEL FRAME FOR WOOD DOORS AND DRYWALL. 6 E-Z MINUTES TO INSTALL. NO MITERING, DRILLING OR FITTING. SAVE \$2.00 OR MORE PER OPENING. ANOTHER PROFIT-BUILDER BY

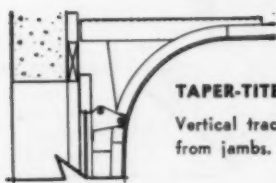
AMWELD®

BUILDING PRODUCTS division of The American Welding & Manufacturing Co., Niles, Ohio



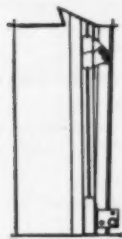
RōWAY Garage Doors

HELP CLOSE SALES BY SEALING OUT WEATHER



TAPER-TITE TRACK

Vertical tracks taper away from jambs.

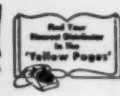


SEAL-A-MATIC HINGES

Seal-A-Matic hinges of graduated height guide the closing door firmly against jambs and — for opening — free the door from jambs for easy, frictionless operation.

When you're selling prospects up the quality ladder, the weathertight features of RoWay Doors help you make it to the top. Exclusive Taper-Tite Track and Seal-A-Matic Hinges effectively seal out snow, rain and dust. All units are fitted with galvanized, rust-resisting hardware for complete weather protection. Buyers also respond instantly to the quick, effortless lifting action made possible by "Power-Metered" springs. Every door is counterbalanced with a custom-wound spring — an advantage gained through RoWay's single-plant fabrication of all components. All RoWay Doors can be fitted with motor operators. To help you beat deadlines, hardware and door sections are shipped from the factory at the same time. For your next sale, let RoWay features help you open the door to bigger sales in the quality home market.

there's a RōWay for every Doorway!



COMMERCIAL • INDUSTRIAL • RESIDENTIAL



ROWE MANUFACTURING COMPANY

1025 Holton Street • Galesburg, Illinois

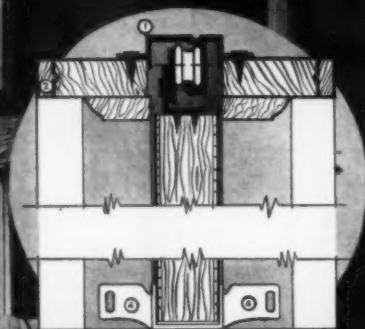
ANOTHER QUALITY PRECISION PRODUCT

ADJUSTA-JAMB

POCKET DOOR FRAME

LEGEND

1. Track
2. Adjustable Jamb
4 $\frac{5}{8}$ " to 5 $\frac{1}{4}$ "
3. Angle Iron Stiffener
3 $\frac{1}{4}$ " x 1 $\frac{7}{8}$ "
16 Gauge Galv.
4. Nylon Guide



QUALITY FEATURES

for lifetime service

- A Track cannot drop: fits on top of split header.
- B Trims out same height as swinging door: you do not have to cut door off. (82 $\frac{1}{2}$ " ROUGH OPENING)
- C Uses concave wheel with oilless bearing. Rolls trouble free on raised track rather than in groove. Eliminates picking up dust and sawm.
- D Has adjustable split jamb which allows frame to be used with either dry wall or plaster, or a combination of both.
- E Has 16 gauge Galvanized Angle Iron Stiffeners on split jambs. Strongest on the market.

Elmore designed

AFC HARDWARE

MADE FOR ALL POPULAR DOOR SIZES.

all same price
also, double pocket units



PRECISION parts corporation

400-AB North First Street Nashville 7, Tennessee

NEW 30



LARGER CEILING OPENING

to enable home owners to take full advantage of attic space. Now storage of storm doors, windows, yard furniture and other large objects is possible when you install the quality Super 30" x 54" stairway.



YOUR HOMES WILL SELL

quicker with this new larger access stairway—buyers can see the advantage!

STAIRWAY FOR EVERY PRICED HOME

STAIRWAY	PRICED HOME
Push Button Electric.....	\$40,000 UP
Super Deluxe (30 x 54) . . .	\$25,000 to \$40,000
Super Simplex (30 x 54) . . .	\$12,500 to \$25,000
Simplex.....	Homes to \$12,500

ALSO AVAILABLE are 14 other sizes and models WRITE for complete details

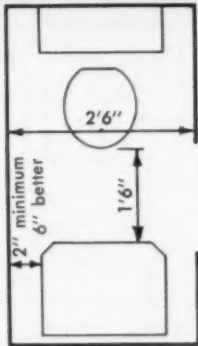


PRECISION parts corporation

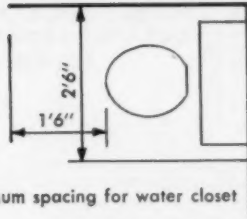
400-AB North First Street- Nashville 7, Tennessee

PLUMBING, WATER SUPPLY

Bathroom Standards

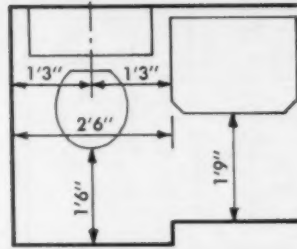


Water closet and lavatory

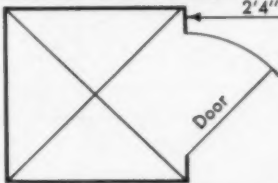


Minimum spacing for water closet

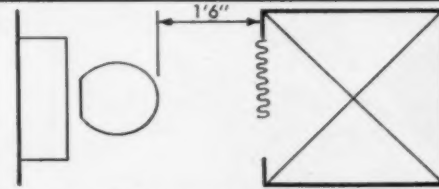
Water closet



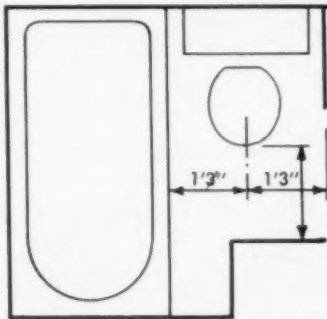
Water closet and lavatory side by side



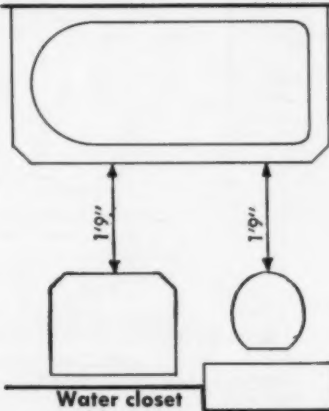
Shower and lavatory



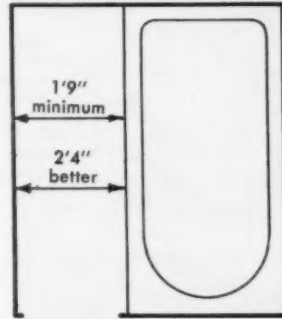
Shower and water closet



Water closet and bathtub side by side

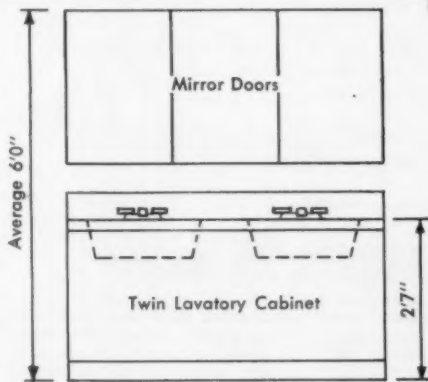


Water closet and lavatory facing bathtub

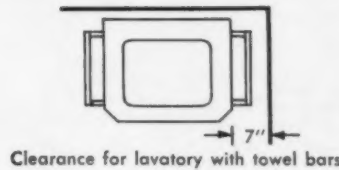


Wall and bathtub

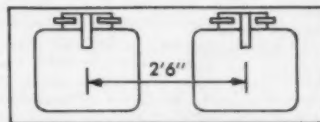
SCALE: 3/8" = 1'-0"



Average lavatory counter height 31"
For adult use in master bath 34-36"

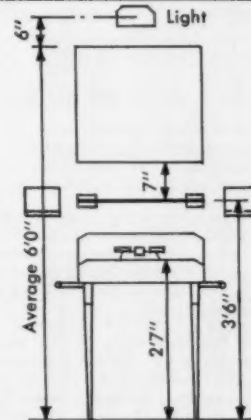


Clearance for lavatory with towel bars



Recommended spacing for Counter Twin Lavatory installations

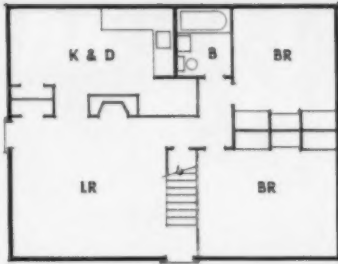
Lavatory



Shelf-Back Lavatory

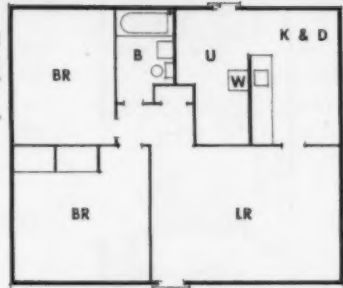
PLUMBING, WATER SUPPLY

Planning for Plumbing Fixtures

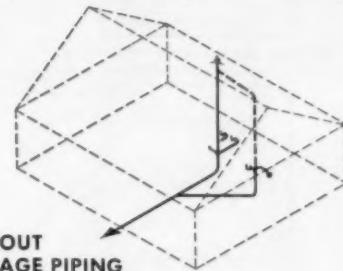
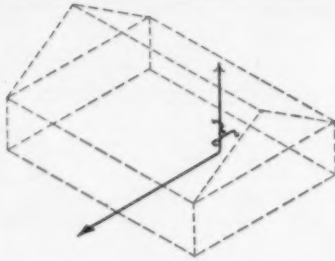


**KITCHEN AND BATH
BACK TO BACK**

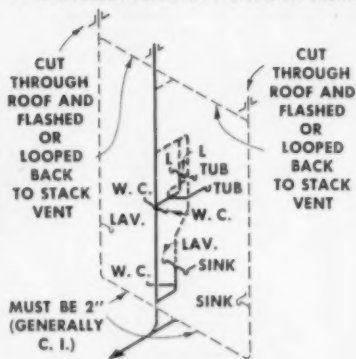
**KITCHEN, BATH
AND UTILITY ROOM
ADJACENT**



ONE-FLOOR PLANS: In the one-story basementless house, backing up kitchen and bathroom fixtures (plan, left), will produce the optimum in savings. When this is not practical, back up the rooms (plan, right.) When fixtures are badly separated in the plan, material and labor costs go up, not only for drainage and venting, but for water piping.

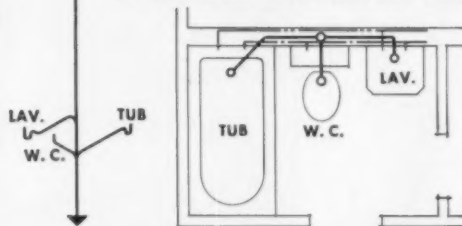


**TWO BATHROOMS ALIGNED OVER
A KITCHEN AND A POWDER ROOM**



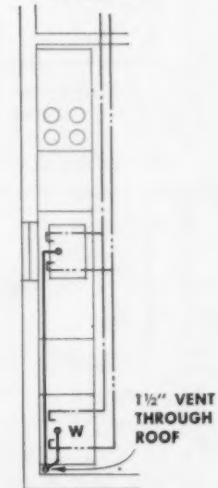
TWO-STORY HOUSE: A considerable saving is achieved when fixtures are aligned over one another, so that all may discharge to a single stack. Light dotted lines indicate extra piping that would be necessary if they were not aligned.

**COMPACT FIXTURE LAYOUT
WITH REQUIRED DRAINAGE PIPING**

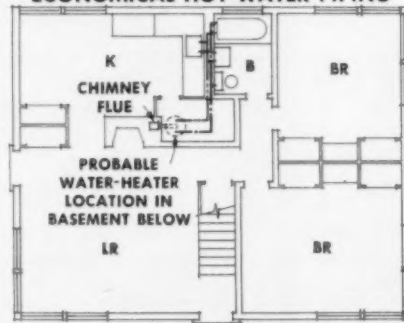


BATHROOM PLANNING: The fixtures in a single room, where practical, should be placed against and discharge toward, the same wall.

**WELL-LOCATED
WASHER**



**WATER-HEATER AND CHIMNEY
WELL LOCATED FOR
ECONOMICAL HOT-WATER PIPING**



EQUIPMENT LOCATION: When water-heater is located too far from fixtures using hot-water, there is not only extra cost for material and labor to install the piping, but heat loss through the extra run of pipe makes the heater less efficient. Note in the plan above that fireplace was located so that water-heater could be properly vented and still be close to those fixtures needing hot-water.

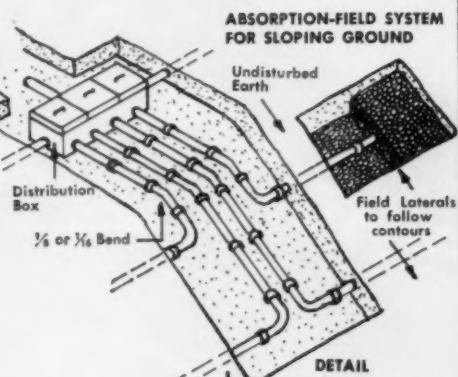
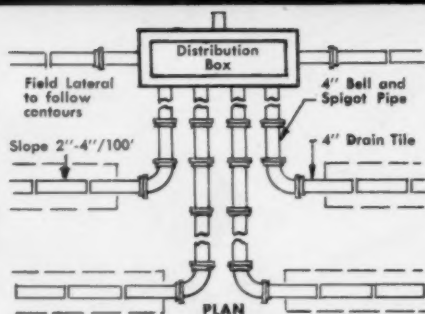
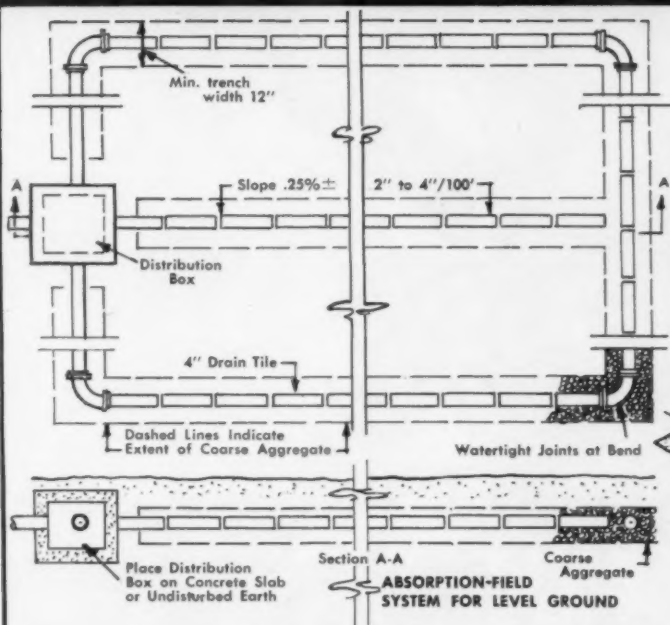
LOCATING CLOTHES WASHERS: Where possible, clothes washers should be placed to take advantage of an already existing vent, and should minimize the installation of extra water piping. The sketch above indicates one way this could be done.

SOME FURTHER NOTES

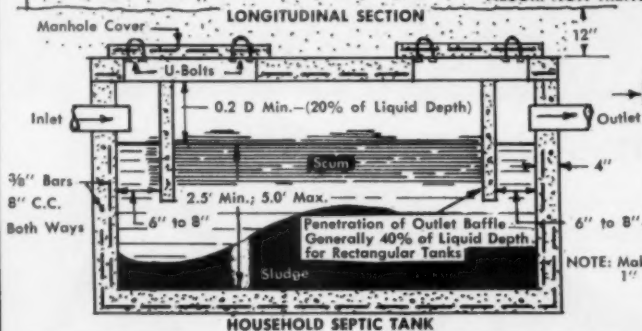
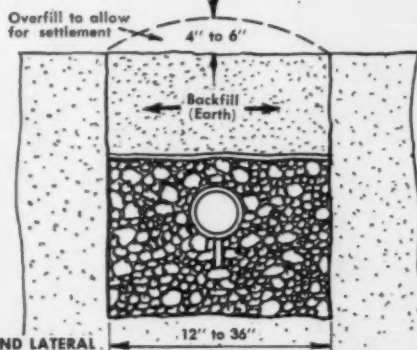
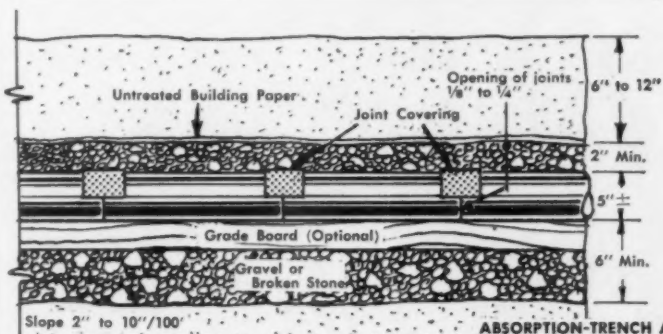
- Wherever possible, it is best to locate rooms containing fixtures near the point of entrance of the water and sewer services. This will cut the length of service lines.
- Many plans today include compartmented baths; toilet and sink separate from tub and shower, or toilet separate from sink and tub and shower. Piping should be planned so that fixtures drain and are vented with a single stack.
- The suggestions on this page are not meant to be absolute. Local conditions and codes sometimes prevent installations as shown here. However, when they can be used, savings mount — especially in multi-home projects.

PLUMBING, WATER SUPPLY

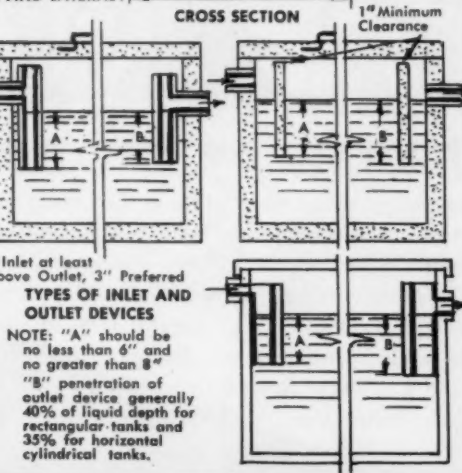
Septic Tank Systems



Trench width, inches	Minimum distance between centerline of trenches, feet	Trench width, inches	Minimum distance between centerline of trenches, feet
12 to 18	6	24 to 30	7.0
18 to 24	6.5	30 to 36	7.5



Number of bedrooms	Recommended minimum tank capacity	Equivalent capacity per bedroom
2 or less	750	375
3	900	300
4	1,000	250



NOTE: Make Inlet at least 1" Above Outlet, 3" Preferred

TYPES OF INLET AND OUTLET DEVICES

NOTE: "A" should be no less than 6" and no greater than 8"

"B" penetration of outlet device generally 40% of liquid depth for rectangular tanks and 35% for horizontal cylindrical tanks.



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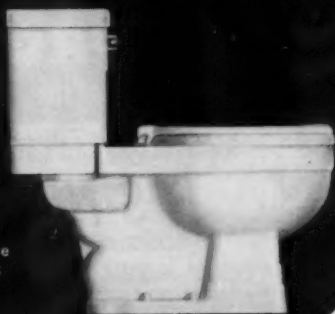
ORANGEBURG 
BRAND Fibre Conduit



Architect's drawing — Arvida home of Dr. and Mrs. John F. Pearl. Architect: Arthur H. Rude, of Ft. Lauderdale.

Orangeburg Fibre Conduit is distributed by Graybar Electric Co. and General Electric Supply Company with branches and stocks in principal cities. ORANGEBURG MANUFACTURING CO., Orangeburg, New York, Division of The Flintkote Company, Manufacturer of America's Broadest Line of Building Materials.

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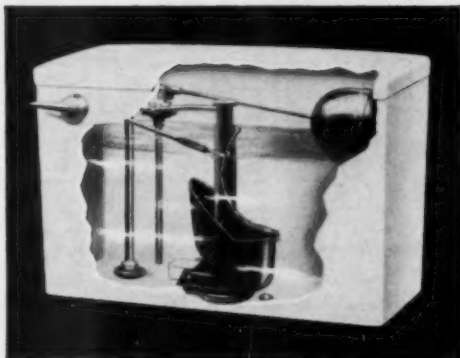


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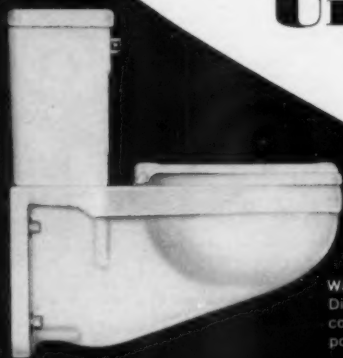
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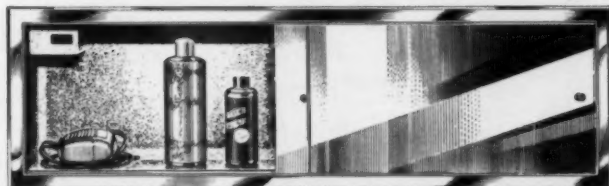
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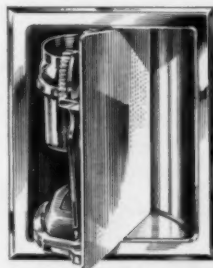
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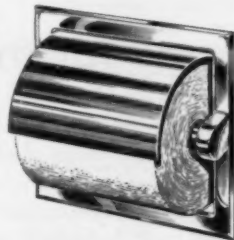


concealed vanity shelf with sliding mirrors



revolving door hides soap, tumbler, tooth brushes

semi-concealed paper holder... hinged hood keeps tissue clean, acts as brake on roll



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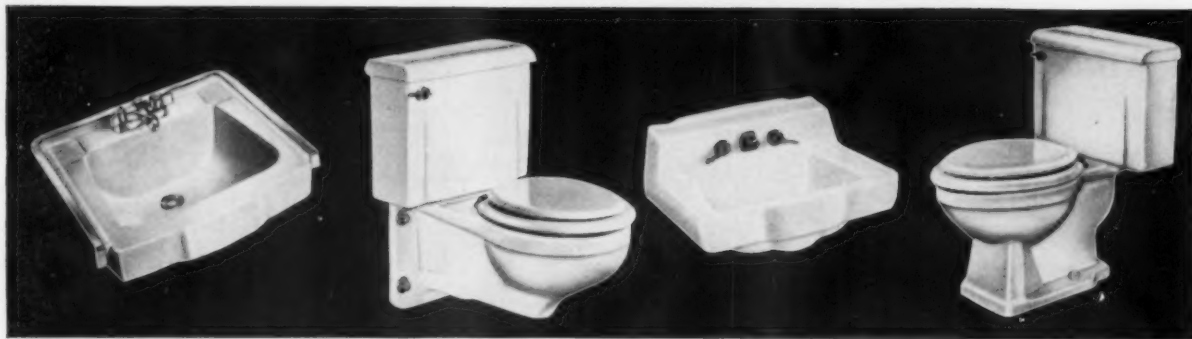
Name _____ PLEASE PRINT

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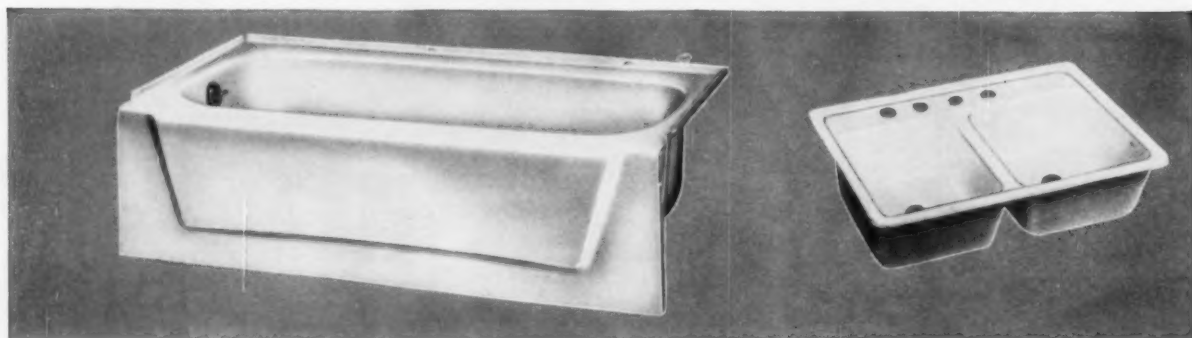
City _____ Zone _____ State _____

AB-461

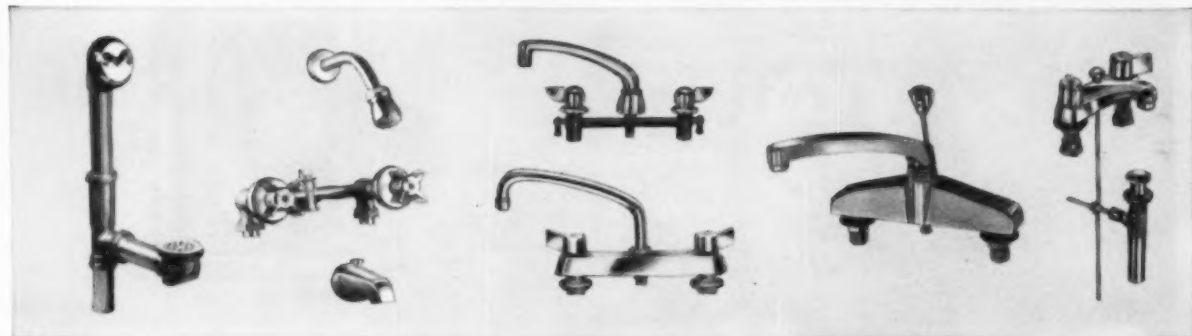
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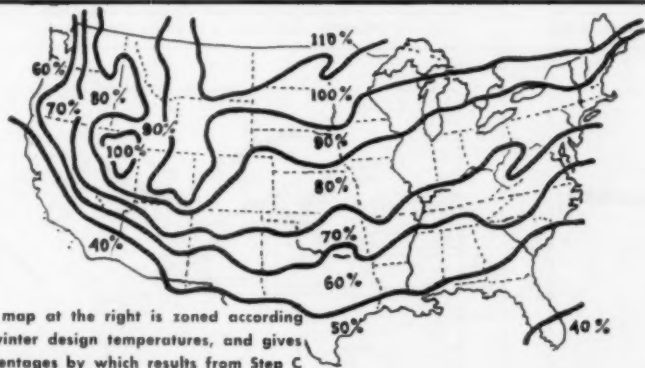
HEATING, COOLING, VENTILATION

Condensed Method of Estimating Heating Requirements

"CONDENSED METHOD" HEAT LOSS FACTORS*

1.	WINDOWS & DOORS	Multiply sq. ft. by:
a.	Without storm sash	113
b.	With storm sash	75
c.	Double 1/4" glass with 1/2" sealed air space between	55
2.	OUTSIDE WALLS (NET)	Multiply sq. ft. by:
a.	SOLID MASONRY—(Brick, stone, etc.) with plaster applied direct to inside surface of masonry wall.	45
b.	AVG. FRAME—Brick Veneer—Wood Siding—Shingles or Stucco—with sheathing, bldg. paper, studs, lath and plaster	30
c.	FURRED MASONRY—(Same as 2a with air space between plaster and masonry wall)	30
d.	INSULATED FRAME—Same as 2b—with 1" or less insulation board or blanket	20
e.	HEAVILY INSULATED—Same as 2b with 2" or more insulation	10
3.	CEILINGS & INSIDE WALLS	Multiply sq. ft. by:
a.	CEILING—Plaster on lath or wall-board. No floor above—Attic not vented	34
b.	Same as 3a—with 2" or more insulation and ventilated attic	12
c.	CEILING of first floor room below unheated room on second floor	17
d.	INSIDE WALL adjacent unheated room	17
4.	FLOORS	Multiply sq. ft. by:
a.	Double wood floor—over cool basement or other enclosed space	15
b.	Same as 4a—but open space below floor exposed to outside	32
c.	Concrete floor—Directly on ground. No edge insulation	10
5.	INFILTRATION (AIR LEAKAGE)	Multiply each sq. ft. of window and door area by:
a.	WINDOWS AND DOORS. Average fit—Not weatherstripped	50
b.	Average fit—weatherstripped (or equipped with storm sash)	30
c.	Poor fit—not weatherstripped	140
d.	Poor fit—Weatherstripped (or equipped with storm sash)	43
e.	EXTRA FOR EACH OUTSIDE DOOR	1000
f.	EXTRA for air lost up fireplace flue	3000

*Above factors are approximate heat loss through each sq. ft. of surface with 70° inside and -30° outside.



The map at the right is zoned according to winter design temperatures, and gives percentages by which results from Step C should be multiplied to find actual heating requirements for the locality.

Courtesy: The Coleman Company

HOW TO USE THE CONDENSED METHOD HEAT LOSS FACTORS

Quantities of heat are measured in units called British Thermal Units (abbreviated BTU).

Heat is lost from a warm building through all of its surfaces exposed to lower temperature. This is called "transmission losses." Heat is also lost due to wind blowing through cracks around windows and doors. This is called "infiltration losses." Total heat loss of a building is the sum of transmission losses plus infiltration losses.

A The first step is to find how much heat is lost by transmission. Calculate the areas in square feet of all exposed surfaces of the room or building including:

1. Window and outside door area (combined).
2. Net outside wall (gross wall area minus item 1).
3. Ceiling area (below unheated room or attic space). Inside walls adjacent unheated rooms.
4. Floor area (if space below floor is not heated).

Each of the above areas should then be multiplied by the proper factor from one of the Condensed Method tables.

B Next, estimate infiltration losses. This depends on the amount of cold air blown into the house, which is in turn dependent on the size of the window or door and the width of the crack around it. Simply multiply the area of windows and doors already calculated in Step A by the infiltration factor selected from Table 5. Also, since there is more air leakage through door cracks than through window cracks, allow an additional 1000 BTU for each outside door. Add 3000 BTU for each fireplace.

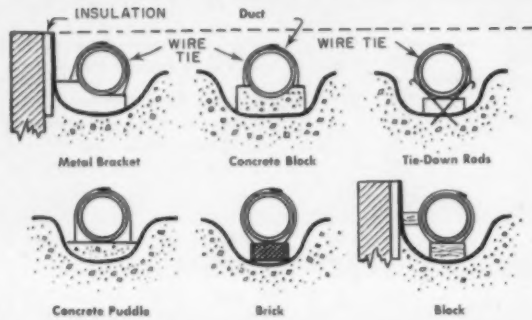
C Add the infiltration losses (Step B) and the transmission losses through the windows, walls, etc. (Step A) all together. The sum is the heat that would be lost from the room or building — if the temperature difference between inside and outside were 100°. In other words, this is the amount of heat it takes to maintain 70° inside when the outside temperature is 30° below zero, which would occur only in the very coldest sections of the United States.

D Heating requirements are naturally less where the weather does not get so cold. The average minimum temperature in Dallas, Texas, for example, is only 10° above zero. The "design temperature difference" between inside and outside would be 70° minus 10° equals 60°. Therefore, the heating requirement is only 60/100 or 60% of the amount based on 100° TD.

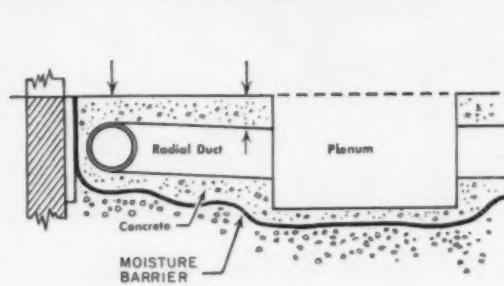
HEATING, COOLING, VENTILATION

Design Data for Perimeter Heating

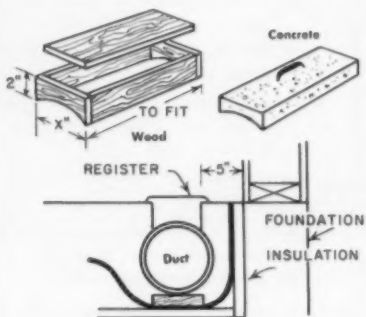
METHODS OF ANCHORING DUCTS



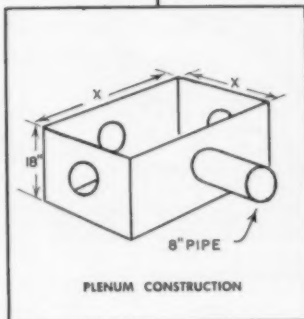
PLENUM AND DUCT INSTALLATION



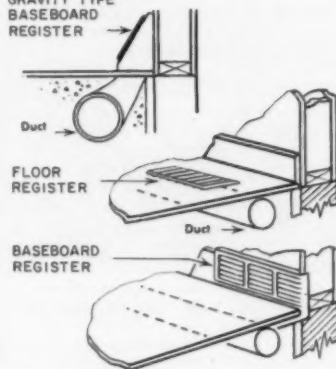
REGISTER OUTLET FORMS



REGISTER LOCATION

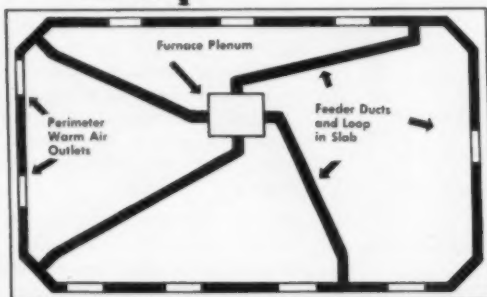


GRAVITY TYPE BASEBOARD REGISTER

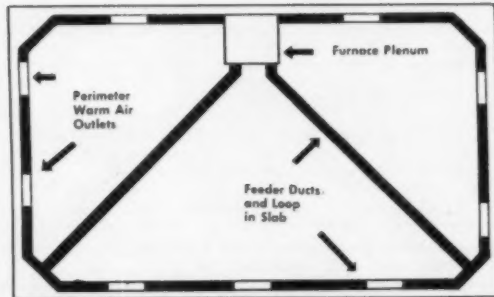


REGISTER TYPES AND LOCATIONS

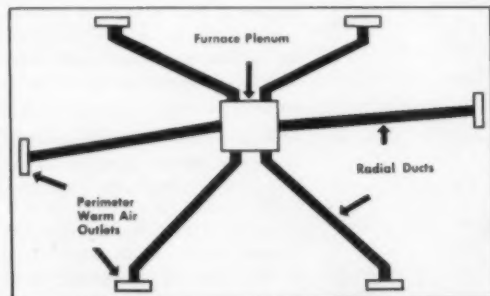
Concrete Slab



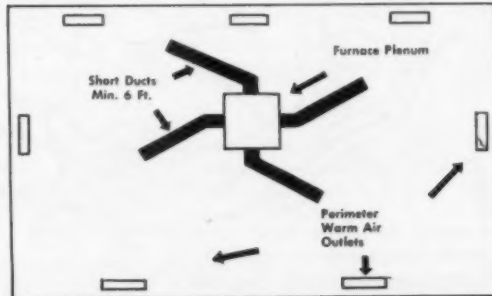
PERIMETER LOOP SYSTEM WITH FEEDER AND LOOP DUCTS IN CONCRETE SLAB



PERIMETER LOOP SYSTEM WITH FURNACE OVER LOOP



PERIMETER RADIAL SYSTEM WITH FEEDER DUCTS IN CONCRETE SLAB OR CRAWL SPACE



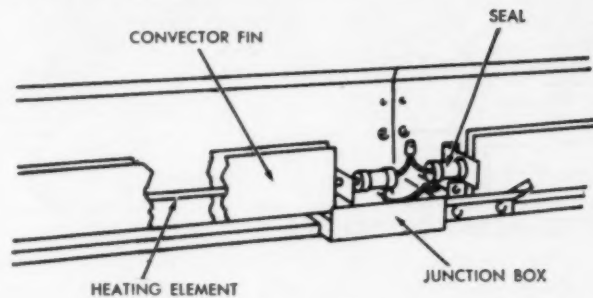
CRAWL SPACE PLENUM SYSTEM

12

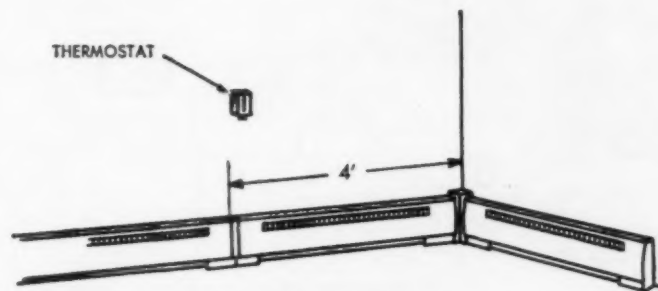
HEATING, COOLING, VENTILATION

Electric Resistance Heating

BASEBOARD ELECTRIC HEATING



CONNECTION BETWEEN PANELS



TYPICAL INSTALLATION

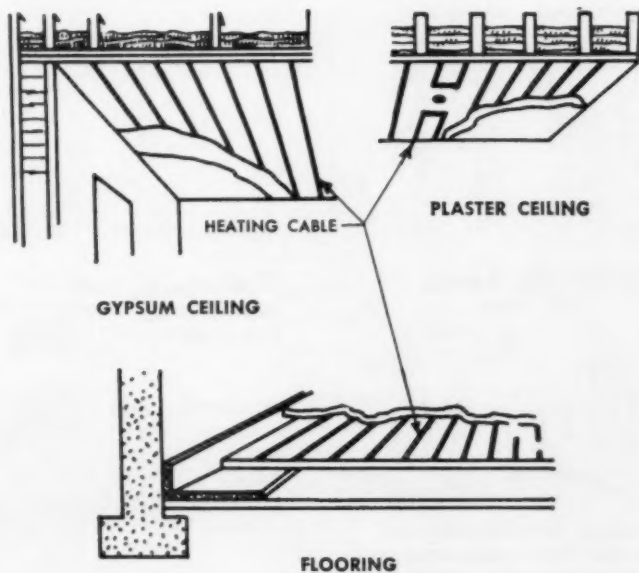
Baseboard-electric heating is basically the same as hot-water baseboard heating. The difference lies in the use of a resistance heating element in place of a hot-water convector.

A heating rod of the same type as used in a cooking range runs the length of the baseboard panel. Convectors fins are added to increase the heat transfer area. The heating element operates at "black heat" (it cannot climb above 150 degrees fahrenheit), so it cannot cause injury.

Baseboard panels heat approximately 50 per cent by convection and 50 per cent by radiation. They are controlled by individual room thermostats. Heat is almost instantaneous upon demand.

Courtesy: Hotpoint, Inc.

RADIANT ELECTRIC HEATING BY CABLE



Electric-resistance heating of a home can also be accomplished by means of radiant cables. These are flexible resistance cables buried in the ceiling, floor or walls.

They differ from baseboard-electric heat in that virtually all of their heating is by radiation.

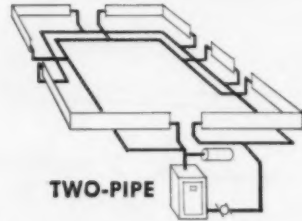
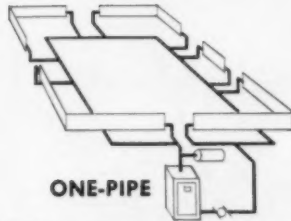
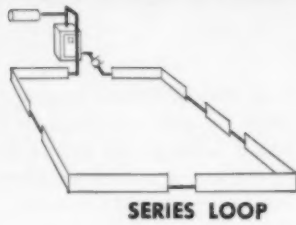
Most common area for radiant-heat cables is in the ceiling. Cables are stapled to either lath (if ceiling is plaster), or gypsum board. Then either the plaster or an additional layer of gypsum board is put over the cable, as shown in the drawings.

The amount of cable required will depend upon the design of the house and its geographical location. Control is by individual room thermostats.

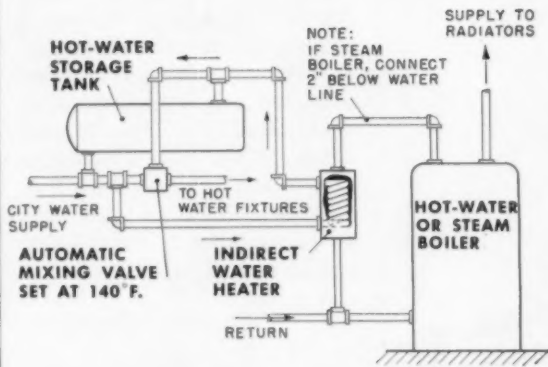
Courtesy: Ceilheat, Inc.

HEATING, COOLING, VENTILATION

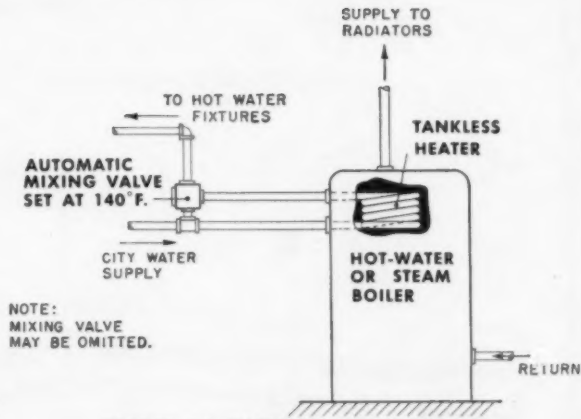
Design Data for Circulating Hot Water Heating



PERIMETER HEATING SYSTEMS



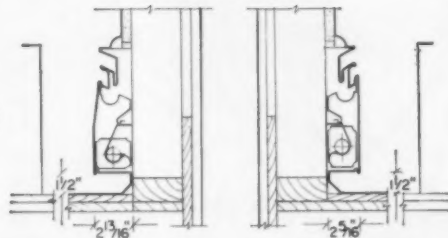
INDIRECT WATER HEATER AND STORAGE TANK



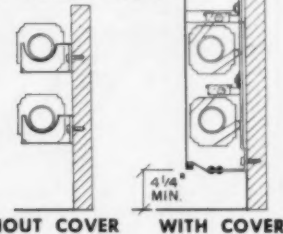
DIRECT OR INSTANTANEOUS WATER HEATER PLACED IN BOILER

12

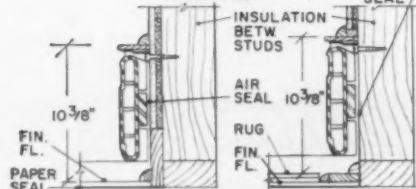
BASEBOARD PANELS FINNED TUBE



COMMERCIAL HEATING TIRED FINNED TUBES



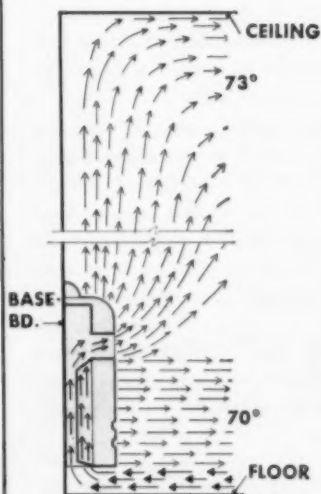
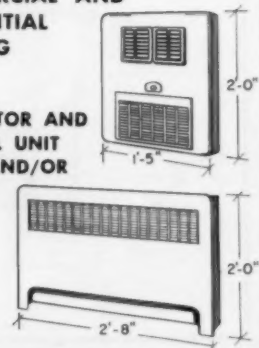
BASEBOARD PANELS CAST IRON



**RECESSED OR NON-RECESSED
FOR USE WITH WALL-TO-WALL
CARPETING (BOTH ABOVE TYPES)**

COMMERCIAL AND RESIDENTIAL HEATING

**CONVECTOR AND
FAN-COIL UNIT
HEATS AND/OR
COOLS**

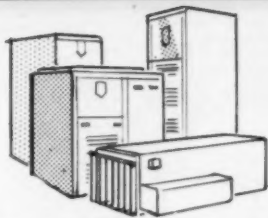


**RADIANT + CONVECTED
HEAT = 3° DIFFERENCE
BETWEEN FLOOR AND CEILING**

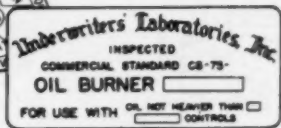
Courtesy: Better Heating-Cooling Council

HEATING, COOLING, VENTILATION

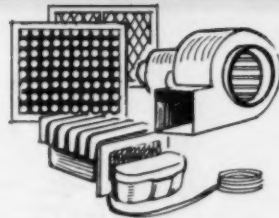
Forced Warm Air Heating



Type of furnace—high boy, low boy, counterflow, or horizontal—depends upon location, space available, and type of system.



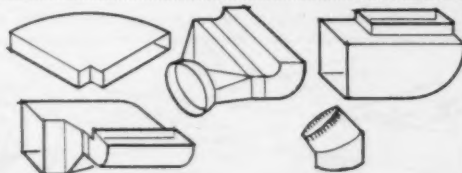
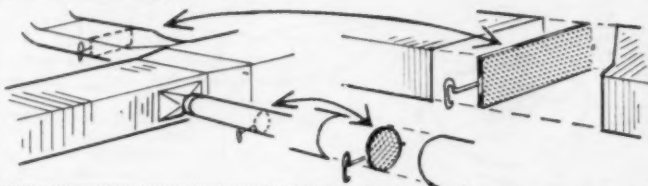
Choose labeled furnace for safety and good performance.



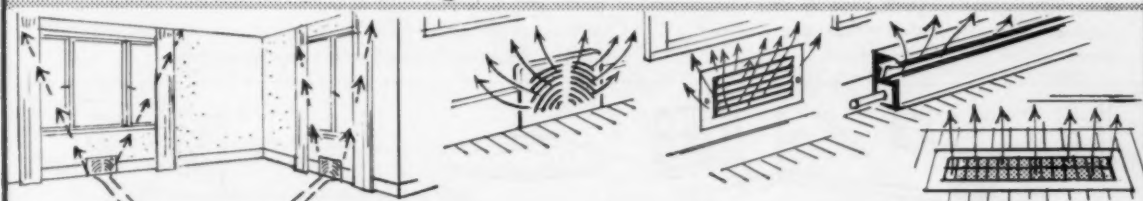
True comfort requires filtered, humidified air circulated gently and evenly.

Duct system of engineered design required. Must be installed in accordance with design and proper clearances in accordance with applicable codes.

Install balancing damper in each branch duct. Final adjustment and owner comfort depends on it.

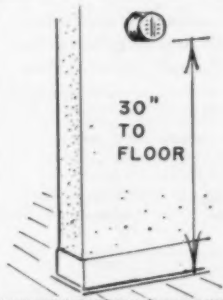


Streamlined fittings needed for free-flowing system. Flexible connectors between furnace and duct system prevent vibration transmission.

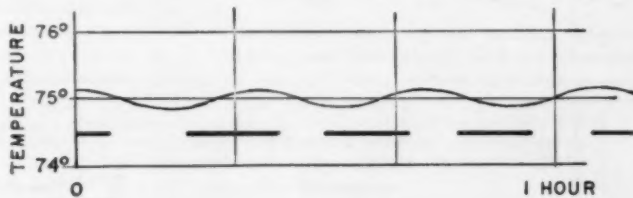


Perimeter diffusers located under windows give most uniform comfort and assure best air distribution.

Air from perimeter diffusers should fan upward in front of windows. Diffusers may be in floor, baseboard, or low sidewall location.

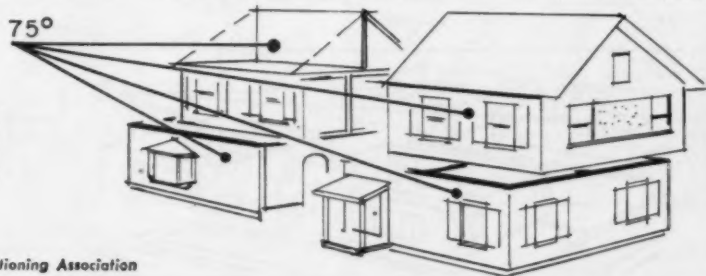


Locate thermostat approximately 30-in. from floor. This is "sitting level" at which occupants are most sensitive to air temperature.



Choose sensitive thermostat which will give frequent, short burner cycle for even room temperature.

System must be balanced and adjusted to obtain uniform temperatures throughout every room of the house. Comfort Air Circulation adjustment also provides almost constant blower operation necessary for best balance and continuous, gentle air motion.



Courtesy: National Warm Air Heating and Air Conditioning Association

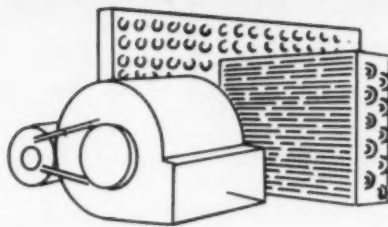
12

HEATING, COOLING, VENTILATION

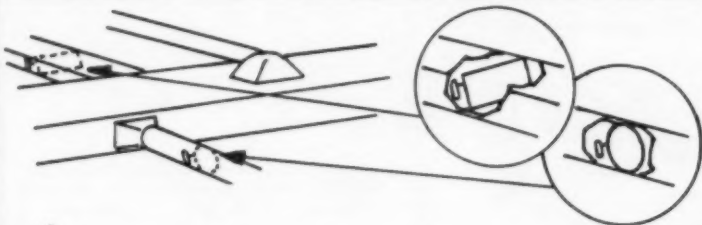
Air Conditioning Systems: Types and Requirements



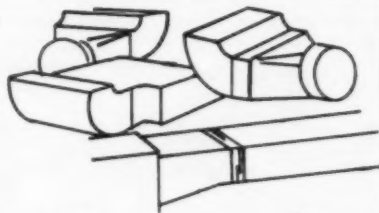
Types of cooling units—unitary, self-contained companion unit, evaporator with remote condenser unit, or heat pump (both heating and cooling)—any of these can be air cooled or water cooled. Select type to fit space and availability of water.



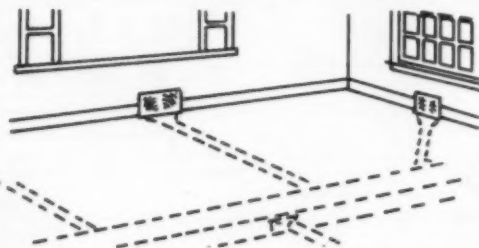
Comfort cooling requires gentle, even circulation of filtered, cooled, and dehumidified air. Fan and filter may be common to both heating and cooling systems.



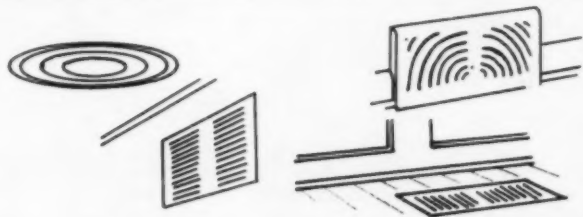
Same features designed into quality duct system for cooling as for heating. Properly engineered, same duct can be used year-round.



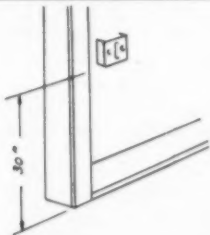
Cover all supply ducts and fittings in unconditioned spaces and return lines through attic spaces with good insulation and vapor barrier. All joints of vapor barriers must be sealed.



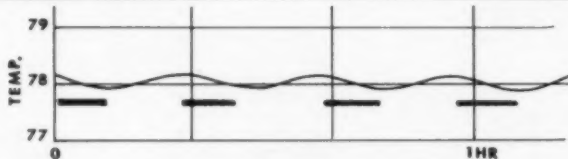
Perimeter diffusers located under windows give most uniform comfort. Locate under every window to assure best air distribution.



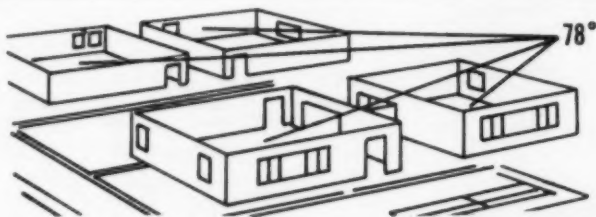
Perimeter diffusers are excellent for year-round use. Ceiling diffusers and high side-wall outlets distributing air horizontally are especially good for cooling. Where cooling is involved, highside-wall returns are particularly desirable.



Reverse acting thermostat is required to control the operation of cooling unit. A second thermostat located adjacent to heating thermostat or a combination thermostat may be used for year-round control.



Sensitive thermostat with close differential is desirable for shorter "off-periods." Setting is usually made somewhat higher than heating (77° to 80°).



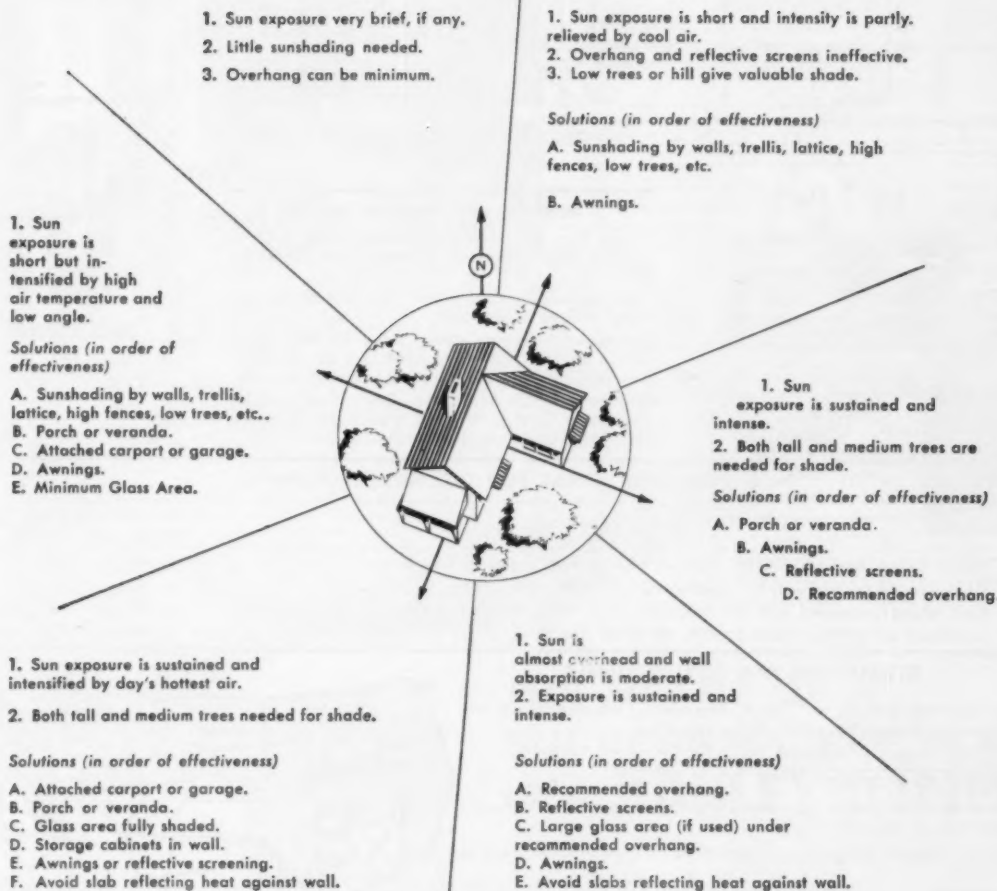
System must be balanced and adjusted in order to obtain uniform temperatures throughout every room of the house. Comfort Air Circulation adjustment also provides almost constant blower operation necessary for best balance and continuous, gentle air motion.

Courtesy: National Warm Air Heating and Air Conditioning Assoc.

HEATING, COOLING, VENTILATION

Planning for Air Conditioning

Orientation*



*Since "ideal orientation" can seldom be attained in project planning, it is necessary to minimize the heat gain through the use of sun-shading devices. Orient your house plan in circle. Locate center of house in center of circle. Draw line from center perpendicular to each wall of house and extend line beyond circumference of circle (see example). Read recommended wall treatment and sunshading in the quadrant that each wall faces. Naturally, these suggested sunshading devices apply whether or not you plan to install air conditioning (cooling) equipment.

Recommended Roof Overhang*

Latitude	Height of Eaves Above Window Sill													
	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"
25°	9	12	14	16	18	21	23	25	27	30	32	34	37	39
30°	12	15	18	21	24	27	30	33	36	39	42	45	48	51
35°	14	18	22	25	29	32	36	40	43	47	50	54	58	61
40°	17	22	26	30	35	39	43	37	52	56	60	65	69	73
45°	20	25	31	36	41	46	51	56	61	66	71	76	82	87
50°	25	31	37	43	50	56	62	68	74	80	87	93	99	105

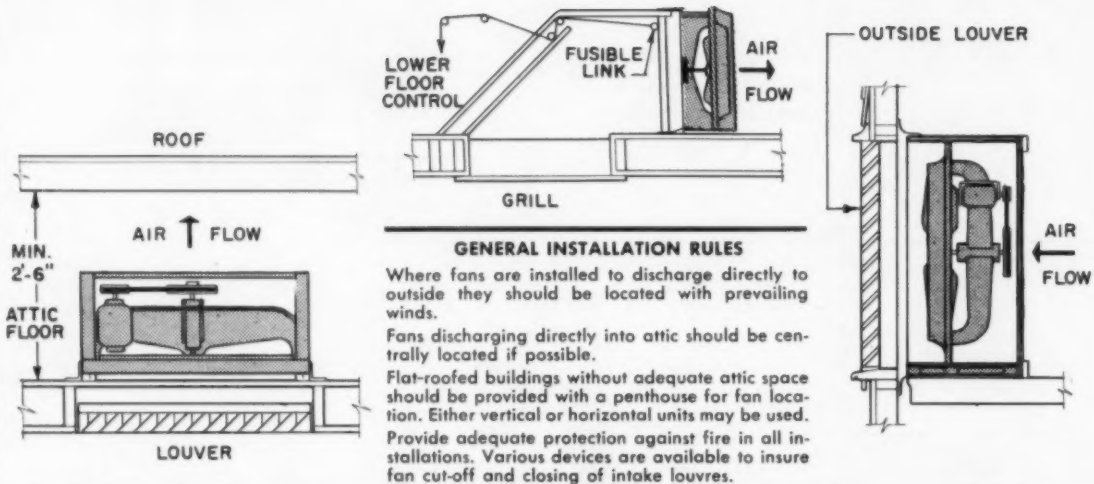
*Dimensions below staggered line generally not practical as an overhang unless used as porch due to added cost and structural problems. Figures apply to wall facing south.

Data from National Association of Home Builders

NOTE: Space prevents the publishing of cooling load calculator charts. However, several "short methods" of computing cooling loads are available. For one, write to Carrier Corp., Syracuse 1, N. Y.; ask for Residential Cooling and Heating Load Calculator (price: \$2.00). For another, write to Aluminum Co. of America, Alcoa Bldg., Pittsburgh 19, Pa.; ask for publication "Comfort Everybody Can Afford."

HEATING, COOLING, VENTILATION

Ventilating Fans



MINIMUM AREAS FOR DISCHARGE OPENING

TYPE OF OPENING	SQUARE FEET PER 1000 CFM FREE AIR FAN DELIVERY
Wood louvres backed with 1/2" hardware cloth. 40% minimum free area.....	2.27 Sq. Ft. per 1000 CFM
Metal louvres backed with 1/2" hardware cloth. 50% minimum free area	1.82 Sq. Ft. per 1000 CFM
Plain opening covered with 1/2" hardware cloth. 80% minimum free area.....	1.14 Sq. Ft. per 1000 CFM
Automatic or manual shutters, 90% minimum free area.....	1.01 Sq. Ft. per 1000 CFM

ESTIMATING FAN REQUIREMENTS

The following formula will aid in determining the size of the fan required to adequately ventilate a given area:

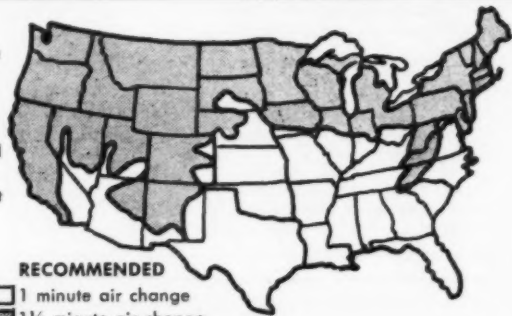
$$\frac{\text{Cu. Ft. Volume of Area} \times \text{Rate of Air Exchange}}{60} = \text{CFM (Fan Capacity)}$$

*When estimating cubic feet contents, closets and other unoccupied areas may be deducted.

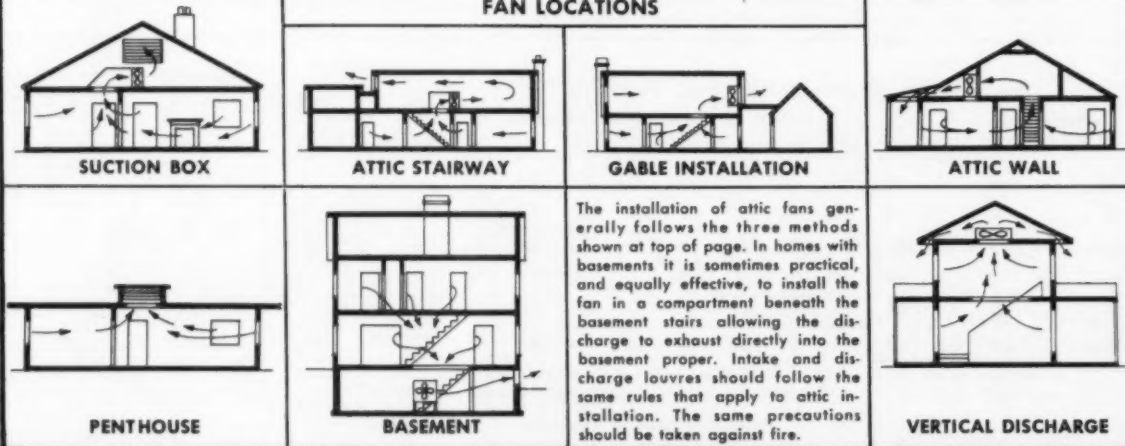
**Select rate of air exchange according to locality from map at the right.

Example:

$$\frac{15,000 \text{ Cu. Ft.} \times 1.5}{60} = 10,000 \text{ CFM (Fan Capacity)}$$



FAN LOCATIONS



12

Builders and Buyers agree...

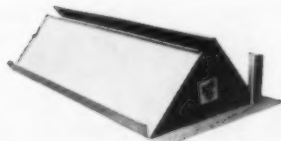


7973-DB

THE HEART OF A SUCCESSFUL FIREPLACE IS A DONLEY DAMPER

POKER CONTROL DAMPER

Available in cast iron and steel in sizes from 2 to 8 feet.



SQUARE END DAMPER

Has wide throat and squared ends to provide extra capacity for multiple-faced fireplaces.



ROTARY CONTROL DAMPER

Supplied with control at center or near right end. Cast iron only.



CHAIN CONTROL DAMPER

Valve plate pivots in center. Available in four sizes.

To help builders and home owners select correct fireplace equipment, Donley Brothers offers its 80-page **BOOK OF SUCCESSFUL FIREPLACES** containing over 300 illustrations, plans and basic construction ideas.

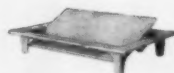
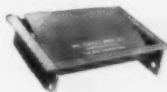
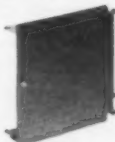
Thousands of copies of this book are sold every year — **PROOF** that builders and homeowners recognize Donley's leadership in designing success-

ful heat-producing and smoke-free fireplaces.

This buyer acceptance means nationally-advertised Donley Dampers produce easier sales and greater profits. Buying all their fireplace requirements from one source gives Donley Dealers the added advantages of quantity discounts and lower shipping costs. Send today for complete information.

CLEANOUT DOORS

Available in steel or cast iron.



ASH DUMPS Feature pivoted doors for poker-control operation. Available in cast iron or steel.



Donley

THE DONLEY BROTHERS CO.

THE DONLEY BROTHERS COMPANY
13910 Miles Ave., Cleveland 5, Ohio

Check one:

Please send complete information about Donley Fireplace Equipment.

Enclosed is 75¢ for Donley's **BOOK OF SUCCESSFUL FIREPLACES**.

Name _____

Company _____

Street _____

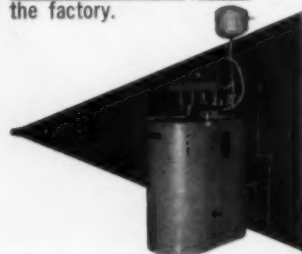
City _____ Zone _____ State _____

Engineered by Edwards

INSTALL LOW COST, PACKAGED, ZONE CONTROL BASEBOARD HEAT

...build your reputation for value!

EDWARDS . . . the one dependable manufacturing source for all hydronic and electric heating and cooling equipment . . . for new homes, older homes, motels, apartment houses, schools, churches, etc. Factory guaranteed . . . virtually eliminates costly call-backs. Edwards zoned systems are competitively priced with non-zone hot air systems and are completely assembled at the factory.



OIL AND GAS HEATING UNIT

Space-saving design (3' long x 2' wide x 3' high). Completely wired. 100% automatic air elimination. Oil-fired units are completely smokeless; feature rumble suppressant design. 100,000 to 3,000,000 BTU/Hr capacities.

HYDRONIC BASEBOARD RADIATION

Lengths from 2 to 20 feet. Installation is simple and fast; quiet wire slide for 1/2" and 3/4" sizes. I.B.R. approved ratings. Available in chrome, copper-tone, wood-grain, white primer coat.

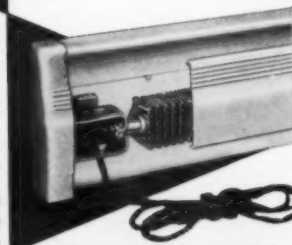


COMPACT MOTORIZED ZONE CONTROL VALVES

Sealed mercury switches. Completely silent, long life. Positive shut-off valve. Powerful electric motor gear drive. For hot water, steam or chilled water systems. 1/2", 3/4", 1", 1 1/4", 1 1/2", 2".

ELECTRIC BASEBOARD RADIATION

Ideal for new construction, remodeling or mobile homes. Low cost. Perfect for zoned heat — just plug it in. No need for pipes, ducts, furnaces or chimneys. Portable models also available. Lengths from 3' to 12' in chrome, copper-tone, wood-grain or white primer coat.



For complete data on any or all of the above EDWARDS products, write today to:



EDWARDS ENGINEERING CORP.

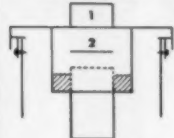
239-4 ALEXANDER AVENUE
POMPTON PLAINS, NEW JERSEY
Temple 5-2808

VITROLINER CHIMNEY DESIGN ENDS HOUSING ROOF STREAK



NO EXPOSED RAIN CAP FOR SOOT TO COLLECT HERE
Soooooo
THERE'S NOTHING TO CAUSE STREAKING HERE!

EXCLUSIVE CONCEALED RAIN CAP AND TOP TANK DESIGN



- 1 No exposed rain cap to collect soot.
- 2 Moisture drips off concealed rain cap into stainless steel tank and evaporates.

The secret is in the concealed rain cap and top tank design. Vitroliner chimneys have no exposed parts to catch dirty soot that can wash off in the rain and streak the chimney housing or roof. Stainless steel tank collects and evaporates moisture at top preventing it from running down the entire chimney length as in conventional chimneys with bottom "T." No other chimney offers this streak and rainproof protection.

Write Today! . . .

for color literature on Vitroliner Chimneys and details for new housing top and support for all Type "B" Gas Vents.

CONDENSATION ENGINEERING CORPORATION

3511 WEST POTOMAC AVE., CHICAGO 51, ILL.

POST OFFICE WILL NOT FORWARD MAGAZINES!

You must write us, prior to moving if possible, giving both old and new address, also postal zone. Allow three weeks for change.

AMERICAN BUILDER BOX 961 • BRISTOL, CONN.

FREE SAMPLE FIBRE DUCT

Moisture-Proofed • Extra Strong • Crush-Proof • Termite-Proof the most rigid fibre duct model

NOW SAVE 75% on MATERIAL
80% on LABOR COSTS

On Ducts for AIR CONDITIONING and PERIMETER HEATING

INTERNATIONAL FIBRE DUCT DIVISION
3800 Park Ave., St. Louis 10, Mo.

Do away with costly metal or concrete ducts. Set up for fast installation — no delays — at low cost — in heating and air conditioning. For free literature

NAME.....
ADDRESS.....



3078

A BUILDER DISCUSSES QUALITY HOUSES...



Mr. Sam Hoff (left), Kansas City, Missouri, says:

**"GAS AND ARKLA-SERVEL
SUN VALLEY ARE MY CHOICE
... because the quality market demands central air conditioning."**

The prediction by housing authorities that homes without central air conditioning will be hard to sell in the future, has almost come true *today*. "Arkla-Servel Sun Valley All-Year Gas air conditioning in my houses is assurance to my customers that I am offering not only a quality-built house but one that is planned for the future," Builder Hoff says.

Home-buyers look for Gas equipment because they know Gas is dependable, that service expenses will be low and that the local Gas company is solidly behind the quality of these units . . . a plus for builder and user alike.

Nothing cools more cleanly, more comfortably than Gas.

The "Buy Words" for '61...

Live modern...for less...with

 **GAS**

It costs less to cool an *entire house* with Gas than to cool just part of it with individual units. In summer, Gas cools with filtered, de-humidified air. In winter, constantly-circulating warm air keeps rooms healthfully fresh.

Make sure your houses are equipped with Gas appliances . . . the equipment home-buyers look for because they know and trust its performance. Call your Gas company, or write Arkla Air Conditioning Corp., 812 Main Street, Little Rock, Arkansas. There's an Arkla-Servel Sun Valley* All-Year® Gas air conditioner to fit every home.

AMERICAN GAS ASSOCIATION

*Trademark



...in these genuine wood-burning

Majestic[®] THULMAN FIREPLACES



"Harthside" CORNER MODEL

For corners, L-shaped rooms, room dividers—many other installation possibilities.



"Harthfront" FRONT-OPENING MODEL

For conventional installations — use modern or traditional mantel.

Both units are all metal factory-built

Perfectly safe, even butted against wood

Write for details!



Needs no special construction! One workman can erect several a day. Vented by Majestic all-metal chimney. All-metal, brick-like chimney top housings in red, tan or off-white. Class A and B chimneys for furnaces, water heaters, incinerators, other appliances.

The **Majestic**
COMPANY, INC.
433 Erie St., Huntington, Ind.

BRAND NAMES DIRECTORY

(Continued from page 168)

NAIRN Congoleum-Nairn Inc
NAIRON Congoleum-Nairn Inc
NAKORA US Plywood Corp
NALCO National Lead Co
NALTEX Nalle Plastics Inc
NAM-A-LAC Mobile Paint Mfg
NARRO WALL Holly-General
Co Div Siegler Corp
NATCHEZ FLAT ENAMEL
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NATIONAL INSTANT-HOT
National Rubber Machinery
NATIONAL LIFETIME TILE
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NEVER-STAIN Nichols Wire &
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NO DRIP Mortell J W Co
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Rubber Co
NO-TAR-IN Rutland Fire
Clay Co
NOMEK Lock-Joint Window Co
NON CON DUX Wilson, Grant
NORDAHL FEATHER-GLIDE
Nordahl Sliding Door Frames
NORDAHL FEATHER-TOUCH
Nordahl Sliding Door Frames
NORDAHL SPACEMAKER
Nordahl Sliding Door Frames
NORK General Hardware Mfg
NORMAN'S Paxton Brick Co
NORTH-LITE Great Northern
NORTH WIND Emerson
Electric Mfg Co
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Northern Mfg Corp
NORTON Behr-Manning Co
NORWESCO Northwest Metal
NORWOOD Lawrence W W
NOSTAIN Modern Swimming
Pool Co Inc
NOVO Novo Pump & Engine
NOVOPLY US Plywood Corp
NOVOPLY U S Plywood Corp
California Div
NOX-EM-ALL Allied Chemical
Corp Barrett Div

(Continued on page 202)

Give your homes the finest winter air conditioning at low cost!

IMPERIAL gas furnaces by Basmor-Little

- Finest controls and deluxe trim
- Variable speed belt drive blower
- Four sizes—upflow or counterflow



Clipper gas furnaces by Basmor-Little

- Performance-proved, budget-priced beauty
- Two speed direct drive blower
- Upflow or counterflow—three sizes

Clean, quiet, dependable winter air conditioning at its best. Efficient, low cost operation and long, trouble-free service. Extreme flexibility for modern gas heating requirements.

Decorator styling and compact size mean attractive, space-saving installation in basement, utility room, family room or playroom. AGA approved for reduced clearance, and installation on combustible floor. Write for details!



BASTIAN-MORLEY CO., INC.
(Incorporating H. C. Little Burner Co., Inc.)

LA PORTE, INDIANA

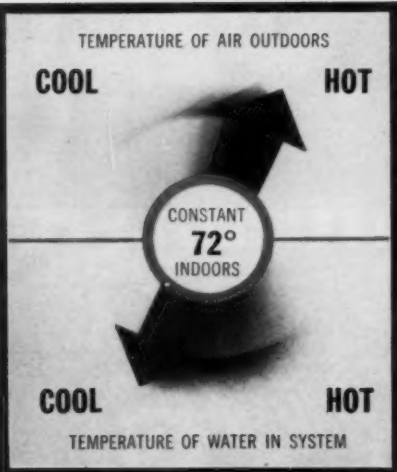
Basmor-Little Furnaces, Gas Heaters,
Boilers, Water Heaters, Incinerators



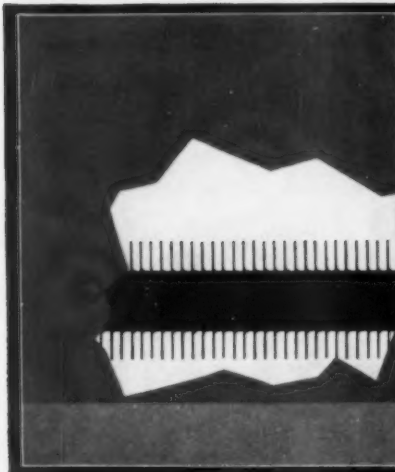
This pint-size package (only 2 ft. tall) easily heats a seven room house. It's



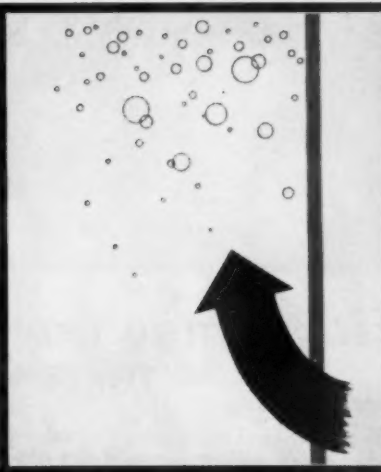
Crane's new budget-priced gas-fired boiler, the Sunnyday-3, that



automatically adjusts its heat output to outdoor weather conditions. Its



incredible efficiency comes from hundreds of fins cast integrally with the boiler



that lap up more heat and transfer it instantly to the water inside. Because



it's 100% factory assembled you can install it in a jiffy, even on wooden floors!

■ Now — you can install hydronic heat, with its distinct advantages, almost as economically as warm air. ■ This amazing Crane Sunnyday-3—compact, uncomplicated—saves time and labor on the job. It's completely assembled and wired at the factory ...in 3 sizes—from 60,000 to 100,000 BTU capacity. ■ A man and a boy can carry it ... install it quickly. Easily. Anywhere. Only 1-inch clearance necessary. The 60,000-BTU Sunnyday-3, for instance, is just 25 $\frac{1}{2}$ " high, 15 $\frac{1}{4}$ " wide. Yet does the big work of regular boilers that bulk

and cost far more. ■ Because it is specially designed, specially engineered for mass-market homes, it helps you bring luxurious, draft-free hydronic heat to home owners at just about the cost of an efficient warm-air system. It's silent, a real fuel-saver and responds instantly to thermostat demands. ■ For more details on the revolutionary new Sunnyday-3 Boiler see your regular contractor or your Crane representative. Or write Crane Co., Plumbing-Heating-Air Conditioning Group, Box 780, Johnstown, Pennsylvania.

AT THE
HEART
OF HOME AND
INDUSTRY

CRANE

VALVES AND PIPING
ELECTRONIC CONTROLS
PLUMBING
HEATING • AIR CONDITIONING



Typical homes in Campanelli Brothers' Weathersfield development in Schaumburg, Ill., a suburb of Chicago.



The amazingly compact house heating boiler is concealed behind the grille work of this countertop cabinet, providing added working space in the kitchen. View at left shows a section of development.

B & G Hydro-Flo® HEATING HELPS SELL THREE HOMES A DAY!



B&G BOOSTER

The key unit of a B&G Hydro-Flo System—a quiet, automatically controlled electric pump which circulates hot water through the heating system.

The outstanding sales power of *Hydro-Flo* hydronic heating helps account for the remarkable sales performance of Campanelli Brothers' Weathersfield homes in suburban Schaumburg, Ill.

The homes in this huge development, priced at \$15,590 to \$21,500, are selling at the rate of *three per day*.

The sound judgment of the builders in choosing radiant hydronic heating is obviously paying off. "Radiant heating with its sunlike warmth," said Mr. Al Campanelli, one of the builders, "can't be equalled for genuine comfort and cleaner, quieter operation."

The B&G *Hydro-Flo* system operates with unrivalled economy—and further offers the optional advantages of plentiful, low-cost year 'round hot faucet water and snow-melting. These are the reasons why progressive builders are finding *Hydro-Flo* Heating a clinching sales feature.



Hydro-Flo® SYSTEM BELL & GOSSETT

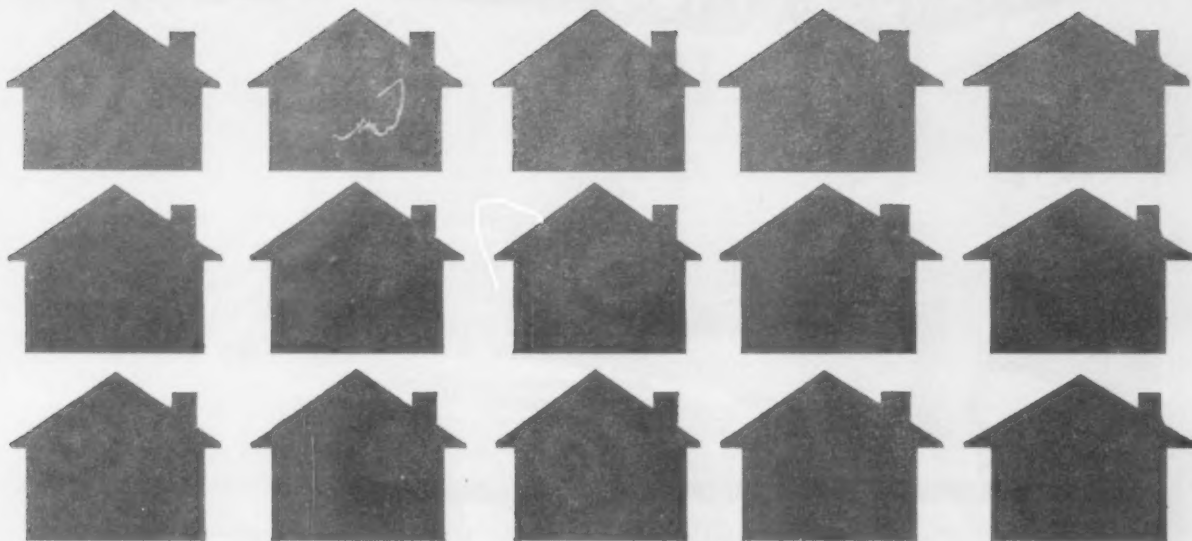
C O M P A N Y

Dept. GP-11, Morton Grove, Illinois

Canadian Licensee: S. A. Armstrong, Ltd., 1400 O'Connor Drive, Toronto 16, Ontario



SELL MORE HOMES THIS YEAR WITH



GM-DELCO'S TRIPLE SALES OFFENSIVE

1 A HOT, NEW GAS-FURNACE LINE

The new 1961 GM-Delco upflow models for perimeter, basement or closet applications come in units up to 190,000 BTU input capacity. For homes without basements, the GM-Delco Counterflow Model is ideal. And for compact situations, you can't top the GM-Delco Slim, Horizontal Gas Furnace. They all have the stamp of GM Reliability—your assurance of better performance and fewer "call-backs."

2 SOLID NATIONAL ADVERTISING THAT PRE-SELLS THE GM-DELCO NAME

Your prime home-buying prospects will be exposed to a broad schedule of national GM-Delco advertising, carefully designed to promote the GM-Delco brand name. This advertising makes the most of the inherent value in the General Motors name—and helps you sell homes. Buyers identify your GM-Delco installation in a model with quality.

3 A FLEXIBLE, LOCAL MERCHANDISING PACKAGE TO FIT YOUR MARKET

GM-Delco brings you a hot new merchandising package for maximum impact on your individual market. You can pick and choose from the best in billboard signs, local radio and TV scripts, 1000 and 500-line newspaper ads, brochures and tack-up signs for models. Pinpoint and apply features of this flexible GM-Delco program to your local sales objectives.

*The brand name
that identifies your
homes with Quality*

**GM Delco 365
CONDITIONAIR**

DELCO APPLIANCE DIVISION, GENERAL MOTORS CORPORATION, ROCHESTER 1, N.Y.

Flameless ELECTRIC HEAT

by

Electromode

CHOICE OF TODAY'S HOMEOWNERS



Electromode Heaters are the builders' choice, too! They give you complete freedom of design because you can choose Electromode in a model best suited to the specific need of each room—and each room has its own thermostat. Electromode Electric Heating in your plans is truly the modern way to build. No need for ducts, chimney, pipes, nor even a furnace, to waste space.

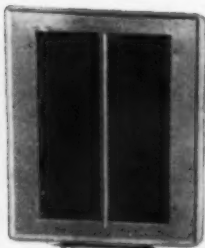
ELECTROMODE LOW-LEVEL BASEBOARD HEATERS

Radiant warmth surrounds the room, thermostatically controlled at the temperature desired. Slim, modern style units fit snugly to wall. Easy to install and completely flexible to room size and design.

ELECTROMODE WALL TYPE HEATERS

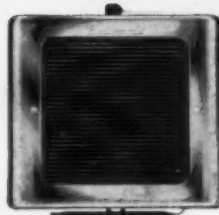
FAN-CIRCULATED HEAT

CLEAN • CAREFREE • SAFE



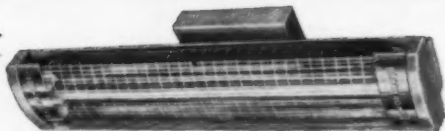
DOWN-FLO HEATER FOR BIG ROOMS

Has the Electromode exclusive Down-flo principle, assuring warmth at floor level. Just right for cold hallways, recreation rooms, and other hard-to-heat areas.



BATHROOM HEATER

Ideal for immediate, economical heat in bathroom or small room. Smart styling adds to bathroom beauty. Chrome or white enamel finish.



ELECTROMODE RESIDENTIAL QUARTZONE HEATER

Radiates gentle, sunlike warmth, making this model especially suited to the bathroom. No drafts, no overheating of the entire room. It warms people and objects, not the air. Also useful for porches and small spot heating in large unheated areas.

COMPLETE

Electromode

LINE

includes every type of electric heating available for home application. In addition to those illustrated, you have a big choice of many other models.



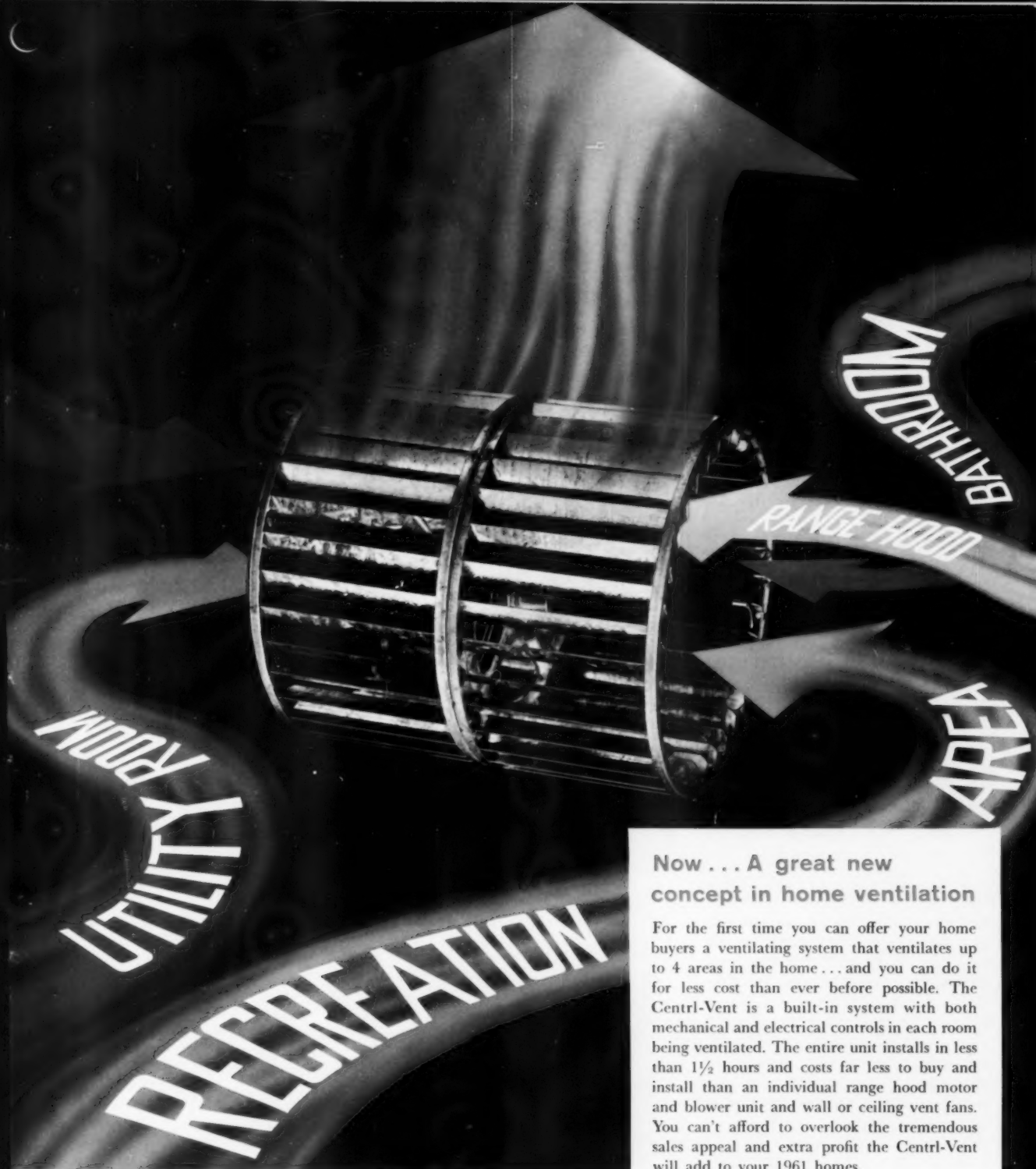
For full details on Complete
Electromode Line, write Dept. AB-61

Electromode

Division of Commercial Controls Corporation

ROCHESTER 3, NEW YORK

AMERICAN BUILDER



Now . . . A great new concept in home ventilation

For the first time you can offer your home buyers a ventilating system that ventilates up to 4 areas in the home . . . and you can do it for less cost than ever before possible. The Centr-Vent is a built-in system with both mechanical and electrical controls in each room being ventilated. The entire unit installs in less than 1½ hours and costs far less to buy and install than an individual range hood motor and blower unit and wall or ceiling vent fans. You can't afford to overlook the tremendous sales appeal and extra profit the Centr-Vent will add to your 1961 homes.

SAVE DOLLARS* ON EVERY HOME AND STILL OFFER MORE VALUE!

GET ALL THE FACTS*...


send for the **FREE Lau** product file today!



Home Comfort Products Division



THE LAU BLOWER COMPANY
2027 Home Ave. • Dayton 7, Ohio

 . . . manufacturers of residential attic fans / commercial-industrial ventilating fans / range hoods / central ventilating systems / humidifiers / bathroom cabinets / air conditioning blowers

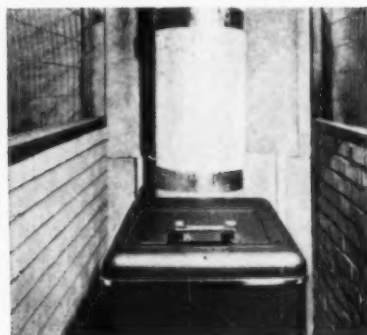
Van-Packer factory-built chimney meets needs of every home price range, is attractive, easy to install



New embossed metal housing now available

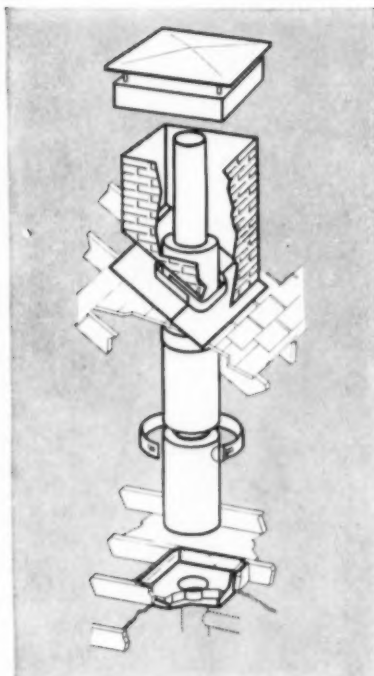
In addition to the asbestos-cement housing, Van-Packer now offers a rugged new metal housing with brick-embossed design, in red, buff, or white brick colors.

The new Van-Packer metal housing is ideal for homes in medium and lower price ranges. It is quickly, easily installed — paring your labor costs to the bone. Available in all standard sizes for Van-Packer tiled-lined chimneys or masonry gas vents.



Van-Packer Chimney is safe for incinerators

The Van-Packer all-fuel chimney is ideal for service with incinerators, and can be quickly and easily installed. It is UL-listed to withstand temperatures up to 2100°F — completely safe for incinerators. The high draft provided by a Van-Packer assures complete burning of refuse, and the fire-clay tile liner easily withstands the sudden heat shocks encountered in incinerator service.



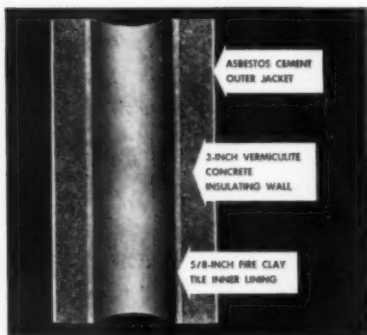
Cut-away view shows components and installation details that make the Van-Packer fire-clay tile-lined chimney the most rugged, durable factory-built chimney you can put in your homes. New installation standards now provide for low cost, lightweight fire-clay tile "R" section above the roof. This results in easier handling and lower-than-ever installation costs. The Van-Packer Chimney comes completely packaged in labeled cartons, with everything provided including flashing and joint cement. One man can put up a Van-Packer quickly and easily, without special tools or skills.

Van-Packer chimneys are UL-listed for all fuels and all home heating plants, are safe for incinerators.



Here's an attractive chimney suitable even for the higher priced homes you build. The Van-Packer chimney with deluxe asbestos-cement housing looks good on any home. Housing panels have an embossed "mortar lines" that look natural, in your choice of red, buff, gray, or white brick colors.

For durability, Van-Packer offers this rugged flue construction:



The fire clay tile liner won't corrode, is acidproof, and won't dent or flake off. Flue sections are joined with acidproof cement and are secured with snap-lock drawbands to form a rigid, rustproof unit that outlasts other factory-built chimney flues.

Van-Packer flues withstand temperatures up to 2100°F and are widely approved by building codes. Distributed nationally, they are available for immediate delivery anywhere. See "Chimneys — Prefabricated" in the Yellow Pages, or write for Bulletin RS-1.



VAN-PACKER®

The Flintkote Company

Manufacturers of Diversified Products for Home and Industry
30 Rockefeller Plaza, New York 20, N. Y. Phone: PLaza 7-5500

In the West: Pioneer Division, The Flintkote Company, P. O. Box 2218, Terminal Annex, Los Angeles, Calif.
In Toronto, Ontario: The Flintkote Company of Canada, Ltd.

NEW

FROM

bryant



for the builder who wants fresh, modern styling, Bryant quality, low in-place cost

TWO NEW LINES

STYLED BY RAYMOND LOEWY

New, clean-lined styling and smart, new color combinations to go with your modern interiors — they say "quality" at first glance.

393 SERIES — Top styling, eye appeal and quality in a furnace priced to give you a low in-place cost.

395 SERIES — The last word in a deluxe furnace for the buyer who expects the best — which you can now give him for only a few dollars more.



READY FOR DELIVERY

Both of Bryant's new gas-fired furnaces are in local stocks ready for delivery. Call your Bryant dealer, distributor or factory branch and arrange to see these beautiful furnaces, and compare them feature-for-feature, dollar-for-dollar with what you are now using.

EXTRA SALES FEATURE . . . These furnaces feature extra quiet blowers with the capacity to handle air conditioning.

"MORE FOR THE MONEY" in a Bryant furnace than ever before.

NEW FULL LINE . . . You'll never be stuck for the right size and model. Both series come in upflow, downflow and regular basement models. Capacities: Series 393, 80,000 Btu to 150,000 Btu; Series 395, 80,000 Btu to 400,000 Btu.

SERVICE GEARED TO YOUR NEEDS

Your Bryant dealer is ready to work with you all the way from system layout to owner follow-up. He is factory-trained and backed up by the distributor or factory branch. He's set up to save you money, time and trouble.

ASK YOUR DEALER ABOUT **BRYANT'S
NEW BUILDER PROPOSITION**
a new merchandising concept to help you sell homes.

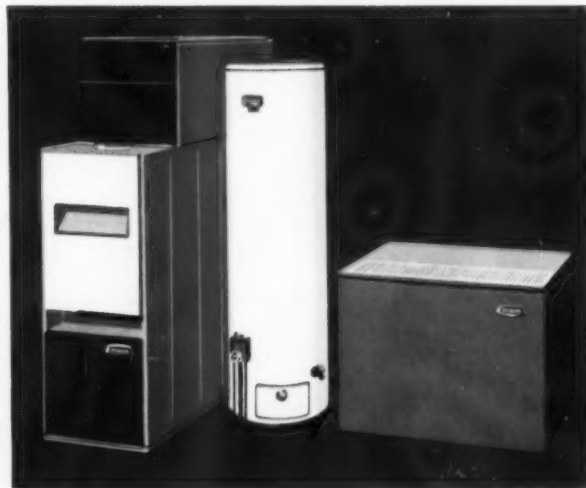
BRYANT MANUFACTURING COMPANY • Indianapolis, Indiana



*new
home selling
feature...*

bryant

HOME COMFORT CORE
HEATS • COOLS • FILTERS • DEHUMIDIFIES • CIRCULATES



Now Bryant's Home Merchandising Program turns an unexploited feature of your homes into a dramatic selling advantage for you.

The furnace, air conditioner and water heater no longer "just stand there". We make them "sell" for you. Promoted nationally and locally as the Bryant Home Comfort Core they give you a new competitive selling edge — *and it doesn't cost you a nickel more!*

Why not call your Bryant dealer, distributor or factory branch today. Get the story. You have nothing to lose . . . everything to gain.

"PREFAB" GLASS FIBER DUCT INSTALLS ALMOST TWICE AS FAST AS INSULATED METAL DUCTS

G-B Duct provides "built-in" insulating and noise absorbing benefits

As much as 50% of installation time can be saved by using G-B Duct. This unique air handling system is completely prefabricated at the factory. Six-foot sections arrive on the job site ready to be installed. One glance at the photographs on this page shows you just how simply and quickly G-B Duct can be assembled. There's no pre-assembly work, no scoring, no folding. Sections fit snugly and swiftly together with standard sheet metal fittings and vapor barrier tape. Elbows and T fittings are also easily fabricated with a knife and factory-supplied templates.

Because G-B Duct is made entirely of glass fiber insulation, maximum protection against heat loss or gain and sound absorption are "built-in" features. That means heating and

air conditioning units operate more efficiently, keeping the homeowner's utility bills to a minimum. And G-B Duct's uniformly-thick glass fiber walls soak up fan and equipment noises before they're ever heard.

G-B Duct carries an Underwriters' Laboratories label as an air conditioning and heating duct, and therefore meets FHA requirements. G-B Duct is encased in an air-tight, waterproof vapor barrier sleeve for positive protection against sweating and moisture condensation. As permanent as glass itself, it will not rust, corrode, rot, or deteriorate in any way.

For more information, write today.

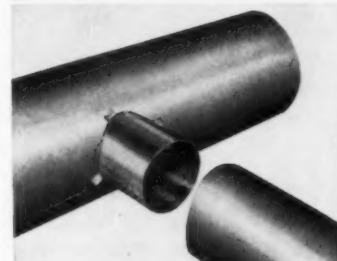
GUSTIN-BACON *my g b*

204 W. 10th St.
Kansas City, Mo.



INSTALLING STRAIGHT RUNS

Simply insert metal sleeve (above) at joint, butt two sections of duct together and seal with vapor barrier tape.

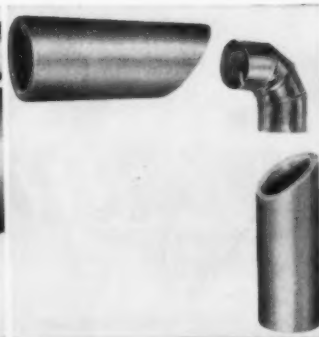


INSTALLING RUN-OUTS

1—Using factory-supplied template, cut one end of run-out to fit flush against side of main duct. 2—Cut the side of main duct, using sheet metal fitting as a template and insert metal sleeve. 3—Slip run-out onto locked metal sleeve until flush against main duct, then wrap tightly with vapor barrier tape.

INSTALLING 90° TURNS

1—G-B DUCT is easily cut at 45° angle with factory-supplied template or saw and miter. 2—Insert right angle metal elbow into mitered ends of duct. 3—Push tightly together and seal with vapor barrier tape.



1

2

3

Fans designed with the BUILDER in mind...



New Model EK Bar-Brook Attic Fan. Practical, economy model for fast, easy installation in homes with low pitched roofs and truss construction. Automatic aluminum shutter assembly fits almost any location—mounts smoothly in ceiling opening. Flanges cover raw edges. 3 blade sizes: 30", 36", 42".

Model AVP Package Unit — Bar-Brook® Breezebuilder® Attic Fan. Fan, motor, shutter, fuse link completely factory assembled. 3 sizes for 31", 36", 42" ceiling opening. Pre-cut ceiling trim. Takes only minutes to install!



Write for catalog showing full line of Bar-Brook Fans, Shutters, and Year 'Round Air Conditioning Systems.

BAR-BROOK MFG. CO., INC., Box 6638, Shreveport, La. • Fan makers for 29 years • *T.M. Reg. U.S. Pat. Off.

BAR-BROOK* BREEZEBUILDER* FANS ATTIC TYPE

when the heat's on



SPECIFY THE BOILER YOU CAN BUILD ON

When you need the best . . . at a price you can build on . . . specify Hydrotherm!

Gas fired Hydrotherms will assure years of heating comfort for your homes, regardless of size or type. And the industry's widest choice of sizes (eleven — from 50,000 to 300,000 BTU/Hr input) gives you "custom" size selection.

Hydrotherms pass through standard doors, take little floor space, are simple and easy to install. Uniquely engineered horizontal boiler sections mean maximum fuel savings. And Hydrotherms are guaranteed for 25 years.

WRITE FOR BULLETIN #HY-F100 TODAY!

Also available: Packaged Hydrotherms, factory assembled with all hydronic accessories for even greater installation saving . . . and for heavy duty industrial applications (capacities from 360,000 to 3,600,000 BTU/Hr) ask about Hydrotherm MULTI-TEMPS.

be sure

it's **HYDROTHERM**



HYDROTHERM, INC. • DEPT 13AB, NORTHVALE, N. J.

BRAND NAMES DIRECTORY

(Continued from page 192)

NU-ART Macklanburg-Duncan
 NU-BRICK Protective Products
 NU-CALK Macklanburg-Duncan
 NU-GARD Macklanburg-Duncan
 NU-GLAZE Macklanburg-Duncan Co
 NU-HUE Martin-Senour Co
 NU-LAP Protective Products Co
 NU-LUME Macklanburg-Duncan
 NU-PREST HARDBOARD Midwest Plywood Co
 NU-RAIL Hollaender Mfg Co
 NU-WALL Nu-Wall Mfg Co
 NU-WAY Macklanburg-Duncan
 NU-WOOD Wood Conversion
 NUCRETOR Air Placement Equipment Co
 NUCUT Heller Tool Co
 NUMBER SIX Zegers Inc
 NUMETAL Macklanburg-Duncan Co
 NUSAN Modern Swimming Pool
 NYLO Metzgar Conveyor Co
 NYRACORD TWEED TILE American Mat Corp
 O-E Arro Expansion Bolt Co.
 O-T OPEN TRUSS Republic Steel Corp Truscon Div
 OAKWELD Harris Mfg Co
 OBSERVER Blonder-Tongue Laboratories Inc
 OHIO AUTOCLAVED Ohio Lime Co
 OHIO EVER-READY Ohio Lime Co
 OHIO SANLIME Ohio Lime Co
 OHIO WHITE Ohio Lime Co
 OIL-O-MATIC Williams Oil-O-Matic Heating
 OIL SUPER Williamson Co
 OILMASTER Thatcher Furnace
 OILSAVER Williamson Co
 OILTONE Seidlitz Paint & Varnish Co
 OLD VIRGINIA WHITE Cabot Samuel Inc
 OLEAN Gladding McBean & Co
 OLSON LINE Olson Mfg Co
 OLYMPIA General Metalcraft Inc Olympia Div
 OMARK Omark Industries Inc
 OMARK-GRAHAM STUD DRIVER Omark Industries
 OMEGA Tilley John S Ladders
 ON-GARD Macklanburg-Duncan
 100 PLUS Stanley Tools
 OPEN SESAME Lancaster Pump & Mfg Co Inc
 ORANGE Virginia Metal Products Inc
 ORIENTAL United States Gypsum Co
 OSMOPLASTIC Osmose Wood Preserving Co of America
 OSMOSALTS Osmose Wood Preserving Co of America
 OTC Owatonna Tool Co
 OVERDOORS Barber Colman
 OXFORD Oxford Tile Co Div
 OZAN Ozan Lumber Co
 OZARK Ozark Oak Flooring Co
 P A R Protection Products
 P G 1013 Permagile Corp
 P & S Pass & Seymour Inc
 PACEMAKER Elkay Mfg Co
 PACEMAKER Harloc Products
 PACEMAKER Hubbell Harvey
 PACEMAKER McQuay Inc
 PACEMAKER Wakefield Co
 PACER Aluminum Industries
 PACER Sequoia Mfg Co
 PACESETTER Beautycraft Kitchens Div
 PACIFIC Pacific Brass
 PACKET Crane Co
 PAD Producers & Distributors
 PAGEANT Insulite Div
 PAINTGUN Root-Lowell Corp
 PAL-O-PAK Pal-O-Pak Insulation Co Inc
 PALCO Pacific Lumber Co
 PALCO Pratt & Lambert Inc
 PALKVD Pratt & Lambert Inc

(Continued on page 206)

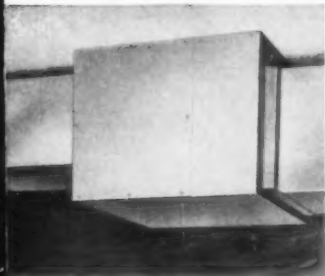


1—HEAT AND COOL any home with this TRANE Climate Changer! (Downflow unit for basementless homes shown.) Oil or gas-fired heating units in sizes and types for any home, in any climate. Matched compressor unit located outside.



2—OFFER OPTIONAL COOLING! Install just the heating unit now—point out to your customer he may easily add the cooling (lower section) later. Uses same ductwork; and units are *matched* for easy installation, peak performance.

Trane gives you 4 ways to heat, cool—or both—while holding building costs down!



3—SEPARATE COOLING SYSTEM—not connected with heating system. Fan-coil unit is ideal for use with TRANE Baseboard heating or other types of wet heat, or with electric resistance heating. Tucks away in attic, crawl space, basement, utility room.

4—NEW HEAT PUMP HEATS, COOLS! Air-to-air type heat pump uses no water; heats and cools entire home. Operates on *electricity*; no chimney, no flue needed! Same ductwork system delivers heating and cooling throughout entire home.

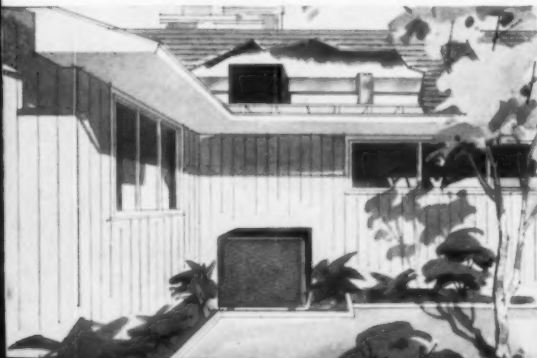
THESSE new TRANE Climate Changer units give you a wide choice of systems for heating, cooling—or both. And it's *quality* air conditioning, from TRANE, leaders in big building systems. It's *matched* equipment, built together to work together. Remember: the name TRANE on your heating-cooling system helps mark yours as a quality home because TRANE is nationally advertised, nationally recognized for its quality air conditioning equipment. And every TRANE system is carefully installed by a selected air conditioning contractor. For complete facts, just call your nearby TRANE Sales Office, listed in the Yellow Pages under "Air Conditioning." Or write TRANE, La Crosse, Wisconsin.

For any air condition, turn to

TRANE

MANUFACTURING ENGINEERS OF AIR CONDITIONING,
HEATING, VENTILATING AND HEAT TRANSFER EQUIPMENT.

THE TRANE COMPANY, LA CROSSE, WIS. • SCRANTON MFG. DIV. SCRANTON, PA. • CLARKSVILLE MFG. DIV., CLARKSVILLE, TENN. • TRANE COMPANY OF CANADA, LIMITED, TORONTO • 100 U. S. AND 19 CANADIAN OFFICES



9 reasons builders are choosing furnaces by

WILLIAMSON



Lo-Boy Model with Air Conditioning

Hi-Boy Model

Counter-Flow Model

- 1 Dependable . . . No "call-backs"
- 2 Factory assembled, wired, and fire tested
- 3 10 year guarantee to the home buyer
- 4 Low cost for high quality . . . Brand name
- 5 Minimum floor space requirements
- 6 AGA seal of approval on gas units
U.L. Approval available on oil units
- 7 Beautiful Seal-Tite[®] cabinet design
- 8 Designed for Williamson air conditioning
- 9 Full line of models and sizes to fit any plan

PLUS . . . a line of distinction . . .

THE GASAVER FURNACE

. . . an exclusive feature for your exclusive homes.

Indoor-outdoor thermostatic control . . . two-stage burner automatically modulates to counter-balance changes in outdoor temperature. 20 year guarantee.

For Oil areas . . . Give consideration to the finest—Williamson Oilsaver for your finest homes.

All Super Series Units are 22 1/4" wide

BTU	DEPTH (inches)		HEIGHT (inches)		
	HI-BOY OR COUNTER-FLOW	LO-BOY	HI-BOY	LO-BOY	COUNTER-FLOW
75,000*†	25	41	62	44 1/2	65
100,000 †	29	47	62	44 1/2	65
125,000	32	52	62	44 1/2	65
150,000	35	55	62	44 1/2	65
175,000	40 1/2	—	67	—	70
200,000	45 1/2	—	67	—	70

*Not available for oil fuel

†Available with direct drive blower

THE WILLIAMSON COMPANY

3330-W-16, Madison Rd., Cincinnati 9, Ohio

Please send me full details on your builder-designed furnaces.

Also send details on the new . . .

"Gasaver" furnaces "Oilsaver" furnaces

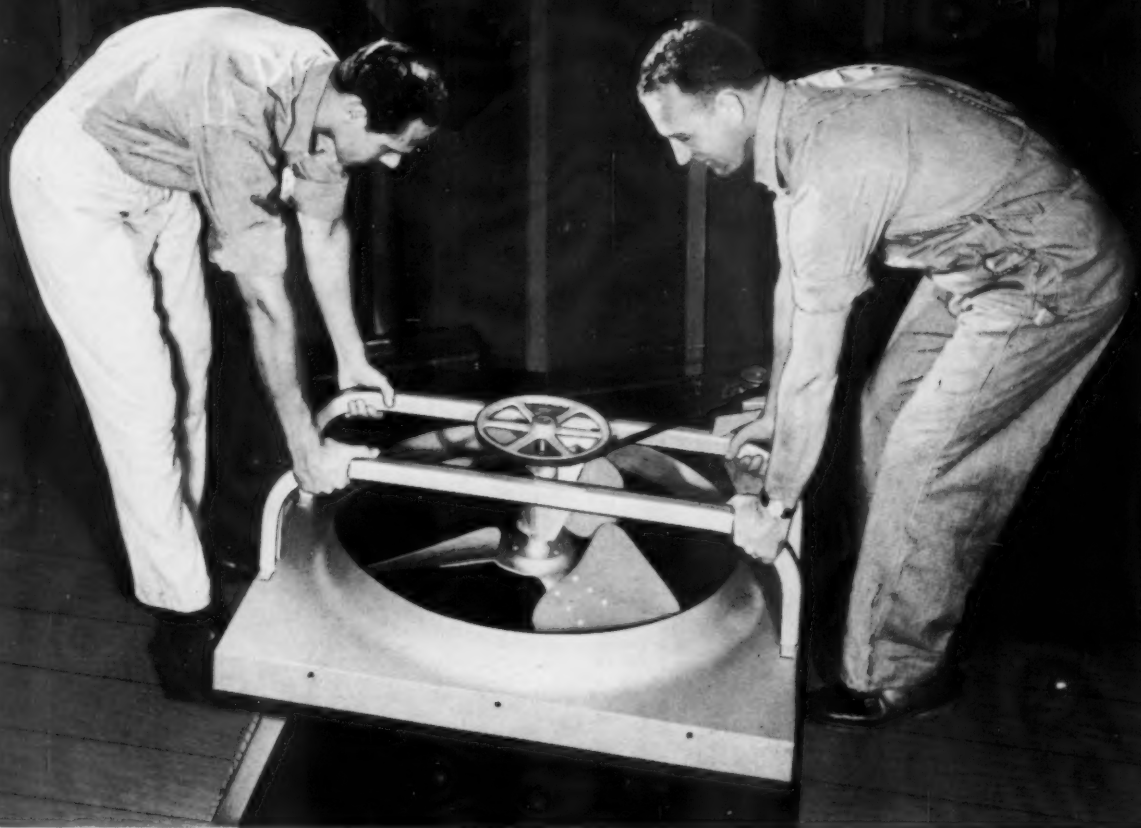
Name _____

Address _____

City _____ Zone _____ State _____

cool an entire house

for about $\frac{1}{5}$ the cost of air conditioning



R&M-Hunter Package Attic Fan installs in a breeze

2-SPEED OPERATION FOR NIGHT/DAY USE—This low-cost home ventilating system gives cool comfort around the clock, in hot or warm weather. Refreshing breezes are pulled in and hot, sticky air forced out. Operating costs are low, and trouble-free performance is backed by R&M-Hunter's 80 years in manufacturing quality electrical equipment.



Automatic ceiling shutters install easily, too. Metal frame is screw-fastened and trim covers edges of ceiling opening. No finishing needed.

FEATURES

- Two-speed motors (single speed optional)
- Certified air deliveries from 5200 to 10550 cfm.
- Sound-tested ball bearings on fan and motor
- Heavy-duty motor, rubber mounted
- Built-in thermal overload protection
- Fan guaranteed 5 years; motor and shutter, 1 year

R&M-HUNTER ATTIC FANS



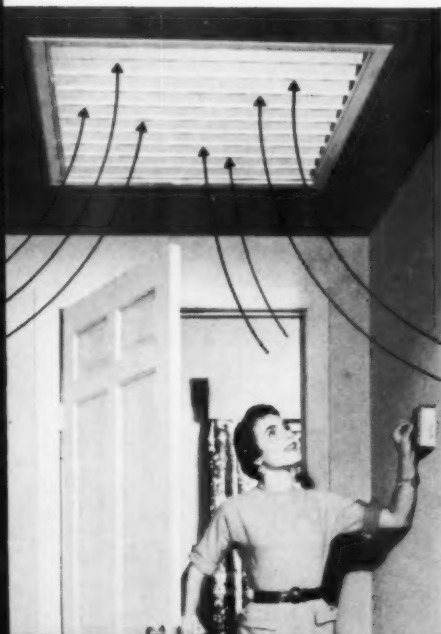
R&M-Hunter makes a complete line of Cooling Fans, Ventilating Fans, and Electric Heating Equipment.

MAIL TODAY

Hunter Division—Robbins & Myers, Inc.
2866 Frisco, Memphis 14, Tennessee

Please send data on the R&M-Hunter Package Attic Fan to:

Name _____
Company _____
Address _____



BENNETT BUILDS 'EM BETTER...



CIRCULATING FIREPLACES...

Beneform forms take all the long steps and the wrong steps out of fireplace construction — saves hours of time, nearly a ton of material — and gives a guaranteed, smoke-free result!



CONVENTIONAL FIREPLACES...

The Bennett 10" Throat Damper is sized and shaped to save mason's time — has full-rated size with increased funneling height that gives better operation. Rotary or poker control.



UNUSUAL FIREPLACES...

Bennett-pioneered for projecting corner fireplaces, 2-sided or 3-sided openings — the Beneform Universal Damper provides lower construction costs, efficient smoke-free operation. Reinforced lintel flange will carry any masonry load.

YOUR BUILDING MATERIALS DEALER can help you solve any fireplace construction problem with the complete **BENNETT** line. And be sure to ask about extra profit opportunities in **Flexscreen®** Fireplace Curtains and decorative accessories!

YOUR GUARANTEE OF QUALITY...

BENNETT - IRELAND INC.
Chartered in 1906
NORWICH, NEW YORK

BRAND NAMES DIRECTORY

(Continued from page 202)

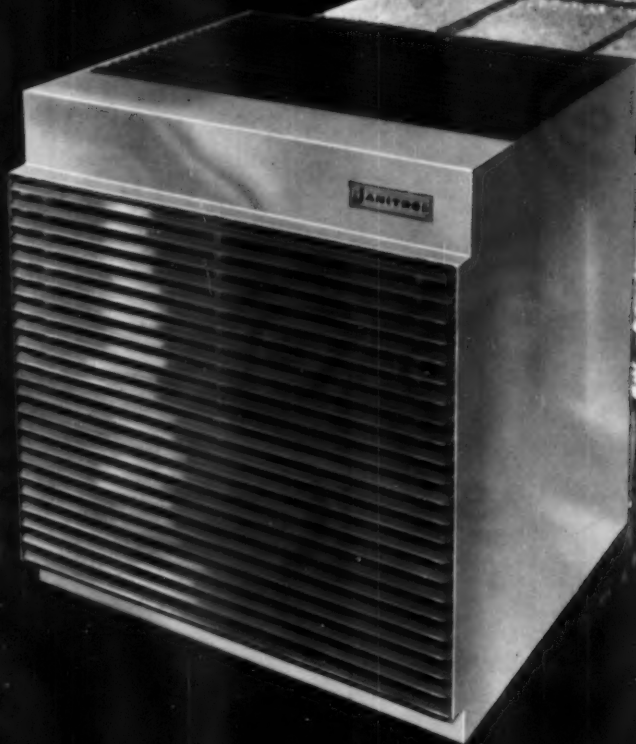
PALLET-PAK Fair D L Lumber
PALOS VERDES Palos Verdes
Stone Dept Great Lakes Carbon
PAN-A-LITE Arnold Altex
PANATONE Baldwin-Ehret-Hill
PANAVIEW Glide Windows Inc
PANCAKE Wiremold Co
PANEL-LIFT DOOR Panel-Lift
Door Corp
PANEL-TRACK Embassy Steel
PANEL-VENT Owens-Illinois
PANELAIR Payne Co
PANELBILD United States
Plywood Corp
PANELBILD SYSTEMS
United States Plywood Corp
PANELFOLD Panelfold Doors
PANELGROOVE Masonite Corp
PANELOK Masonite Corp
PANELRAY Day & Night
PANELSTONE Ruberoid Co
PANELWOOD Masonite Corp
PANELYTE St Regis Paper Co
PANLAM Polyplastex United
PAR-TILE Plywood Service Inc
PAR WOOD Plywood Service
PARA-HUE Sapolin Paints Int
PARA-PLASTIC Servised
Prods Corp
PARADOME Holophane Co Inc
PARAFLO Dravo Corp
PARAGON Allied Chemical
PARALLEL-O-GREY
Libbey-Owens-Ford Glass Co
PARALLEL-O-PLATE Libbey-
Owens-Ford Glass Co
PARBOND Parr Paint & Color
PARFLAKE Structural Products
PARFLEX Parr Paint & Color
PARKWOOD Parkwood
Laminates Inc
PARMASTIC Parr Paint
PAROID Bird & Son Inc
PARQUET WOODTILE
Robbins Flooring Co
PASADOR Farley & Loetscher
PATCH PASTE Schalk Chemical
PATHFINDER LIGHTS
Cannon Electric Co
PATIO MAGIC Daryl Products
PATIO RAMA Daryl Products
PATRICIAN Tilley John S
PATTEN-COMFORT Patten JV
PAYLOADER Hough Frank Co
PAYLOGGER Hough Frank Co
PAYMOVER Hough Frank Co
PC GLASS BLOCK Pittsburgh
Corning Corp
PEARLITE Lustro Tile Mfg Co
PEARLITE Pease Woodwork Co
PEE GEE Devoe & Reynolds Co
PEERLESS Peerless Heater Co
PEERLESS Tucker Duck
PEG-BOARD Masonite Corp
PELLA Rollscreen Co
PEN-FAST O'Brien Corp
PEN-O-LASTIC McGuffie Co
PEN-SHEEN O'Brien Corp
PENCHLOR Pennsalt Chemicals
PENCHROME O'Brien Corp
PENCO Alan Wood Steel Co
PENCO McGuffie Co
PENETRAY Penetray Corp
PENETREM Tremco Mfg Co
PENGLASS Pennsylvania Wire
PENGUIN Peterson Window
PENMETAL Penn Metal Co
PENN CRETE Penn Crete Prods
PENN-TONE Penn Crete Prods
PENNTROWEL Pennsalt
PENNVERNON Pittsburgh
Plate Glass Co
PENPLY Peninsula Plywood
PENTA STAIN Wood Treating
PENTEX Penn Crete Prods Co
PEOPLE HEATER
Emerson-Prvne Co
PERCHLORON Pennsalt
Chemicals Corp
PERF-A-TAPE United States
Gypsum Co
PERFEC-SEAL Reese Metal
PERFECTION Arkansas Oak
PERFECTION Lufkin Rule Co

PERFECTO Green A P Fire
PERFO-ROUND Cascades
PERFO-SQUARE Cascades
Plywood Corp
PERFORALL Woodall
Industries Inc
PERFUSAIRE Auer Register Co
PERIMAHEAT Young Radiator
PERIMETER INSULATION
Corson G & W H Inc
PERIMSUL
Baldwin-Ehret-Hill I C
PERM-ALIGN Cummins
Portable Tools Div
PERM-NENT Asphalt Corp
PERM-SEAL Asphalt Corp
PERMA BED Biddle Co
PERMA-CUSHION Robbins
Flooring Co
PERMA JACKS Perma-Jack
Bennett Mfg Co
PERMA-GARD Gilbert &
Bennett Mfg Co
PERMA GLAZE Biddle Co
PERMA-GRIT Skil Corp
PERMA-LOK Logan-Long Co
PERMA-NETTING Gilbert &
Bennett Mfg Co
PERMA-POST Perma-Jack Corp
PERMA-SPUN Logan-Long Co
PERMA WALL Conver Steel
PERMA-WALL Logan-Long Co
PERMACOUSTIC
Johns-Manville Corp
PERMAGARD United States
Plywood Corp
PERMAGILE COMPOUNDS
Permagile Corp
PERMAGLAS Smith A O Corp
PERMAGLOSS Thomas
Moulding Floor Co Inc
PERMALINE Line Material
Industries
PERMALITE Great Lakes
Carbon Corp
PERMALUME Shower Door Co
Plywood Corp
PERMAPLY United States
Plywood Corp
PERMATAB Logan-Long Co
PERMATITE Durkee-Atwood
PERMATITE General Bronze
PERMATONE
Johns-Manville Corp
PERMATOP Permagile Corp
PERMITE Permeteco Inc
PERMO DIP Wilbur & Williams
PERSIANS Watsontown Brick
PET Partable Electric Tools Inc
PETCO Petterson J C Corp
PETER PUTTERS Schalk
Chemical Co
PETROCOTE Thilmany Pulp
PHENIX QUALITY Phenix Mfg
PHILGAS Suburban Propane
PIGSKIN Industrial Canvas
PILOT Fiat Metal Mfg Co
PILOT Johns-Manville Corp
PIN-UP Holly-General Co Div
PINCOR Pioneer Gen E Motor
PINE CRAFT White Pine Sash
PINHOLATH Bestwall Gypsum
PIONEER Pioneer Gen E Motor
PIONEER Pioneer Plastics Corp
PIONITE Pioneer Plastics Corp
PITTSBURGH LOCK
HAMMER Milwaukee Elec
PLACCO Borden Chemical Co
PLANET Johns-Manville Corp
PLANKED GOLDEN
HEMLOCK Simpson Timber
PLANKTEX United States
Plywood Corp
PLANKWELD United States
Plywood Corp
PLASGON Cabot Samuel Inc
PLAST-O-MAT Warp Brothers
PLASTEEL Plasteel Products
PLASTEELITE Plasteel
Products
PLASTER GUARD Casings Inc
PLASTER PATCH United
Gilsonite Laboratories
PLASTER-WELD Larsen
Products Corp
PLASTI-GLAZE Plastic Products
(Continued on page 232)

the quality
tells . . .
the quality
sells . . .

JANITROL

AIR-COOLED
AIR-CONDITIONING

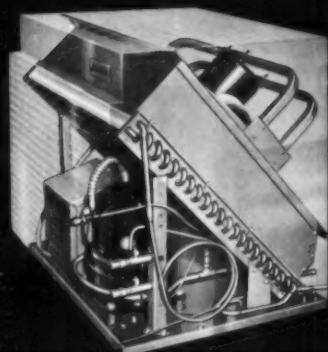


Hallmark of Quality
in Luxury Comfort

UNCHALLENGED COOLING PERFORMANCE...

in all-new **JANITROL**

52 SERIES CONDENSING UNITS



A COMPLETE LINE TO MEET ALL NEEDS . . .
CAPACITIES FROM 22,200 TO 110,200 BTU/HR.

Outwardly beautiful and pleasing to the eye, inwardly rugged and powerful, new Janitrol 52 Series provides low-cost central cooling with matchless reliability and efficiency. Here are some of the many ways new Janitrol 52 Series condensing units are demonstrating their excellence . . .

In Performance . . . condensing coils have greater area to dissipate more heat and to provide higher efficiency. Operation with outside temperatures as high as 125°F.

In Styling . . . modern, simple and functional cabinet that will be in the best of taste in any landscape plan. Finished in beautiful, durable, weather-resistant, automotive-type enamel.

In Economy . . . powerful, top-mounted fan draws in quantities of cooler ground air over the condensing coil, which is shaded from the sun's heat by louvers.

In Quietness . . . compressor and fan are unusually quiet in operation. Cabinet is acoustically treated with a weatherproof, sound-absorbent material.

In Safety . . . upflow exhaust protects nearby plants from hot blasts . . . enclosing grilles safeguard pets and children.

In Service . . . all components are easily accessible. Service panels may be removed without affecting operation, to make checks while unit is in full operation.



A.R.I. CERTIFIED

Full A.R.I. certification is your assurance this equipment meets or exceeds standards of the Air Conditioning and Refrigeration Institute. A five-year written warranty backs up your choice.



EXCLUSIVE BUILDERS' MODEL HOME PROMOTION

DOUBLES YOUR SALES POWER!

JANITROL HEATING AND AIR CONDITIONING
A Division of Midland-Ross Corp.
Columbus 16, Ohio

Gentlemen:

Please rush me complete information on new Janitrol Line and the powerful model home merchandising aids that will double my sales power!

NAME.....
COMPANY.....
ADDRESS.....
CITY.....ZONE.....STATE.....

1

Feature the nationally advertised, consumer-accepted, Janitrol brand name in your homes, at prices no higher than ordinary "builder model" equipment!

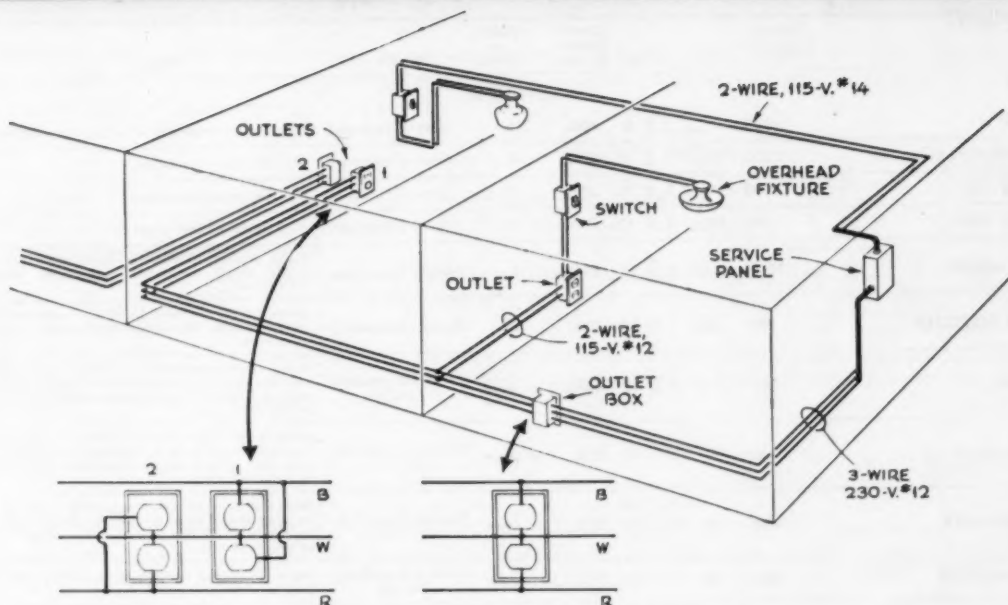
2

FREE . . .

Model home merchandising aids to help you sell your homes (instead of the furnace)! Do a real selling job on your model homes with this exclusive promotion plan. It's sales-action tested and complete . . . a powerful traffic-builder and point-of-sale tool to help you build sales and profits. See for yourself! Mail coupon today for facts on this terrific sales booster!

ELECTRICAL, WIRING

3-Wire Perimeter Circuiting; Low-Voltage Switching

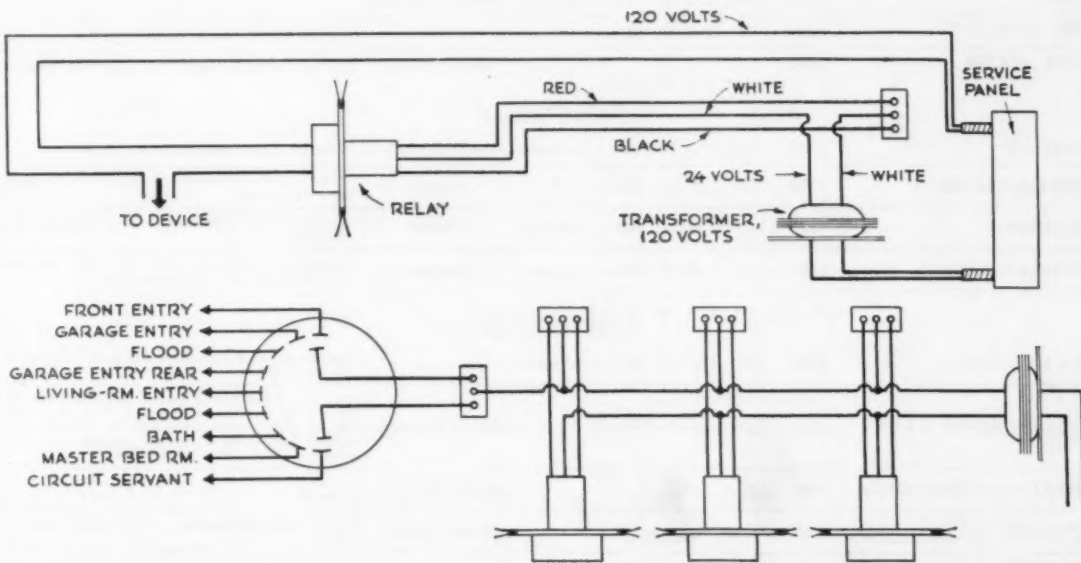


(Courtesy: National Electrical Manufacturers Assoc.)

THREE-WIRE, 220-VOLT PERIMETER WIRING

This system has two basic advantages over conventional wiring. First, it makes two circuits available for every one wire that's pulled, reducing labor costs. And second, it makes 220-volts available in every room, so that room air condi-

tioners can be installed without the need for additional wiring. Convenience outlets can be wired in either of the two ways shown, and overhead lights can be wired off the perimeter if it is desirable.



(Courtesy: General Electric Co.)

LOW-VOLTAGE RELAY SWITCHING

Low-voltage relay systems are most often used where it is desired to operate lights or other electrical devices from several different switches. The master switch system, shown above, is the most common: from one master switch, gen-

erally in the master bedroom, as many as nine key circuits in the house can be controlled. Low-voltage wire need not be armored or heavy, can be run at much lower cost than conventional 110-volt wire.

13

ELECTRICAL, WIRING

Load and Circuit Chart

	Typical Connected Watts	Volts	Wires	Circuit Breaker or Fuse	Outlets on Circuit	Outlet	Notes
KITCHEN							
RANGE	12000	120 ²⁴⁰	3 # 6	50A.	1	Special Purpose	Use of more than one outlet is not recommended.
OVEN (Built in)	4500	120 ²⁴⁰	3 # 10	30A.	1	Special Purpose	May be direct connected.
RANGE TOP	6000	120 ²⁴⁰	3 # 10	30A.	1	Special Purpose	May be direct connected.
RANGE TOP	3300	120 ²⁴⁰	3 # 12	20A.	1	Special Purpose	May be direct connected.
DISHWASHER	1200	120	2 # 12	20A.	1	Parallel Grounding	These appliances may be direct connected on a single circuit. Grounded receptacles required, otherwise.
WASTE DISPOSER	300	120	2 # 12	20A.	1	Parallel Grounding	These appliances may be direct connected on a single circuit. Grounded receptacles required, otherwise.
BROILER	1500	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Heavy-duty appliances regularly used at one location should have a separate circuit. Only one such unit should be attached to a single circuit at the same time.
FRYER	1300	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Heavy-duty appliances regularly used at one location should have a separate circuit. Only one such unit should be attached to a single circuit at the same time.
COFFEEMAKER	1000	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Heavy-duty appliances regularly used at one location should have a separate circuit. Only one such unit should be attached to a single circuit at the same time.
REFRIGERATOR	300	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Separate circuit serving only refrigerator and freezer is recommended.
FREEZER	350	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Separate circuit serving only refrigerator and freezer is recommended.
LAUNDRY							
WASHING MACHINE	1200	120	2 # 12	20A.	1 or more	Parallel Grounding	Grounding type receptacle required. Separate circuit is recommended.
DRYER	5000	120 ²⁴⁰	3 # 10	30A.	1	Special Purpose	Appliance may be direct connected — must be grounded.
IRONER	1650	120	2 # 12	20A.	1 or more	Parallel Grounding	
HAND IRON	1000	120	2 # 12	20A.	1 or more	Parallel	Consider possible use in other locations.
WATER HEATER	3000					Special Purpose	Consult utility company for load requirements.
LIVING AREAS							
WORKSHOP	1500	120	2 # 12	20A.	1 or more	Parallel Grounding	Separate circuit recommended.
PORTABLE HEATER	1300	120	2 # 12	20A.	1	Parallel	Should not be connected to circuit serving other heavy-duty loads.
TELEVISION	300	120	2 # 12	20A.	1 or more	Parallel	Should not be connected to circuit serving appliances.
PORTABLE LIGHTING	1200	120	2 # 12	20A.	1 or more	Parallel	Provide one circuit for each 500 sq. ft. Divided receptacle may be switch controlled.
FIXED UTILITIES							
FIXED LIGHTING	1200	120	2 # 12	20A.	1 or more		Provide at least one circuit for each 1200 watts of fixed lighting.
AIR CONDITIONER ¼ hp	1200	120	2 # 12	20A.	1	Parallel Grounding	Consider 4 kw 3-wire circuits to all window or console-type air conditioners. Outlets may then be adapted to individual 120- or 240-volt machines. Connection to general purpose or appliance circuits is not recommended.
CENTRAL AIR CONDITIONER	5000	240				Special Purpose	Consult manufacturer for recommended connections.
HEAT PUMP	*14000	240				Special Purpose	Consult manufacturer for recommended connections.
SUMP PUMP	300	120	2 # 12	20A.	1 or more	Parallel Grounding	May be direct connected.
HEATING PLANT	600	120	2 # 12	20A.	1		Direct connected. Some local codes require separate circuit.
FIXED BATHROOM HEATER	1500	120	2 # 12	20A.	1		Direct connected.
ATTIC FAN	300	120	2 # 12	20A.	1 or more	Parallel Grounding	May be direct connected. Individual circuit is recommended.

*Maximum connected load (range varies from 6000 to 14000 depending on season).

Courtesy "Live Better Electrically"

ELECTRICAL, WIRING

How to Light-Plan a House

GENERAL: All incandescent bulbs, except the low-wattage decorative types, must be shielded by a diffusing material. A minimum of one permanent lighting unit per room must be on switch control at room entrance or entrances when they are more than ten feet apart.

LIVING ROOM, FAMILY ROOM ▶

For rooms 125 square feet and below, required is either: a) A single lighting fixture 12-15 in. in diameter, holding one 100-watt bulb or three 40-watt bulbs, b) 6 feet of structural lighting such as a cornice, bracket or valance.

For room sizes between 125 and 225 square feet, required is either: a) A 15-17 in. fixture holding one 150-watt bulb or four 40-watt bulbs, b) 8-12 ft. of structural lighting.

For rooms over 225 square feet, 16-20 ft. of structural lighting is required. In all cases, a combination of structural and ceiling fixture lighting is desirable.



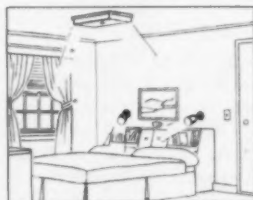
◀ **DINING AREA:** Required is ceiling fixture, suspended type preferred, centered above spot for dining table, incorporating at least 150 watts in one or more bulbs. If possible, one foot of structural lighting for every 12 square feet of room area should also be used.

KITCHEN ▶

For general lighting, there should be one ceiling fixture, a minimum 12 inches in diameter, to house one 150-watt, two 75-watt, or three 60-watt bulbs. If fluorescent type, use two 40-watt, four 20-watt, or two circline fluorescent lamps.

For local lighting, above sink in front of window use additional ceiling fixture as above, or one recessed fixture in soffit containing a minimum of 150 watts.

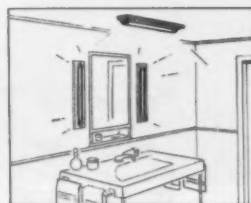
For sink under a cabinet, range, and work counters, required is a wall bracket containing one 20-watt fluorescent, or two 40-watt incandescent for each four feet of counter. If mounted flush with underside of cabinets, shielding is not required.



◀ **BEDROOMS:** For bedrooms 125 square feet and below, use either: a) One ceiling fixture with a 12-15 in. diameter containing one 100-watt bulb, or b) three 40-watt bulbs, and 6 feet of structural lighting. For bedrooms between 125 and 225 square feet, use 15-17 in. fixture containing one 150-watt or four 40-watt bulbs, or 8-12 ft. of structural lighting. A combination of both is most desirable.

BATHROOM AND LAVATORY ▶

One fixture located at each side of grooming area and one fixture located on ceiling or wall over grooming area. Each of these should accommodate one 20-watt fluorescent, two 40-watt incandescent, or one 60-watt incandescent. For wall-to-wall mirrors, a row of shielded fluorescent tubes should be extended across full width of mirror.



◀ **LAUNDRY, UTILITY, WORKSHOP, BASEMENT:** A minimum of one ceiling or wall fixture over each principal work area. Ceiling fixtures should be a minimum 12 in. in diameter carrying a minimum 150 watts in bulb or bulbs. For fluorescents: two 40-watt, four 20-watt, or two circline fluorescent lamps. Wall brackets along work areas should contain one 20-watt fluorescent, or two 40-watt incandescent, for each four feet of area to be covered.

HALLS, PASSAGEWAYS ▶

For each hall or passageway, use a minimum of one ceiling fixture, wall bracket, or recessed fixture accommodating a 60-watt bulb for every 10 feet of passageway.



OUTSIDE THE RESIDENCE: A minimum of one or more fixtures at each entrance of the residence.

ACCESSIBLE UNFINISHED STORAGE AREAS: A minimum of one fixture socket or wall bracket for each 200 square feet of floor space.

CLOTHES CLOSETS: A minimum one-lamp receptacle or fixture for each full-door closet.

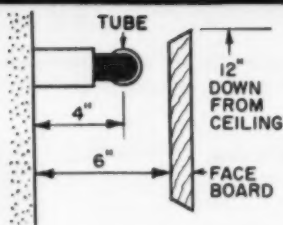
GARAGE OR CARPORT: A minimum of one lamp receptacle or fixture using one 100-watt bulb at both sides of each parking area.

Courtesy: American Home Lighting Institute, Inc.

13

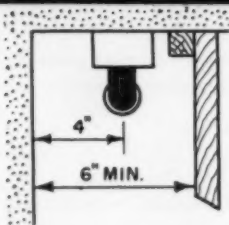
ELECTRICAL, WIRING

Selected Built-in Lighting Details



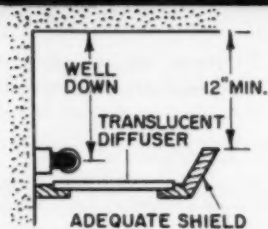
VALANCE

Shown here with side-mounted channel. Tube should be far enough from wall to prevent drapery from shielding downward light. Provides both ceiling- and wall-lighting.



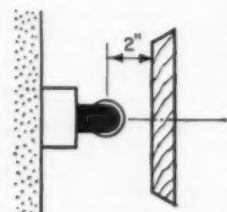
CORNICE

Provides wall light only. Faceboard joins ceiling. Channel is ceiling-mounted. Recommended for low-ceiling rooms, or where window head is close to ceiling.



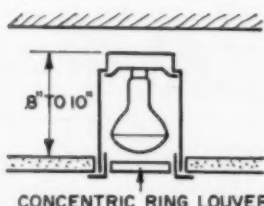
COVE

Emits light horizontally and upward unless shield is translucent (luminous cove). Should be either luminous or low enough to flood upper wall—otherwise too inefficient for home lighting applications.



BRACKET

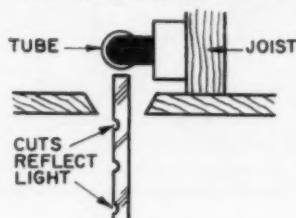
Like valance, but centerline of faceboard is on same level with tube, should be closer to wall. Light emission is both upward and down.



CONCENTRIC RING LOUVER

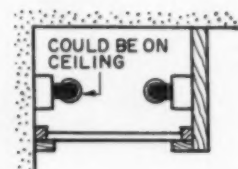
RECESSED DOWNLIGHT

Technically a fixture, but its inclusion in home should be planned prior to rough wiring. Using reflector-type bulb, adds highlights and drama to interior design.



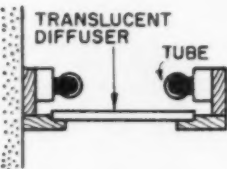
EDGELIGHTING

Arrangement of plastic or glass panel to transmit light edgewise — invisibly except where decorative cuts, ripples, or flutes in surface re-direct light, appear as its source.



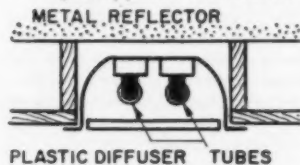
SOFFIT

Underside of beam or furred-down section containing recessed luminous panel. Chiefly for local lighting, but several soffit panels could provide adequate general illumination.



CANOPY-OVERHANG

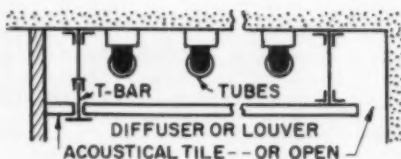
Like luminous cove; but downward, diffused light is primary purpose of structure. Uniform brightness of diffusion panel would normally require at least two rows of tubes.



PLASTIC DIFFUSER TUBES

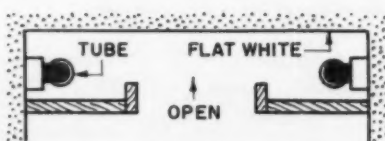
TROFFER

A fixture that provides a "pre-assembled" recessed panel including reflector. Generally narrow, made to permit end-to-end, continuous runs.



SUSPENDED CEILING

Either diffusion or opaque material suspended to form light plenum. Plastic or glass left open (right) would afford better ventilation, but could be harder to shield properly.



COFFER

A recessed cavity open at bottom with high cut-off angle. Interior surface becomes an indirect, diffused light source, primarily local.

Rangaire



The Stereophonic Home... Rangaire's way to faster sales in '61!

Here's a completely new sales sparking promotional package to enhance the sales appeal of every home you build . . . and at an amazingly low cost to you.

Your selling job will be so much easier when you feature the Rangaire Stereophonic Radio Intercom System in every home you build. And Rangaire's Stereophonic Home promotional package helps you build a powerful sales promotion right in your own community.

Your prospects will be intrigued with the magnificent styling, the satin smooth hardwood cabinets and the unsurpassed tonal resonance of the Rangaire Stereo Radio Intercom System. A simple demonstration virtually turns any home into a concert hall . . . a touch of elegance that sets your home apart in your prospects' eyes. The price . . . Rangaire's low cost will surprise you . . . it's practical for even your lower budget homes. Better your sales in '61 . . . Rangaire has the product, the price and the promotion to help you profit. Return coupon for complete details today.

STEREO HOMES
Rangaire

Fill Out
and
Return

Roberts Manufacturing Company
Cleburne, Texas

Gentlemen:

Please rush details on Rangaire Stereophonic Home
Promotion immediately.

Name _____

Address _____

City _____ Zone _____ State _____

The most important wiring devices
for any installation

...from **LEVITON**



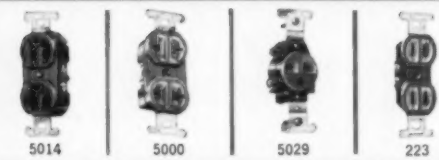
Flush Tumbler Switches. Over 60 cataloged types are available, including 15 and 20 Amp AC Quiet, 10 and 20 Amp T-Rated AC-DC, and 10 Amp residential switches...backed by Leviton's reputation for superior quality at sensible prices.

LEVITON



Combination Line. Over 30 different cataloged combination duplex devices available. Quiet AC Switches combined with Parallel or U-Ground outlets, Pilot Light, or Duplex Switches in separate or common circuits. AC-DC switches in the same combinations.

LEVITON

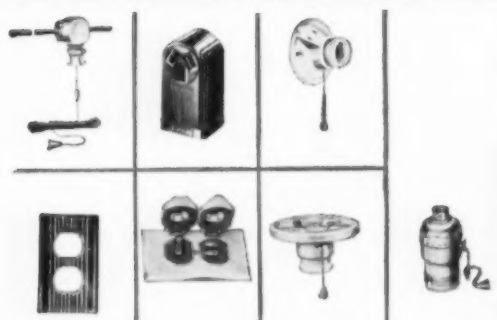


Single and Duplex Receptacles. Over 40 different cataloged types. Single and Duplex U-Ground, T-Slotted, Tandem and Parallel, double contact, back and side wired, and Quickwire for heavy duty and residential uses.

LEVITON



Lev-O-Lock Devices. 2, 3, and 4 wire single and duplex receptacles, connectors, caps, and motor plug outlets. Midget 2 and 3 wire caps and cord connectors. For safety, dependability, economy.



... when it's important for you to make a choice, you know there's a Leviton wiring device to fit your need. Ask your Leviton Distributor today for your Contractor's ABC. Or write to Leviton Manufacturing Company, Brooklyn 22, New York.

Your best jobs are done with ...

LEVITON

Leviton Manufacturing Company, Brooklyn 22, New York • Chicago • Los Angeles • Leviton (Canada) Limited, Montreal
For your wire needs, contact our subsidiary: American Insulated Wire Corporation



Telephone man Robert Dahill checks position of telephone-wired kitchen outlet with builder Arthur P. Aaron.



Breezeways of A & A homes come with outlets for permanent or portable telephones.

Your Telephone Business Office will gladly help you telephone-plan your homes. For details on home telephone installations, see Sweet's Light Construction File, 11c/Be. For commercial installations, Sweet's Architectural File, 34a/Be.

"We're always looking for something that will help sell houses, and concealed telephone wiring does"

**SAYS ARTHUR P. AARON, A & A BUILDERS, INC.,
AVON, CONNECTICUT**

Arthur P. Aaron was the first contractor in Connecticut to telephone-plan his homes with concealed telephone wiring. "For the nominal cost, concealed wiring is definitely a good investment," says Mr. Aaron. "We're always looking for something that will help sell homes, and concealed wiring does just that."

Mr. Aaron has constructed homes from \$20,000 to \$35,000, all with concealed telephone wiring. He's also planning to pre-wire homes of \$15,000 and \$16,000 which he expects to build in Avon and Norwich this year.

"I mention concealed telephone wiring in my newspaper advertising, and I instruct my salespeople to point out this feature in our model homes," says Mr. Aaron. "It's an extra selling point, it's practical, and the other fellow may not have it."

BELL TELEPHONE SYSTEM





Vina-Lux[®] FLOORS
 satisfy champagne tastes
 on beer budgets

Vina-Lux vinyl asbestos tile floors help you sell those tough prospects who will have "nothing but the best" . . . on a budget. Here's how: Vina-Lux floors come in a wide selection of coordinated colors and styles to meet the most discriminate taste. Yet they cost far less than other types of vinyl flooring.

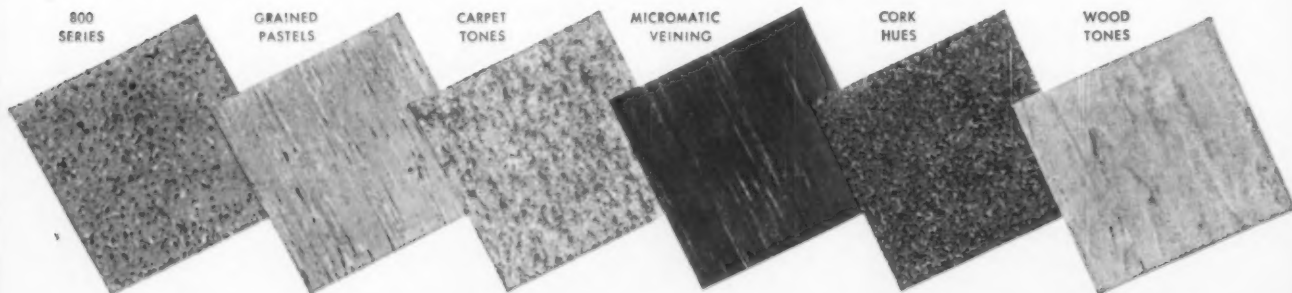
Equally important, Vina-Lux helps you build more house for less money, because it installs faster and easier on or below grade over concrete slab — the modern, low-cost construction method — or over wood or plywood sub-floors.

Compare Vina-Lux for yourself — let us send you free samples, color charts, model home merchandising kit and idea-filled "Vina-Lux Floor Styling Handbook."
 Write today!

AZROCK FLOOR PRODUCTS DIVISION
Specialists in the manufacture of vinyl asbestos tile and asphalt tile flooring
 UVALDE ROCK ASPHALT COMPANY • 543A FROST BANK BLDG. • SAN ANTONIO, TEXAS



Over 50 colors and a style for every builder requirement



FLOOR, WALL, CEILING MATERIAL

Hardwood Flooring Data

STANDARD SIZES, COUNTS and WEIGHTS

"Nominal" is the size designation used by the trade, but it is not always the actual size. Sometimes the actual thickness of hardwood flooring is $\frac{1}{8}$ -inch less than the so-called nominal size.

"Actual" is the mill size for thickness and face width, excluding tongue width. "Counted" size determines the board feet in a shipment. Pieces less than 1 inch in thickness are considered to be 1 in.

OAK				BEECH, BIRCH, HARD MAPLE AND PECAN			
Nominal	Actual	Counted	Weights M Ft.	Nominal	Actual	Counted	Weights M Ft.
TONGUED AND GROOVED-END MATCHED				TONGUED AND GROOVED-END MATCHED			
$\frac{3}{8}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	1" x 4"	2300 lbs.	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	1" x 4"	2300 lbs.
$\frac{3}{8}$ " x $2\frac{1}{4}$ "	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	1" x 3"	2100 lbs.	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	1" x 3"	2100 lbs.
$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	1" x $2\frac{3}{4}$ "	2000 lbs.	$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	1" x $2\frac{3}{4}$ "	2000 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	1" x $2\frac{1}{4}$ "	1900 lbs.	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	1" x $2\frac{1}{4}$ "	1900 lbs.
$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	1" x $2\frac{1}{2}$ "	1000 lbs.	$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	1" x $2\frac{1}{2}$ "	1000 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	1" x 2"	1000 lbs.	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	1" x 2"	1000 lbs.
$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	1" x $2\frac{1}{2}$ "	1350 lbs.	$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	1" x $2\frac{1}{2}$ "	1350 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	1" x 2"	1300 lbs.	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	1" x 2"	1300 lbs.
SQUARE EDGE				SPECIAL THICKNESSES			
$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	face count	1200 lbs.	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	5/4" x 4"	2400 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	face count	1200 lbs.	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	5/4" x 3"	2250 lbs.
				$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	5/4" x $2\frac{3}{4}$ "	2250 lbs.
JOINED FLOORING — i. e., Square Edge				Above Tongued and Grooved and End Matched			
$\frac{3}{8}$ " x $2\frac{1}{2}$ "	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	1" x $3\frac{1}{4}$ "	2250 lbs.	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	1" x $3\frac{1}{4}$ "	2250 lbs.
$\frac{3}{8}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	1" x 4"	2400 lbs.	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	1" x 4"	2400 lbs.
$\frac{3}{8}$ " x $3\frac{1}{2}$ "	$\frac{3}{8}$ " x $3\frac{1}{2}$ "	1" x $4\frac{1}{4}$ "	2500 lbs.	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	5/4" x $3\frac{1}{4}$ "	2500 lbs.
$\frac{3}{8}$ " x $2\frac{1}{2}$ "	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	5/4" x $3\frac{1}{4}$ "	2500 lbs.	$\frac{3}{8}$ " x $3\frac{1}{2}$ "	$\frac{3}{8}$ " x $3\frac{1}{2}$ "	5/4" x $4\frac{1}{4}$ "	2600 lbs.
$\frac{3}{8}$ " x $3\frac{1}{2}$ "	$\frac{3}{8}$ " x $3\frac{1}{2}$ "	5/4" x $4\frac{1}{4}$ "	2600 lbs.				

NOTE: Oak, Beech, Birch, Hard Maple and Pecan Flooring are bundled by averaging the lengths. A bundle may include pieces from 6 in. under to 6 in. over the nominal length of the bundle. No piece shorter than 9 in. admitted.

The percentages under 4 ft. referred to in the grading rules on this page apply on total footage in any one shipment of the item.

$\frac{3}{8}$ -in. allowance shall be added to the face length when measuring the length of each piece.

Flooring shall not be considered of standard grade unless the lumber from which the flooring is manufactured has been properly kiln-dried.

ESTIMATING FLOORING

Figures below are board feet of various sizes of flooring required to cover square feet of floor space shown at left.

Square Ft. Floor Space	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{1}{2}$ " x 2	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	$\frac{3}{4}$ " x 2	$\frac{3}{4}$ " x $1\frac{1}{2}$ "
10	13	14	16	13	14	13	14
20	26	28	31	26	28	26	28
30	39	42	47	39	42	39	42
40	52	56	62	52	56	52	56
50	65	70	78	65	70	65	70
60	78	83	93	78	83	78	83
70	91	97	109	91	97	91	97
80	104	111	124	104	111	104	111
90	117	125	140	117	125	117	125
100	129	139	155	130	139	130	139
200	258	277	310	260	277	260	277
300	387	415	465	390	415	390	415
400	516	553	620	520	553	520	553
500	645	692	775	650	692	650	692
600	774	830	930	780	830	780	830
700	903	969	1085	910	969	910	969
800	1032	1107	1240	1040	1107	1040	1107
900	1161	1245	1395	1170	1245	1170	1245
1000	1290	1383	1550	1300	1383	1300	1383
Counted as	1 x 4	1 x 3	1 x $2\frac{1}{2}$	1 x $2\frac{1}{2}$	1 x 2	1 x $2\frac{1}{2}$	1 x 2
Weight	2300	2100	2000	1350	1300	1000	1000
Size of nails used	8d	8d	8d	5d	5d	4d	4d
Nail spacing	10-12 in. on center			8 to 10 in. on center		6 to 8 in. on center	
No. pieces per bundle	8	12	12	18	18	24	24
To obtain B.M. from bundle multiply by	$2\frac{3}{4}$	3	$2\frac{1}{4}$	$3\frac{1}{4}$	3	5	4

COMPUTING FLOORING NEEDS

To determine the board feet of flooring needed to cover a given space, first find the area in square feet then add to the percentage of that figure which applies to the size flooring to be used, as indicated below. The additions provide an allowance for side-matching plus an additional 5% for end-matching and normal waste.

55% for	$\frac{3}{8}$ " x $1\frac{1}{2}$ "
42 $\frac{1}{2}$ % for	$\frac{3}{8}$ " x 2"
38 $\frac{1}{2}$ % for	$\frac{3}{8}$ " x $2\frac{1}{4}$ "
29% for	$\frac{3}{8}$ " x $3\frac{1}{4}$ "
38 $\frac{1}{2}$ % for	$\frac{3}{4}$ " x $1\frac{1}{2}$ "
30% for	$\frac{3}{4}$ " x 2"
38 $\frac{1}{2}$ % for	$\frac{1}{2}$ " x $1\frac{1}{2}$ "
30% for	$\frac{1}{2}$ " x 2"

The above figures are based on laying flooring straight across the room. Where there are bay windows or other projections, allowance should be made for additional flooring.

NAIL SCHEDULE — OAK FLOORING

Tongued-and-grooved flooring. To be blind-nailed.

Flooring Dimen., In.	Type, Size, Spacing of Nails
$\frac{3}{4}$ " x 2	Bright casing nail — 4d wire or cut nail, or screw nail. 8 in. apart. Wood subfloor required.
$\frac{3}{4}$ " x $1\frac{1}{2}$	
$\frac{3}{8}$ " x $3\frac{1}{4}$	7d or 8d screw type or cut steel nail.* 10-12 in. apart.
$\frac{3}{8}$ " x $2\frac{1}{4}$	
$\frac{3}{8}$ " x $1\frac{1}{2}$	
$\frac{1}{2}$ " x 2	5d screw type or cut steel or wire nail. 10 in. apart. Wood subfloor required.
$\frac{1}{2}$ " x $1\frac{1}{2}$	

Square-edge flooring. Face-nailed.

$\frac{3}{8}$ " x 2	1-in. 15 gauge fully barbed flooring brad, preferably cement coated. 2 nails every 7 in. Wood subfloor required.
$\frac{3}{8}$ " x $1\frac{1}{2}$	

*If steel wire flooring nail is used, it should be 8d, preferably cement coated. Newly developed machine-driven barbed fasteners of the size recommended by the manufacturer are acceptable.

Courtesy National Oak Flooring Mfrs. Assn.

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FLOOR, WALL, CEILING MATERIAL

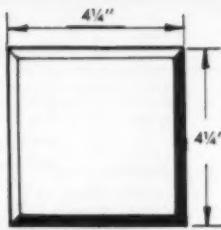
Resilient Flooring Data

TYPE OF FLOORING	ASPHALT		SEMI-FLEXIBLE ASBESTOS	VINYL				FLEXIBLE HOMOGENEOUS	RUBBER		LINOLEUM		CORK
	REGULAR	GREASE-PROOF		BACKED TYPES					SHEET	TILE	SHEET	TILE	
				REGULAR	TILE	REGULAR	ALKALI RESISTANT						
FORM AVAILABLE	TILE	TILE	TILE	SHEET	TILE	SHEET	TILE	TILE	SHEET	TILE	SHEET	TILE	TILE
DIMENSIONS* Size or Width, Inches	9 x 9	9 x 9	9 x 9	72	9 x 9	45, 72	9 x 9	9 x 9	36	9 x 9	72	9 x 9	9 x 9
Thickness, Inches	0.125 0.1875	0.125 0.1875	0.0625 0.080 0.09375 0.125	0.0625 0.070	0.0625	0.0625 0.080	0.0625 0.080	0.080 0.09375 0.125	0.080 0.125 0.1875	0.080 0.125 0.1875	0.070 0.090 0.125	0.065 0.090 0.125	0.09375 0.125 0.1875 0.3125
COST Approximate Installed Cost Per Square Foot in Cents For Thickness Indicated	0.125" \$20-45	0.125" \$25-50	0.0625" \$25-35	0.0625" \$30-40	0.0625" \$30-40	0.0625" \$50-60	0.0625" \$50-60	0.080" \$55-80	0.080" \$45-55	0.080" \$45-55	0.070" \$25-35	0.065" \$25-35	0.09375" \$35-45
	0.1875" \$25-50	0.1875" \$30-55	0.125" \$40-60	0.070" \$45-50		0.080" \$55-70	0.080" \$55-70	0.09375" \$70-130 0.125" \$75-200	0.125" \$55-70 0.1875" \$70-90	0.125" \$55-70 0.1875" \$70-90	0.090" \$30-45 0.125" \$40-60	0.090" \$30-45 0.125" \$50-70	0.125" \$45-55 0.1875" \$55-65 0.3125" \$75-90
USE LEVEL** Suspended On Grade Below Grade	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes No No	Yes Yes No	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes No	Yes No No	Yes Yes No
PHYSICAL CHARACTERISTICS Thermal Conductivity Btu/Hr./Sq. Ft./°F./In. Relative Maximum Static Load Without Permanent Indentation Expressed in Lbs./Sq. In. Under Foot Comfort Apparent Warmth to Touch Quietness (Noise Level) Surface Alkali Resistance Grease Resistance Ease of Maintenance	3.1 25(Fair) Fair Fair Fair Excellent Poor Fair	3.1 25(Fair) Fair Fair Fair Excellent Very Good Good	3.1 25(Fair) Good Good Good Excellent Excellent Good	1.4 75(Good) Good Good Good Excellent Excellent Very Good	1.4 75(Good) Good Good Good Excellent Excellent Very Good	1.2-3.3 75(Good) Good Good Good Excellent Excellent Very Good	1.2-3.3 75(Good) Good Good Good Excellent Excellent Very Good	5.3 200 (Excellent) Excellent Good Very Good Excellent Excellent Very Good	5.3 200 (Excellent) Excellent Good Very Good Good Good Good	5.3 200 (Excellent) Excellent Good Very Good Good Good Good	1.5 75(Good) Good Good Good Fair Excellent Very Good	1.5 75(Good) Good Good Good Fair Excellent Very Good	0.5 75(Good) Excellent Excellent Excellent Fair Fair Fair
Slipperiness	Varies with finish and waxing, normally all are slip-resistant when dry.												
Impact Resistance	All are resistant to shattering, splitting, cracking or other damage under normal impact conditions.												
Light Reflectivity	Varies from almost zero to 65% depending on color, surface texture and finish—consult manufacturer.												
Durability	All show excellent durability under use conditions for which they are individually suitable when installed and maintained as recommended by manufacturer.												
*Nominal commercial dimensions only are shown—other sizes, shapes, thicknesses and widths vary with manufacturer. **When installed in accordance with the specific precautions and recommendations of the manufacturer.													

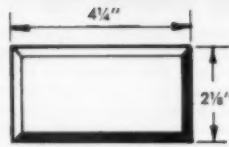
Material Courtesy Building Research Institute

FLOOR, WALL, CEILING MATERIAL

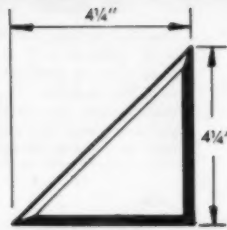
Plastic Tile Standards



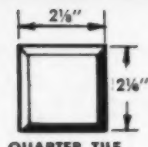
FIELD TILE



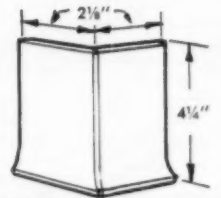
HALF TILE



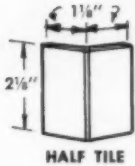
TRIANGLE TILE



QUARTER TILE



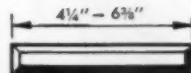
COVE-BASE CORNER TILE



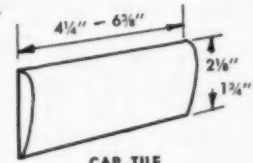
HALF TILE



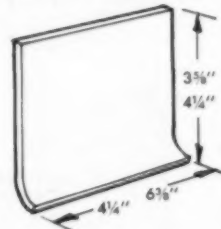
FEATURE CORNER TILE



FEATURE TILE



CAP TILE



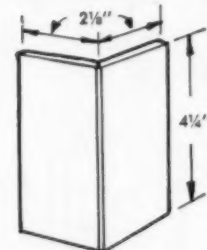
COVE-BASE TILE

HALLMARK

Polystyrene plastic wall tile which carry this hallmark indicate compliance with Commercial Standard 168-50 which includes the following conditions:

DIMENSIONAL TOLERANCES—The face sizes of tiles shall not vary one from the other, in any comparable dimension, more than a negative tolerance of 1/10 of 1% or 0.005 in., whichever is greater, and by a positive tolerance of 2/10 of 1% or 0.010 in., whichever is greater.

THICKNESS—The thickness of the plastic in tile shall be greater than 0.062 in. The lip on the tile shall extend at least 0.033 in. beyond the back of the tile.



FIELD CORNER TILE

ESTIMATING AND DESIGNING FACTORS

(Based on 4 1/4 x 4 1/4 Tile)

LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE
4 1/4"	1	3'-10 3/4"	11	7'-5 1/4"	21	10'-11 3/4"	31	14'-6 1/4"	41	18'-0 3/4"	51
8 1/2"	2	4'-3"	12	7'-9 1/2"	22	11'-4"	32	14'-10 1/2"	42	18'-5"	52
1'-0 3/4"	3	4'-7 1/4"	13	8'-1 3/4"	23	11'-8 1/4"	33	15'-2 3/4"	43	18'-9 1/4"	53
1'-5"	4	4'-11 1/2"	14	8'-6"	24	12'-0 1/2"	34	15'-7"	44	19'-1 1/2"	54
1'-9 1/4"	5	5'-3 3/4"	15	8'-10 1/4"	25	12'-4 3/4"	35	15'-11 1/4"	45	19'-5 3/4"	55
2'-1 1/2"	6	5'-8"	16	9'-2 1/2"	26	12'-9"	36	16'-3 1/2"	46	19'-10"	56
2'-5 3/4"	7	6'-0 1/4"	17	9'-6 3/4"	27	13'-1 1/4"	37	16'-7 3/4"	47	20'-2 1/4"	57
2'-10"	8	6'-4 1/2"	18	9'-11"	28	13'-5 1/2"	38	17'-0"	48	20'-6 1/2"	58
3'-2 1/4"	9	6'-8 3/4"	19	10'-3 1/4"	29	13'-9 3/4"	39	17'-4 1/2"	49	20'-10 3/4"	59
3'-6 3/4"	10	7'-1"	20	10'-7 1/2"	30	14'-2"	40	17'-8 1/2"	50	21'-3"	60

HOW TO USE THIS TABLE

This table can be valuable to the designer and estimator in several ways.

1. In designing or layout, the number of courses of tile can be ascertained, for any required height or length of wall.

Example: Assume that a wainscot height of 4'-6" is desired and it is required to know the number of tiles necessary to approach this dimension. Checking the table it will be found that 13 tiles give a course height of 4'-7 1/4". If desirable to hold close to the 54" dimension, 12 full tiles may be finished with a half tile or cap of 2 1/8" giving a total height of 4'-5 1/8".

2. Estimating tile quantities for a given area.

Example: Length of wall in lineal feet—17'-0"
 Height of wall—5'-8"
 Number of tile in 17'-0" = 48
 Number of tile in 5'-8" = 16
 48 x 16 = 768 tiles required.

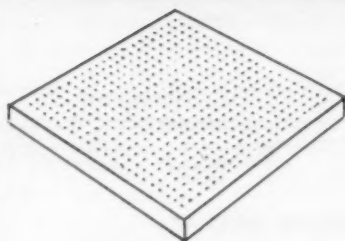
3. Estimating the number of pieces of 1/4" cap, base or feature strip required for lineal feet of wall.

Example: Assume total lineal feet of wall to be tiled to be 48 feet.
 Consulting the table it will be found that 34 pieces are needed for 12 feet. Therefore: 34 x 3 = 102 the total number of pieces required.

Courtesy The Society of Plastics Industry, Inc.

FLOOR, WALL, CEILING MATERIAL

Acoustical Ceiling Tile



CELLULOSE-FIBER TILE

There are, of course, very definite acoustical properties in the tiles shown here, and, as you might expect, the amount of sound absorption varies with the material, thickness, density, etc. of the product. This variance is measured in n.r.c., or Noise Reduction Coefficient. We mention this because you might be led to compare the materials and products strictly on their n.r.c. rating. This would be a mistake, since the variance is seldom one that the human ear can discern. This is particularly true in the home.

When choosing tile, it is best to take all factors into consideration. This would include: appearance, light reflection, thickness, moisture resistance, maintenance, insulation value, ease of installation, flame resistance and cost.

The standard size of this tile is 12"x12", although nearly all are available with other dimensions and with a variety of thicknesses. Some data on the types shown above:

Cellulose-Fiber Tile: Generally lower in price than other units; subject to some dimensional changes due to moisture content; also available with a flame-resistant finish; can be made termite, fungi and dry-rot proof by special manufacturing processes.

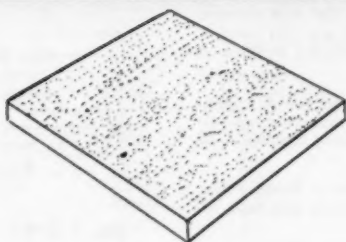
Mineral Tile: Are classified Class A incombustible; are slightly more expensive than cellulose-fiber; are used often when special artistically decorative effects are desired.

Perforated Metal Tile: Is used commercially most of the time; has a mineral wool pad in back of metal; has highest acoustical efficiency of commercial acoustical tile; is used frequently where long-range economy of maintenance is important.

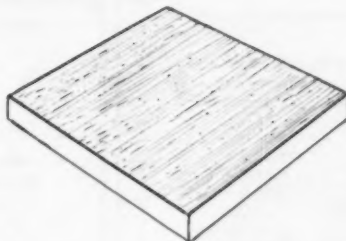
Glass-Fiber Tile: Also has an incombustible rating; has good moisture resistance; some tiles have thin plastic membrane covering which makes them washable.

Perforated Asbestos Tile: Especially important for its moisture resistant qualities; has high acoustical qualities as well; often used in radio studios, etc., where sound absorption is important.

Courtesy Acoustical Materials Association



MINERAL TILE



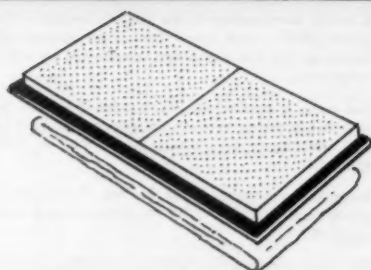
GLASS-FIBER TILE

Cementing: When cementing on plaster, be sure plaster is sized or properly painted (in new or remodeling work). Can also cement to gypsum board. A dab of cement at each corner is all that is necessary. Check with manufacturer for proper adhesive.

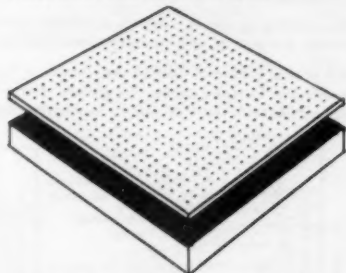
Nailing: Wood furring strips, 1" x 3" may be used as a base for nailing or stapling where surface of ceiling is rough. On new work, it is often possible to nail strips directly onto bottom of joists. Nails should be driven beyond surface of tile with nail set; or by mechanical means.

Screwing: This method is generally used when floor above will be subjected to vibration. Material can be screwed to furring strips or to gypsum board backing. Finished level of ceiling is governed by care and accuracy with which gypsum board is installed.

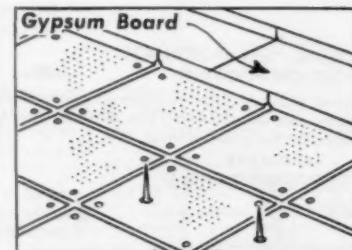
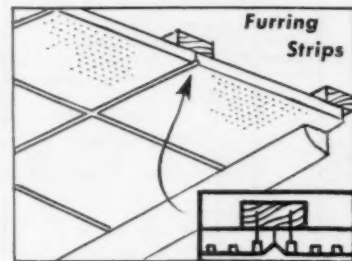
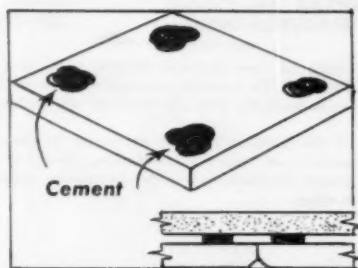
NOTE: A fourth method—mechanical suspension—is often used industrially and commercially where special conditions prevail. For information, consult your manufacturer.



PERFORATED METAL TILE



PERFORATED ASBESTOS TILE



FLOOR, WALL, CEILING MATERIAL

2-4-1 Plywood Flooring System

A recent development in the use of plywood is the 1 1/8" thick plywood panel (4'x8') which spans floor joists spaced 48" o.c. This panel is known as the 2-4-1 plywood, developed by the Douglas Fir Plywood Association.

The panel is applied by placing the 8' lengths across two 48" spans, with 2x4 blocking beneath the edges (Fig. 1). It is fastened down with 10d common or 8d common ring shank or hellically-threaded nails spaced 6" o.c.

Suggested maximum spans for No. 2 Douglas Fir or Southern Pine girders are 8', 11', and 14' for girder sizes of 4x6, 4x8, and 4x10, respectively.

The 2-4-1 plywood floor panel is unique in that a load capacity of 100 lbs. per sq. ft. at a deflection of 1/360th of span is possible without exceeding the allowable fiber stress.

This flooring system is primarily a subfloor and underlay for tile, carpeting, linoleum or other nonstructural flooring.

The partial plan and Section AA shown in Fig. 2 illustrates how the panels are fastened across the girders. The 4'x4' panels are used in conjunction with the 4'x8' panels so that the end seams are staggered.

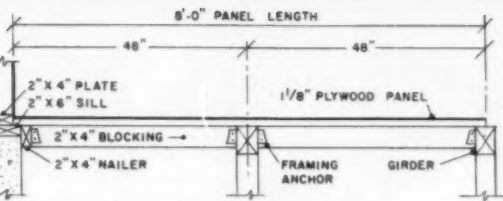
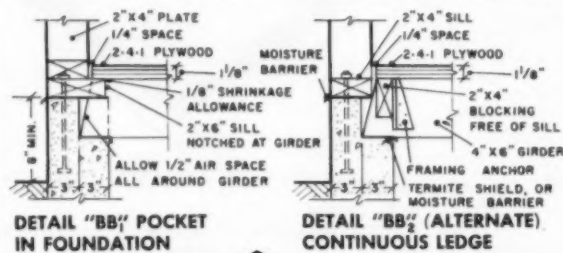


Fig. 1 2-4-1 SUBFLOOR UNDERLAY

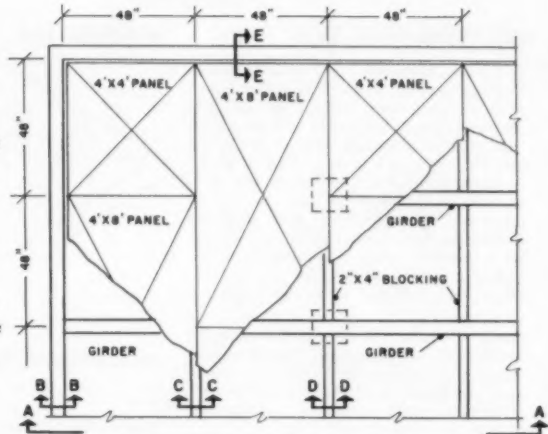


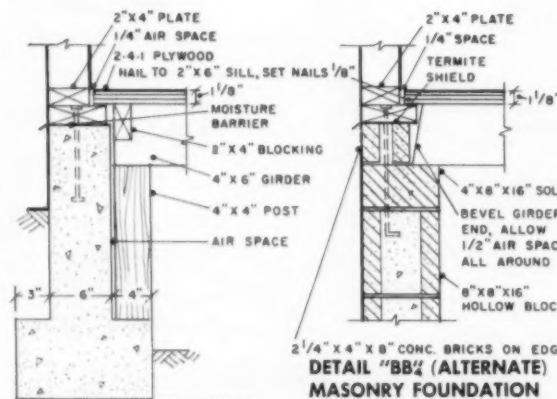
Fig. 2 PARTIAL FRAMING PLAN

DETAIL "BB" POCKET IN FOUNDATION

DETAIL "BB" (ALTERNATE) CONTINUOUS LEDGE

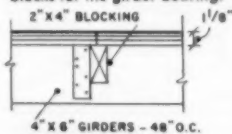
Details BB show alternate methods of the girder setting at the walls. Detail BB1, for example, indicates a pocket in the foundation which receives the girder and with the 2'x6" sill notched for girder clearances.

On Detail BB2 is shown a continuous foundation ledge on which the girder is set. Note the 2x4 blocking, free of sill, fastened between the girders. The blocking provides the base for nailing the 2-4-1 panel along its edge.



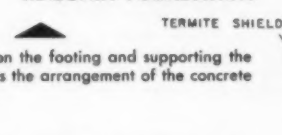
DETAIL "BB" (ALTERNATE) POST ON FOOTING

Detail BB3 indicates a post placed on the footing and supporting the girder end, whereas detail BB4 shows the arrangement of the concrete blocks for the girder bearing.

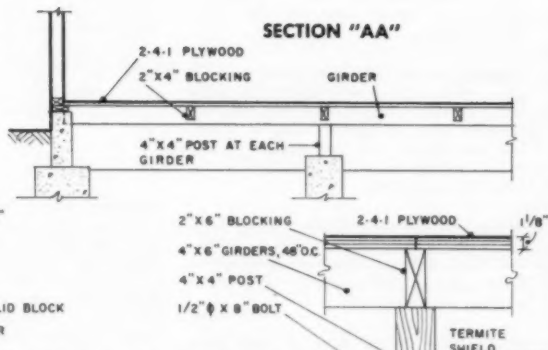


DETAIL "CC"

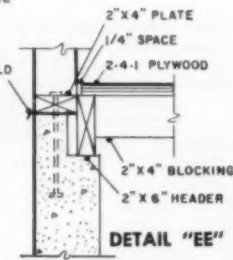
DETAIL "BB" (ALTERNATE) MASONRY FOUNDATION



Detail CC illustrates two panels joined directly over the center line of the 2x4 blocking.



Detail DD indicates a 4x4 post anchored to an inside concrete column and supporting the girder above.



DETAIL "EE"

Detail EE indicates a 2x6 header taking the place of the girder. The header is set on the ledge of the foundation wall.

Courtesy: Douglas Fir Plywood Association

FLOOR, WALL, CEILING MATERIAL

Hardboards: Types and Nailing Specifications

Application	Type of Hardboard	Maximum Open Spacing	Thickness	Nail Spacing		Size & Type of Nail	Approximate No. of Nails per Pound			
				Intermediate Supports	Around Edges					
INTERIOR WALLS AND CEILINGS	Standard Hardboard and Tempered Hardboard	Solid	1/8"	8" thru body	4"	Use any of these nails for these hardboard applications. 1 1/4" Casing Nails 1 1/2" Casing Nails 1 1/4" Finishing Nails 1 1/2" Finishing Nails 1 1/4" Counter Sunk Nails 1 1/4" Box Nails 1 1/4" 18 ga. Brads 1 1/4" Ring-grooved Nails (Flat Head) ADHESIVES: The following water-proof adhesives may be used when applied according to manufacturer's recommendations: Linoleum cement Tileboard cement Contact bond				
		16"	3/8"	8"	4"					
		16"	1/4"	8"	4"					
		24"	5/8"	8"	4"					
	Low-Density Hardboard	16"	3/8"	8"	4"			1 1/4" Casing Nails	635	
		16"	1/4"	8"	4"			1 1/2" Casing Nails	475	
	Leather Textured or Tile Patterned Hardboard	Solid Backing	16"	3/8"	8" thru body			4"	1 1/4" Finishing Nails	805
			16"	1/4"	8" thru body			4"	1 1/2" Finishing Nails	585
	Wood Grain Embossed Hardboard	16"	1/4"	8"	4"			1 1/4" Counter Sunk Nails	700	
								1 1/4" Box Nails	635	
	Wood Grain Printed Hardboard	16"	1/4"	8"	4"			1 1/4" 18 ga. Brads	1650	
								1 1/4" Ring-grooved Nails (Flat Head)	535	
	Grooved Hardboard 4", 8" or Random	16"	3/8"	8"	4"			ADHESIVES:		
								The following water-proof adhesives may be used when applied according to manufacturer's recommendations: Linoleum cement Tileboard cement Contact bond		
Scored Hardboard	16"	1/4"	8"	4"						
Tempered S2S	Solid	16"	3/8"	8" thru body	4"					
		16"	1/4"	8"	4"					
		16"	3/8"	8"	4"					
		16"	1/4"	8"	4"					
Perforated Hardboard	16"	3/8"	8" thru body	4"						
					16"	1/4"	8"	4"		
UNDERLAYMENT	Underlayment Hardboard		.215"	6" thru body	6"	1 1/4" Drive Screws (Flat Head) 1 1/4" Barbed Box Nails	630 635			
FINISH FLOORING	Tempered Hardboard		1/4"	12" thru body	6"	1 1/4" Coated Casing Nails	635			
PANEL SIDING	(With or without Sheathing)	Tempered Hardboard	16"	3/8"	8"	4"	Use either nail for Panel Siding 2 1/4" Galvanized Siding Nail 225			
			16"	1/4"	8"	4"				
			16" or 24"	3/8"	8"	4"				
		Grooved Hardboard	16"	3/8"	8"	4"		2 1/4" Galvanized Box Nail 220		
			16" or 24"	3/8"	8"	4"				
Scored Hardboard	16"	1/4"	8"	4"						
LAP SIDING	(With or without Sheathing)	Tempered Hardboard 12", 16" or 24" Wide	16"	1/4"	16" along bottom edge into studs	3"	Plain Lap			
			16"	3/8"	Vertically at all joints over wedges	2 1/2" Galvanized Siding Nails	225			
						2 1/2" Galvanized Box Nails	220			
		(Over Sheathing) *Siding on Vented Strips	10" & 12" Widths	16" or 24"	1/4"	No nails thru Hardboard	Single nail into stud at bottom of each cut piece	3" Nails thru Shadow Strip	90	
								Thick Hardboard	16" or 24"	3/8"	Special 2 1/2" galvanized nail recommended	146
CONCRETE FORMS	Concrete Form Hardboard	See Mfr's details	3/4"	8" to 12"	4"	1 1/4" Coated Casing Nails	635			

*Interlocking Metal Corners and Joint Fasteners Available

FLOOR, WALL, CEILING MATERIAL

How to Sound Condition a House

PLANNING FOR SOUND CONTROL

Determining how best to sound condition a building will often require the services of a sound engineer. He may be particularly needed when problems of acoustics are concerned with churches, schools and larger institutional buildings. But there are many things that you, as a home builder, can do to cut down the noise problem in your houses. Perhaps the most basic approach to the problem is a builder's awareness of the necessity to plan for sound insulation before he builds. This plan for sound control takes three forms: 1. *planning the siting and location of the house with sound values in mind* (see Table I); 2. *segregating the living functions within the house* (see Table II), and 3. *building in sound control* (see drawings in Table III).

The major problem in building-in noise control is a problem of *sound insulation*—the reduction of noise passing through walls, floors and ceilings. *Sound absorption* requires only surface treatments, such as acoustic tiles, either nailed to furring strips or applied with mastic. Sound insulation usually involves basic structural procedures (as shown in the drawings below). Acoustical ceiling tiles should be installed at the time of construction to avoid the extra cost of a double ceiling finish. Sound-insulating walls and floors, on the other hand, are integral parts of the building.

There are a few other cures for noise within the house.

TABLE I: ENVIRONMENTAL FACTORS

community

1. Zoning regulations against noise-producing, nonresidential uses of your land.
2. Adequate distance from shopping centers, railroads, truck routes and super highways. Sufficient distance so that noise produced by these elements will be almost indistinguishable from the background noise level.
3. Avoidance of airports and regular air lanes.

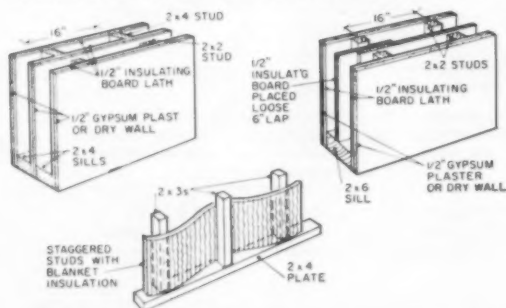
site

1. Location on a street with a minimum of through traffic, a cul-de-sac being preferable.
2. Reasonable distance from noise-producing community buildings such as schools, hospitals, fire houses, churches.
3. Restrictions in the zoning or deed of sale making it impossible for homes to be built too close to existing houses.

location

1. Suitable distance from street to avoid street noises.
2. Orientation of house so that existing land contours and any plantings will serve as acoustical barriers.
3. Safe distance from possible noises at rear of lot. If possible plan protection from play yards and workshops.
4. When necessary, planning for outdoor acoustical barriers between the house and noise sources. Brick or stone walls, solid-wood fences, earth embankments, plantings help.

TABLE III: WALL CONSTRUCTION FLOOR AND CEILING CONSTRUCTION



Noise-producing rooms, particularly baths and utility rooms, should be provided with sound-proof doors and efficient sound-insulating walls and floors.

In houses, especially two-story structures, the problem of impact noise is often of considerable importance. Choice of floor coverings will help in reduction of impact noise.

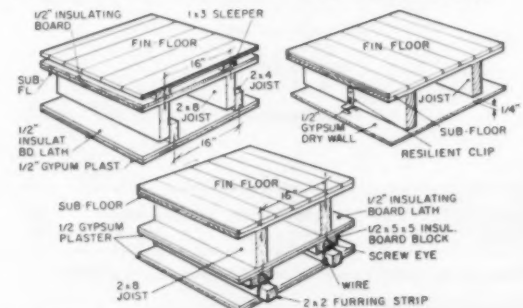
Reduction of vibration-noise transmission is often a problem in houses with warm-air furnaces, year-round air conditioners, and various types of kitchen and laundry appliances, which are fastened to the floor. Special felt, cork, or rubber mounts are available. These can greatly reduce this type of impact noise transmission.

To reduce vibration noise through duct systems it is possible to use insulating duct liners or acoustical filters. But the best practice is to avoid the need for such treatments by specifying tight and rattle-proof ductwork and quiet-operating fans or blowers.

Plumbing noises can be annoying and precautions should be taken to minimize these sounds as much as possible. The worst noise is usually that from the toilet. But quiet-flushing, whirlpool-type equipment can be purchased at only a slightly higher cost. Drain lines should be isolated from the structure—free standing—or should be insulated with felt or some other form of insulation.

TABLE II: HOUSE PLANNING FACTORS

1. Windowless wall or garage or both located as sound barrier against the greatest source of noise (street, neighbors, shopping center, etc.).
2. Separation of quiet rooms from noise-producing rooms by distance: bedrooms away from living, food preparation, and utility rooms; studies isolated from play areas, hobby rooms, party rooms, workshops, etc.; places for quiet conversation protected from general living area by separation or by placing in an alcove off the main living room, etc.
3. Placement of bathrooms, hallways, utility rooms, and other usually quiet areas to serve as sound barriers between various quiet rooms and the noise-producing areas. Placement of fireplace and other interior masonry walls to serve the same purpose.
4. Insulation against sound transmission between bedrooms by closets built against regular walls. Avoidance of "closet walls" which have only a thin plywood or fiberboard backing as the barrier between two rooms.
5. Inclusion in plan and specifications for noise-producing rooms of adequate sound-absorbing treatment, either by design of furnishings or specification of acoustical materials, or both. This sound-planning is particularly important in moderate-sized homes with open kitchens, combined living-dining room areas, and general "family rooms," and also in children's playrooms and adult workshops.





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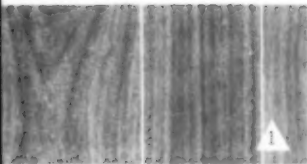


ADIRONDACK BIRCH

New finishes

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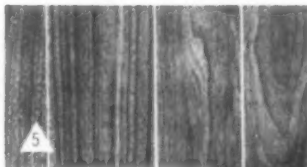
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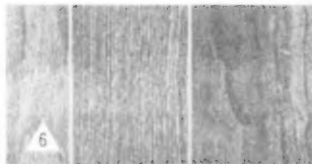
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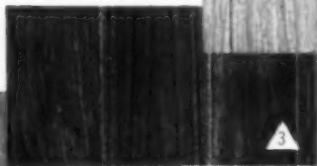
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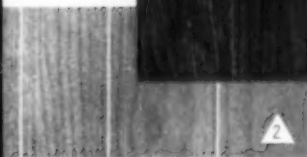
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3



7



2



8

- 1 Rock Maple
- 2 Ranch Oak
- 3 English Walnut
- 4 Antique Cherry

- 5 Salem Cherry
- 6 Mojave Oak
- 7 Williamsburg Cherry
- 8 Swiss Walnut



The all-new Poly-Clad Plywall Bi-fold Door . . . Now! Plywall flair in bi-fold doors! Unusual quality and beauty—unusually economical and profitable. No jambs or trim necessary—designed for floor to ceiling openings. No finishing or painting—faces are prefinished and Poly-Clad protected. Back-sealed and edge-banded to prevent warpage.

Easy to install—ready to go right up! Complete package includes top-quality hardware. Available in beautiful Rock Maple wood-grain finish. 8' high, in widths for 4', 5' and 6' openings.

New fashions

A DISTINCT DIFFERENCE IN DOORS!

Plywall brings new flair to interiors with High-Pressure Laminex doors. Distinctive! Economical! Wood-grain Poly-Clad finishes add more beauty, more value—without extra cost. Prefinished, ready to hang. Available in rich Rock Maple or English Walnut Poly-Clad finishes. Protected to resist mars, scuffs, stains. Guaranteed against fading—*in writing*.

Match your walls and doors! High-Pressure Laminex doors can be ordered in wood-grain finishes to match Poly-Clad Plywall paneling.

Doors are available in standard heights and thicknesses, with a wide selection of widths.





Now you can offer home buyers the option of wood-panelling accents—in bedroom, dining room, family room or den—at little or no cost to you. Plywall's new Wainscot Package is perfect for small paneling jobs. Adds a quality "plus" to your sales story.

You save money on materials and labor. No cutting waste. No special finishing. The Wainscot Package is complete, with 3 Poly-Clad Plywall prefinished wood panels, $\frac{1}{16}$ " x 39" high x 48" wide, 2 cap and 2 base matching moldings, 6'1" long (packaged separately). Available in all twelve Poly-Clad finishes. Easy to install. Stays beautiful without bother, for the life of the installation.

New ideas

TO INFLUENCE HOME BUYERS



matchless beauty— with matching moldings

Plywall accents the quality look with matching moldings. Prefinished and Poly-Clad protected for easy, time-saving application. Ready to go up—no finishing necessary. Moldings are available in ten styles and twelve finishes to match Poly-Clad Plywall paneling. Perfect for any room decor—paneled, painted or papered.

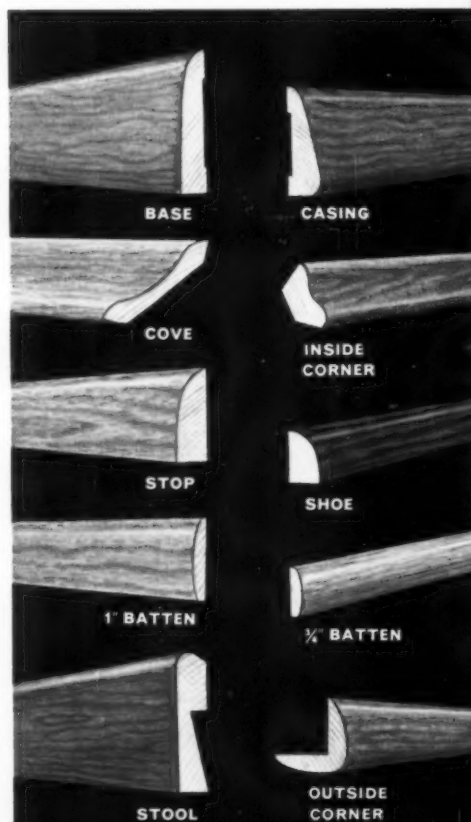
★ ★ ★

Whatever your paneling needs, Plywall adds the right flair, the right influence—at half the cost of comparable beauty! See the complete line of Poly-Clad Plywall prefinished products at your dealer's today!

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Alternating patterns in the grain of the parquet floor highlight this dining area and blend smoothly with the random-width paneling of the walls. Paneled ceilings, like this one, tend to heighten the friendly atmosphere.

In dining areas, wood adds warmth and dignity

WOOD sells the rooms that sell the house



Sometimes unadorned simplicity shows wood's beauty best. Here, the uninterrupted surfaces create a clean, spacious effect. A concave ceiling, supported by laminated beams, lends oriental charm.

Prospective home-buyers have a habit of taking a long, close look at dining areas. Theirs will have to look elegant yet casual . . . leisurely yet distinctive. Your best solution to their desires lies in the use of wood. Nothing in the world makes dining areas more desirable than wood. The serene beauty of paneled walls . . . the warm sheen of strip flooring . . . the homey quality of a beamed ceiling . . . any or all of the uses of wood can change prospects who just bide their time into prospects who make you a bid.

In the March 17th issue of LIFE, a full-page, full-color NLMA advertisement featured the uses of wood in dining areas. Millions of people—your prospects among them—saw the ad. They will be looking for wood in the dining areas you show them. For more information on better homes of wood, write:

NATIONAL LUMBER MANUFACTURERS ASSOCIATION
Wood Information Center, 1319 18th St., N.W., Washington 6, D. C.

nlma



Built of **WOOD** *means built to sell*



Large windows with frames of wood give this dining area a feeling of airiness. Walls are paneled with hardwood plywood. Beautiful floors—pegged in this case—generally make a strong impression on sales prospects.

BRAND NAMES DIRECTORY

(Continued from page 206)

PLASTIC-ARMOR Permagile
PLASTIC CONGOWALL
 Congoleum-Nairn Inc
PLASTIC RESIN GLUE Borden
 Chemical Co D V Borden Co
PLASTICO Allied Chemical
PLASTICO Douglas & Sturgess
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PLASTOID Plastic Products Co
PLASTOLITE Celotex Corp
PLAX Lowe Bros
PLAX-COTE Lowe Bros
PLEXCOAT Plextone Corp
PLEXIGLAS Rohm & Haas Co
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PREST-O-MATIC Clark Door
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 Asbestos Product Co
PRESTO-PATCH Savogran Co

PRESTO-SEAL Kaul Clay Co
PRESTO-SET United States
 Plywood Corp
PRIDE Johnson's Wax
PRIMAFIL Pratt & Lambert Inc
PRIME-FLOW Goulds Pumps
PRIME-MOVER Prime Mover
PRINCESS Aerona Mfg Co
PRISMALUME Holophane Co
PRO-TINT Rockcote Paint Co
PROFI-MATIC Hudson H D
PROGRESS Progress Mfg Co
PROJECT-O-WIN Arnold Altx
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 Meyers Inc
PROSLATE Bird & Son Inc
PROTECTUB Protectub Inc
PROTEKWOOD United States
 Plywood Corp
PROTO TOOLS Proto Tool Co
PRY-LITE Emerson-Pryne Co
PRYMALL Mobile Paint Mfg Co
PRYME-SHAKES Weatherbest
PRYME-SHAKES FYNAL
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QUALITYBILT Farley &
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QUIK-SET Moore Goodloe E Inc
QUIK-SPRAY Sheffield Bronze
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QUIKI Ideal Brass Works Inc
QUILT-LOK Kaiser Gypsum Co
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R-V LITE Arvey Corp
R-V-TEX Arvey Corp
RACINE Racine Hydraulics &
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RADIANT McQuay Inc
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RANCHWOOD Southwood Corp
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RAY O LITE Ray-O-Lite Corp
RAY VEC Electrend Products
RAYDIANT Weil-McLain Co
REASON Tremco Mfg Co
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READY-CUT Eveready Briksaw
READY HUNG DOORS Ready
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REAL SEAL Dad & Lad Co
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RECESSO Lawler Automatic
RED BRAND Keystone Steel
RED CENTER Simonds Saw
RED DEVIL Pecora Inc
RED END Luffkin Rule Co
RED END Simonds Saw & Steel
RED FOOT Roe Justus & Sons
RED HEAD Phillips Drill Co
RED-I-CUT Carborundum Co
RED-I-POST Sawhill Tubular
RED LABEL Johnson's Wax
RED STRIPE Pittsburgh Plate
RED TANG Simonds Saw & Steel
RED TOP Keystone Steel
RED TOP United States Gypsum
RED WING Pittsburgh Plate
REDUCIT O'Brien Corp
REFLECT-O-RAY Appleton
 Coated Paper Co
REFLECTASHIELD
 American Asbestos Product Co
REFRACT-O-CRETE
 Acme Brick Co
REFRIG-A-BAR Acme National
REFRIGERATED-KOOLER-
AIRE US Air Conditioning
REGAL Athens Stove Works I C
REGAL Johns-Manville Corp
REGAL DRESSATORY
 Regal Laminates Inc
REGULUX Regulux Sash
REHCO Chicago Spring Hinge
REHCO Rehco Corp
RELIABLE Allith-Prouty Inc
RELIABLE Richbilt Mfg Co
RELY-ON Dap Inc
REMCON Remcon Div
REMINGTON Remington
 Alum Window Corp
REMOVIT Farley & Loetscher
RESINIZED SPEED-GRITS
 Behr-Manning Co
RESURFO Reardon Co
REV MASONRY Marietta Paint
REV-A-SHELF Lake Drive
 Products Co Inc
REV-FLO Sequoia Mfg Co
REVALON Revere Copper
REVALUM Revere Copper
REVO-FILE Mosler Safe Co
REVOLVO Frick-Gallagher
REX Air Controls Inc
REX Chain Belt Co
REX Cleveland Heater Co
REXALUM Consolidated
 General Products Inc
REXGLAS Cleveland Heater Co
REXON Coddington E D Mfg
REZO Paine Lumber Co Ltd
REZO-FOLD Paine Lumber Co
RHINO Bridgeport Hardware
RHINO Pecora Inc
RIBAC Harris Mfg Co
RIBFORM Inland Steel Prods
RICHBEAD Richkraft Co
RICHDUCTS Richkraft Co
RICHFLEX Richkraft Co
RICHKRAFT Richkraft Co

RICHLITE Richkraft Co
RICHMOND Miller Co
RICHTUBES Richkraft Co
RICHVOIDS Richkraft Co
RID-JID Clark J R Co
RIDGEGROOVE Masonite Corp
RIDGELINE Masonite Corp
RIDGOLATOR Klauer Mfg Co
RIGID BAK-R-FORM Alisco
RIGID BEAD
 Inland Steel Products Co
RIGID-FRAME
 Inland Steel Products Co
RIGID-TEX METAL
 Rigidized Metals Corp
RIMCO Rock Island Millwork
RIMCO BAY Rock Island
RIMCO CASEMENT
 Rock Island
RIMCO SIX-TEN Rock Island
RIMCO SLIDE Rock Island
RIMCO VENT AND VIEW
 Rock Island Millwork Co
RING BARB Hillwood Mfg Co
RING-TITE Johns-Manville
RIPPLE-FIN-COILS McQuay
RIPPLEWOOD Georgia Pacific
RIST-O-KRAFT Acorn Mfg Co
RITE-ON-BLACK
 Sapolin Paints Inc
RITE-ON-GREEN
 Sapolin Paints Inc
RITWAY Beauty-Dor Inc
RIVIERA General Bathroom
RIW AIRTOX Toch Bros
RIW EPO-TOX Toch Bros
RIW FLINTOX Toch Bros
RIW IRINTOX Toch Bros
RIW MARINE CEMENT
 Toch Bros
RIW PLUGALEAK Toch Bros
RIW RESISTOX Toch Bros
RIW ROCKTOP Toch Bros
RIW SUPER TOXLOXPOR
 Toch Bros
RIW TORCOMIX Toch Bros
RIW TOXEMENT Toch Bros
RIW TOXKURE Toch Bros
RIW 232 Toch Bros
RO-WAY Rowe Mfg Co
ROBBINS-TILE Robbins Floor
ROBIN HOOD Meridian
 Wood Prods Co
ROCK CORK Johns-Manville
ROCK-SHAKES Johns-Manville
ROCK-TEX Rockcote Paint Co
ROCKER-GLO Pass & Seymour
ROCKET Round, David & Son
ROCKET Sunbeam Plastics
ROCKET 1000 Grant Pulley
ROCKET 6000 Grant Pulley
ROCKLATH US Gypsum Co
ROCKY CREEK Smith W T
ROCOF Rome-Turney Radiator
ROE WHITE LINE Roe Justus
ROILINE Waukesha Motor Co
ROL THREAD Hillwood Mfg
ROL-TOP Kinnear Mfg Co
ROLL-AWAY Rudiger-Lang Co
ROLL-EEZ Junior-Pro Products
ROLL-OR-WHEEL
 Buschman E W Co Inc
ROLLAWAY Frantz Mfg Co
ROLY-DOOR Morrison Steel
 Products Inc
ROMAN BRONZE Revere
 Copper & Brass Inc
ROMANESQUE Lustrro Tile
ROMANS Watsontown Brick
ROMANY-SPARTAN
 US Ceramic Tile Co
ROMAR Romar Filter Corp
ROMEX General Cable Corp
ROMEX-UF General Cable
ROOF DECK Granco Steel
ROOFINSUL Johns-Manville
ROOFMASTER Carey Philip
ROOFMATE Dow Chemical Co
ROOM MATES York Wall
ROOMAIRE Young Radiator
ROSEMAN TILLER RAKE
 Roseman Tractor Equipment
ROSEMOLD Midland Brick
ROT-STOP Rockcote Paint Co
ROTO-GLO Pass & Seymour
ROTO-TROWEL Stowe Mfg
ROTWOOD Parkwood
 Laminates Inc
ROUNDEL Mondial United
ROYAL Alumatic Corp
 (Continued on page 276)



New Kentile "Constellation" Vinyl Asbestos Tile in Orion Ivory. Here, accented by burnt orange feature strips and tile in "Designer Palette" Solid Vinyl. Black cabinet base is Vinyl KenCove®.

New Kentile "Constellation"... Sparkling Metallics in Low-Cost Vinyl Tile.

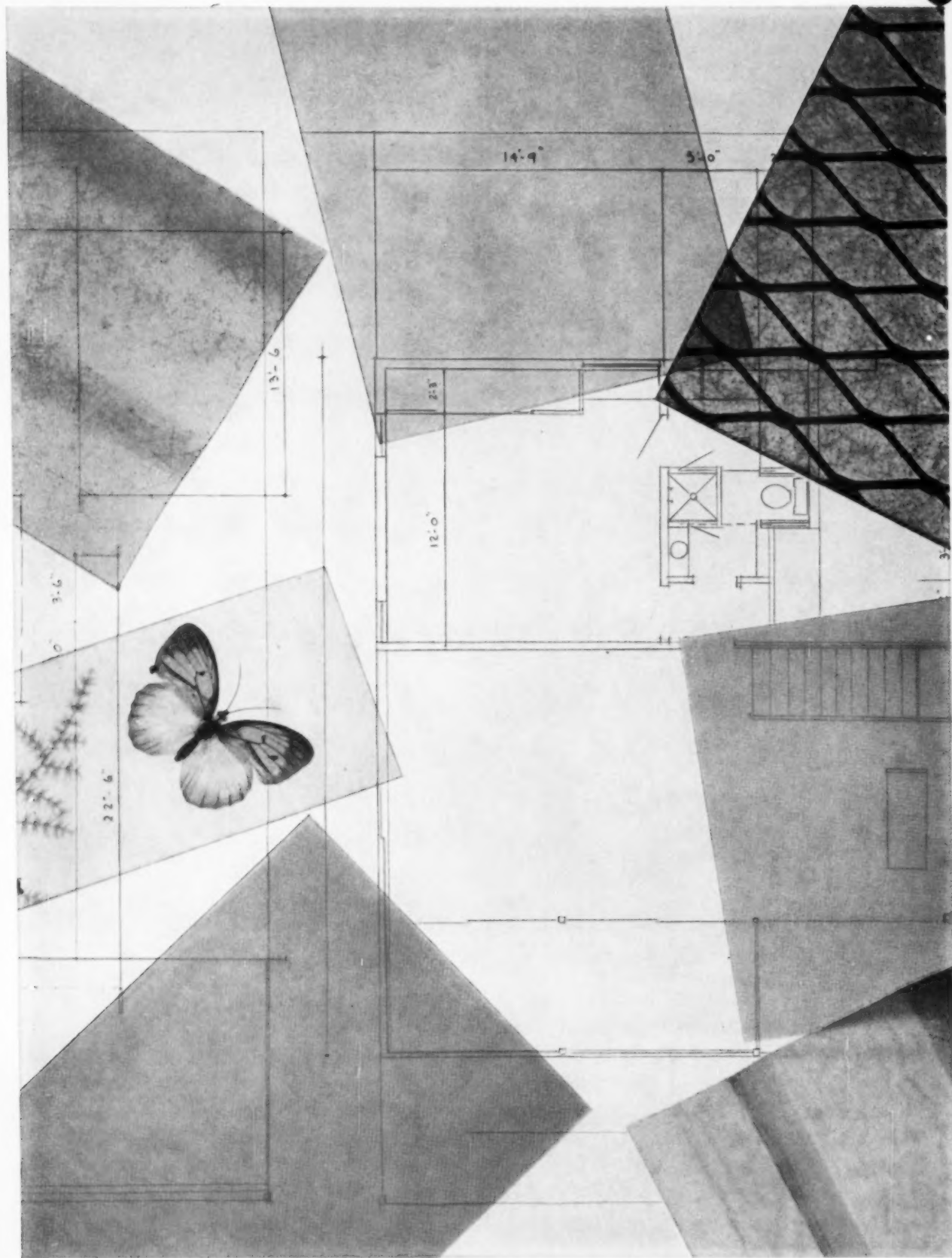
Metallic-colored chips embedded in translucent vinyl add dramatic beauty to this Kentile Vinyl Asbestos Tile. Using top-quality Kentile Floors in your homes is a sure way to build confidence . . . to assure prospects that *all* materials and construction are the finest. And you're sure of "no-trouble" flooring that eliminates costly call-backs . . . plus the advantage of creating distinctive flooring designs in your model homes. Speak to your flooring contractor today.

YOU CAN BENEFIT FROM BIGGEST ADVERTISING IN THE TILE BUSINESS!

Kentile Floors' outstanding consumer acceptance comes from steady advertising in HOUSE BEAUTIFUL, THE SATURDAY EVENING POST, LOOK, HOUSE & GARDEN plus 12 other leading National publications, as well as the Magazine Sections of 324 Newspapers.

KENTILE FLOORS

There's a Kentile® Floor for every home—in every price range. Over 200 decorator colors in 5 types of resilient tile.



a good start deserves
the finishing touch—

ALSYNITE

Plan to use the trend-setting translucent panel with the name your prospects know!

Your starts deserve the best — and you'll find that translucent Alsynite can be the effective touch that makes the most of any plan. Alsynite is the translucent panel of light and beauty that has created an entire new trend in contemporary building. Its complete versatility, handling ease and great inherent strength permit you to use it freely indoors and out to achieve individual effects.

Since Alsynite transmits only soft, glare-free light, it provides illumination with privacy. Reinforced with millions of glass fibers, Alsynite combines great strength with light weight — is absolutely shatterproof, won't warp or chip.

Moreover, Alsynite is the premium quality translucent panel you can rely on. It is backed by its own reputation and the world-wide resources and reputation of RCI, one of the great names in chemicals. An additional bonus to you: Alsynite is the name your prospects will recognize, for its story is being put before the consumer through the biggest advertising promotion in the history of the industry.

Alsynite is available in a variety of colors, sizes and textures in corrugations or flat panels. Talk over your requirements with your dealer, listed in the Yellow Pages under plastic products. Or for free literature or promotional aids, write Alsynite, San Diego 9, California, Dept. AB-461.

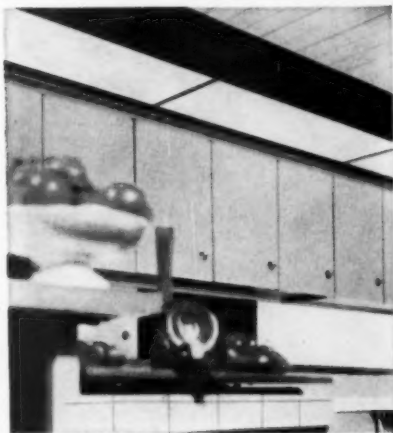
ALSYNITE
TRANSLUCENT PANELS



A DIVISION OF REICHOLD CHEMICALS, INC.



Translucent Alsynite transmits only diffused glare-free light. Provides the ideal solution for skylighting, side-lighting, illuminated panels, contemporary interior dividers and partitions.

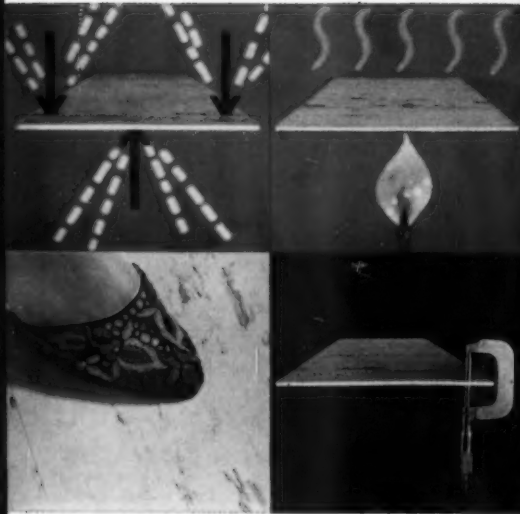


Shatterproof Alsynite won't warp, chip or peel. Performs beautifully in the kitchen as light ceilings, sliding doors. Perfect, too, as code-approved shower doors or tub enclosures.



Strong and exceptionally lightweight, Alsynite requires a minimum of structural supports. Can be used in fencing, patio and carport covers to add sales appeal to the finished structure.

Announcing a breakthrough that will affect the entire building



world! Ruberoid Polymerite™ Floor Tile...A New Concept in Flooring

**GREASE RESISTANT...STAIN RESISTANT...FLAME RETARDANT
...UP TO TWICE THE WEAR...ALL AT A REMARKABLY LOW COST!**

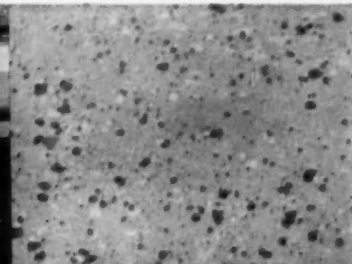
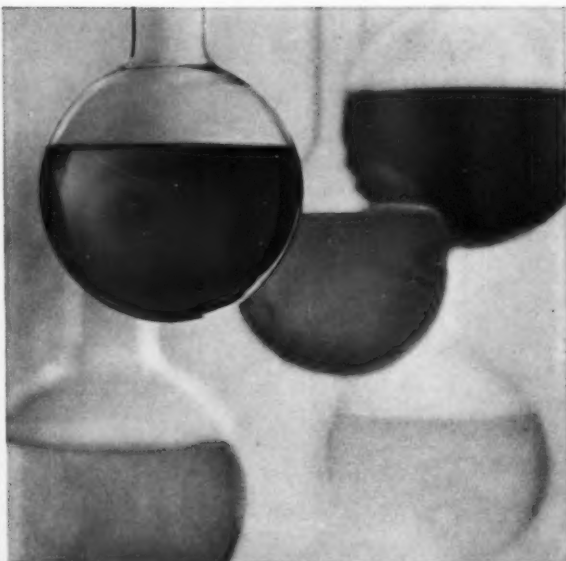
From an intensive program of research and development, Ruberoid proceeds to change all existing concepts of flooring with a tile years ahead of its time. Ruberoid Polymerite Floor Tile has the characteristics of the finest floor tile—all at a remarkably low cost!

This astonishingly low-cost, easy-maintenance tile is grease-resistant, stain-resistant, flame-retardant—has optimum flexibility, maximum uniformity, gauge control and appears in 32 vibrantly alive colors.

NATIONAL ADVERTISING TO BACK NEW RUBEROID TILE

Full page, 4-color advertisements will appear in national publications supporting Ruberoid Polymerite Floor Tile. In addition, colorful displays and promotional literature to help builders are also available.

Ruberoid Polymerite Floor Tile finally opens the door to superlative flooring in all your building plans. Be sure that you get the specifications on Ruberoid Polymerite Floor Tile right away. Your Representative will be happy to furnish them. Or, write today.



*Ruberoid Polymerite Tile conforms to Fed. Spec. SS-T-306b for Asphalt Tile and SS-T-307, Grease Resistant, Asphalt Tile; and the flame retardant qualities of Military Specification MIL-T-18830 (Ships).

RUBEROID®
FLOOR TILE

The RUBEROID Co., New York 36, N. Y.

"For higher quality
at lower cost—"

HOMASOTE PRODUCTS

—cut building time

—cut building costs



HOMASOTE DRY WALL CONSTRUCTION

► Many times quieter than
plaster or gypsum!

—with a decibel rating of 0.23, at a pitch of 512,
Homasote Dry Wall (the pioneer) makes your
home quiet, healthful, peaceful and free from
embarrassing noises.

► Many times faster!

With Homasote, you cover 112 square feet
(one whole wall) with only one 8' x 14' Big
Sheet — instead of four "ordinary material"
pieces. Save time, save money!

► Much more economical!

With Homasote, you get insulating, moisture-
and air-resisting walls that can be easily
papered or painted. Cut labor costs, materials
and problems. Simple, quick and easy to work
with under all conditions.

Do not apply aluminum directly to Homasote.

all this — with 8' x 12' or 8' x 14'
HOMASOTE BIG SHEETS!

HOMASOTE COMPANY, TRENTON 3, N. J.



HOMASOTE BIG SHEETS

- Reduce heating and air conditioning costs
- Create a calm and comfortable atmosphere
- Improve your stereo and TV sonics and dampness
- Protect you from drafts and dampness
- Guard your health

Ask your lumber dealer for free
Homasote Handbook. Its 72 pages
tell you how—and you save money
doing it.



MAXIMUM SPANS, FLOOR JOISTS, 16" o.c.		DOUGLAS FIR—CONSTRUCTION GRADE	
30 lb. Live Load	10'-4"	40 lb. Live Load	9'-8"
2x6	10'-4"		13'-0"
2x8	14'-0"		16'-2"
2x10	17'-0"		18'-8"
2x12	19'-8"		

FORM 234

DRY-WALL CONSTRUCTION—

*pioneered by Homasote — saves you
\$297 or more on your interior walls*

We have been pioneering in Dry-Wall Construction since 1916. It is now acknowledged that Homasote is the finest Dry-Wall material—and that the Big Sheets (up to 8' x 14') save you time and money, eliminate all problems and extra costs arising from taping, nail-popping, moldings and interior trim.

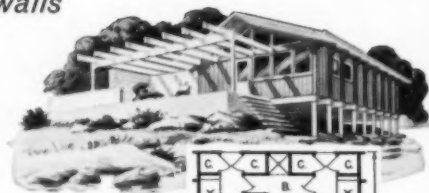
The major facts about each Homasote Product are presented in briefest terms—on a colorful Nutshell Card (as pictured above). Handy reference tables—such as maximum spans for floor joists—are included. Ask your Lumber Dealer—or write us—for a set of these cards. Each shows you where you can save money at some point of construction—and still give the home owner higher quality, finer appearance and more lasting satisfaction. And—be sure you always have available a copy of the latest edition of the 72-page Homasote Handbook. Kindly address Department D-3.

Ask your Lumber Dealer
about Homasote P.B. Components

HOMASOTE COMPANY

TRENTON 3, NEW JERSEY

Homasote of Canada, Ltd. • 224 Merton Street • Toronto 7, Ontario



VACATION
HOUSE
#702
(with GVS
exterior)



TO WIDEN YOUR MARKET...get the full facts
about Vacation and Small Homes, Farm and Utility
Buildings constructed by the new Versitruss-Panel
System. Also—ask about Homasote's Vacation and
and Small Home Financing Plan.

CRAFTWALL[®]

*In the masculine mood! A dramatic den in genuine wood Craftwall paneling. Its beauty is guaranteed for the life of the home. Quality is the sales-maker in today's home market. And nothing says quality faster than genuine wood Craftwall paneling. This friendly room, featured in *Better Homes and Gardens*, is one beautiful example. Craftwall defies imitation. Its hand-rubbed look is protected by an exclusive finish that resists scuffs and stains, cleans with a damp cloth. No waxing needed. And Craftwall's beauty is guaranteed for life, in writing. Coupon brings details and complete illustrated brochure.*



*Oak shown above. Choose from 9 different woods. 7' to 12' lengths.
You can offer Fire Retardant Craftwall, too.*



Weyerhaeuser Company
Roddis Division • Marshfield, Wis.

Weyerhaeuser Company • Roddis Division
Dept. AB-461, Marshfield, Wisconsin
Please send complete Craftwall
information for builders to

NAME _____

FIRM _____

ADDRESS _____

CITY _____ STATE _____



Plate No. 2002

Ceramaflex is available in 12 handsome random medley patterns to complement any decorating scheme. Shown above is 536 Livorno.

A new "sales" force in home building

**... ROMANY-SPARTAN
CERAMIC TILE**

Builders have long recognized the sales stimulus of ceramic tile in bath and kitchen. Now, with Ceramaflex® resilient ceramic flooring, buyer preference for ceramic tile becomes an even more valuable sales tool. Ceramaflex offers all the advantages of ceramic tile, yet it's quiet and comfortable underfoot. It's ideal for kitchen, bath, family room, utility room or entrance hall. Install it in your next model home—watch it help turn "shoppers" into "buyers". Your ceramic tile contractor or nearby Romany-Spartan distributor can provide more information and samples of the entire Romany-Spartan line of quality wall and floor tile. United States Ceramic Tile Company, Dept. AB-14, Canton 2, Ohio.

Ceramaflex® is the exclusive product of United States Ceramic Tile Company

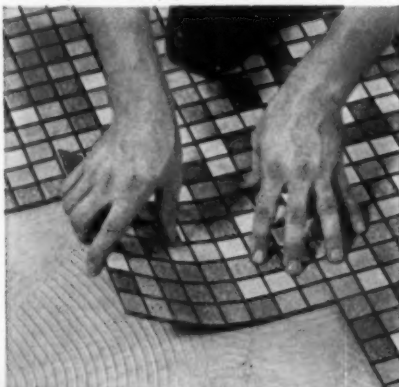
UNITED STATES CERAMIC TILE COMPANY

Plate No. 2008



Add just the right touch to walls, too, with Romany-Spartan glazed wall tile. There's a range of colors and sizes to suit every taste. Imaginative use of decorative Ceratile produced the unusual effect shown above.

Each 9" x 9" Ceramaflex tile is made up of 64 ceramic mosaics securely bonded in a pre-formed, flexible rubber grid. Installs quickly and easily on, above or below grade. Because it's pre-grouted, Ceramaflex is ready for use the instant it's laid.





6110

BEAUTIFUL MARLITE PANELING

... for modern wash-and-wear walls in any room



Fast installation. 1/4" thick tongued and grooved Random Planks are 16" by 8" . . . go up with simple clips over furring strips or existing walls.

From the basement recreation room to the attic bedroom, Marlite provides soilproof walls that need no painting or further protection — speed modernization and new construction.

Unlike many "finished" wall panels that dull with age and damage through use, Marlite's soilproof baked melamine finish shrugs off grease, stains, mars—even heat! Dirt just can't penetrate its hard,

dent-resistant surface. A once-over-lightly with a damp cloth keeps Marlite bright and new-looking for years. And Marlite's ease of installation over old or new walls saves time and work, assures a better finished job.

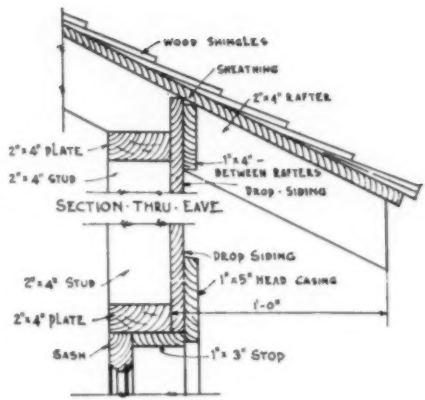
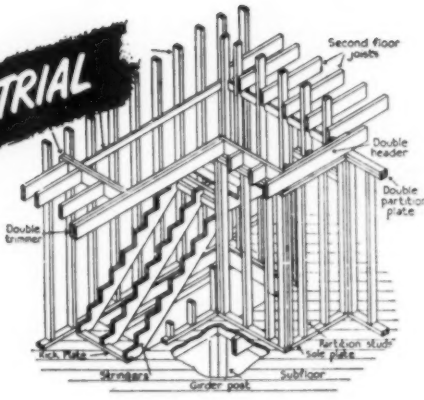
Get complete details from Sweet's File, Building Supply News Directory, or write Marlite Division of Masonite Corporation, Dover, Ohio.

Marlite®

plastic-finished paneling

ANOTHER QUALITY PRODUCT OF MASONITE® RESEARCH

NO RISK TRIAL



NEW !! 1961 Printing - Fifth Edition

HOUSE CONSTRUCTION DETAILS

Save Money and Time with these Latest Professional Methods

Here is an exact working guide on every detail of house construction from foundation to finish. Tells you dimensions, materials, processes, step-by-step working methods. Hundreds of scale drawings and photographs make every step easy to follow. Quick-reference index enables you to find instantly any construction detail on which you want modern, authoritative guidance. Can be used for alterations in a set of stock plans, for making additions or changes in a building,

or for complete construction of a dwelling. Conforms with modern practice and building regulations in all parts of the country. Gives you helpful ideas on how to build in accordance with latest developments in carpentry methods, materials, painting, heating and air conditioning, insulation and sound-reduction.

The guidance you get on even a single house construction detail can repay you a hundred times the small cost of this remarkable volume. Send for your copy today. Mail coupon below.

Every Step in House Construction Explained and Illustrated:

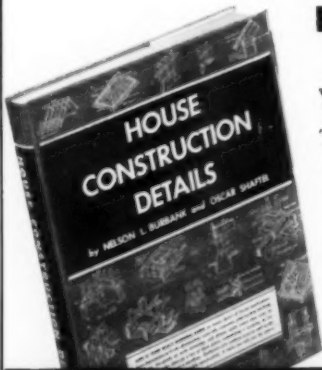
- Excavations • Footings and drainage • Foundation forms • Sills
- Girders • Joists • Sub-flooring • Exterior wall framing • Interior wall framing • Ceiling joists • Gable roof • Hip roof
- Gambrel roof • Dormers • Siding and shingling • Cornices
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- Interior walls finished in plaster, in plywood • Wall panels
- Mouldings for interior trim • Stair construction • Windows
- Sash details • Window framing details • Doors and door trim
- Hardware used in dwellings • Closets, shelves, built-in equipment
- Breakfast alcove • Sewing room • Flooring • Chimneys and fireplaces
- Mantels and seats • Outdoor fireplaces • Scaffolds
- Garages • Insulation • Arches and gates • Lattice porch, lattice trellis
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378 PAGES, SIZE 8 1/2 x 11, FULLY INDEXED, 2500 ILLUSTRATIONS.

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Table of Contents: House Design, Excavations—Foundation Forms—Foundations, Sills—Girders—Joists—Sub-Flooring, Outside Wall Construction, Inside Walls—Wall Sheathing—Ceiling Joists, Roof Construction—Bay Construction—Roofing, Cornices and Porches, Exterior Wall Covering, Interior Wall Covering—Interior Trim, Stair Construction, Windows, Doors, Hardware, Closets—Shelves—Built-In Equipment, Finished Flooring, Chimneys and Fireplaces, Scaffolds and Hoists, Garages and Carports, Insulation, Heating—Air Conditioning, Painting and Finishing, Modern Building Material, Prefabrication, Construction Detail Plates, Index.

More than 150,000 satisfied users!



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FULL REFUND TRIAL OFFER—

You Take No Risk

This helpful book is yours for only \$5.95. If not convinced that it can give you clear, professional guidance on every building detail— simply return the book within 10 days for FULL REFUND. Mail the coupon below.

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30 Church Street, New York 7, N.Y.

Send me "House Construction Details" with the understanding that if I am not completely satisfied I can return it in ten days for FULL REFUND.

Enclosed is \$5.95 check money order

Name

Address

City Zone State

**THE NEWEST NAME
IN FINE KITCHEN
CABINETS:**

Sculptured Spicewood*

CRAFTED BY

i-XL

Custom-crafted kitchen cabinets—with the beauty and the workmanship usually found only in fine furniture. See how Sculptured Spicewood doors and drawers are fully paneled. No applied moldings are used. And, notice how the lustrous baked lacquer finish deepens and enriches the sculptured beauty. This is the kind of kitchen your discriminating customers have been asking for—and now you can supply them. The I-XL Furniture Co., Inc., Goshen, Indiana.

*Trademark



The unmistakable look of luxury.

Made even more desirable by thoughtful "housewife-approved" conveniences! Sculptured Spicewood has a beauty that works for delightful living. Full paneling is an immediately identifiable quality feature. No applied moldings are used. Instead, solid core doors and drawers are fully paneled and framed by expert cabinetmakers. The lustrous lacquer finish stays rich and beautiful with a minimum of care. Behind each door and in each drawer are many thoughtful and unique conveniences that will make a homemaker's hours in the kitchen easier, more pleasant and much more satisfying.



Adjustable shelves—an important feature that sells women on Sculptured Spicewood wall cabinets. Shelves can be moved up or down, in seconds and locked in place firmly.



Pull-out shelves are standard equipment in all Sculptured Spicewood base cabinets. Shelves slide out and back smoothly and easily. Another "housewife-approved" convenience.



Sta-Close® drawers, I-XL trademarked feature. Closes drawers quietly and firmly, then keeps them neatly shut. It completely eliminates the nuisance of partly-closed drawers.

*Patent applied for.



Sculptured Spicewood

Glowing beauty for family and dining rooms!

The elegance that Sculptured Spicewood brings to the kitchen can be extended beautifully and naturally to family and dining rooms and to other areas of the house. Standard cabinets can be grouped to form lovely built-in or free-standing arrangements. Many attractive furniture groupings are available, including bars, hutches and sideboards.





Added touches of elegance!

The beauty and versatility of Sculptured Spicewood is clearly demonstrated by this smart foyer setting. Standard cabinets are arranged in sequence and highlighted with a ceramic top against wood and fabric panelling. The soft gleam of the baked and hand rubbed lacquer finish provides the mellow richness of fine furniture. Sculptured Spicewood units offer limitless possibilities for unusual treatments throughout the home.



I-XL FURNITURE CO., INC.
Goshen, Indiana

Sculptured Spicewood, I-XL Furniture Co., Inc., Dept. 618, Goshen, Indiana
Gentlemen: You're right, I think I should know more about Sculptured Spicewood.
 Please have salesman call. Please send complete information and specifications on Sculptured Spicewood.

NAME _____
COMPANY NAME _____
ADDRESS _____
CITY _____ ZONE _____ STATE _____



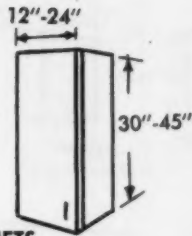
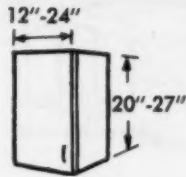
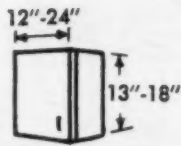
Your prospects are being pre-sold on Sculptured Spicewood now!

Sculptured Spicewood is being introduced in full-color ads in **HOUSE & GARDEN**, **HOUSE BEAUTIFUL**, and **HOUSE BEAUTIFUL'S BUILDING MANUAL** and **HOUSE & GARDEN'S BOOK OF BUILDING**. Profit from this promotion. For full information on Sculptured Spicewood, mail the coupon.

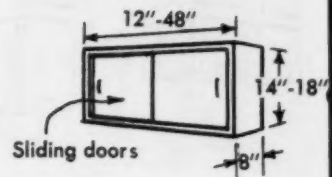
MILLWORK, CABINETS

Wood Kitchen Cabinet Standards

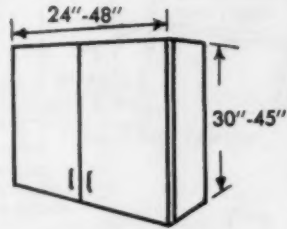
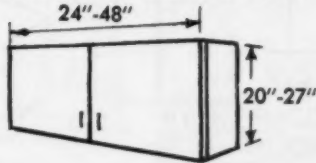
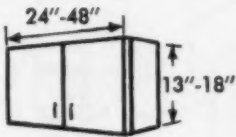
SINGLE-DOOR WALL CABINETS



MIDWAY UNIT



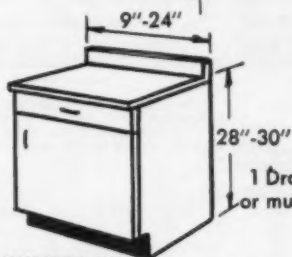
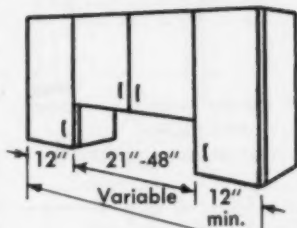
DOUBLE-DOOR WALL CABINETS



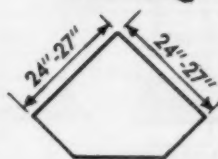
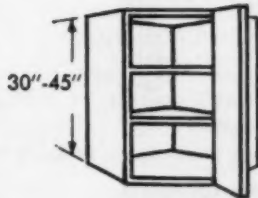
WALL FILLER



WALL-CABINET COMBINATIONS FOR USE ABOVE APPLIANCES



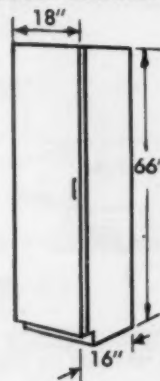
CORNER WALL CABINET



With solid or spin shelves

1 Drawer, 1 Door or multiple drawers

UTILITY OR BROOM CABINET



WALL-END SHELVES



180° Same height as wall cabinets



90°

LOW COUNTER OR LAVATORY UNITS



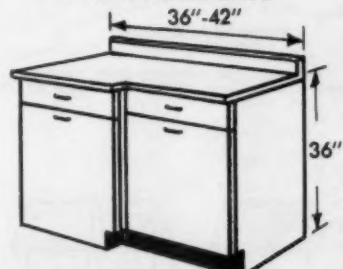
Single-Door Base with 1 drawer

BASE CABINETS



Double-Door Base with 1 drawer up to 24" 24"-48" has 2 drawers

BLIND CORNER BASE



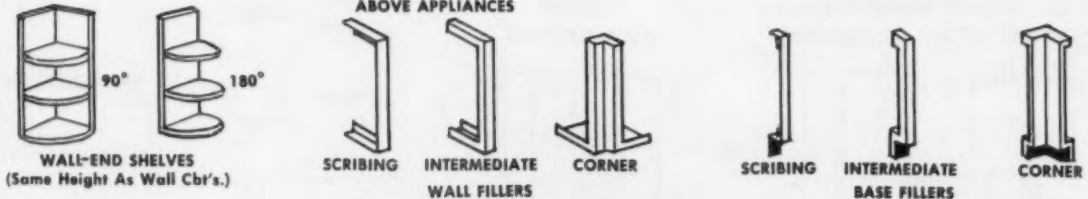
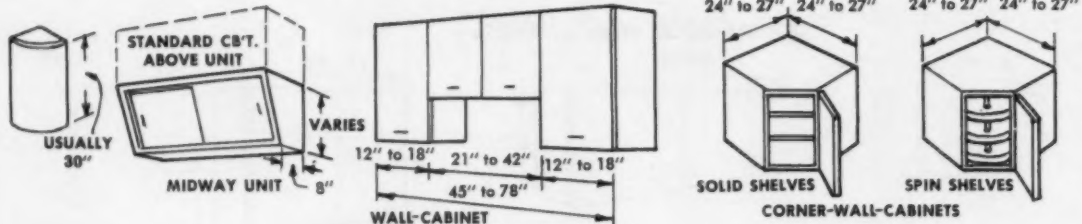
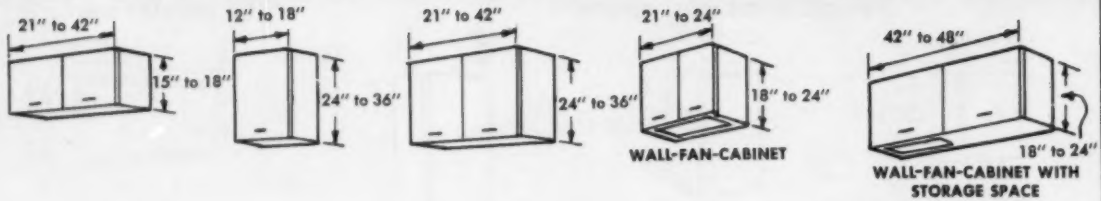
With or without spin shelves

Courtesy National Institute of Wood Kitchen Cabinets

Wood kitchen cabinets can be obtained in any 3" module between min. and max. dimensions shown.

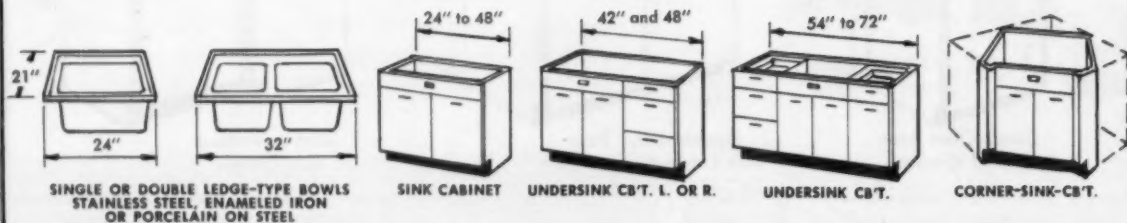
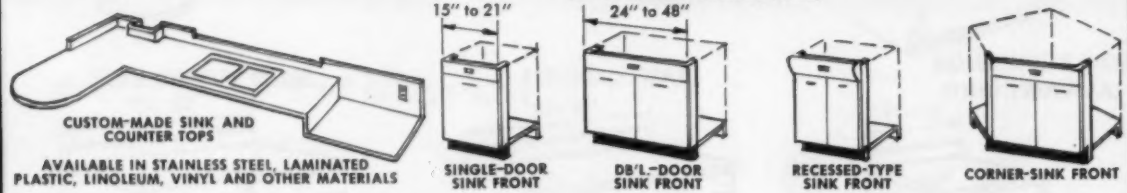
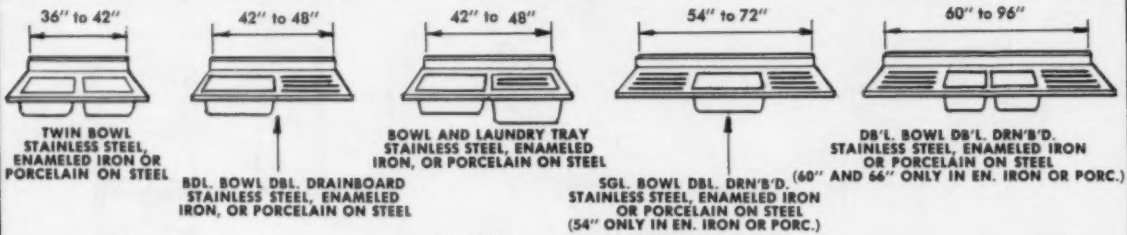
MILLWORK, CABINETS

Steel Kitchen Cabinet Standards



BOTH WALL AND BASE FILLERS RANGE IN WIDTH FROM 1" TO 9" IN VARIABLE HEIGHTS

WALL-CABINETS



SINKS AND UNDERSINK CABINETS

Courtesy Steel Kitchen Cabinet Manufacturers Assoc.

MILLWORK, CABINETS

Steel Kitchen Cabinet Standards

9" to 18" 21" to 42" 36" to 48" 15" to 24" VARIABLE

SINGLE DOOR BASE W/1-DRAWER **DBL. DOOR BASE W/1-DRAWER UP TO 30" 36" TO 42" HAS 2 DRAWERS** **CORNER BASE UNIT USUALLY REQUIRES FILLER. (As Shown)** **3-DRAWER BASE** **4-DRAWER BASE** **REVOLVING SHELVES**

CORNER BASE SWING SHELF UNIT USUALLY REQUIRES FILLER (As Shown) **CUTTING BOARD** **SIT DOWN TABLE** **CORNER SPIN SHELF BASE** **TABLE HEIGHT BASE** **CURVED END**

STANDARD BASE CABINETS

12" to 15" 15" to 18" 15" to 18" 21" 45"

TRAY CABINET **VEGETABLE STORAGE** **TILTING BIN** **MIXER CABINET** **PENINSULA CABINET (Can Be Mounted On Casters To Make Roving Unit)**

9" to 12" 12" to 15" 18" to 24" 24" to 48" 30" to 48"

HANDY UNIT **TOWEL DRYER** **2 BURNER UNIT WITH CUT-OUT IN PANEL** **2-2 BURNER UNITS WITH 2 CUT-OUTS IN PANEL** **1-3 OR 4 BURNER UNIT WITH OR WITHOUT CUT-OUT IN PANEL**

Courtesy Steel Kitchen Cabinet Manufacturers Assoc.

UTILITY **IMPLEMENT** **IMPLEMENT** **SINGLE OVEN** **DOUBLE OVEN** **BASE END SHELVES** **CUSTOM RANGE HOODS ANY SIZE IN COPPER, BRASS OR STAINLESS STEEL**

180° 90°

UTILITY CLOSETS AND OVEN CABINETS

15



Kitchen Kompact

PROUDLY INTRODUCES

new FRUITWOOD birch

- STYLISHLY DESIGNED • ELEGANTLY FINISHED
- ATTRACTIVELY PRICED

NOW! TWO
HANDSOME
FINISHES —
WARM TONE BIRCH
and
FRUITWOOD BIRCH

There are now two fine Kitchen Kompact finishes — new FRUITWOOD birch and the popular warmtone birch.

FRUITWOOD birch is a more subtle, more delicate finish — that still retains the expressive grain pattern of red birch. Fully inventoried, immediately available for shipment.

Both finishes uphold Kitchen Kompact's 24 year tradition of quality design and construction at attractive, competitive prices.

Write today for new literature and prices on Kitchen Kompact's new FRUITWOOD birch and the full KK line.



STOCKING DISTRIBUTORS IN MOST MAJOR CITIES
(OTHER CHOICE TERRITORIES ARE OPEN)



STILL THE "BEST BIRCH" LINE
Kitchen Kompact INC.

JEFFERSONVILLE, INDIANA



No Finer Kitchen Styling . . . at ANY Price

Beautiful kitchens help sell the home . . . and it's easy to feature eye-catching kitchens in your homes — without paying a custom price — when you use 'customized' Texboro cabinets. Texboro's years ahead styling combined with a variety of door styles and finishes in beautiful Ash, Birch, Mahogany and Walnut woods, easily solves the 'look-a-like' kitchen problem even in large projects.

Prospective buyers readily see the difference between these fine furniture type cabinets — with a special 'mar-

resisting' finish that is baked on at the factory to last the life of the home — and ordinary 'job-built enclosed cupboards' . . . that's why Texboro is often the big difference between prospects looking and actually buying.

Prompt job-site delivery to builders and kitchen designers West of the Mississippi — on a single kitchen or for several hundred kitchens.

Write today for free color literature and the name of your nearest Texboro factory representative.

Representatives in all principal cities West of the Mississippi

TEXBORO CABINET CORPORATION
Mineral Wells, Texas



DISTINCTIVE KITCHENS BY

Texboro



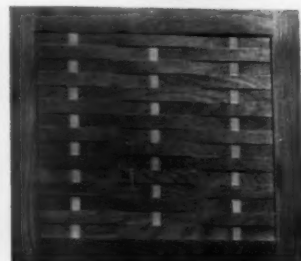
WOODLOUVE®



WOODMOULD



FLUSH



WOODWEAVE®

BEAUTIFUL



KITCHENS



designed to help you sell faster

You can sell them in the kitchen... with the kitchen... when you use beautiful pre-finished Boro Wood cabinets. These fine furniture quality cabinets immediately capture the attention and admiration of prospective buyers because they are *styled - built - and finished better* than ordinary job or mill built cabinets. This is the Boro Wood *quality* difference that sells prospects!

Boro Wood cabinets are available in modular or custom width units in a variety of door styles, eye-catching finishes and fine woods that offer maximum flexibility of individual kitchen design



...eliminating "look-a-like" kitchen problems — even in large projects. Best of all, factory-engineered Boro Wood cabinets, sink tops and accessories can be installed easily and economically — saving you time and money.

Prompt job-site delivery to builders and kitchen designers East of the Mississippi on a single kitchen or several hundred kitchens.

Write today for free color literature and the name of your nearest Boro Wood representative.

Offices in all principal cities East of the Mississippi.

BORO WOOD PRODUCTS CO., INC.
Bennettsville, South Carolina

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The Kitchen of Tomorrow! Plastic Faced Cabinets

with the "foreverness" of

CONSOWELD

LAMINATED
PLASTIC



**Consoweld Plastic Faced Cabinets add the modern touch
to your kitchen and bathroom**

***Check these advantages for new home construction
or remodeling programs***

- Comparable in price to quality finished wood cabinets
- No finishing delays, eliminates painting, staining or varnishing
- Permanent color and beauty
- Wipes clear with a damp cloth
- Ready for immediate use
- "The Quality Look That Sells".

98-B



Contact your preferred
plastic fabricator for fur-
ther information.



CONSOWELD CORPORATION Wisconsin Rapids, Wisconsin

NEW! ... the dramatic *all-purpose* color flexibility of

Autumn Breeze



Design patent pending

CONSOWELD LAMINATED PLASTIC

Here's the newest color idea in laminated plastic surfacing for kitchen counter tops, bathroom vanities, and wall areas.

Consoweld's "Autumn Breeze" pattern graciously harmonizes with the color scheme in your home. It's gloriously blendable . . . matching the color luxury of today's kitchen appliances, bathroom fixtures, draperies, curtains, towelings, walls, ceilings and floor coverings. That's the glamorous beauty of this fresh and totally new pattern for kitchen counter tops, bathroom vanities and walls.

Your dealer and fabricator has samples and free merchandising aids for the promotion of Consoweld's new exciting pattern "Autumn Breeze".

CONSOWELD CORPORATION, Wisconsin Rapids, Wisconsin

97-B



Consoweld Autumn Breeze is as durable as it is color-flexible; cannot be harmed by boiling water, alcohol, or fruit juices; wipes clean with a damp cloth.



Look under Plastics in the Yellow Pages of your Telephone directory.





"SHY-rikk"

BRONZEGLOW, BIRCH



As seen on THE PRICE IS RIGHT

Our large scale factory operation offers you • Mass production economies plus unlimited opportunities for custom kitchen designing • Carefully selected raw materials and scientifically engineered construction • Accuracy and smoothness in machining through the use of heavy production equipment • Uniform and complete sanding in preparation for finishing • A finishing procedure incorporating the latest application techniques including conveyORIZED oven-accelerated drying, which permits the use of the highest type of finishing materials applied with a maximum film thickness (durability of finish and hazard resistance are remarkable) • Constant inspection insuring consistently high quality • Instant delivery by our 59 warehouse distributors, along with all built-in appliances, and assistance in kitchen planning and installation.

*For the Most Beautiful
Kitchens of them all*



H. J. SCHEIRICH CO., LOUISVILLE 9, KY.



Classic

the kitchen that's
selling houses
in today's market



For many years, and especially in today's market, the fine-furniture craftsmanship, beauty of design and finish of Yorktowne Kitchens have proved to be powerful incentives in the selling of thousands of homes.

Now, in 1961, Yorktowne gives you *even greater* advantages with three complete lines . . . covering your entire price range and offering a range of finishes—Rose Champagne, Sanduran Walnut, and Natural Birch. In addition, Yorktowne Kitchens not only are unconditionally guaranteed, but are now backed by the *Good Housekeeping Seal of Approval*—a guarantee that your home buyer recognizes.

For kitchens with more proved house-selling incentives, be sure to see the full Yorktowne line for '61. Illustrated folders and detailed specification sheets await your inquiries. Write today.

All Yorktowne kitchens are offered in 150 different cabinet models in stock and ready for delivery from more than 60 warehouses—coast to coast. Products of Colonial Products Co., Dallastown, Pa.



"world's largest producer of fine wood kitchen cabinets"

HARDWARE, BUILDING SPECIALTIES

Wire Nail Estimating Data

Size and Kind of Material	1000 Feet Board Measure	Trade Name	Lbs. of Nails Required			Length of Nails	No. of Nails to Ea. Bearing
			12" Centers	16" Centers	24" Centers		
1 x 4 Boards and Shiplap.....		8d common	60	48	30	2½"	2
1 x 6 Boards and Shiplap.....		8d common	40	32	20	2½"	2
1 x 8 Boards and Shiplap.....		8d common	31	27	16	2½"	2
1 x 10 Boards and Shiplap.....		8d common	25	20	13	2½"	2
1 x 12 Boards and Shiplap.....		8d common	31	24	16	2½"	3
1 x 4 D&M Blind Nailed.....		8d common	30	24	15	2½"	1
1 x 6 D&M Blind Nailed.....		8d common	20	16	10	2½"	1
1 x 8 D&M Blind Nailed and 1 Face Nail.....		8d common	31	27	16	2½"	2
1 x 10 D&M Blind Nailed and 1 Face Nail.....		8d common	25	20	13	2½"	2
1 x 12 D&M Blind Nailed and 1 Face Nail.....		8d common	21	16	11	2½"	2
2 x 4 to 2 x 16 Framing.....		20d common	20	16	10	4 "	....
		16d common	10	10	6	3½"	....
		10d common	8	6	4	3 "	....
3 x 4 to 3 x 14 Framing.....		60d common	30	25	15	6 "	....
2 x 6 D&M Flooring.....		20d common	35	27	18	4 "	1
2 x 8 D&M Flooring.....		20d common	27	20	14	4 "	1
1 x 4 Drop Siding.....		7d siding	45	35	....	2½"	2
1 x 6 Drop Siding.....		7d siding	30	25	....	2½"	2
1 x 8 Drop Siding.....		7d siding	23	18	....	2½"	2
½ x 4 Bev. Siding.....		6d siding	23	18	....	2 "	1
½ x 6 Bev. Siding.....		6d siding	15	13	....	2 "	1
½ x 8 Bev. Siding.....		6d siding	12	10	....	2 "	1
¾ x 10 Bev. Siding.....		7d siding	45	35	....	2½"	2
¾ x 12 Bev. Siding.....		7d siding	60	50	....	2½"	3
¾ x 4 Ceiling.....		8d finish	18	14	9	2½"	1
½ x ¾" Ceiling.....		6d finish	11	8	6	2 "	1
¾" Finish Lumber.....		8d finish	25	12	13	2½"	2
1½" Finish Lumber.....		10d finish	12	10	6	3 "	2
1 x 3 Flooring, Soft Wood.....		8d floor brads	42	32	21	2½"	1
1 x 4 Flooring, Soft Wood.....		8d floor brads	32	26	16	2½"	1
1 x 6 Flooring, Soft Wood.....		8d floor brads	22	18	11	2½"	1
¾ x 1½ Flooring, Hard Wood.....		4d casing	13	10	....	1½"	1
¾ x 2 Flooring, Hard Wood.....		4d casing	11	8	....	1½"	1
¾ x 1½ Flooring, Hard Wood.....		7d casing	27	20	....	2½"	1
¾ x 2½ Flooring, Hard Wood.....		7d casing	20	14	....	2½"	1

1 x 2 Furring on Brick Walls—100 Lineal Ft.—20d Cut Nails, Requires 5¼ lbs.

Base Per 100 Lineal Ft.

Sides of Trim, Per Side of Inside Trim.

48" Wood Lath Per 1000 Lath.

Metal Lath Per 100 Sq. Yds.

or Metal Lath Per 100 Sq. Yds.

¾" Gypsum Lath, Per 100 Sq. Yds.

¼" Plaster Board, Per 100 Sq. Yds.

¾" Wall Board, Per 1000 Sq. Ft.

½" Wall Board, Per 1000 Sq. Ft.

¾" Wall Board, Per 1000 Sq. Ft.

BATTENS Will Require ½ Lbs. 4d Finish Nails Per 100 Lineal Feet.

For Various Styles of Wallboards, See Manufacturer's Specifications for Recommended Nailing.

8d Finish Requires 1 Lb. 16" on Centers.

4d Finish }
6d Finish } Requires About ¼ Lb. Total
8d Finish }

3d Fine Requires 7 Lbs.

1" Staples Requires 12 Lbs.

1½" No. 12 Hook Head Nails Requires 15 Lbs.

1½" x 13 Gauge—¾" Heads Requires 10 Lbs.
Smooth Diamond Points.

1" x 13" Gauge—¾" Heads Requires 10 Lbs.
Smooth Diamond Points.

3d Flat Head Nail Requires 5 Lbs.

4d Flat Head Nail Requires 9 Lbs.

16

HARDWARE, BUILDING SPECIALTIES

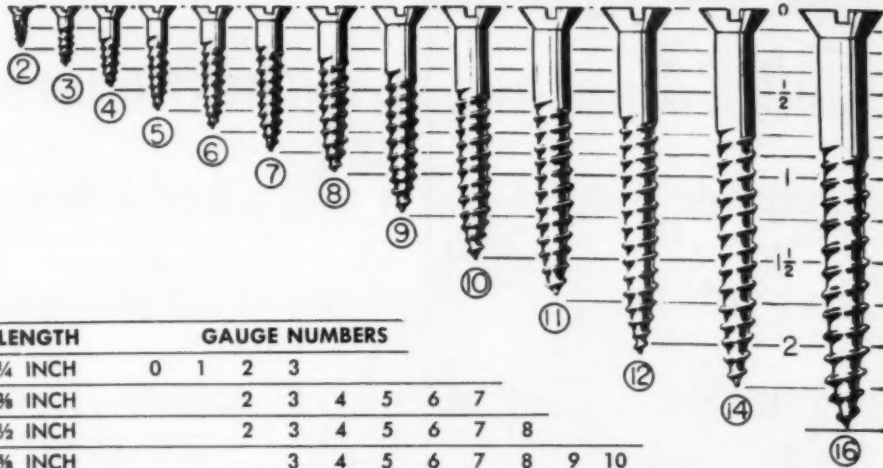
Aluminum Nails

BUILDING MATERIAL	COVERAGE	LENGTH OF NAIL	TYPE OF NAIL	GAUGE	HEAD SIZE INCHES	NAILS REQUIRED			
						12" CENTERS		16" CENTERS	
						NO.	LBS.	NO.	LBS.
½" x 6" Bvl. Sdg.	1000 bd. ft.	1¾"	6d Wd. Sdg.—Skr. Hd.	12	¼"	2000	3.3	1500	2.5
¾" x 8" Bvl. Sdg.	1000 bd. ft.	2¼"	7d Wd. Sdg.—Skr. Hd.	11½	¼"	1500	3.2	1125	2.4
¾" x 8" Bvl. Sdg.	1000 bd. ft.	2¾"	8d Wd. Sdg.—Skr. Hd.	10½	¼"	1500	4.7	1125	3.5
¾" x 8" Bvl. Sdg.	1000 bd. ft.	2¾"	10d Wd. Sdg.—Skr. Hd.	9½	⅝"	1500	5.1	1125	3.8
½" x 6" Bvl. Sdg.	1000 bd. ft.	1¾"	6d Wd. Sdg.—Csg. Hd.	12	¼"	2000	3.3	1500	2.5
¾" x 8" Bvl. Sdg.	1000 bd. ft.	2¼"	7d Wd. Sdg.—Csg. Hd.	11½	¼"	1500	3.2	1125	2.4
¾" x 8" Bvl. Sdg.	1000 bd. ft.	2¾"	8d Wd. Sdg.—Csg. Hd.	10½	¼"	1500	4.7	1125	3.5
¾" x 8" Bvl. Sdg.	1000 bd. ft.	2¾"	10d Wd. Sdg.—Csg. Hd.	9½	⅝"	1500	5.1	1125	3.8
Cedar Shakes—Single Course	3 squares	1¾"	Cedar Shake	13½	⅝"	1680	1.3		
Cedar Shakes—Single Course	3 squares	1¾"	Cedar Shake	12½	⅝"	1680	2.3		
Cedar Shingles (5 in. expos.)	3 squares	1¾"	3d Cedar Shingle	14	⅝"	3150	2.1		
Asbestos Siding—Face Nlg.	5 squares	1⅝"	File Grip Asb. Sdg.	.114	.185	900	1.1		
Asbestos Siding—Face Nlg.	5 squares	1¾"	File Grip Asb. Sdg.	.114	.215	900	1.3		
Asbestos Siding—Face Nlg.	5 squares	1¾"	Asbestos Siding	13	⅝"	900	0.7		
Asbestos Siding—Face Nlg.	5 squares	1¾"	Asbestos Siding	12½	⅝"	900	1.0		
Asbestos Siding—Cncd. Nlg.	5 squares	1¾"	Asbestos Siding	11½	⅝"	900	1.2		
Asbestos Siding—Cncd. Nlg.	5 squares	1½"	Asbestos Siding	11½	⅝"	900	1.3		
Asbestos Siding—Cncd. Nlg.	5 squares	1¾"	Asbestos Siding	11½	⅝"	900	1.6		
General Purpose		¾"	Standard Shingle	12½	⅝"				
Barn Batts, Joist, Lining, etc.		1¾"	3d Standard Shingle	12½	⅝"				
Insulating Siding—Light finish for face nailing	5 squares 60 Butt. Crs.	2 " 2½"	Insul. Sdg.—Chk. Hd.	11½ 10	⅝" ⅝"	1680 600	2.4 2.3		
Insulating Siding—Dark finish for mortar joint nailing	60 Butt. Crs. 5 squares	2½" 2 "	Insul. Sdg.—Chk. Hd.	10 11½	⅝" ⅝"	600 1680	2.3 2.4		
Gypsum Lath	1000 sq. ft.	1¾"	Gypsum Lath	12½	⅝"	1534	1.6		
Gypsum Lath	1000 sq. ft.	1¾"	Gypsum Lath	12½	⅝"	1534	1.7		
Gypsum Lath	1000 sq. ft.	1½"	Gypsum Lath	12	⅝"	1534	2.1		
Roll Roofing	500 sq. ft.	¾"	Roofing	10	⅝"	860	1.3		
Sq. Tab Shingles	3 squares	1 "	Roofing	10	⅝"	980	1.6		
Sq. Tab Shingles	3 squares	1¼"	Roofing	10	⅝"	980	2.0		
Sq. Tab Shingles	3 squares	1½"	Roofing	10	⅝"	980	2.4		
Sq. Tab Shingles	3 squares	1¾"	Roofing	10	⅝"	980	2.7		
Sq. Tab Shingles	3 squares	2 "	Roofing	10	⅝"	980	2.9		
Sq. Tab Shingles	2 squares	2½"	Roofing	10	⅝"	650	2.4		
Aluminum Roofing	5 squares	1¾"	Rfg. w/w/att. Scr. Gp.	.145	⅝"	525	1.8		
Aluminum Roofing	5 squares	2 "	Rfg. w/w/att. Scr. Gp.	.145	⅝"	525	2.0		
Aluminum Roofing	10 squares	1¾"	Rfg. w/w/att. Scr. Gp.	.145	⅝"	1050	3.6		
Aluminum Roofing	10 squares	2 "	Rfg. w/w/att. Scr. Gp.	.145	⅝"	1050	4.0		
Aluminum Roofing	10 squares	2½"	Rfg. w/w/att. Scr. Gp.	.145	⅝"	1050	4.8		
Aluminum Roofing	10 squares	1¾"	Rfg. w/w/att. Pln. Shk.	10	⅝"	1050	3.4		
Aluminum Roofing	10 squares	2 "	Rfg. w/w/att. Pln. Shk.	10	⅝"	1050	4.0		

ABBREVIATIONS: Bvl. Sdg. = Beveled Siding Wd. Sdg. = Skr. Hd. = Wide Siding — Sinker Head
 Cncd. Nlg. = Concealed Nailing Csg. Hd. = Casing Head
 Scr. Gp. = Screw Grip Chk. Hd. = Checked Head
 Pln. Shk. = Plain Shank w/w/att. = With Neoprene washers assembled to nail

HARDWARE, BUILDING SPECIALTIES

Wood Screw Data



LENGTH	GAUGE NUMBERS	
¼ INCH	0	1 2 3
⅜ INCH		2 3 4 5 6 7
½ INCH		2 3 4 5 6 7 8
⅝ INCH		3 4 5 6 7 8 9 10
¾ INCH		4 5 6 7 8 9 10 11
⅞ INCH		6 7 8 9 10 11 12
1 INCH		6 7 8 9 10 11 12 14
1¼ INCH		7 8 9 10 11 12 14 16
1½ INCH		6 7 8 9 10 11 12 14 16 18
1¾ INCH		8 9 10 11 12 14 16 18 20
2 INCH		8 9 10 11 12 14 16 18 20
2¼ INCH		9 10 11 12 14 16 18 20
2½ INCH		12 14 16 18 20
2¾ INCH		14 16 18 20
3 INCH		16 18 20
3½ INCH		18 20 24
4 INCH		18 20 24

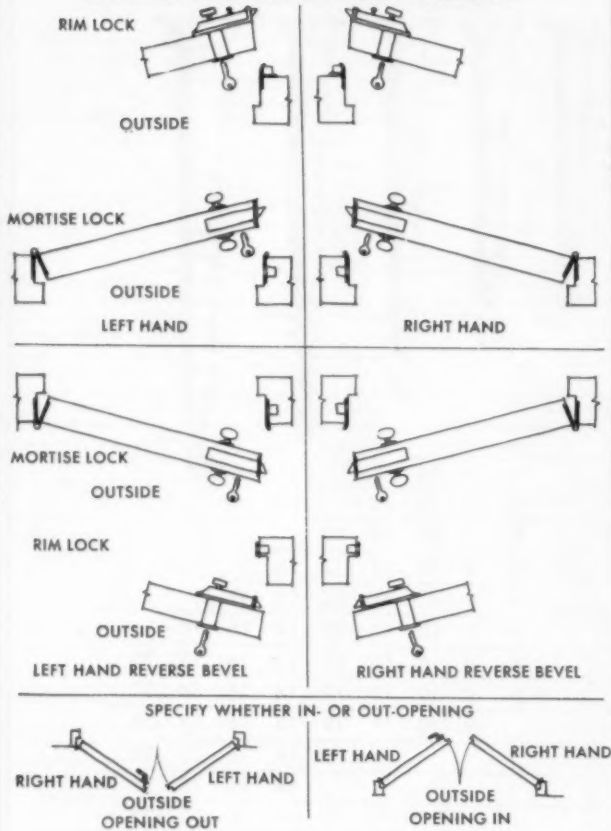
WOOD SCREW SIZES

Gauge Nos.	Basic Decimal Diameter	Fractional Diameter Nearest 64th	Threads per Inch	Maximum Head Diameter	Drill Number	PILOT OR ANCHOR HOLE SIZES			
						SOFTWOOD		HARDWOOD	
						Slotted Screws	Phillips Screws	Slotted Screws	Phillips Screws
0	.060	¼ ₆₄ -	32	.119	52			70	
1	.073	¼ ₆₄ -	28	.146	47	71		66	
2	.086	¼ ₆₄ +	26	.172	42	65	75	56	70
3	.099	¼ ₆₄ +	24	.199	37	58	71	54	66
4	.112	¼ ₆₄ +	22	.225	32	55	65	52	56
5	.125	¼ ₆₄ -	20	.252	30	53	58	49	54
6	.138	¼ ₆₄ -	18	.279	27	52	55	47	52
7	.151	¼ ₆₄ -	16	.305	22	51	53	44	49
8	.164	¼ ₆₄ +	15	.332	18	48	52	40	47
9	.177	¼ ₆₄ +	14	.358	14	45	51	37	44
10	.190	¼ ₆₄ +	13	.385	10	43	48	33	40
11	.203	¼ ₆₄ -	12	.411	4	40	45	31	37
12	.216	¼ ₆₄ -	11	.438	2	38	43	30	33
14	.242	¼ ₆₄ +	10	.491	D	32	40	25	31
16	.268	¼ ₆₄ +	9	.544	I	29	38	18	30
18	.294	¼ ₆₄ -	8	.597	N	26	32	13	25
20	.320	¼ ₆₄ -	8	.650	P	19	29	4	18
24	.372	¼ ₆₄ -	7	.756	V	15	26	1	13

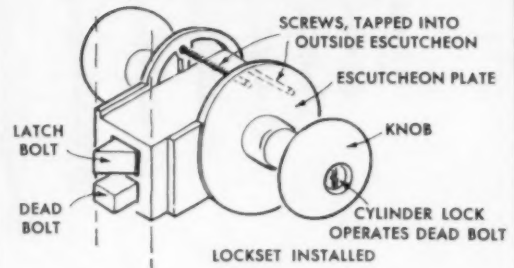
HARDWARE, BUILDING SPECIALTIES

Hardware Details

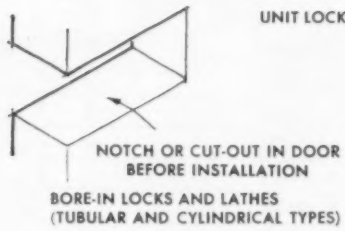
HAND OF DOORS, CASEMENT WINDOWS



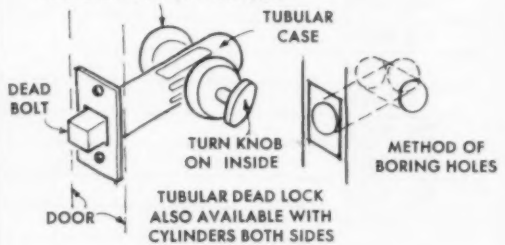
TYPES OF LOCKS AND LATCHES



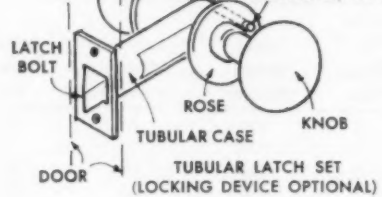
UNIT LOCKS



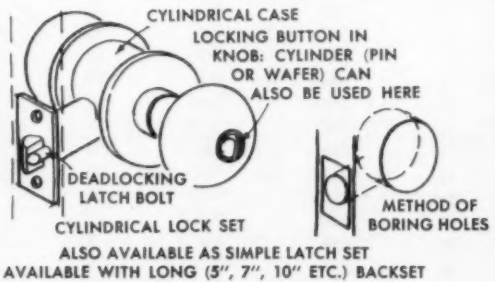
CYLINDER LOCK ON OUTSIDE



LOCKING DEVICE ON INSIDE ROSE (FOR BATHROOMS, BEDROOMS, ETC.)

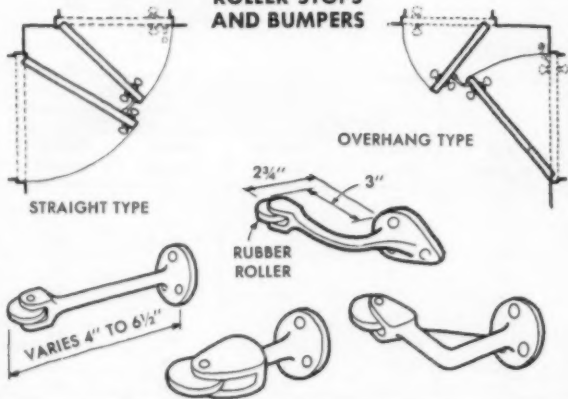


CYLINDRICAL CASE LOCKING BUTTON IN KNOB: CYLINDER (PIN OR WAFER) CAN ALSO BE USED HERE



Courtesy National Builders Hardware Association

ROLLER STOPS AND BUMPERS



16

Hinges

120" 11'-0"	4
9'-0"	
8'-0"	3
(80") 7'-6"	
7'-0"	
(60") 5'-0"	2
4'-0"	
3'-0"	

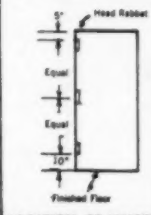
Minimum of Three Hinges Generally Recommended for All Doors

NUMBER OF HINGES PER DOOR VARIES WITH HEIGHT OF DOOR

HOW TO SPECIFY HINGES

Number (in Pairs) - Either Ball or Dole Bearings (if Required) - Type of Top - Type of Screws - Type of Hinge - Metal - Height - Width (Required Only for Full Mortise Hinges) - Weight (Regular or Heavy) - Finish

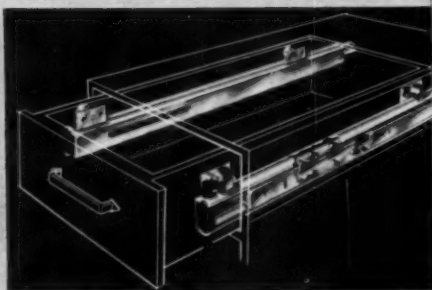
TEMPLATE HINGES are Made to Standard Templates or Patterns (Usually in Accordance with Government Standards) to Insure Exact Matching of Hinge and its Screw Holes with Metal Doors and Metal Jambs Fabricated by Other Manufacturers



INTRODUCING...new, low cost BARCLITE XR1000 Fiberglass Panels ... give more light ...last years longer! New scientific formula makes BARCLITE XR1000 absolutely weather-resistant! The reason: an improved Acrylic base resin—tougher, stronger, longer lasting than anything you've ever known. And panel after panel is absolutely uniform...identical in color, clarity, thickness, quality! Colors stay clearer, brighter, purer! Resists rust, mildew, fading. Shatterproof BARCLITE XR1000 takes on storms, stress, years of wear. (Write for results of 5-year outdoor torture tests!) Exclusive Infrablok® process insulates against heat and cold. Light in weight, easy to handle—means less installation time and costs for you. Maintenance-free! Perfect outdoors, indoors—for patios, car-ports, awnings, interior partitions, skylighting, glazing, roofing—wherever you want light plus strength! BARCLITE XR1000 at your lumber dealer, or write: Barclite Corp. of America (an affiliate of Barclay Mfg. Co., Inc.) Dept. AB4-XR, Barclay Building, New York 51.



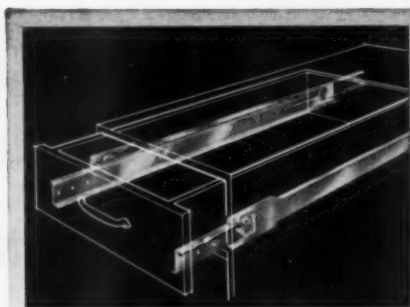
A complete line: Heavyweight • Lightweight
Full-extension • Under-drawer • Single-track
Double-track • Self-closing.



**No. 1400 Ball-Bearing,
Full-Extension Drawer Slide**

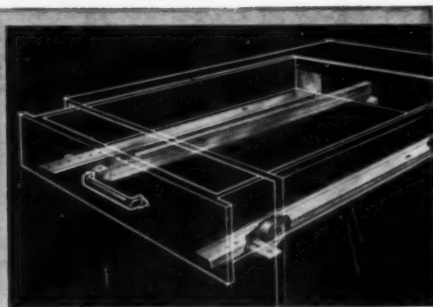
Improved to provide even better floating extension for heavy drawers. Super Oilite Bearings positively eliminate sticking, jamming, sag or breakdown even when drawers are fully extended under heaviest load. Heavy gauge, zinc-plated steel. Unquestionably the finest drawer slide on the market. Recommended for loads of 100 pounds.

*The important things to remember about K-V
They're easy to install! Won't sag or stick!*



**No. 1100 Lightweight
Drawer Slide**

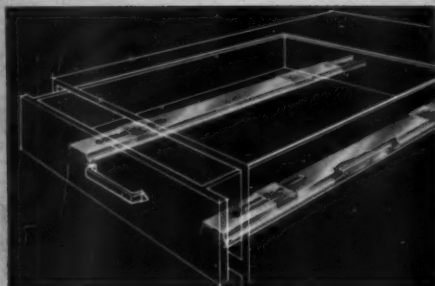
Ideal for kitchen and other home cabinets. Bright zinc-plate finish. Long life of smooth, quiet action guaranteed by $\frac{3}{4}$ " nylon rollers. Engineered for easy positioning; no measuring, marking or templates required. Only $\frac{1}{8}$ " clearance needed on each side of drawer. Zinc-plated finish. Recommended for loads to 50 pounds.



No. 1150 Under-drawer Slide

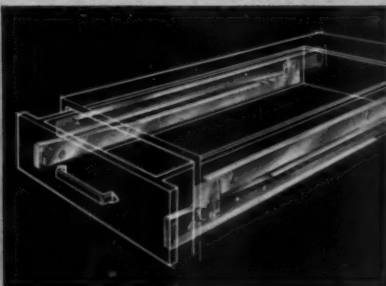
Under-drawer design allows you to use otherwise wasted space between drawers; hardware is completely concealed when drawer is open. Self-aligning drawer tracks for easy installation—even on existing drawers. Zinc-plated finish. Recommended for loads to 50 pounds. Large nylon rollers for quiet action, smooth operation and long, trouble-free service.





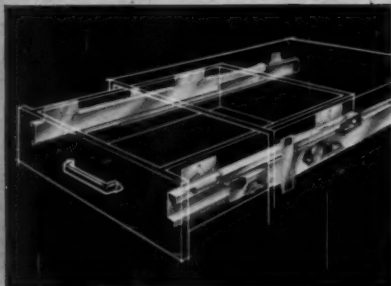
**No. 1500
Under-drawer Extension Slide**

Designed for use where side clearance space is not available. Ideal for narrow spaces, built-in units, deep storage drawers, built-in record players or pull-out typewriter shelves. Zinc-plated finish, on heavy gauge steel, ball-bearing rollers for smooth, frictionless operation. Recommended for loads of 50 pounds.



**No. 1600 Self-closing
Drawer Slide**

Operates smoothly and quietly on lifetime ball bearing nylon rollers. Drawer closes automatically when within six inches of closing; may be removed easily at full extension. Stopping points protected with rubber bumpers; slides and bearings permanently lubricated. Made of heavy gauge, zinc-plated steel. Recommended for loads up to 100 pounds.



**No. 1700 Full Extension
Drawer Slide**

Designed for use in executive desks, file cabinets and drawers containing heavy precision equipment. Superior construction insures a lifetime of smooth, easy operation, allows full use of all the drawer space even under heavy weights. Made of heavy gauge, zinc-plated steel. Recommended for loads over 100 pounds.

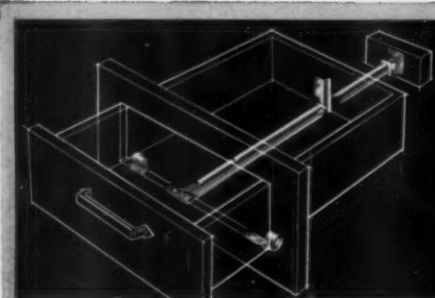
*drawer slides are:
Always operate smoothly!*



**KNAPE & VOGT
MANUFACTURING COMPANY**

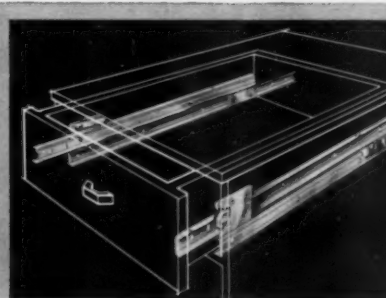
Grand Rapids, Michigan

Manufacturers of adjustable shelf hardware, sliding and folding door hardware, closet and kitchen fixtures, Tite-Joint Fasteners and Handy Hooks for perforated board.



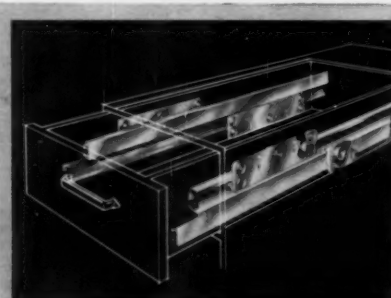
**No. 1175 Single-track
Extension Under-drawer Slide**

A new low cost, single-track, under-drawer slide that meets requirements of any household drawer. Fits any length or width drawer; no measuring, marking or templates required. Bright zinc electroplated finish for corrosion resistance; Teflon Roll-ezy bearings for quiet, smooth operation. Recommended for loads to 50 pounds.



**No. 1300 Lightweight
Extension Drawer Slide**

The most popular, most widely used drawer slide on the market. Newly improved, with nylon ball bearing wheels for noiseless, smooth operation every time. Especially economical, easily installed. Will not jam or stick even under maximum load at full extension. Bright zinc-plated finish. Recommended for loads to 50 pounds.

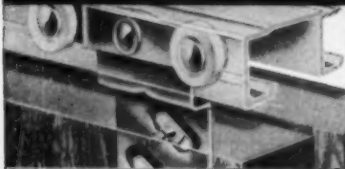


**No. 1390 Lightweight Full
Extension Drawer Slide**

Fits all drawers from 15" to 29" deep, provides excellent full-extension drawer range for a variety of cabinet styles. Durable zinc-plate finish, rugged construction. Long, quiet life assured by 1/8" nylon rollers. Lifts out easily for cleaning when fully extended. Recommended for loads to 50 pounds, fully extended.



FOR DOORS, DRAWERS, WINDOWS— GRANT SLIDING HARDWARE THROUGHOUT THE HOUSE



SLIDING DOOR HARDWARE

1000/6000 Reversible Rocket Sliding Door Hardware—load capacity: up to 75 lbs./door • for ¾" to 1¾" single, bi-parting and bypassing doors • inexpensive standard duty line with adjustable double wheel carriers

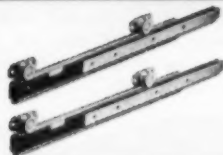
Rocket 1000/6000 two wheel hardware is an excellent line of moderate duty hardware. Rocker-arms keep nylon wheels in constant contact with track. Choice of aluminum or aluminum fascia track. Reversible hardware set for ¾" or 1¾" doors available. All adjustments. Packaged in sturdy tubes with color-coded labels.



SLIDING DOOR HARDWARE

7000 Sliding Door Hardware—load capacity: up to 100 lbs./door • for ¾" to 1¾" doors, single, bi-parting and bypassing • each door rides on eight rollers • moderate cost standard duty hardware, fully adjustable

Widely recognized as the foremost line of moderate-duty sliding door hardware. Twelve completely adjustable sets from which to select, with aluminum or aluminum fascia track. Doors move on unique four-wheel carriers (eight per door) with rocker arms for constant track contact. Luxurious operation at minimum cost—with every advantage of highest-priced moderate duty hardware.



DRAWER SLIDES

305/306 Drawer Slides—load capacity: up to 50 lbs./pair • min. space at each side of drawer • continuous ball bearing action • 12" to 36", every inch

Grant Slides are designed for use where full extension and continuously smooth operation is necessary. Separate rollers permit drawer to be lifted out easily. Travel can be controlled by placement of front roller. (Interchangeable drawers can be readily transferred from storage into use.)



DRAPERY HARDWARE

2200 Drapery Hardware—medium-heavy duty hardware • entirely non-corrosive—aluminum track and parts, nylon carriers • wall or ceiling installation • finest drapery hardware available

The finest drapery hardware available anywhere—yet moderately priced for the mass market. Highest quality line, completely rust-proof since every part is either aluminum or nylon. No metal-to-metal contact between moving parts and all parts are re-inforced for lifetime service. Many features included that are unavailable in competitive brands.



DOOR POCKET FRAME

Grant Sliding Door Pocket Frame—load capacity: up to 100 lbs. • for ¾" to 1¾" doors, 6'6" to 6'8" high, 2'0" to 3'0" wide • fits standard 2 x 4 construction

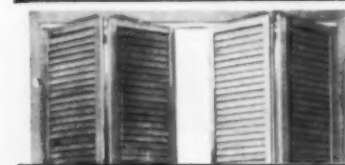
Designed to speed sliding door installations—and to insure accuracy in every case. Complete installation takes less than twenty minutes! For all 2 x 4 construction, regardless of wall material thickness. Grant 7000 hardware moves door smoothly and quietly on aluminum track. Sturdily and compactly packaged.



CLOSET ROD

Grant "Golden" Closet Rod—gold anodized aluminum track • unique self-lubricating black nylon carriers • sturdy end brackets • center support for longer lengths • most functional, beautiful closet rod made.

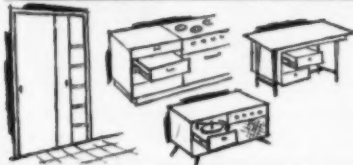
Grant's Gold anodized closet rod has intrinsic qualities of beauty and function unequalled by any other such product. Black nylon carriers gently but efficiently glide clothes at a touch. These carriers can "snap" in, permitting the addition of extra carriers (for extra clothes) as needs require. The Grant Closet Rod will support even the heaviest of loads safely. And, for special widths, it can be simply cut to size.



FOLDING PANEL HARDWARE

2500 Folding Panel Hardware—load capacity: up to 35 lbs./panel • for ¾" to 1¾" doors; either two door (one way) or four door (bi-parting) installation • inexpensive standard duty hardware, fully adjustable

Sturdiest hardware, full of selling features, including: full range of sets, all adjustments, reinforced parts and jamb bracket (nothing attaches to floor), fast installation, specially designed lead carriers for constant track contact and the new passageway set with completely hidden hardware.



Grant Sliding Hardware is naturally suited for application to "built-ins"... for sliding doors or drawers in linen closets, kitchen cabinets, multi-purpose wall units, standing clothes closets and other cabinetry, no wider range of such hardware is produced by any manufacturer, for application throughout the house.

GRANT SLIDING HARDWARE



GRANT PULLEY AND HARDWARE CORPORATION

1 High Street, West Nyack, New York • 944 Long Beach Avenue, Los Angeles 21, Cal.

sliding door hardware • drawer slides • drapery hardware • pocket frames • pulls • special sliding hardware

NEXT STEP...

A LOCK



THAT INSTALLS

ITSELF



*America's largest selling
residential locksets*

KWIKSET SALES AND SERVICE COMPANY
A DIVISION OF THE AMERICAN HARDWARE CORPORATION, ANAHEIM, CALIFORNIA

You'd think so, the way KWIKSET speeds installation time. Take the BIT-JIG with built in tools. Set in place, tighten, and drill; latch and lockset holes are precision bored in seconds. The



ROUND eliminates mortising



new KWIKSET FACE LATCH screws and

just press into place after drilling. And with the amazing

SOK-IT STRIKE there's no chiseling, mortising or screws... just drill a hole, position strike and hit special staking tool with hammer.



it's in to stay. 'Installs itself?' Not yet, but we're getting there!

Cut Your Installation and Call-Back Costs With This New Dry Wall Nail

Read How It Resists Nail Popping Under Any But Extreme Conditions

Sheffield's newly designed dry wall nail not only saves you labor and material costs but also contributes to your reputation for quality construction. Here's why:

Cuts material and labor costs

The new, patent applied for, Sheffield nail will fasten 25% more dry wall per cwt. than its .098 predecessor. That's because the new nail, with its shank diameter reduced to .094, contains more nails per cwt.

The nub in the conical head and the modified ring shank make for safer handling and faster, easier nailing — can save one hour's labor per house.

Designed to resist nail popping or bulging

Annular rings are placed at the midsection of the shank to concentrate the holding power where it is needed. It's a known fact that wood dries from outside to center. When it does these rings tighten in the wood instead of loosening—and thereby prevent popping of nails or bulging of the heads.

Because the nail moves with the studs and joists as they dry, the tension of the countersunk nail head is maintained. The dry wall is held tight against the lumber.

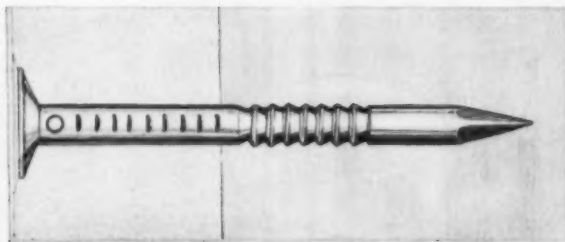
The nub in the center of the head takes the force of the hammer blows. It protects the thin conical head from distortion and increases the bond of the sealing compound to steel.

The conical head is extra thin so that the final hammer blow countersinks it with its rim flush with the wall surface.

Breaking of paper surface is virtually eliminated and smooth taping of the joints is made easy.

For full information, get in touch with your Sheffield dealer, nearest Sheffield office or write: Sheffield Division, Armco Steel Corporation, Sheffield Station, Kansas City 25, Missouri.

Sheffield Plants: Houston • Kansas City • Tulsa



ARMCO Sheffield Division

PERFECT FOR TRADITIONAL HOMES . . .

French Classic



*Y*our traditional homes will sell faster with Medalist "French Classic" hardware in the kitchen. Available in Antique English, Old Copper, Black or White enamel with Gold. See your Medalist hardware dealer today, or write us!

NATIONAL LOCK

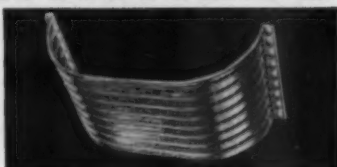
Medalist®

*trademark for outstanding
value in builders hardware*

MEDALIST HARDWARE DIVISION
NATIONAL LOCK COMPANY
Rockford, Illinois

SPC ^{deep} CORRUGATED [®] Lux-Right AREAWALLS

The
Original
and
Best



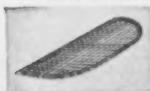
You guarantee it. We back you up. SPC does its own deep corrugation for greater strength. SPC adds roll top edges for complete safety. SPC heavy galvanizing protects against rust and corrosion. That's why SPC sets the pace in areawalls.

You can Sell our Products with Confidence . . . meet and beat all competition.

All standard sizes and styles or special sizes made to order for any installation. Three grades to choose from:

1. Imperial Lux-Right, the finest areawall made
2. Economy Lux-Right, the general use leader
3. Thrif-T, lower in price but made to last

SPC Areawall Guard



Universally adaptable for most makes of areawalls. Installs in seconds. Constructed of heavy cross weave steel wire on a frame of rolled bar steel. Hot dipped zinc coated after fabrication to insure freedom from rust and corrosion. Cross weave construction prevents loss of light yet easily supports the weight of running children, adults, and power lawnmowers.

Write for full information on Areawalls and Guards

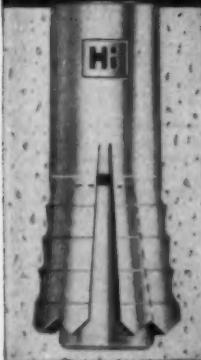
Saint Paul Corrugating Co.

South End Wabasha Bridge, St. Paul 7, Minnesota

FOR ALL-AROUND FASTENING ON LARGE
CONSTRUCTION AND INSTALLATION WORK



SELF-DRILLING ANCHORS



**YOU CAN'T PULL 'EM OUT!
STRONGER THAN THE CONCRETE**

● Engineered performance that will save you money—faster, more accurate drilling into the hardest masonry materials . . . specially designed teeth . . . case-hardened, zinc plated expander plug. Install with hand or impact hammer.

3 NEW IMPROVED TYPES

- | | | |
|--|--|--|
| FLUSH
(Hand)
1/4" to 3/4" | SNAP-OFF
(Power)
1/4" to 7/8" | TIE-WIRE
(Power)
7/32" hole |
|--|--|--|

SEND NEW "HI" FASTENER CATALOG

FOR USE IN
CONCRETE
STONE
BRICK

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FIRM _____
STREET _____
CITY _____ STATE _____



HOLUB INDUSTRIES, Inc.

467 ELM STREET • SYCAMORE, ILL.

TUFF-BOND SUPER-STRENGTH ADHESIVES



Formulated for the Construction Industry

TUFF-BOND QUIK-SET ADHESIVE . . . An excellent all purpose **FAST-SETTING ADHESIVE** with neoprene base . . . brush consistency.

***TUFF-BOND GENERAL PURPOSE IMPROVED** . . . An **ALL PURPOSE** water resistant adhesive that sticks almost anything to anything.

***TUFF-BOND NO. 2-S** . . . An oyster white **CERAMIC TILE ADHESIVE**.

***TUFF-BOND NO. 4** . . . A **WALLBOARD AND A DRY WALL ADHESIVE**. An economical adhesive with great strength and excellent aging qualities.

TUFF-BOND No. 5 . . . A **FIBRE AND ACOUSTICAL TILE ADHESIVE** with strong bonding strength.

TUFF-BOND NO. 8 . . . A **CONTACT BOND ADHESIVE** for bonding laminates to wood and to metal.

*Complies with Commercial Standard CS 181-52.

Recommendations for special adhesives made without cost or obligation.

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DANVILLE 7, ILLINOIS

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Name

Street

Address

Imprint as follows:

● **Incredible! Even a \$12,000 House Can Have**
THE WORLD'S MOST
ADVANCED DISHWASHER!
*...and it cuts builder costs **5** ways!*

THE NEW
LING-TEMCO®
DISHWASHER

This revolutionary dishwasher gives you unprecedented freedom to plan dozens of exciting new saleable kitchen ideas:

Install it on the wall, on or below the counter, below the range burner top, recessed in the wall. You can even float it as a room divider!

YOU SAVE ON PLANS! No costly plan changing to add the Ling-Temco. It fits any plan you already have.

YOU SAVE AT LEAST \$60 IN FLOOR SPACE because there's no floor space needed. Eliminates 4 Square feet every other dishwasher requires!

YOU SAVE INSTALLATION COSTS! The exclusive L-T Couplermatic permits *pre-installation* of plumbing connections. Slide the dishwasher in any time later.

YOU SAVE DRAIN PUMP COSTS! Most locations require no drain pumps.

AND YOU SAVE BIG MONEY ON THE DISHWASHER ITSELF! It's the most competitively priced dishwasher on the market!



NOW TURN THE PAGE AND LEARN 7 REASONS WHY WOMEN WILL BUY THE HOME WITH THE LING-TEMCO DISHWASHER IN IT!

 **LING-TEMCO**
ELECTRONICS, INC.

TEMCO INDUSTRIAL DIVISION
P.O. BOX 6191, DALLAS 22, TEXAS

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7 REASONS WHY Women Love The Ling-Temco Dishwasher

...and will be sold by
the kitchen that has it!

**What woman wouldn't love
the ONLY dishwasher that exclusively...**

- 1. WASHES DISHES IN ½ THE TIME** because it fills, washes and drains continuously. Only Ling-Temco does the complete dish-washing job in 25 minutes!
- 2. DRIES DISHES FASTER** because dishes are steam-purified by a self-contained steam generator—then flash dry when the air hits them! Now, just stack 'em and store 'em!
- 3. WASHES DISHES CLEANER** because all available washing power is directed in a solid Wave-Of-Water. It's the only dishwasher that doesn't dissipate its washing action in a sprinkle against all the dirty dishes at one time.
- 4. GUARANTEED "NO WATER SPOTTING OR STREAKING"** of dishes, glasses or silverware because the Ling-Temco produces its own distilled water containing no water-spotting minerals.
- 5. ELIMINATES FAUCET PRE-RINSING** because there's no food particle feed-back. Particles are trapped and drained away constantly by L-T's unique filtering system. The Ling-Temco dishwasher changes water 7 times . . . and in only 12½ minutes.
- 6. STEAM PURIFIES DISHES HOSPITAL-CLEAN** because the L-T fogs purifying steam over dishes for 12½ minutes! Dishes, pots, pans, baby bottles are not only clean—but steam purified!
- 7. LING-TEMCO SAVES HOMEOWNER TIME, SPACE, MONEY, WATER, MAINTENANCE AND INSTALLATION.**
Available in 3 compact sizes for 6, 10 and 15 place settings (NEMA Standards) in brushed stainless steel and kitchen decorator colors.

No woman can resist it...or the kitchen it's in.

TIP TO BUILDERS:

Remember — when you sell the woman, you've sold the home. And the Ling-Temco sells the woman!
Fill Out And Mail This Coupon Now!

LING-TEMCO ELECTRONICS, INC.
Temco Industrial Division
P.O. Box 6191, Dallas 22, Texas

1 2

Show me how your unique, easy-to-install Ling-Temco Dishwasher can help me create excitingly new and different kitchens that will increase the value and saleability of my home . . . and save me money, to boot!

Please send me full detailed information.

NAME _____

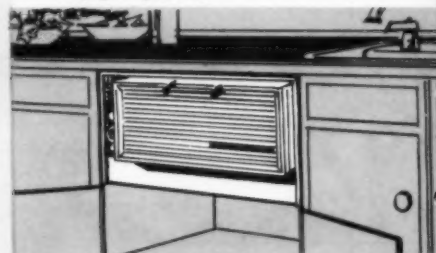
COMPANY _____

ADDRESS _____ TEL. NO. _____

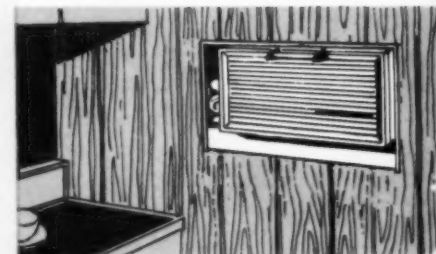
CITY _____ ZONE _____ STATE _____



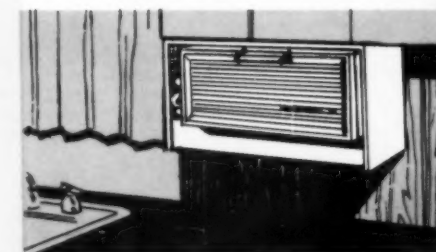
BELOW A RANGE BURNER TOP where no other dishwasher can fit! Smart built-in idea. Takes no counter space, save a big 9" of cabinet space below dishwasher (Above toe-space). Usually gravity drain.



UNDER THE COUNTER. Thanks to unique design, this is the only standard-type installation that still leaves a big 12" of cabinet space for storage (Above toe-space). Usually gravity drain.



RECESSED IN WALL. Wherever the utility room adjoins the kitchen, L-T's modern thin-line design makes for easy installation at lowest cost ever. No wasted floor or cabinet space. Gravity drain.



ON THE WALL—Ideal for apartment houses as well as homes. Mount on wall next to the sink, below hanging cabinets. Convenient eye-level loading from front. Glamorous kitchen appearance. Gravity drain.

OR—INSTALL THE LING-TEMCO EASILY THESE EXCITING NEW WAYS:

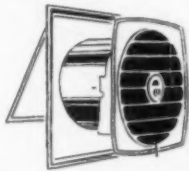
- ★ Floating as a room divider or above a peninsula counter.
- ★ On the counter—next to the sink.
- ★ Below sink bowl.
- ★ Below or above a built-in oven.
- ★ Above clothes washer or dryer when in kitchen.
- ★ Below counter in non-standard cabinets.

FILL OUT AND MAIL THIS POSTCARD TODAY!

APPLIANCES

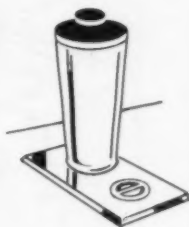
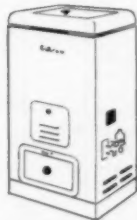
Check Page of Appliance Extras

Not all the units shown here are termed "appliances". In the opinion of our editors they are, however, "appliance extras"...units which are fast becoming standard equipment in new houses. Since they often tip the scales in favor of a house's saleability, we suggest: check this page before planning your next model house.



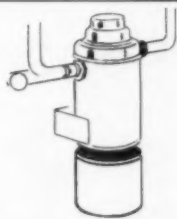
EXHAUST FANS: Available for vertical or horizontal discharge of air from kitchen. Can be installed in ceiling; through wall; in cabinet. For vertical discharge of air from bathroom, units are available without extras; with light; with heat; with heat and light, and with infra-red sun lamp. Most kitchen units come in two sizes: with an 8" blade and with a 10" blade, and fit into openings 9" and 11", respectively. Bathroom fans available in 10"-14" diameters, approximately.

INCINERATORS: Average dimensions for incinerators—18" wide, 36" high, 24" deep. Both gas and electric models are available. Most new gas models are double-burning, resulting in "smokeless-odorless" operation. Both types require a Class A flue. Nearly all types are sold with a one-year warranty. Check local codes for rules on installation.

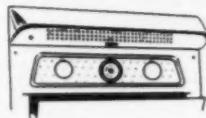


FOOD CENTERS: Installs so that power unit is below surface of counter. Connects to 115-volt AC outlet. Generally has six speeds. Is sold with or without its attachments, which include a mixer, blender, fruit juicer, knife sharpener, and meat grinder.

GARBAGE DISPOSERS: Are from 12" to 15" in length. Most operate with 1/2 HP, although 1/2 HP residential units are available. Need 115 volt 60 cycle outlet. Most disposers have a one- or more-year warranty. Average net weight is 25 lbs. Nearly all units are continuous feed types, and many have a safety mechanism to prevent jamming. Budget and deluxe models available.

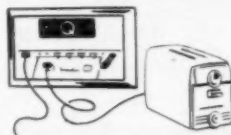
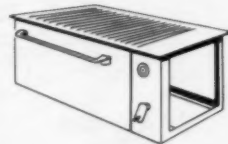


BUILT-IN VACUUM SYSTEM: Canister and power units are generally installed in basement, garage, closet or utility room. Ducts run under floors, between studs. Three to five outlets are sufficient for the average home. Units vary from 2/5 HP to 1 1/2 HP. Operates on 115 Volt, 60 Cycle current.



RANGE AND OVEN HOODS: Available with and without exhaust fans, light. Also available from some manufacturers with built-in radio-intercom, and range controls. Units produced for use over range tops, free-standing ranges set against wall, and for range tops built-in to counter island. Oven hood generally made in 24", 27" and 32" lengths. Range hoods made in lengths from 24" to 48".

BARBECUE GRILLES: Are built for both indoor and outdoor use. Units in sizes calling for rough openings of from 22" to 36" long; from 17" to 22" wide and approximately 11" deep. Some are made with electric rotisserie, hood, timer and storage drawer, or any combination of these. Often installed with gas jet to start charcoal.

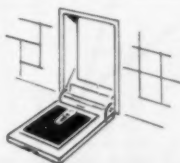
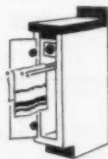


APPLIANCE CENTER: Generally installed on wall over kitchen counter. Fitted with circuit breakers, clock and automatic timer. Has pull-out plugs and sockets. Range from 30 to 45 amp service.



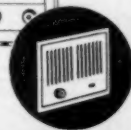
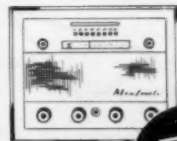
DOOR CHIMES: Available in a variety of styles and sizes from about 4" x 7" to 8" x 15". Can have two notes for front door, one note for back door, up to eight chords for front door, four chords for back door, and a number of combinations of these arrangements.

TOWEL DRYERS: Designed for use in kitchen, unit is cabinet with heater and fan built-in—9" to 15" widths. Also available: a bathroom towel rack with heating unit built-in to bars: 28" x 14".



BUILT-IN SCALES: Fits into bathroom wall recess. Housing for unit is roughly 14" x 23", with outside dimensions, 16" x 25". Lowers to floor on spring.

INTERCOM SYSTEMS: Most popular units have radio (some are transistor type), inter-communication system for each room in the house and for front door. Other models have clock with alarm and timing devices, 115 volt 60 cycle outlets, and phonograph jacks. Average outside panel size is 9" x 11".

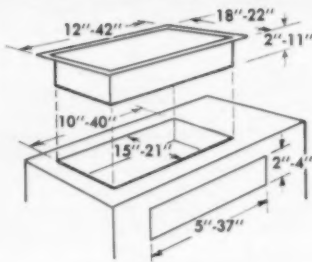


NOTE: For information on manufacturers of any product described here, check the yellow pages or write to Buyers Guide Editor, American Builder, 30 Church Street, New York 7, New York.

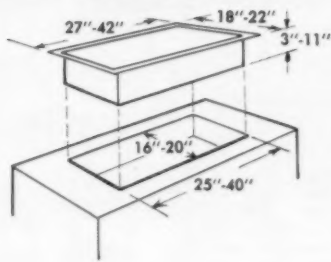
APPLIANCES

Planning for Kitchen Built-ins

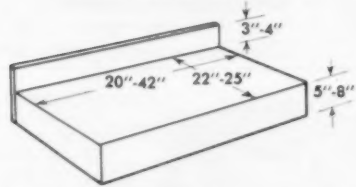
DROP-IN RANGE (FRONT VENT)



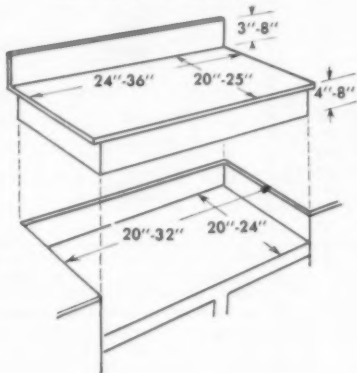
DROP-IN RANGE (NO VENT)



STACK-ON RANGE



COUNTER-TOP RANGE

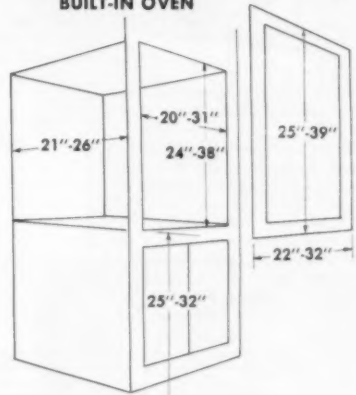


NOTE

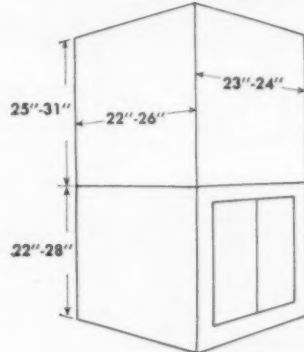
Both gas and electric models are available for each of the units shown here. Check with your supplier for exact dimensions. Oven measurements here only include single door integral broiler types. Double door (with separate broiler) and double oven types are also available.

For a list of manufacturers, check the yellow pages of this directory or write to the Buyers Guide Editor, American Builder, 30 Church St., New York 7, N. Y.

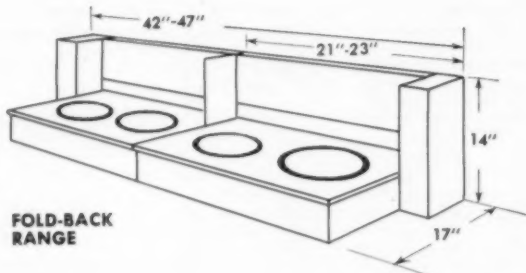
BUILT-IN OVEN



STACK-ON OVEN

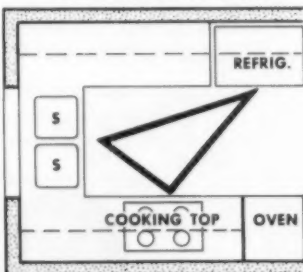


FOLD-BACK RANGE

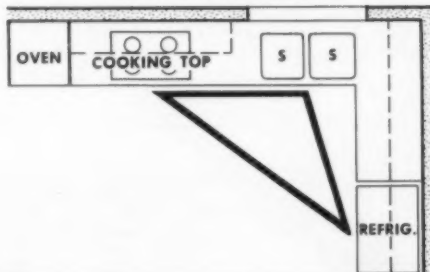


THREE BASIC KITCHEN PLANS

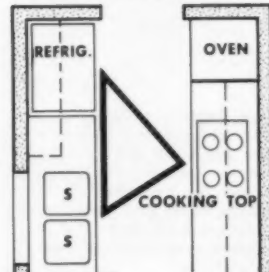
THE U-SHAPED KITCHEN



THE L-SHAPED KITCHEN



THE CORRIDOR KITCHEN



NOTE

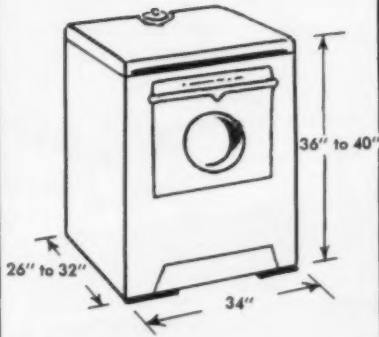
Before planning your kitchen, divide the space into three general work centers: cooking and serving; food storage and preparation, and clean up. Ideally, these areas should be located at the points of a triangle.

The distance between each point of the triangle should be as small as possible, and at the same time allow enough space to move easily from point to point. There should also be adequate work surfaces and storage space at each center.

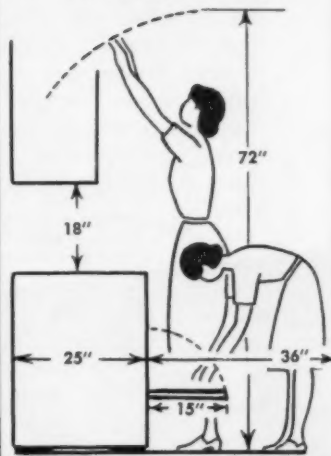
APPLIANCES

Laundry Planning Standards

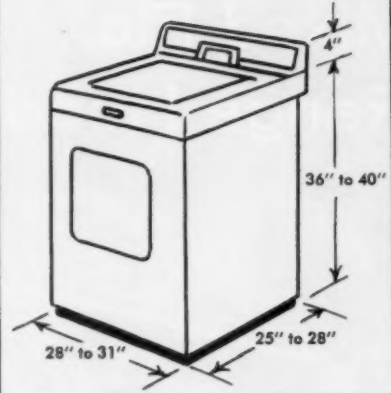
WASHER



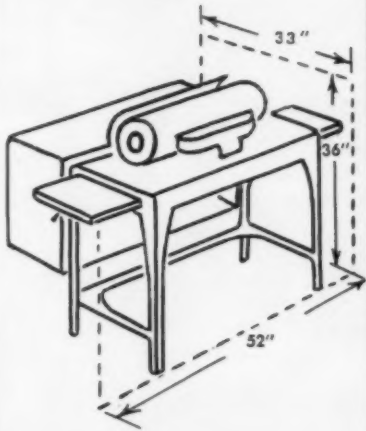
Minimum work space for washer and dryer.



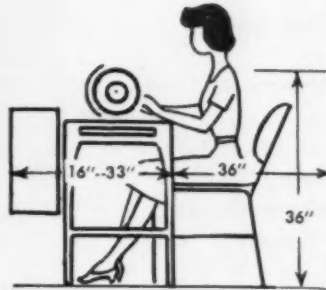
DRYER



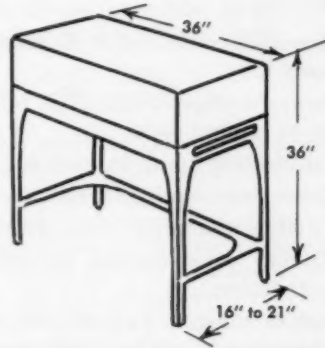
IRONER OPEN



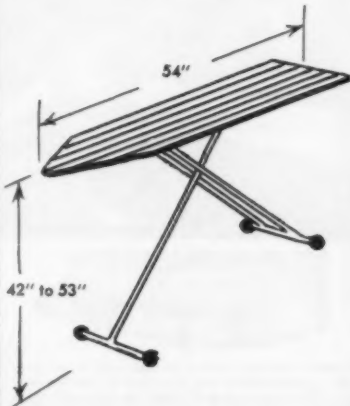
Minimum work space for ironer.



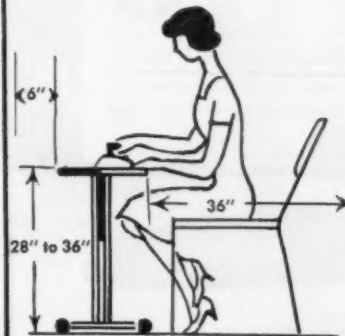
IRONER CLOSED



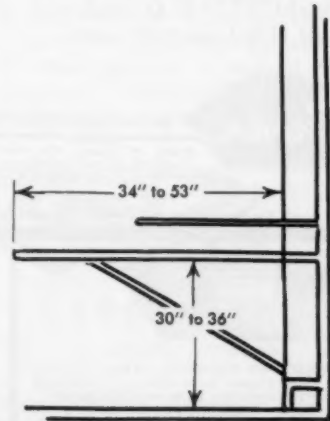
IRONING BOARD



Minimum work space for ironing board.



BUILT-IN IRONING BOARD



New

Broan Mixed-Flo Range Hood

handsomely fits your kitchen ... happily fits your budget

Broan's new design blade — MIXED-FLO — provides blower-like power to a fan-operated hood. To you this means swish styling for your kitchen, plus near silent operation, plus dependable, trouble-free performance . . . the wanted advantages you'd expect to find only in luxury-priced hoods. And with these advantages comes Broan's recognized quality craftsmanship — the very best in detailed metalworking. See your distributor, or write for full information.

BROAN MIXED-FLO HOOD —
Winner of the "American Builder"
Quality Builders' Product Award



- Vertical or horizontal discharge
- Graceful, contoured styling lets cabinet doors open fully
- Powerful whisper-quiet fan, built in underneath hood, saves cabinet space
- Pushbutton controls, easy to reach, on front of hood
- Concealed twin lights, for soft, glare-free illumination
- Lifetime aluminum filter, removes easily for cleaning
- Factory pre-assembled, prewired for fastest installation
- Just 5" high . . . 24", 30", 36", 42" wide
- Coppertone, antique coppertone, genuine stainless steel — matching splash plates. Decorator colors are available on special order.
- The MIXED-FLO hood, and all Broan hoods, meet H.V.I. requirements.



Manufacturing Company, Inc.

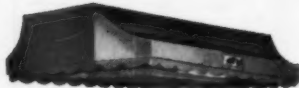
946 W. State St., Hartford, Wis., Near Milwaukee
Specialists in Quality Ventilating Equipment for Over 30 Years

In Canada

Manufactured by Superior Electric, Ltd., Pembroke, Ontario



BROAN DUAL BLOWER HOOD Deluxe, power-packed, whisper-quiet performer . . . vertical or horizontal discharge. Dual centrifugal blowers with 4-pole neoprene-mounted motor . . . seamless construction . . . factory pre-wired, pre-assembled.



BROAN DUAL BLOWER ISLAND HOOD
Has the same engineering features and advantages as the regular Dual-Blower Hood.



DUCT-FREE HOOD COMBINATION
with air-refreshing Charcoal Converter
This slim-line converter mounts atop any dual blower or Mixed-Flo Hood for efficient duct free service.

YOUR GREATEST ASSET IS OUR QUALITY PERFORMANCE!



MARK 61 MODEL (ELECTRIC)

Both gas and electric models fit flush... align with cabinet fronts to give that true built-in look!



MARK 1400 MODEL (GAS)

GIVE HER WHAT SHE WANTS WITH RCA WHIRLPOOL


...the only complete line of GAS and ELECTRIC NO-FROST refrigerator-freezers with true built-in look!

No matter what the home buyer's preference . . . gas or electric . . . there's an RCA WHIRLPOOL refrigerator-freezer to meet most every need, every desire. And, regardless of the kitchen's design, there's an RCA WHIRLPOOL model that's right in size, in type, in style and in price . . . for both you and your customer. It can have No-Frost refrigerator plus No-Frost freezer. It can have IceMagic® automatic ice maker, Jet-Cold* Shelf, Jet-Cold* Meat Chest, swing-out shelves . . . and many other new features that mean so much to modern housewives. Yes, the complete RCA WHIRLPOOL line enables you to buy gas and electric appliances from one source and get a package deal at a package price. Write Contract Division, Whirlpool Corporation, St. Joseph, Michigan for complete details.

*Tmk.


Whirlpool
CORPORATION
ST. JOSEPH, MICHIGAN

Manufacturer of RCA WHIRLPOOL Automatic Washers • Wringer Washers • Dryers • Washer-Dryers • Refrigerators • Freezers
Ice Cube Makers • Ranges • Air Conditioners • Dishwashers • Food Waste Disposers • Dehumidifiers • Vacuum Cleaners.

Use of trademarks  and RCA authorized by trademark owner Radio Corporation of America



the name is magic!

MAGIC CHEF

...and national surveys prove it! Independent surveys show Magic Chef is the best known name in ranges. Magic Chef national advertising in McCALL's, BETTER HOMES & GARDENS, PARENTS' and LIVING continues to increase Magic Chef's outstanding consumer acceptance. Put Magic Chef's prestige name to work for you now. Write or wire Magic Chef, Inc., Cleveland, Tennessee.

Now... the priceless Magic Chef name is yours at a down-to-earth price!



BRAND NAMES DIRECTORY

(Continued from page 232)

ROYAL Chattanooga Royal Co
 ROYAL Crossett Lumber Co
 ROYAL EAGLE Eagle Rule
 ROYAL MARINE
 US Plywood Corp
 ROYAL 24 INCH SHINGLES
 White Creek Shingle Co
 ROYALCOTE CHERRY
 Masonite Corp
 ROYALCOTE WALNUT
 Masonite Corp
 ROYALTEX Polyplastex United
 RUB-R-BOND Elliott Paint
 RUBBERCOAT Wilbur &
 Williams Co
 RUBBERCOTE Thomas
 Moulding Floor Co Inc
 RUBBERLIKE Bird & Son, Inc.
 RUBBERLOCK Mitchel Rubber
 RUGASOL Sika Chemical Corp
 RUGBY Standard Brick & Tile
 RUGGED ROLLING DOOR
 W M Products Co
 RULANE Suburban
 Propane Gas Corp
 RUNWELL Frantz Mfg Co
 RUS-KIL Mobile Paint Mfg
 RUSCO Rusco Div of
 RUST-OLEUM Rust-Oleum
 RUSTBAAR Horn A C Cos
 RUSTEX Elliott Paint
 RUSTGO Stay-Tite Products
 RUTLAND Rutland F&R Clay
 RUUD ALCOA ALLOY Ruud
 S G CORK TILE Dodge Cork
 S I S Allied Chemical Corp
 S-N-S SHIELDS US Expansion
 Bolt Co
 S P SUPREME Southern Pine
 Lumber Co
 SABER-TOOTH Rawplug Co
 SABINITE US Gypsum Co
 SABRE Miller Co
 SAF-SHORE Safway Steel Prods
 SAF-T-CUT Bay State Abrasive
 SAF-T-HOT Hedges M M Mfg
 SAF-T-LOK Certain-Teed Prods
 SAFE Safe Padlock & Hardware
 SAFE-T-MATIC Safety Nail
 Driver Corp
 SAFE-T-TAPS Keystone Mfg Co
 SAFETY GLO Rodale Mfg Co
 SAFETY M I General Cable
 SAFETY PULL Coffing Hoist
 SAFETY-STEP Goodrich B F Co
 Flooring Products
 SAFETY-WALK Minnesota
 Mining & Mfg
 SAFETYBREAKERS Cutler
 Hammer Inc
 SAFTI-VENT Bastian-Morley
 SAFTI-VENT Little H C
 Burner Co
 SAFWAY SHORES Safway
 Steel Products Inc
 ST REGIS American Sisalkraft
 SAKAR Elliott Bay Mill Co
 SALEM Johns-Manville
 SALEM LINE Irmanton Prods
 SAMARA US Plywood Corp
 SAMCO Samuel Stamping
 SAMCO Syral Mfg Co
 SAMPSON Richbilt Mfg Co
 SAN-EQUIP Vega Industries
 SAN MARINO Thomas
 Industries Inc
 SANACOUSTIC Johns-Manville
 SAND-O-FLEX Merit Products
 SANDMASTER 8 Atlas Floor
 SANI-CART American Conveyor
 SANI FLOOR Hollaender Mfg
 SANIMASTER Ruud Mfg Co
 SANITONE American Asbestos
 SANTA CLARA Permanente
 Cement Co
 SANTOBRITE Monsanto
 Chemical Co
 SARALOY Dow Chemical Co
 SARGENT Sargent & Co
 SASHCO Southern Sash Sales
 SATEEN O'Brien Corp
 SATIN-GLAZE Mosaic Tile Co
 SATIN GLIDE Williams Prods
 SATIN GLO Sunbeam Plastics
 SATIN SHEEN Chicago Bronze
 SATIN SPAR Bestwall Gypsum

SATINA Penn-Akron Corp
 SATINHIDE Pittsburgh Plate
 SATINLAC US Plywood Corp
 SATINTEX Seidlitz Paint
 SATINTONE Seidlitz Paint
 SATUROCK Carter-Waters
 SAV-A-DOR Ludwig Mfg Co
 SAV-A-SCREEN Farley &
 Loetscher Mfg
 SAVABRUSH Schalk Chemical
 SAW MASTER Master
 Woodworker Mfg Co Inc
 SAW ZALL Milwaukee Elec
 Tool Corp
 SCATTER TWEED Wallace
 Mfg Co
 SCENERAMIC Oro Mfg Co
 SCHALKS Schalk Chemical Co
 SCOOPMOBILE Mixermobile
 SCOOT-CRETE Getman Bros
 SCORBORD Dow Chemical Co
 SCOTCH BRAND Minnesota
 Mining & Mfg Co
 SCOTCH-TRED Minnesota
 Mining & Mfg Co
 SCOTCHRAP Minnesota & Mfg
 SCOTSMAN Clipper Mfg Co
 SCOTSMAN Kennatrack Corp
 SCOTTIE Kennatrack Corp
 SCOUT Slaymaker Lock Co
 SCREEN-BAK Behr-Manning
 SCREEN-GLASS Warp Bros
 SCREEN-O-MATIC Lockhart
 SCREENLOK Safetec Glass Co
 SCREW-TITE NAILS
 Independent Nail & Packing
 SCRO-GRILLS Hutchinson R H
 SCRU-DRILL Black & Decker
 SCRU-LEADS Rawplug Co Inc
 SCRUGUN Black & Decker Mfg
 SEA SWIRL US Plywood Corp
 SEADRIFT Masonite Corp
 SEAL-A-DOOR Seal-A-Door Co
 SEAL-A-MATIC Superior
 Window Co
 SEAL-DRAFT Sun Screen Prods
 SEAL-DRI O'Brien Corp
 SEAL-EAZ Precision
 Weatherstrip Co
 SEAL-FLEX Grand Rapids
 Hardware Co
 SEAL-FOIL Sealite Insulation
 SEAL-KOTE Wooster Sealkote
 SEAL-O-MATIC Johns-Manville
 SEAL-O-CEDAR Aloha Lumber
 SEAL O CEDAR Smith M R
 SEAL-TITE Starline Inc
 SEAL-TITE Visador Co
 SEAL-TREAT American
 Asbestos Product Co
 SEALAIR WINDOW Kawneer
 SEALIGHT Coddington E D
 SEALDON Certain-Teed Prods
 SEALIT Sullivan Co
 SEALMASTER Ida Products
 SEALTIGHT Meadows W R
 SEASON-MASTER McQuay Inc
 SEASONMAKER McQuay Inc
 SECTIONFOLD DOORS
 Wilson J G Corp
 SECURIT American-Saint
 Gobain Corp
 SECURITY Cole Mfg Co
 SECURITY ROOFING
 National Mfg Corp
 SED-N-COTE Seddon Co
 SED-N-SEAL Seddon Co
 SED-N-SET Seddon Co
 SED-N-SHADE Seddon Co
 SEDCON Sedcon Inc
 SEEDED EMERI-EPOX
 Maguire Walter Co Inc
 SELBALITH Selby Battersby
 SELBATEX Selby Battersby
 SELCKRAFT Selck Walter E
 SELECTAIR Johnson S T
 SELF-CONTAINED
 WEATHERMAKER
 Carrier Corp
 SELF SEAL United Industries
 SELF-SETERING Republic
 Steel Corp Truscon Div
 SENECA Keystone-Seneca
 Wire Cloth Co

(Continued on page 284)

How to make a husband buy a house...

(make his wife fall in love with the kitchen)



"No more dried out roasts, Dear" The Westinghouse Built-In Oven helps make every wife a perfect cook thanks to the exclusive Westinghouse "Roast Guard"—a feature that keeps meat juicy, hot and tender hours after cooking. For convenience sake, the Controls are at eye level . . . mounted at the side out of the heat zone. Oven door lifts off for easy cleaning. Can be built-in or stacked. Installs with just two screws. *You can be sure . . . if it's Westinghouse.*



"Who needs help with a kitchen like this" When your prospect sees a kitchen equipped with Westinghouse Built-In Appliances, she starts thinking in terms of *her* home. And no wonder! Only Westinghouse has a Center Drawer Refrigerator that keeps meat fresh 7 days without freezing; a washer and dryer in only 25" of floor space . . . plus many other unique appliances.

These appliances and Kitchen Cabinets, plus Heating & Air Conditioning, Wiring Devices, Micarta® Counter Tops, Apartment Elevators, are all available through one point of contact. See your Westinghouse residential sales manager or write Westinghouse Electric Corporation, Contract Sales Dept., Mansfield, Ohio;

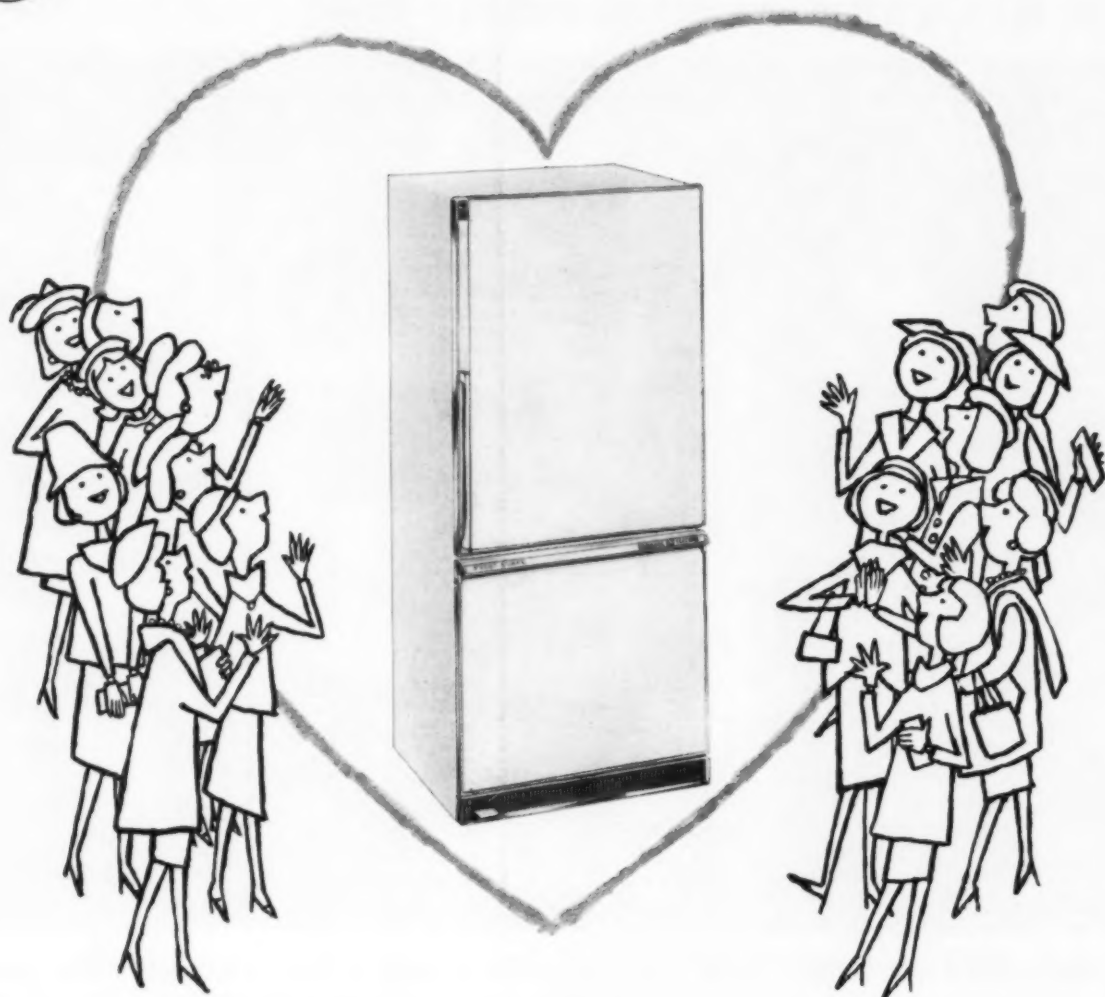


Westinghouse

Westinghouse Electric Corporation Contract Sales Division Mansfield, Ohio	AB-4
Send me complete information on Westinghouse Built-In Appliances and Cabinets.	
NAME _____	
COMPANY _____	
ADDRESS _____	
CITY _____	ZONE _____ STATE _____



Mark of Quality your customers recognize



More...and more women want a G-E Refrigerator

According to a recent survey, General Electric is the number one name in the home appliance field—and by a big margin. Could be the fact that General Electric makes such a broad line of refrigerators—many sizes, many prices, all with convenience-features the ladies obviously like. Could be General Electric's dependability—6 million refrigerators in use ten years or longer. Could be you're making sales the hard way if you're not including a General Electric Refrigerator in your homes. Your General Electric Distributor will show you how easy it is. Call him now.

Progress Is Our Most Important Product



GENERAL  ELECTRIC

Household Refrigerator Dept., Louisville 1, Ky.



The mark of quality your customers recognize

NOW ALL CONTROLS ARE EYE-HI

The Eye Appeal with Buy Appeal on General Electric Built-in Ranges—General Electric, the "New Idea Line" has another bright brainchild for '61: *all* controls for the Custom cooktop (including the automatic Sensi-Temp* unit) are on the hood! They line up with oven controls for the handsomest coordinated cooking center yet. And there are three brand new General Electric hoods in '61 . . . two with surface unit controls. News too: Mix-or-Match color inserts . . . inspiration for decorators!

Built-in Beauty in Any Price Range! Choose your ideal General Electric combination from six oven models, seven cooktops, three hoods! There's a combination to suit every homebuilder's need. Mix-or-Match colors, coppertone, and stainless steel. In today's market, it's not enough simply to match your competitors' built-ins. Women want features and the quality name. With General Electric's new look and new ideas, your home is 1961 all the way.

General Electric Company, Range Dept., Appliance Park, Louisville 1, Ky.
*Trademark of General Electric

Progress Is Our Most Important Product

GENERAL  ELECTRIC

Above: Single Custom Oven JC15, Cooktop JP84 with remote controls on Hood JH94. *Below:* Famous Sensi-Temp Control on JH96 Hood. Custom Double Oven JC28 has exclusive "Dinner Dial" controls for *both* ovens. Cooktop JP86. *At bottom:* Low-priced combination with eye (and buy) appeal. Deluxe Oven JD12, Cooktop JP76, Hood JH92.





Lucky tenants in Max H. Resnick's Nord-Crest Apartments stay delightfully cool all through Southern California's long, hot summers. One-bedroom apartments have a 10,000 BTU General Electric Room Air Conditioner; larger apartments have two.

"GENERAL ELECTRIC ROOM AIR CONDITIONING HELPS RENT MY APARTMENTS...KEEPS THEM RENTED, TOO"



MAX H. RESNICK

"Prospects are impressed when they see the General Electric name," says President Max H. Resnick of Max H. Resnick Construction Company, Reseda, California. "Tenants like the performance and the neat, built-in look of their air conditioners.

I like General Electric's prompt, efficient service—the best in this area."

Mr. Resnick bought 250 built-in units last year . . . recently ordered 350 more. "Installation is easy," he adds. "We install the cases during construction, the chassis later. Chassis are delivered—and I pay for them—when construction is finished." All of his lux-

ury apartments will be completely air conditioned by General Electric Built-In Room Air Conditioners.

Choose from 18 different models ranging from 6,000 to 18,000 BTU's*. There's a General Electric Room Air Conditioner for almost every wiring and installation need. General Electric Company, Room Air Conditioner Department, Appliance Park, Louisville 1, Kentucky.

*Capacities tested and rated in compliance with NEMA standard CNI-1960, and stated in terms of British Thermal Units.

Progress Is Our Most Important Product



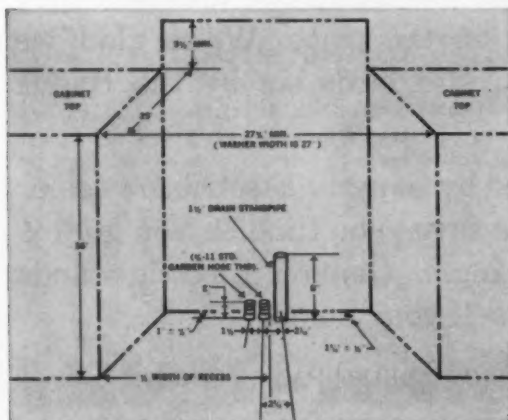
GENERAL  ELECTRIC



Air conditioning doesn't mar the appearance of these attractive apartments, inside or outside. Inside grilles also are neat and unobtrusive. Modern, rust-proof grilles of aluminum replace outside closure panels when the chassis are installed.



Install the new General Electric Filter-Flo® Washer flat against the wall...and save valuable space!



The General Electric 1961 Filter-Flo Washer may be installed flush-to-the-wall, as shown above, with special Installation Kit which is available from the General Electric Distributors. The kit contains drain hose, drain air-brake and complete, detailed directions.

To give your kitchens or utility rooms a custom-built effect—all hose and plumbing connections are recessed—in most models in the new 1961 line. Every Filter-Flo model is counter height and depth, 36" by 25". And that's what the ladies love today!

They'll love the new 12-lb. capacity, too—20% more than in previous models and now found in every model. A typical 12-lb. load is 3 double sheets, 4 pillowcases, 3 men's shirts, 4 T-shirts, 3 heavy bath towels, 5 washcloths, 12 handkerchiefs—tablecloth. Every piece gets piece-by-piece washing action.

As always, you can promise your prospects the quality and dependability only General Electric delivers. Ask your General Electric Distributor for complete information. Or write to the General Electric Home Laundry Dept., Room 207D, Bldg. 1, Appliance Park, Louisville 1, Kentucky.

Progress Is Our Most Important Product

GENERAL  ELECTRIC



SUCCESS # 7 STORY



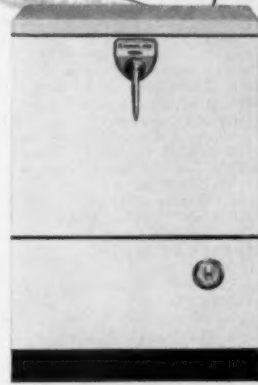
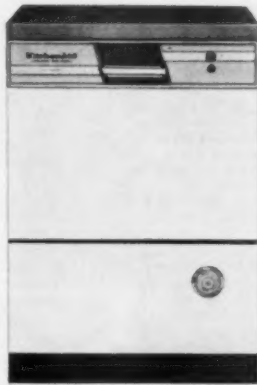
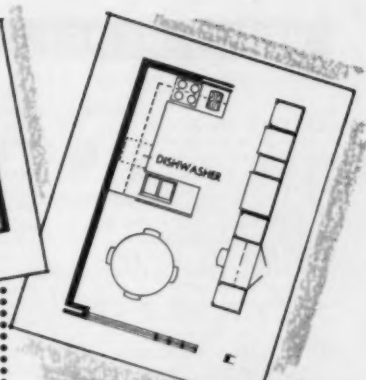
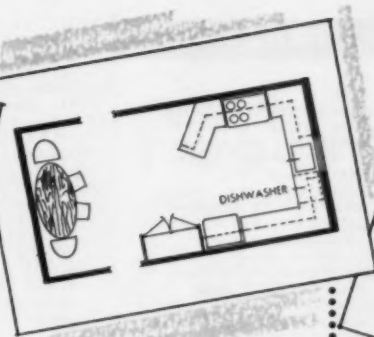
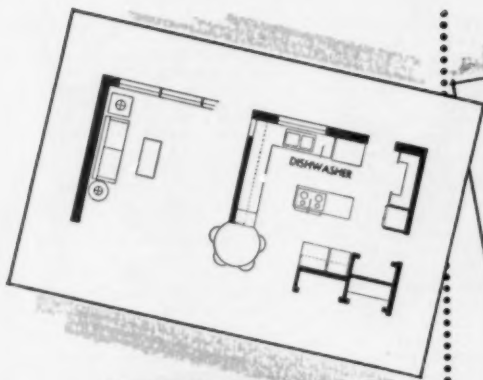
"We sold our Medallion Homes 4 to 1 over competitive houses in our area," says Eric Eriksson, Builder of Oak Park Estates, Dallas, Texas. "I give full credit to the safety, convenience and beauty of the General Electric features. People love home heating and cooling in *one* unit and they like getting kitchen appliances included in the price. We're glad we built these homes to the Gold Medallion standards set by the Dallas Power & Light Company."

Homebuilders: Medallion Homes equipped by General Electric are easier to build and *sell*. Here's why: 1. *One source* saves you time. 2. You get expert assistance in all your electrical planning. 3. General Electric stands for quality. 4. A new local plan helps you sell your homes!

Call your General Electric Major Appliance Distributor, *today*.

Progress Is Our Most Important Product

GENERAL  ELECTRIC



Superba VariCycle
SERIES

Imperial
SERIES

Custom
SERIES

Now...a quality
KitchenAid®
dishwasher for every home you build

More models and features than ever before, with a wider price range, too. Now KitchenAid can help every kitchen say "quality home" to prospects. Wide choice of finishes, including wood. Front-trim kits let you match counters, cabinets, floor or walls for a decorator look.

New performance; new styling; push buttons; new king-size capacity; convenient, *load-as-you-like* racks—all combine with the KitchenAid reputation for finest washing. Use these new KitchenAid dishwashers and their unmatched features to sell the lady, in the room that sells the house.

KitchenAid®

A model for every kitchen...every budget

KitchenAid Home Dishwasher Division
The Hobart Manufacturing Co., Dept. KAB
Troy, Ohio (In Canada: 175 George St., Toronto 2)

- I want information on the new dishwasher line.
- Send me name of nearest distributor.

Name

Firm

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

BRAND NAMES DIRECTORY

(Continued from page 276)

SENTINEL Berkeley Aluminum Products
SENTINEL Crane Co
SENTINEL Speakman C
SENTRY DOOR SEAL
 Sentry Stop-A-Draft Co
SEQUOIA Congoleum-Nairn Inc
SEQUOIA Redwood Sales Co
SERVANET Hyde Park Prods
SERVICE-MASTER McCabe Powers Body Co
SERVICE-WAY Vega Industries
SERVIS GYRO Servis Equipment Co
SERVIS LONE STAR Servis Equipment Co
SERVIS NO. 7 Servis Equipment
SERVIS 66-INCH Servis Equipment Co
SETFAST Cambridge Tile Mfg
75 HOUSE PAINT O'Brien
SEWERTITE Carey Philip Mfg
SHADE SCREEN Rudiger-Lang
SHADESCREEN Kaiser Aluminum & Chemical Corp
SHADO-SHAKE Supradur Corp
SHADOW-CAST Certain-Teed
SHADOWBESTOS
 Johns-Manville Corp
SHADOWLAP Celotex Corp
SHADOWWOOD Lehman Co
SHADOWVENT SIDING
 Masonite Corp
SHAKERTOWN Shakertown
SHALLOW-FLOW
 Goulds Pumps Inc
SHARP ALL Belsaw Machinery
SHEDWELL Frantz Mfg Co
SHEETROCK US Gypsum Co
SHEFTY Sheffield Div
SHELBY Columbia Geneva
SHIELDCOTE ENAMEL
 Marietta Paint & Color Co

SHIELDWHITE PAINT
 Marietta Paint & Color Co
SHINGLE N SHAKE Lowe Bros
SHOJI Clopay Corp
SHOLUME Shower Door Co
SHOPMASTER Shopmaster Div
SHOPMATE Partable Electric Tools Inc
SHORGAS Suburban Propane
SHORTY Black & Decker Mfg
SHOVELAIRE C & H Air Conditioning Co Inc
SHOWCASE Congoleum-Nairn
SHOWER MAGIC Daryl Prods
SHOWERAMA Daryl Products
SHOWERGLASS
 Shower Door Co of America
SHOWERITE Efron Theodore
SHUR-TRED Johnson's Wax
SHURE-SET Ramset Fastening System
SHUREBOND UNIT SYSTEM
 Goldsmith Metal Lath Co
SHUREDREY Fulton Cotton
SI-CLONE Simonds Saw
SI-FLO Speakman Co
SIERRA Fiat Metal Mfg Co
SIGMA Wakefield Co
SIGUNIT Sika Chemical Corp
SIKA-GARD Sika Chemical
SIKA-KOTE Sika Chemical
SIKA SEAL Sika Chemical
SIKACRETE Sika Chemical
SIL-O-ETT US Gypsum Co
SILACOAT American Asbestos Product Co
SILATEX Tamm Industries
SILENT-FLOW Goulds Pumps
SILENT GLIDE
 Weatherproof Products Corp
SILENT KNIGHT
 White-Rodgers Co
SILENT NITE Wright Prods
SILENTILE Curtis Companies

SILENTITE Curtis Companies
SILENTVANE Westinghouse Electric Corp
SILI-TITE Sterling Quality
SILICONE SEAL Penn Crete
SILICONE X-5
 Elliott Paint & Varnish Co
SILVARA Shakertown Corp
SILVAWOOL Weyerhaeuser Co Silvatek Div
SILVER KING Arrow Expansion Bolt Co
SILVER STEEL Atkins Saw Div
SILVERCEL Silvercote Products
SILVERSTAR Alumatic Corp
SIMBA Tubular Structures
SIMPLE-L-ON Conver Steel
SIMPLEX Mansfield Sanitary
SIMPLEX Revere Copper
SIMPLEX FOLDING
 STAIRWAY Precision Parts
SINK-LOK B & T Metals Co
SINKETTE Elkay Mfg
SIOUX Albertson & Co Inc
SISAL-GLAZE American Sisalkraft Corp
SISALATION American Sisalkraft Corp
SISALITE American Sisalkraft
SISALKRAFT American Sisalkraft Corp
#633 TILE ADHESIVE
 Tamm Industries Co
61 Pratt & Lambert Inc
SIZE-O-MATIC Leigh Building Products
SKID-LOADER Drott Mfg
SKID-SHOVEL Drott Mfg Corp
SKILSAW Skil Corp
SKIPPER Fiat Metal Mfg Co
SKOOPER Koehring Co
SKOTCH Superior Fastener
SKREW-SET Ramset Fastening
SKUFFPRUF Richkraft Co
SKY-BLAST Robbins & Myers
SKY-MASTER McCabe Powers Body Co
SKY WITCH Witch Marketing

SKYDOME Wasco Products Inc
SKYLIKE Silvray Lighting Inc
SKYMASTER Acme Engineering
SLATEKOTE Johns-Manville
SLENDER Dunkirk Radiator
SLIDAROL Ida Products
SLIDE-O-MATIC Storm King
SLIDE-O-RAMIC Wisco Inc
SLIDERITE Grant Pulley
SLIM-LINE Empire Level Mfg
SLIMFOLD American Steel
SLIP-JOINT Logan Clay Prods
SLOPE-BEAM Inland Steel
SLUMBER GLO Rodale Mfg
SLUMPSTONE General Concrete Products Inc
SMALMESH Inland Steel
SMITH & EGGE Turner & Seymour Mfg Co
SMITHMOBILE Smith T L Co
SMOOTH-AIRE Ideal Brass
SMOOTHFORM US Plywood
SMOOTHGRAIN
 Johns-Manville Corp
SMOOTHLITE Insulite Div
SNAP York Wall Paper Co
SNAP-JOINT Victaulic Co
SNAP-ON Ideal Brass Works
SNAPICOIL Wiremold Co
SNAPIT Cable Electric Prods
SNAPLOK Reeves Steel & Mfg
SNOW DRIFT US Gypsum Co
SNOW WHITE Tammus Indus
SNUG Weil-McLain Co
SNUG FIT Paine Co
SNUG-TITE Engineered Products Co
SO HARD SCREWS Screw & Bolt Corp
SOFTITE Wheeling Steel Corp
SOLAR SHADES Superior Window Co
SOLARDOME Klise Mfg
SOLARGRAY Pittsburgh Plate
SOLEX Pittsburgh Plate Glass
SOLIDEX Pratt & Lambert Inc
 (Continued on page 290)

Wincroft BUILT-INS

Quality Appeal: Price Appeal

Your choice of decorator colors and finishes . . . beautiful satin chrome plated steel, and in porcelain enamel—coppertone, silvertone, pink, yellow, white and turquoise.

A. G. A. Tested and Approved

SOME OF WINCROFT'S OUTSTANDING FEATURES

Electric Clock with 4-hour Timer • Robertshaw Automatic Oven Control • Perma-View Non Fog Glass Oven Door • Two-piece Broiler Pan and Grille • Porcelain Enameled Outer Jacket • Lifetime Cast Iron Burners • Porcelain Enameled Burner Box • Many other features.

Write for full information

DISTRIBUTORSHIPS AVAILABLE IN SOME CHOICE TERRITORIES

Quality with Economy Since 1856

THE STOVE WORKS, INC. Middletown, Pennsylvania



OVEN UNIT W-610A SHOWN

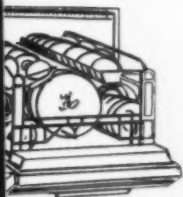
HOW TO SELL
MORE HOUSES:

IDEA #1



Convenience-quality-color! Huge Visualite oven, eye-level controls, every major gas or electric cooking feature that women want. Six warmly beautiful colors to blend with your kitchen decor — 14 different surface arrangements. Ovens, surface units interchangeable. All fit standard cut-outs.

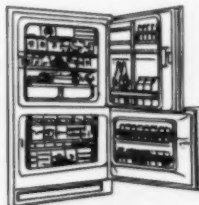
Offer **TAPPAN** gas or electric built-in ranges
... plus the complete Tappan package



Dishwashers



Disposers



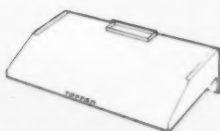
Refrigerators

**ALL TAPPAN
APPLIANCES
MAY BE
COLOR MATCHED**

**MAIL POSTCARD
TODAY!**



Sinks



Range Hoods

Postage
Will Be Paid
by
Addressee

No
Postage Stamp
Necessary
If Mailed in the
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BUSINESS REPLY MAIL

First Class Permit No. 3 (C.F.R. 34.9), Mansfield, Ohio

THE TAPPAN COMPANY
Dept. AB 4-1
Mansfield, Ohio

Attention: Mr. Ken Berkey



TAPPAN 'FABULOUS 400'—40 inches wide. Stand on cabinet—hang on wall. Always looks built-in! Self-vented. No special cut-outs needed. Hideaway surface units. Dozens more features.



TAPPAN 'DEBUTANTE 400'—30 inches wide. Reach-in height oven, broiler. Easy to clean. Self-vented. No cut-outs needed. Eye-level controls. Back units hide away when not in use.

HOW TO SELL MORE HOUSES: Offer the **TAPPAN '400'**...
IDEA #2 most exciting range made today!



11:00—wiring, vent roughed in



11:05—base cabinet in place



11:20—set and wires connected



11:30—soup's on!

Please supply me with complete specification, installation and model information on Tappan:

- Built-in gas ranges Built-in electric ranges
 Electronic ranges Built-in refrigerators Built-in dishwashers
 The 'Fabulous 400' and the 'Debutante 400'

Name _____

Address _____

City _____ Zone _____ State _____

You'll save up to \$166 on installation costs!

	Save*
Single conduit connection.....	\$25.00
No separate vent or hood.....	\$50.00
No countertop covering.....	\$20.00
No oven cabinet needed.....	\$45.00
Labor saving.....	\$26.00
*Savings approximate	\$166.00

GAS, ELECTRIC, ELECTRONIC...
 Nothing cooks or looks like a

TAPPAN

Mansfield, Ohio • Montreal, Quebec

PAINTS, FINISHES, WATERPROOFING

Paints and Finishes

Suggested Exterior Color Schemes

If the roof of the house is	GRAY						GREEN					RED			BROWN				BLUE											
You can paint the body	White	Gray	Cream-yellow	Pale green	Dark green	Putty	Dull red	White	Gray	Cream-yellow	Pale green	Dark green	Beige	Brown	Dull red	White	Light gray	Cream-yellow	Pale green	Dull red	White	Buff	Pink-beige	Cream-yellow	Pale green	Brown	White	Gray	Cream-yellow	Blue
... and the trim or shutters and doors	Pink	X	X	X	X	X	X	X	X	X	X	X	X	X																
	Bright Red	X	X	X				X	X	X	X	X				X	X	X	X								X	X	X	X
	Red-orange	X	X			X		X	X	X	X	X										X					X	X	X	X
	Tile red	X	X	X	X	X		X	X	X	X	X				X	X	X	X			X	X	X	X		X	X	X	
	Cream	X			X	X	X	X	X	X	X	X			X				X							X	X	X	X	
	Bright yellow	X	X	X	X	X		X	X	X	X	X										X				X	X		X	
	Light green	X	X		X	X	X	X	X	X	X	X						X	X											
	Dark green	X	X	X	X	X		X	X	X	X	X			X	X			X	X	X	X	X	X						
	Grey-green	X	X	X	X	X		X	X	X	X	X			X				X	X	X	X	X							
	Blue-green	X	X					X				X			X	X			X	X	X	X								
	Light blue	X	X					X																			X	X	X	
	Dark blue	X	X		X	X		X				X					X			X		X					X	X	X	
	Blue-gray	X	X		X	X	X	X				X			X	X			X		X								X	
	Violet	X	X					X														X								
	Brown				X	X	X	X	X	X									X	X	X	X	X							
White		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

What to use ... and where

X. Black dot indicates that a primer or sealer may be necessary before the finishing coat (unless surface has been previously finished).

	House Point	Aluminum Point	Exterior Clear Finish	Rubber Base Point	Cement Base Point	Transparent Sealer	Wood Stain	Roof Cement	Roof Coating	Asphalt Emission	Metal Roof Point	Trim-and-Trails Point	Spar Varnish	Awning Point	Primer or Undercoat	Porch-and-Deck Point
Clapboard Siding	X.	X														X
Brick	X.	X	X	X	X											X
Cement & Cinder Block	X.	X	X	X	X											X
Asbestos Cement	X.	X														X
Stucco	X.	X	X	X	X											X
Natural Wood Siding & Trim		X	X													X
Metal Siding	X.	X.									X.					X
Wood Frame Windows	X.	X.									X.					X
Steel Windows	X.	X.									X.					X
Aluminum Windows	X.	X									X.					X
Shutters & Other Trim	X.										X.					X
Canvas Awnings												X				
Wood Shingle Roof			X													
Metal Roof											X.					X
Coal Tar Felt Roof			X	X	X											
Wood Parch Floor																X
Cement Parch Floor			X													X
Copper Surfaces													X			
Galvanized Surfaces	X.	X.									X.	X	X			X
Iron Surfaces	X.	X.									X.					X

Tips on Color

If you have:	And you want:	Do this:
Blue	Dark Blue	Add Black
Blue	Light Blue	Add White
Green	Deep Green	Add Blue or Black
Green	Light Green	Add Yellow or White
Green	Olive	Add Blue and Red
Orange	Brown	Add Blue
Red	Dark Red	Add Black
Red	Light Red	Add Orange
	(not Pink)	
Red	Brown	Add Green

Primary and Secondary Mixtures

Red plus Yellow makes Orange
 Yellow plus Blue makes Green
 Blue plus Red makes Purple
 Orange plus Green makes Citron
 Green plus Purple makes Olive
 Purple plus Orange makes Russet
 (Try a small sample first for desired color)

Natural Finishes

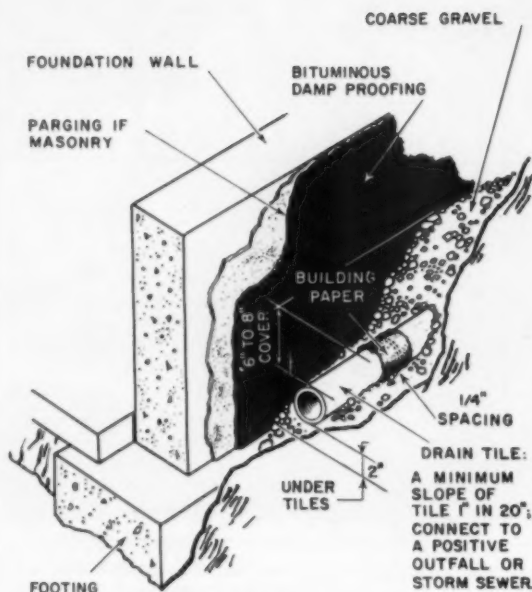
The following are natural-finish systems for outdoor use on redwood. **WATER REPELLENTS:** Easy to apply. Easy and inexpensive to maintain. No special preparation required prior to refinishing. Field experience indicates that paintable water-repellent preservatives provide the most satisfactory natural treatment for exterior redwood. Products meeting requirements of Federal Specifications TT-W-572 should prove satisfactory. **BLEACHES and FLAT-PIGMENTED STAINS:** Easy to apply. Easy and inexpensive to maintain. No special preparation required prior to refinishing. While these finishes give good service when applied to dressed surfaces, they may be expected to last over twice as long when applied to sawn surfaces. **GLOSSY STAIN-AND-CLEAR COMBINATIONS and GLOSSY CLEARS:** These are film-forming finishes and must be applied carefully to a properly prepared surface in order to obtain satisfactory results. If these finishes are used in protected locations, they may be expected to give good service. They should be used on exposed areas only with the realization that they may be expected to require maintenance in less than two years and that, after one or two maintenance coats, special surface preparation, involving complete removal of the old finish, probably will be required. For complete information and recommended products, write to the California Redwood Assn., 576 Sacramento St., San Francisco 11, Calif.

For additional information on natural finishes, see FHA Minimum Property Standards, Section 910, Painting and Decorating, or write The National Paint, Varnish and Lacquer Assn., 1500 Rhode Island Ave., N. W., Washington 5, D. C.

Tables Courtesy National Paint, Varnish and Lacquer Assn.

PAINTS, FINISHES, WATERPROOFING

Waterproofing and Dampproofing



Placement of the drain tile has FHA approval for minimum acceptable protection. For maximum protection, tile should be laid on the same plane as footing. Joint between foundation and footing should be flashed.

FHA REQUIREMENTS

Foundations or footing drains connected to a positive outfall shall be provided around foundations enclosing basements or habitable spaces below grade. Install at or below area to be protected.

Clay or concrete drain tile shall comply with ASTM C-4 or ASTM C-412, or tile may be asbestos cement or bituminized-fiber pipe.

Drain tile shall be installed having a minimum slope to outfall of 1/2 per cent (approximately 1 inch in 20 feet). Protect top of joints in drain tile with 6 to 8 inches of coarse gravel or crushed rock or blast-furnace slag. Provide approximately 2 inches of aggregate material under tile.

Foundation drains may be omitted, when acceptable to FHA field office, in locations where well-drained soil exists or where ground or surface water will not present a problem.

Exterior foundation walls of masonry or of double-formed concrete enclosing basement or habitable space below grade shall be dampproofed.

masonry foundation walls

a. Apply at least 1 coat of Portland cement parging to wall from footing to finish grade. Minimum thickness, 3/8 inch.

b. Apply at least 1 coat of bituminous dampproofing material over parging. Apply at rate recommended by the manufacturer. Bituminous materials shall comply with 712-1 (FHA Minimum Property Standards).

concrete foundation walls

Apply at least 1 coat of bituminous dampproofing material to wall from footing to finish grade. Apply at rate recommended by manufacturer. Bituminous materials shall comply with 712-1 (FHA Minimum Property Standards).

Foundation dampproofing may be omitted, when acceptable to FHA field office, in locations where well-drained soil exists or where ground surface water will not present a problem.

Masonry water-repellent Specifications

material

Shall be a clear, colorless solution in mineral thinner and shall have a flash point of not less than 80° F. It shall have a solids content of not less than 5%, of which 100% shall be silicone resin.

The water-repellent material shall not have an obnoxious odor either in the container or during application. It shall be of such consistency that it may be applied readily at sub-freezing temperatures, and shall leave no visible film after application.

scope

It shall be used on all exterior above-grade masonry surfaces such as concrete, brick, stucco, concrete block, porous tile, stone and mortar joints in all types of masonry structures.

surface preparation

Clean all surfaces to be treated until free of dirt, excess mortar, loose particles and all other foreign material. Remove salt deposits from previous efflorescence, by washing with dilute acid solution, such as muriatic, followed by thorough flushing with water. Grease or oil stains may be removed with mineral solvents, caustic cleaning compounds or detergent solution, followed by rinsing with clear water. Repoint all joints where mortar is loose or missing. Repair all holes and cracks larger than hairline. If surfaces to be treated have been wetted by rain or copious amounts of water in the cleaning process, at least two days drying, under favorable conditions, should be allowed before application of the water repellent treatment. New masonry requires 2 to 3 weeks drying under normal conditions before application of a water repellent.

application

Preferred application is by low spray, not exceeding 10 psi at the gun and the lowest possible fluid pressure that will maintain a continuous flow of material. Keep nozzle of gun approximately 6 inches from the wall and make final pressure adjustment to completely eliminate or minimize splashing and formation of a mist or fog. The water repellent should be flooded on to the surface to the point of maximum absorption, as indicated by a run-down of six to twelve inches or more, depending upon the denseness of the masonry. Application should be made at the rate of 75-100 square feet per gallon on masonry of normal porosity. On dense masonry which will not accept and absorb the water repellent at that rate, the coverage may be extended to a maximum of 175-200 square feet per gallon. In such situations, two coats may be desired. At least two to four hours under good drying conditions should be allowed between coats.

Application by brushing is satisfactory if care is taken to apply a liberal enough coat to meet recommended coverage rate. Roller application at the same rate is also satisfactory if the surface is smooth enough for all areas to be reached. Most often, however, in masonry construction the mortar joints are inset to such an extent that low pressure spray or brush application is the only practical satisfactory method of application. The same would apply to coarse texture stucco.

Overspray or splashing on other exterior oil or water based paints is harmless and may be left without damage. The water repellent may be removed from glass or hardware at any convenient time with a cloth dampened with paint thinner.

safety precautions

A dilute water-repellent solution prepared as indicated under "Material" constitutes no more of a hazard than any ordinary architectural paint when normal precautions are taken and "good housekeeping" is practiced. Because of the high-solvent concentration, prolonged breathing of vapors should be avoided and the usual precautions against fire should be observed. When spraying the water repellent, even at the recommended low pressures, the operator should be protected with goggles and a respirator that will prevent the passage of solvent mist or fog, which, when inhaled, is very toxic.

Courtesy: General Electric Co.

PAINTS, FINISHES, WATERPROOFING


Vapor Barriers

• GENERAL DATA

Resistance to the flow of heat through insulation installed in a wall, roof or slab is so much greater than that of other elements in the construction of a building that condensation may result in this insulation. Most insulations block heat but pass vapor. A simple prevention to condensation is to stop the flow of water vapor with some surface material that is impervious to moisture. Such a surface is called a vapor barrier. Vapor barriers are made

from a variety of materials. They should be installed on the warm or interior side of walls and roofs; and they should be next to or part of the insulation. Since vapor behaves as a gas, the barrier should be airtight or as nearly so as possible. Permeability of vapor barriers is measured in perms. A Perm equals the grains per sq. ft. per hr. per in. of mercury difference in vapor pressure at standard test conditions.

VENTILATION AND BARRIER REQUIREMENTS TO PREVENT CONDENSATION*

CONDENSATION ZONES		Attic	TYPE OF ROOF	TOTAL FREE AREA OF VENTILATION	VAPOR BARRIERS			
					Zone 1	Zone 2	Zone 3	
		Unheated	FLAT ROOF Slope less than 3/12 (ctr.)	1/300 Uniformly distributed at eaves. Free circulation through all spaces required.	Required on warm side in top story ceiling.			
			CABLE ROOF Slope over 3/12	1/300 At least 2 louvers on opposite sides near ridge.	Required on warm side in top story ceiling.	Considered unnecessary.		
		Heated	HIP ROOF	1/300 1/600 uniformly distributed at eaves & 1/600 at ridge with all spaces interconnected.	Recommended on warm side in top story ceiling.	Considered unnecessary.		
			GABLE or HIP ROOF	↓ (ctr.)	Recommended on warm side in top full story ceiling, dwarf walls sloping part of roof & attic story ceiling.	Considered unnecessary if insulation is omitted.		

Zone 1. roughly includes design temps. of -20°F. & lower
Zone 2. from 0°F. to -10°.
Zone 3. areas warmer than 0°F.

*The figure given indicates that the clear opening of vents totaled should be 1/300 of the bldg. area at eave line. Only 10% of given figure necessary if bsmt. has slab, or crawl space earth covered with 55# felt lapped 2".

• MATERIAL PERMEABILITY DATA

Forest Products Laboratory lists, in perms, the water vapor permeability of various building materials as follows:

MATERIAL	WV Transmission		MATERIAL	WV Transmission	
	Low	High		Low	High
• Sheathing and Roofing Products					
15-lb. sheathing paper	2.555	3.847	30-85-30 untreated, reinforced	.296	.654
15-lb. tar felt	1.560	4.055	30-120-30 untreated, reinforced	.346	.389
30-lb. tar felt	33.304	.....	60-30-60 1 covering sheet saturated with asphalt	.935	1.037
15-lb. asphalt felt	.560	2.007	Duplex paper-coated both sides with reflector's material	.226	.....
30-lb. asphalt felt	.498	3.022	Duplex paper-coated both sides with reflector's material reinforced	.304	.347
Asphalt-coated paper	.146	.287	Duplex paper-covered with aluminum foil one side	.001	.107
55-lb. roll roofing	.030	.081	• Single Sheet Kraft, Double-Infused		
• Polyethylene Film					
0.002 in. thick	.....	.270	Asphalt-saturated Kraft	7.447 to	.....
0.004 in. thick	.097	.108		7.987	11.656
• Insulation Back-up Paper					
Paraffin coating, 1 side	.133	.237	Asphalt-saturated Kraft, 30% asphalt	30.764	.....
Single infused	.433	.583	• Miscellaneous		
Single infused, ribbed	.162	.232	3/4-in. fiberboard sheathing with light asphalt coat	6.320	8.460
Asphalt saturated, one side glossy	.327	.377	1/2-in. gypsum sheathing	18.200	21.950
• Duplex or Laminated Products, Asphalt Laminæ					
30-30-30 untreated	.447	1.081	3/8-in. gypsum lath with aluminum foil backing	.061	.277
30-60-30 untreated	.527	.....	Aluminum foil mounted on paper backing	.003	.005
30-100-30 untreated	.280	.....	Premoulded membrane	.0066	.....
30-30-30 untreated, creped	.583	1.812			
30-30-30 untreated, reinforced	.305	.....		

BRAND NAMES DIRECTORY

(Continued from page 284)

SOLIDOR Farley & Loetscher
SOLIDWOOD Hardwood Corp
SOLITE Oro Mfg Co
SOLRAY Weil-McLain Co
SONITE Smooth-On Mfg Co
SONOIRDUCT Sonoco Prods
SONOCOR Owens-Corning
SONOFACED Owens-Corning
SONOMEND Sonneborn
 Chemical & Refining
SONOTUBE Sonoco Prods Co
SOUND-GUARD Progress Mfg
SOUNDBILT Puget Sound
 Plywood Inc
SOUTH-PLY-WOOD Southwood
 Products Co
SOUTHERNER Norman
 Products Co
SOVEREIGN Miller Co
SPACEMASTER Lewis-Shepard
SPACEMASTER New Castle
SPACESAVER Payne Co
SPAKO-PATCH Tamms
 Industries Co
SPAN Howard Mfg Co
SPANCRETE West Allis
 Concrete Products Co
SPANDRELITE Pittsburgh
 Plate Glass Co
SPARKLEWOOD
 Congoleum-Nairn
SPARTAN Lithibar Co
SPARTAN Mansfield Sanitary
SPARTAN Parker S Hardware
SPECIALMESH Inland Steel
SPECIFICATION Allied
 Chemical Corp
SPECIFICATION GRADE
 DEVICES Leviton Mfg Co
SPECTRIM Pittsburgh Plate
SPECTRO-MATIC TINTING
 SYSTEM Rockcote Paint Co

SPECTRO-MATIC WOOD
TONES Rockcote Paint Co
SPEE-D Leigh Building Prods
SPEE-DEE Dalton Mfg Co
SPEED Louisville Cement Co
SPEED Speedway Mfg Div
SPEED-BARROW American
 Conveyor Co
SPEED CLIPS Tinnerman
 Products Inc
SPEED-GRITS Behr-Manning
SPEED LOADER Macklanburg-
 Duncan Co
SPEED NUTS Tinnerman
 Products Inc
SPEED QUEEN Speed Queen
SPEED-RAIL Hollaender Mfg
SPEEDAIRE Dayton Electric
SPEEDCAT Mead Specialties Co
SPEEDECK Mobile Paint Mfg
SPEEDMASTER Copymation
SPEEDRIL Lockwood
 Hardware Mfg Co
SPEEDTILE Rockford Brick
SPENCER Spencer Heater
SPIB 77 Southern Pine Lumber
SPIN-A-BRUSH Portable
 Electric Tools Inc
SPINDRIER Easy Laundry
SPINNER Inland Steel Products
SPINTEX Johns-Manville Corp
SPIRA-LIFT Caldwell Mfg
SPIRAFLEX Caldwell Mfg Co
SPIRAL Maze W H Co
SPIRALATOR AUTOMATIC
 WASHER Easy Laundry
SPIREX Caldwell Mfg Co
SPIROLOC Universal Form
SPLASH VALLEY Tennison
 Bros Inc
SPLURGE United Gilsonite

SPOT STAPLERS Spotnails Inc
SPOT STAPLES Spotnails Inc
SPOTAIR Crane Co
SPOTAIRE Drayson-Hanson
SPOTNAILERS Spotnails Inc
SPOTNAILS Spotnails Inc
SPOTPINNERS Spotnails Inc
SPOTPINS Spotnails Inc
SPRAWLER Koehring Co
SPRAYIT Thomas Industries
SPRING GLIDE-ON Glidden Co
SPRED HOUSE PAINT
 Glidden Co
SPRED PATCH Glidden Co
SPRED SATIN Glidden Co
SPRING-EZE Ajax Hardware
SPRING-FLEX Unique Window
SPRING LOCK Tilley John S
SPRING-TITE Weatherproof
 Products Corp
SPRING WING Paine Co
SPRING-WINGS Rawplug Co
SPRINGALLOY National Metal
SPRINGFLEX Dennis W J
SPYROL Hillwood Mfg Co
SQUAREHED NAILS
 Independent Nail & Packing
STA-DRI American Sta-Dri Co
STA-LOK Celotex Corp
STA-TITE Sta-Tite Inc
STAB-LOK Federal Pacific
STABBREAKER Federal Pacific
STACKDOOR American
 Accordion-Fold Doors Inc
STAINTOX Abestos Mfg Co
STALLPACK Carthage Marble
STANDARD Lanebro Mfg Co
STANDARD Shelby Metal
STANDARD CORK TILE
 Dodge Cork Co Inc
STANDARD DUOLOX
 Masonite Corp
STANDARD-FLUSH DOOR
 Hardware Products Corp
STANDARD I F B
COMBUSTION CHAMBER
 Green A P Fire Brick Co

STANDARD PRESSEDWOOD
 Masonite Corp
STANLEY-HANDYMAN
 Stanley Tools
STANLOCK Standard Register
STANSCREW Stanscrew
 Fasteners Div
STANTHONY Stantony Corp
STAR BRAND Turner &
 Seymour Mfg Co
STAR DRYVIN HARDWARE
 Star Expansion Industries
STAR GRIPZIN Star Expansion
 Industries Corp
STAR HAMRFLUTE Star
 Expansion Industries Corp
STAR LIGHT Thomas
 Industries Inc
STAR PINGRIP Star Expansion
 Industries Corp
STAR SSS SELFDRIL SHIELDS
 Star Expansion Industries
STAR STRIKR Star Expansion
STAR STUDS Star Expansion
STARBRITE Hanover Wire
STARLITE Elkay Mfg Co
STARRETT Starrett L S Co
STAY BLACK Henry W W Co
STAY-RIB Inland Steel Products
STAY-STRATE US Plywood
STAYBRITE Horn A C Cos
STAZON Plastic Products Co
STEAROLITH Master Builders
STEEL-X Taber Bushnell Inc
STEELBINDER Gerrarda A J
STEELITE Clopay Corp
STEELMASTER Stanley Tools
STEELTEX Pittsburgh Steel
STEEP-SLOPE Bennett-Ireland
STEP SAVER Schenck William
STEREO-COM Music & Sound
STERGLAZE Sterling Quality
STERLING McDonough Mfg
STERLING Waldorf Heater Co
STEWART-AIRE Stewart
 Industries Inc
STILE MATE Grand Rapids
 Hardware Co
STILEMAKER Russell & Erwin
STILEMANOR Russell & Erwin
STILLE-YOUNG Chicago
 Bronze & Color Works
STOKER-VEYOR American
 Conveyor Co
STONE-DRI Sapolin Paints Inc
STONEFIL Thomas Moulding
STONESULITE Certain-Teed
 Products Corp
STONEWALL BOARD
 Ruberoid Co
STOP GAP Sapolin Paints Inc
STOP IT Tamms Industries Co
STORAWAY ENCLOSURES
 Birdair Structures Inc
STORM KING Allied Chemical
STORMGUARD Maze W H Co
STOW-IT Gordon Mfg Co
STOWAWAY Lennox
 Industries Inc
STRADDLE TRUCK Hyster Co
STRAITS Clopay Corp
STRAN-MASTER Stran-Steel
 Corp Div Natl Steel Corp
STRAPBINDER Gerrarda A J
STREAMLINE Mueller Brass
STREAMLINER Auer Register
STREAMLINER Ferguson H J
STREAMLINER Holt Mfg Co
STRETCH LATEX PAINT
 Tamms Industries Co
STRETCHWOOD Higgins
 Industries Inc
STRONG-WALL Celotex Corp
STRONGBARN Granite City
STRONGBORD
 Johns-Manville Corp
STRONGHOLD NAILS
 Independent Nail & Packing
STRUCTOGLAS A Structoglas
STRUCTOGLAS S E
 Structoglas Inc
STRUCTOLITE US Gypsum Co
STRUTWALL Andersen Corp
STRY PANEL Cermak Tile Co
STRYPPEEZE Savogran Co
STUBBY Holly-General Co
STUD DRIVER Remington
 Arms Co Inc
STUD JACKS Superior Scaffold
 (Continued on page 304)

SAVE
TIME
MONEY
LABOR



with Cabot's STAINS

- Economical — 1/2 the cost of paints.
- Require no priming coat; are easier to apply and maintain.
- Need no thinning; surfaces need no scraping or sanding.
- Trouble-free — no cracking, blistering, or peeling.
- Penetrate deeply, dyeing and preserving the wood fibers.
- Enhance the beauty of the wood grain; leave no brush marks.
- Offer unique color effects in a wide color range.
- Grow old gracefully, may be stained or painted over later.



For best results, the best in Stains . . .
Cabot's Oil-base or Creosote Stains.

SAMUEL CABOT INC.
 424 South Terminal Trust Bldg., Boston 10, Mass.
 Please send color cards on Cabot's Stains.

TOOLS, EQUIPMENT

Power Tool Wire Data

Recommended Extension Cord Sizes for Use with Portable Electric Tools

Name-plate Amperes	CORD LENGTH IN FEET																			
	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
1	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
2	16	16	16	16	16	16	16	16	16	14	14	14	14	14	14	12	12	12	12	12
3	16	16	16	16	16	16	14	14	14	14	12	12	12	12	12	10	10	10	10	10
4	16	16	16	16	14	14	14	12	12	12	12	12	12	10	10	10	10	10	10	10
5	14	14	14	14	14	14	12	12	12	12	10	10	10	10	10	8	8	8	8	8
6	14	14	14	14	14	12	12	12	10	10	10	10	10	10	8	8	8	8	8	8
7	14	14	14	14	12	12	12	10	10	10	10	8	8	8	8	8	8	8	8	8
8	14	14	14	14	12	12	10	10	10	10	8	8	8	8	8	8	8	8	8	8
9	14	14	14	12	12	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8
10	14	14	14	12	12	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8
11	12	12	12	12	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8
12	12	12	12	12	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	12	12	12	12	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	10	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8
15	10	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16	10	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8
17	10	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8
18	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
19	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
20	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

NOTE: Wire sizes shown are A. W. G. (American Wire Gauge).

Table courtesy of Thomas Y. Crowell Co.

115 Volt D.C., or A.C. — Unity Power Factor, 2% Voltage Drop (2.3 Volts)

Watts	WIRE SIZE Amperes at 115 V.	*Distances							
		#14	#12	#10	#8	#6	#4	#2	
100	.87	510	810	1280	2040	3250	5300	8200	
200	1.74	255	405	640	1020	1625	2650	4100	
300	2.61	170	270	430	680	1080	1770	2730	
400	3.48	125	200	320	510	810	1325	2050	
500	4.35	100	160	255	410	650	1060	1640	
750	6.52	65	100	170	275	430	710	1090	
1000	8.69	50	80	125	205	325	530	820	
1500	13.04	35	55	85	140	215	350	550	
2000	17.38	25	40	65	100	160	265	410	
2500	21.73	20	35	50	80	130	210	350	
3000	26.07	15	25	40	65	110	180	275	
3500	30.42	....	22	35	60	90	150	235
4000	34.76	....	20	30	50	80	130	210
4500	39.11	....	15	28	45	70	115	170
5000	43.46	....	....	25	40	65	105	160
6000	52.14	....	....	20	35	55	85	135
7000	60.83	....	....	....	28	45	75	115
8000	69.52	....	....	....	25	40	65	100
9000	78.22	....	....	....	....	35	55	90
10000	86.91	....	....	....	....	30	50	80

*Above figures represent a one-way distance in feet for a 2 wire run. If a 4% voltage drop is permissible, double the distance listed.

If only 1% voltage drop is allowable divide the distance listed by 2.

SINGLE-PHASE 115-Volt A.C. — Use 115 Volt table above.

SINGLE-PHASE 115, 230-Volt A.C., 3 Wire — Use 115 Volt table above for each 115 Volt circuit.

SINGLE-PHASE 230-Volt A.C. — In table above, use Watts column, multiply distances by 4, or use Amperes column, multiply distances by 2.

SINGLE-PHASE 440-Volt circuit — In table above, use Watts column, multiply distances by 16, or use Amperes column, multiply distances by 4.

115 Volt D.C. — Use 115 Volt table above.

230 Volt D.C. — In table above, use Watts column, multiply distances by 4, or use Amperes column, multiply distances by 2.

THREE PHASE SYSTEMS

1. Three-phase 230-volt circuit.—Multiply the distances in the 115 volt table No. 6A by 2/3 for the same load. Use the Amps column.

2. Three-phase 440-volt circuit.—Multiply the distances in the 115 volt table No. 6A by 4/3 for the same load. Use the Amps column.

3. Single-phase 120-volt circuit.—Use the distances in the 115 volt table No. 6A. Use the Amps column.

TYPICAL RUNNING CURRENT REQUIREMENTS OF MOTORS

HORSE POWER	115 V 1 Phase A.C.		230 V 1 Phase A.C.		230 V 3 Phase A.C.		115 V D.C.		230 V D.C.	
	C	W	C	W	C	W	C	W	C	W
1/8	2.6	14	1.3	14						
1/6	3.2	14	1.6	14						
1/4	4.6	14	2.3	14			3.0	14		
1/3	6.0	14	3.0	14			3.8	14		
1/2	7.4	14	3.7	14	2.0	14	4.6	14	2.3	14
3/4	10.2	14	5.1	14	2.8	14	6.6	14	3.3	14
1	13.0	12	6.5	14	3.5	14	8.6	14	4.3	14
1-1/2	18.4	10	9.2	14	5.0	14	12.6	12	6.3	14
2	24.0	10	12.0	14	6.5	14	16.4	10	8.2	14
3	34.0	6	17.0	10	9.0	14	24.0	10	12.0	14
5	56.0	4	28.0	8	15.0	12	40.0	6	20.0	10
7-1/2					22.0	10	58.0	3	29.0	8
10					27.0	8	76.0	2	38.0	6

C = Full Rated Load Current in amperes (Amperes while starting are MUCH higher)

W = Minimum Wire Size permitted by Code; larger sizes often required — Check Distance for Voltage Drop.

TOOLS, EQUIPMENT

Drill Size Data

LETTER SIZE DRILLS

Letter	Diam.	Letter	Diam.	Letter	Diam.	Letter	Diam.	Letter	Diam.
A	.234	G	.261	L	.290	Q	.332	V	.377
B	.238	H	.266	M	.295	R	.339	W	.386
C	.242	I	.272	N	.302	S	.348	X	.397
D	.246	J	.277	O	.316	T	.358	Y	.404
E	.250	K	.281	P	.323	U	.368	Z	.413
F	.257								

NUMBER SIZE DRILLS

No.	Dia.	No.	Dia.	No.	Dia.	No.	Dia.	No.	Dia.
1	.2280	17	.1730	33	.1130	49	.0730	65	.0350
2	.2210	18	.1695	34	.1110	50	.0700	66	.0330
3	.2130	19	.1660	35	.1100	51	.0670	67	.0320
4	.2090	20	.1610	36	.1065	52	.0635	68	.0310
5	.2055	21	.1590	37	.1040	53	.0595	69	.0292
6	.2040	22	.1570	38	.1015	54	.0550	70	.0280
7	.2010	23	.1540	39	.0995	55	.0520	71	.0260
8	.1990	24	.1520	40	.0980	56	.0465	72	.0250
9	.1960	25	.1495	41	.0960	57	.0430	73	.0240
10	.1935	26	.1470	42	.0935	58	.0420	74	.0225
11	.1910	27	.1440	43	.0890	59	.0410	75	.0210
12	.1890	28	.1405	44	.0860	60	.0400	76	.0200
13	.1850	29	.1360	45	.0820	61	.0390	77	.0180
14	.1820	30	.1285	46	.0810	62	.0380	78	.0160
15	.1800	31	.1200	47	.0785	63	.0370	79	.0145
16	.1770	32	.1160	48	.0760	64	.0360	80	.0135

TAP DRILLS FOR THREADS OF AMERICAN STANDARD FORM

Tap Size (Screw Thread)	Tap Drill	Tap Size (Screw Thread)	Tap Drill	Tap Size (Screw Thread)	Tap Drill
1/16-64	3/64	11/16-11	19/32	1-1/4-7	1-7/64
5/64-60	1/16	11/16-16	5/8	1-1/4-12	1-11/64
3/32-48	49	3/4-10	21/32	1-3/8-6	1-7/32
7/64-48	43	3/4-12	43/64	1-3/8-12	1-19/64
1/8-32	3/32	3/4-16	11/16	1-1/2-6	1-11/32
9/64-40	32	13/16-10	23/32	1-1/2-12	1-27/64
5/32-32	1/8	7/8-9	49/64	1-5/8-5-1/2	1-29/64
11/64-32	9/64	7/8-12	51/64	1-3/4-5	1-9/16
13/64-24	20	7/8-14	13/16	1-7/8-5	1-11/16
5/16-18	F	7/8-18	53/64	2 -4-1/2	1-25/32
3/8-16	21/64	15/16-9	53/64	2-1/8-4-1/2	1-29/32
7/16-14	U	1 -8	7/8	2-1/4-4-1/2	2-1/32
9/16-12	31/64	1 -14	15/16	2-3/8-4	2-1/8
5/8-11	17/32	1-1/8-7	63/64	2-1/2-4	2-1/4
5/8-18	37/64	1-1/8-12	1-3/64		

DECIMAL EQUIVALENTS

1/64 = .015625	1/4 = .250	1/2 = .500	3/4 = .750
1/32 = .03125	17/64 = .265625	33/64 = .515625	49/64 = .765625
3/64 = .046875	9/32 = .28125	17/32 = .53125	25/32 = .78125
	19/64 = .296875	35/64 = .546875	51/64 = .796875
1/16 = .0625	5/16 = .3125	9/16 = .5625	13/16 = .8125
5/64 = .078125	21/64 = .328125	37/64 = .578125	53/64 = .828125
3/32 = .09375	11/32 = .34375	19/32 = .59375	27/32 = .84375
7/64 = .109375	23/64 = .359375	39/64 = .609375	55/64 = .859375
1/8 = .125	3/8 = .375	5/8 = .625	7/8 = .875
9/64 = .140625	25/64 = .390625	41/64 = .640625	57/64 = .890625
5/32 = .15625	13/32 = .40625	21/32 = .65625	29/32 = .90625
11/64 = .171875	27/64 = .421875	43/64 = .671875	59/64 = .921875
3/16 = .1875	7/16 = .4375	11/16 = .6875	15/16 = .9375
13/64 = .203125	29/64 = .453125	45/64 = .703125	61/64 = .953125
7/32 = .21875	15/32 = .46875	23/32 = .71875	31/32 = .96875
15/64 = .234375	31/64 = .484375	47/64 = .734375	63/64 = .984375

TOOLS, EQUIPMENT

Screw and Abrasive Charts

Screw Chart — Drill and Bit Sizes

SIZE OF SCREW		0	1	2	3	4	5	6	7	8	9	10	11	12	14	16	18	20	24	
SHANK HOLES	Drill number or letter	52	47	42	37	32	30	27	22	18	14	10	4	2	D	I	N	P	V	
	Drill Size nearest fraction	$\frac{1}{16}$ "	$\frac{3}{32}$ "	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{7}{16}$ "	$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	1 $\frac{1}{16}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{4}$ "	1 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "
PILOT HOLES	Hard Wood	Drill number or letter	70	66	56	54	52	49	47	44	40	37	33	31	30	25	18	13	4	1
		Drill Size nearest fraction	$\frac{1}{32}$ "	$\frac{1}{16}$ "	$\frac{3}{32}$ "	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{7}{16}$ "	$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	1 $\frac{1}{16}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{4}$"	1$\frac{3}{8}$"
	Soft Wood	Drill number or letter	75	71	65	58	55	53	52	51	48	45	43	40	38	32	29	26	19	15
		Drill Size nearest fraction	$\frac{1}{16}$ "	$\frac{3}{32}$ "	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{7}{16}$ "	$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	1 $\frac{1}{16}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{4}$ "	1 $\frac{3}{8}$"	1$\frac{1}{2}$"
AUGER BIT FOR COUNTERSINK (By 16ths)		—	—	3	4	4	4	5	5	6	6	6	7	7	8	9	10	11	12	

Abrasive Chart for Use with Portable Sanders

WOODS	Roughing	Finishing	Fine Finishing
OAK	2½ to 1½A	½ to 1/0G	2/0 to 4/0G
MAPLE	2½ to 1A	½ to 1/0G	2/0 to 4/0G
BIRCH	2½ to 1A	½ to 1/0G	2/0 to 4/0G
WALNUT	2½ to 1½A	½ to 1/0G	2/0 to 4/0G
MAHOGANY	2½ to 1½A	½ to 1/0G	2/0 to 3/0G
GUM	2½ to 1½A	½ to 1/0G	2/0 to 3/0G
CURLY MAPLE	2½ to 1½A	½ to 1/0G	2/0 to 4/0G
CYPRESS	2½ to 1½A	½ to 1/0A	2/0G
INDOAKO	1½A	½ to 1/0G	2/0 to 4/0G
FIR	1½ to 1A	½ to 1/0G	2/0G
WHITE PINE	1½ to 1G	1/0G	2/0G
YELLOW PINE	2 to 1½SA	½G	1/0G
WILLOW	2A	½ to 1/0G	2/0G
Removing Paint and Varnish	3½ to 2½SA Spaced Grain	A solution of three parts kerosene and one part light lubricating oil wiped lightly over varnished surface before sanding will increase belt service.	

Symbols: G—Garnet for soft wood. A—Artificial for hard wood. SA—Spaced for paint or varnish.

Comparative Grading Chart for Abrasives

GRAIN SIZE (mesh)	CORUNDUM AND EMERY CLOTH	FLINT PAPER	GARNET, SILICON CARBIDE, ALUMINUM OXIDE
320 (very fine)			10/0
240 " "		5/0	7/0
220 " "		4/0	6/0
200 (fine)		3/0	
180 " "	3/0		5/0
150 " "	2/0		4/0
136 " "		2/0	
120 " "			3/0
110 " "		0	
100 " "	0		2/0
90 (medium)	½	½	
80 " "	1		0
70 " "	1½	1	
60 " "			½
56 " "	2		
50 " "		1½	1
40 (coarse)	2½	2	1½
36 " "			2
30 " "	3	3	2½
24 (very coarse)			3
20 " "			3½
16 " "			4

From "How to Use Portable Power Tools" by Maurice H. Reid, Thomas Y. Crowell Co., Publisher

TOOLS, EQUIPMENT

Tubular Scaffolding

WHAT'S AVAILABLE



Rolling scaffolding . . . generally is built up into towers of varying heights set on steel casters. One of their prime features is that they straddle aisles, walks or equipment while they are being moved around a job.



Scissor scaffolding . . . can set a workman at a variety of stations. It is generally raised and lowered by pneumatic, hydraulic, and screw jacks. But some types are raised and lowered by hand and held positioned by bolts.



Adjustable work platforms . . . are made up of tubular steel scaffolding frames that can be built up or broken down to create a variety of fixed heights. These are engineered for easy erection, dismantling and stacking.



Suspended scaffolding . . . hangs by cables from outriggers anchored to a building. A hand or power winch raises and lowers them. They most frequently are seen in operation on multi-story buildings.

HOW TO HANDLE THEM SAFELY

- Make certain they have sufficient underpinning in addition to base plates when erecting them on soft ground.
- Compensate for uneven ground with adjustable base plates.
- Always level and plumb scaffolding thoroughly.
- Don't force braces to fit. Badly fitting braces usually indicate scaffolding isn't level.
- Check the cam lever on braces to make certain it is in a "down" position.
- Prevent scaffold structure from racking with horizontal braces.
- Check stack locks at the base of each panel leg to see that it engages holes in the stack coupling of panels.
- Anchor running scaffolding every 30 ft. of length and every 25 ft. of height.
- Regardless of scaffold height, install guard rails.
- Don't let workmen climb cross braces. Provide scaffold ladders when not using ladder panels.
- Make certain scaffold planking is sound.
- Don't tie putlogs together on spans longer than 21 ft.
- Handle rolling towers with care. Guy them when in use, lock caster brakes, and move them with care.
- Don't shore concrete decks with scaffolding until you first determine what loads and stresses are involved.
- Keep all rolling equipment in good repair.
- Discard or repair damaged or deteriorating scaffolding.
- Follow your local safety codes and regulations.

GENERAL SPECIFICATIONS

Elyria grade steel is the metal most commonly used in tubular scaffolding. Other steels used are aluminum, magnesium, mild and carbon steels.

Tubing for scaffolding generally measures 1.625 in. in diameter. This standardized size permits the stacking of scaffolding made by different manufacturers.

The scaffolding generally is made up in panel frames of 5-ft. widths unless they are designed for some special purpose. The 5-ft. panel can carry six 2x10-in. edge-planed planks between its leg posts, to make up a standard-width scaffold platform. Panel heights vary from 1-ft. extension members to 10-ft.-high walk-through members. Standard panels measure 5 ft. wide and 6½ ft. high, though 4x4½-ft. frames are available. Usually, frame heights graduate in 1-ft. increments except where they are made for special purposes.

Governing frame spacing and brace lengths are the plank spans. Considered most practical and economic spacing: 7 ft.—when 2-in. planks are used. Shorter spacing is usually reserved for shoring and heavy loading. Employing 3-in. planks makes longer spacing of frames possible.

Bracing that goes into scaffolding can be both single and double. Staggering diagonal bracing between frames omits double bracing and serves light loading purposes. Double bracing forces leveling of frames, offers greater stiffness, and will serve as single tower frames, shoring, and elevator frames.

Inserting casters under the legs of rigid scaffold frames converts the structure into a rolling tower generally employed for interior work, concrete decks, and special shoring. Such towers will also be found in masonry and mechanical installations.



Turn more jobs into low-cost jobs with new John Deere 1010 Wheel Power

Now ready to roll onto your building or earthmoving jobs, new John Deere Wheel Units are powered right, priced right for economical work.

New "1010" wheel tractors are engineered for all-around service, designed as the low-cost answer to earthmoving, material handling, landscaping and utility work. New 40 h.p. four-cylinder gasoline and Diesel engines operate efficiently through the full throttle range for top performance on any job. Deere equipment, including loaders, backhoes, rear blades, landscape tools and mowers provides full versatility.

The John Deere "1010" Wheel

Loader is a compact, fast-handling unit well suited to general building work. Five forward speeds and power steering insure easy handling, full maneuverability. Turning radius is only 8 feet 8 inches.

Your John Deere dealer will be glad to demonstrate and give you the information you need on John Deere's "New Generation of Power." He's ready to explain the advantages of the John Deere Credit Plan and long-term leasing, too. Contact him through the classified telephone directory or write today to John Deere, 3300 River Drive, Moline, Illinois.



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EARTHMOVING
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Gas Utilities
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- Electricians
- X-Ray Equipment
- Bookmobiles
- Marine power for**
- Pleasure Boats
- Work Boats



Auxiliary power for lights, communications, appliances on Work and Pleasure Boats.



Portable power for pipeline X-Ray equipment, lights, tools and communications.



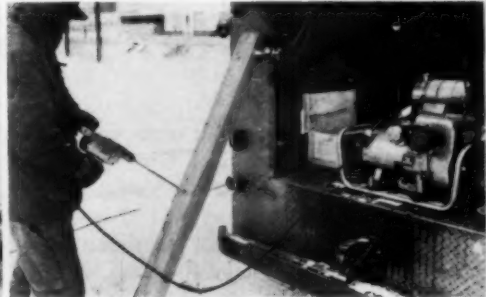
On-site power for construction tools, lighting in areas beyond mainline service.



Portable power for municipal maintenance equipment; tools, floodlighting.



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Provides power for lights, cooling, fudge heaters, fans for manufacturing ice cream vans.



Critical electric power for Civil Defense communications and lighting.

Onan Electric Plant that have never been used before an Onan plant free

We'll give a 1,000-watt air-cooled Onan* (shown below) for each of the ten best applications for an Onan plant that have never been used before. Your idea can apply to any size or type Onan plant—from 500 watts to 230 kw—gasoline or diesel, air or water cooled.

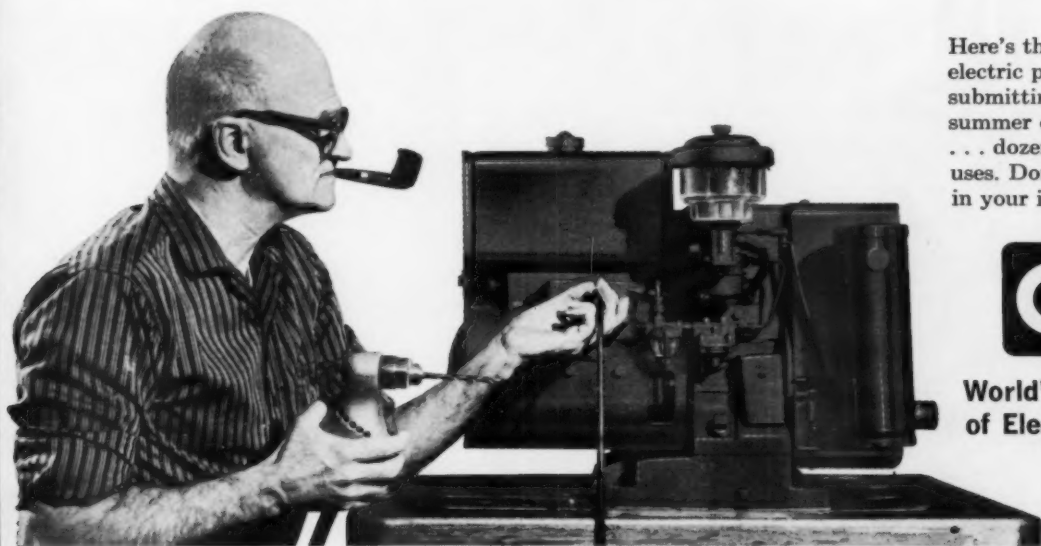
In 1926, when Onan pioneered with the "Ten-Lite"—a 250-watt d.c. plant—there was a clear-cut need: enough power to burn ten electric lamps in hundreds of thousands of homes without electric utility service.

Today, this market is virtually non-existent in the United States. But hundreds of new uses undreamed of in 1926 have increased the need for electric generator sets each year. Thus, because men with ideas continue to find new uses for packaged electric power, Onan continues to build more plants than any other manufacturer.

Quite often, we never know who had the original idea for a new application. And, we're sure, Onan plants are used today in ways

we've never heard about. If you have an idea for a new use, it may be helpful to you to see Onan plants at your local distributor. He's listed in the Yellow Pages in every major city. Or, write Onan for free literature.

*You may submit as many ideas as you wish, but no more than one Onan plant will be awarded to an individual. There are no restrictions on form of entry . . . you may submit photographs, sketches or a written statement of any length you desire. Onan will judge all entries on the basis of originality, practicality and commercial utility, and decisions of the judges will be final. If the same suggestion or similar suggestions are made by more than one entrant, the first one submitted, according to the postmark, will be eligible for the prize. Winners will be notified on or before July 15, 1961. Entries must be mailed to "New Uses Contest," address below, and must be received not later than June 15, 1961. All ideas submitted become the property of Onan and, whether or not the entries receive an award, may be used commercially by Onan in any way it sees fit with or without acknowledgment of the originator. No entries can be returned.



Here's the 1,000-watt Onan electric plant you may win for submitting your idea. Ideal for summer cottage, home standby . . . dozens of portable power uses. Don't put it off . . . send in your idea right away!



**World's Leading Builder
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From 21½ ft up...to 13¼ ft down and everywhere on the ground

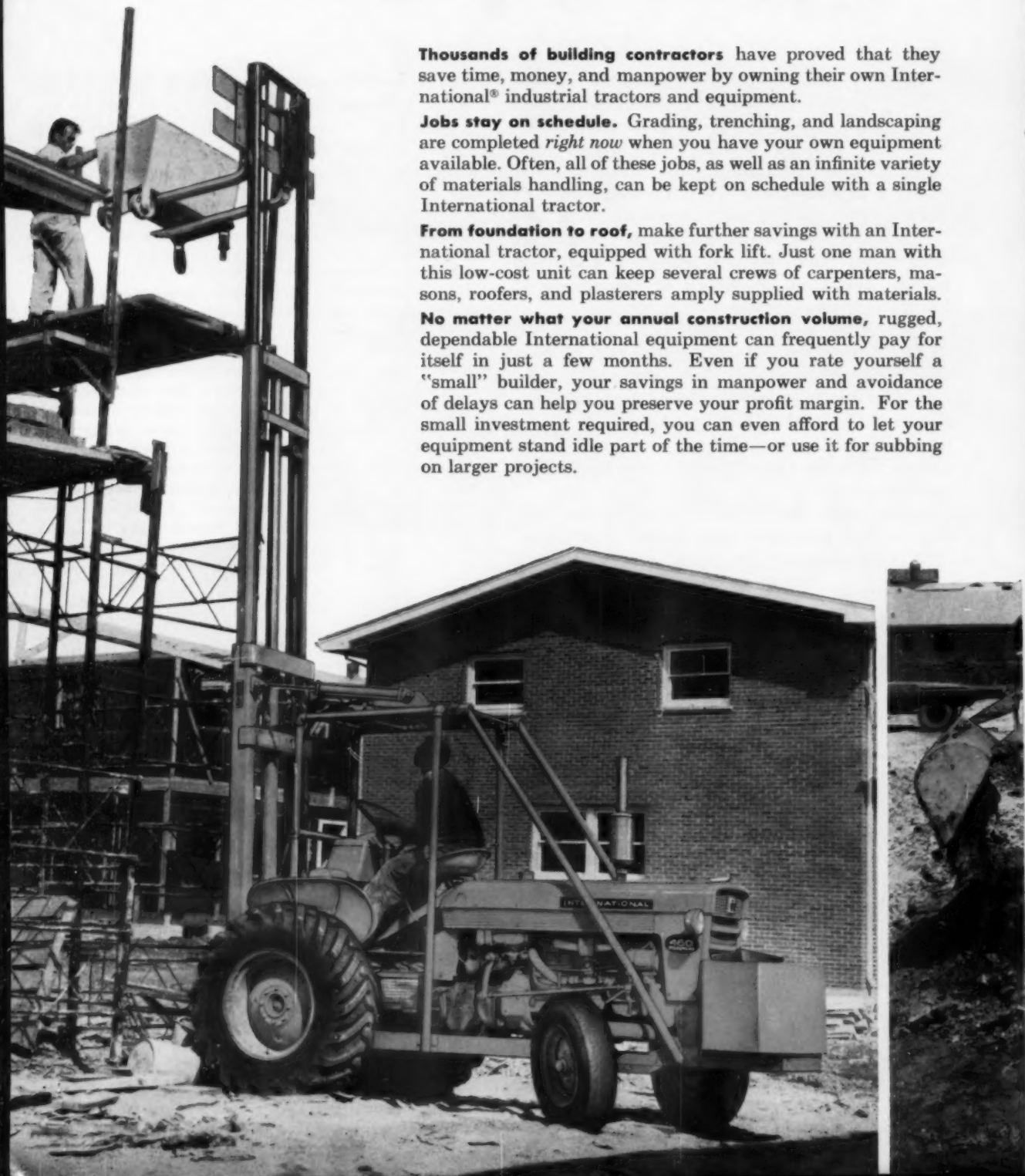
International equipment helps you cut building costs!

Thousands of building contractors have proved that they save time, money, and manpower by owning their own International® industrial tractors and equipment.

Jobs stay on schedule. Grading, trenching, and landscaping are completed *right now* when you have your own equipment available. Often, all of these jobs, as well as an infinite variety of materials handling, can be kept on schedule with a single International tractor.

From foundation to roof, make further savings with an International tractor, equipped with fork lift. Just one man with this low-cost unit can keep several crews of carpenters, masons, roofers, and plasterers amply supplied with materials.

No matter what your annual construction volume, rugged, dependable International equipment can frequently pay for itself in just a few months. Even if you rate yourself a "small" builder, your savings in manpower and avoidance of delays can help you preserve your profit margin. For the small investment required, you can even afford to let your equipment stand idle part of the time—or use it for subbing on larger projects.

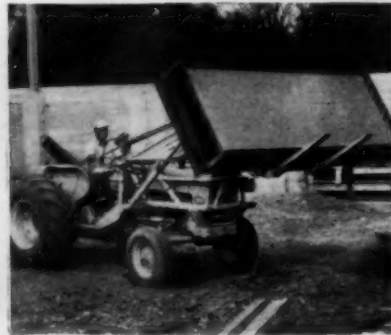
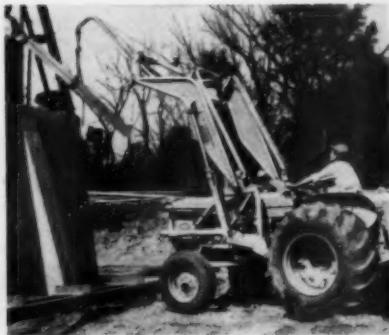




Clam on to objects too big for a conventional bucket with the International Drott T-340 Four-in-One. It combines clamshell, bucket, bulldozer, and scraper in one $\frac{3}{4}$ -yard machine for little more than the price of a conventional loader.



Grade building sites, backfill, landscape, level for slabs, streets, sidewalks, and driveways with the 47 hp T-340 and big 85-inch Bullgrader[®]. Blade angles and tilts under full hydraulic control from the tractor seat, on-the-go.



Do more with your front-end loader! Switch from bucket . . . to crane . . . to fork lift

Nothing beats a front-end loader for all around convenience. Use the bucket to carry loose or bulky materials, such as pipe, as well as for digging, grading, and loading. Big, broad-base pneumatic tires carry the tractor over rutted or muddy terrain. Then,

get still more service out of your investment—simply remove the bucket and replace with crane or fork lift in five minutes or less. Same lift arms are used for all attachments. Concrete bucket and tilt and angle blades are also available.



Tractor Model	Max. Engine HP*	Front loader lift		FORK LIFT	
		capacity, lb.	Backhoe Digging Depth	Lift Capacity, lb.	Full lift height feet
B-275 Diesel	38	1,600	10 ft.	—	—
I-240	40	1,300	10 ft.	—	—
I-340†	47	1,600	10 ft.	4,000†	10½, 14, 21½
T-340† Crawler	47	3,500	10 ft.	—	—
I-460†	61	2,500	12½ ft.	4,000†	10½, 14, 21½
I-560†	72.5	3,000	13¼ ft.	5,000	12 or 14
I-660†	95	4,000	—	6,000	12 or 14

*Corrected to standard conditions
12,500 lb. above 15 feet
†Diesel engine available

Avoid costly under- or over-powering. Your IH dealer offers six tractor power sizes, with matched equipment, priced to fit your jobs. Ask for an on-the-job demonstration!



5,000 dealers backed by 12 parts depots

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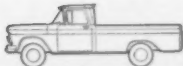




They keep showing up in places most trucks can't get to because it takes an awful lot to stop these sure-footed Chevy four-wheel-drive models! Where the job calls for the mobility of a mountain goat teamed with the stamina of a mule, you'll find no finer way to get your work done. And for 1961 the Chevrolet 4-wheel drive lineup is a full dozen models long. You can pick from a wide selection — one that's sure to include the best answer to your toughest traction-plus requirement!

■ Put any one of these 4-wheel drive Chevies on any job—then watch it dig in and *go!* Come what may in the way of mud, snow, sand, loose gravel, creek bottoms, swampland or freshly plowed ground, you can rest assured that the extra bite of up to double traction—plus stump-jumping road clearance—will get you through every time.

And you'll like the way a Chevy 4x4 rolls down the highway in smooth 2-wheel drive, ready to give you 4-wheel traction at the flick of a lever, the moment you need it. You'll appreciate the no-clutch

shifting ease of the transfer case (whether moving or standing still) and the extra versatility that's yours with a choice of 4-wheel direct or underdrive.

If you prefer the extra snap of spirited V8 power, it's yours at nominal extra cost in any model. Also available at extra cost are heavy-duty 3-speed and 4-speed transmissions and a wide choice of traction tires. You can tailor your Chevy 4 x 4 to fit your needs exactly. Get the full details and turn your traction problems over to Chevy—the traction champ of them all! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

FLEETSIDE			STEPSIDE			CHASSIS-CAB			PANEL			CARRYALL		
														
Model	Max. Load	Body Length	Model	Max. Load	Body Length	Model	Max. Load	Wheel-base	Model	Max. Load	Body Type	Model	Max. Load	Body Type
K1434	1400 lb.	6½'	K1404	1450 lb.	6½'	K1403	1900 lb.	115"	K1405	1300 lb.	7½' Panel	K1406	1000 lb.	Carryall (panel type rear doors)
K1534	1300 lb.	8'	K1504	1350 lb.	8'	K1503	1850 lb.	127"	K1416	1000 lb.	Carryall (panel type rear doors)	K1416	1000 lb.	Carryall (tailgate and liftgate)
K2534	2950 lb.	8'	K2504	3050 lb.	8'	K2503	3500 lb.	127"						

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 Detroit 2, Michigan

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1961 CHEVROLET STURDI-BILT TRUCKS



How to

TRIM YOUR COSTS

... keep jobs on schedule



How many times have you wished you could reduce wasted-hours of costly hand-labor... eliminate overtime and still keep jobs on schedule? Now you can cut these costs by mechanizing your digging, loading, backfilling, grading and materials-handling with an economy-priced Case 430 Utility Loader. One man and a Case 430 outworks a crew of hand laborers... speeds building and clean-up, boosts productivity of skilled men by always keeping building materials within easy reach.

Here's another cost-trimming idea: Get lower bids from your mason, carpenter, roofer, plasterer and other subcontractors, by making arrangements *in advance* for your Model 430 Loader to lift, carry and position their materials for less hand-handling and ladder-climbing.

"Handyman" for less than \$6.00 per day. You can own a 430 tractor-loader with rear hitch and counterweight box for as little as \$118.00 per month*. Powered by Case-built *high-torque gas or diesel engine*, the 430 Loader cuts grades quickly, digs heaped bucketloads fast, maneuvers smoothly in close quarters, high-lifts for quick dump-and-go when loading trucks. You can quickly remove the bucket and install a pallet fork or dozer, crane boom or snow bucket for specialized materials-handling. You can also equip the 430 with a 10' rear backhoe to dig small-home basements... footings for slabs, porches, or garages... do your own trenching to cut bids on plumbing and heating, electrical work.

Try a Case 430 on your work. See how it mechanizes *more* of your materials-handling for lower "work" costs... saves expenses on a wide variety of dirt work. Call your Case Dealer for free demonstration. Or write for full information to J. I. Case Co., Racine, Wis., Dept D1401.

*Installation payment after average down payment or trade-in, with gasoline engine, 11 cu ft bucket, f.o.b. factory. Price subject to change without notice.



For higher, heavier materials-handling check this low-cost Case 430 Utility Fork Lift. It lifts 4000 lbs... works in mud, snow where small-wheel rigs mire. Hauls at high speeds, shuttle reverses instantly for fastest round-trips. Has many quick-change attachments for multiple specialized materials-handling work. CU-L-285

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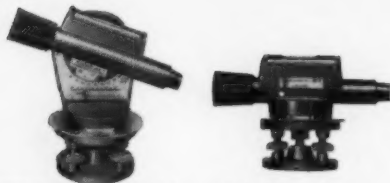
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Never before has an instrument-maker offered such lasting accuracy, ease of operation, rugged construction, compactness and utility — combined with prices that start so low! Today's modern construction methods and use of panel walls, components and pre-fabs demand more accurate measurement and more precise alignment. You need a David White Instrument to cut costs and insure accuracy on your building jobs . . . see your dealer or mail coupon below for full information!

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Six-inch, 8-power telescope, micrometer ring objective focusing, die-cast aluminum alloy construction. Available with special Continental Tripod (\$19.50) that extends from 22" to 58".
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A most practical and complete instrument, ideal for checking building and road construction. 26-power telescope, accurate to 5 minutes on horizontal circle or vertical arc.



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(Continued from page 290)

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(Continued on page 308)

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LOW-COST 4 BY 4 STEEL SCAFFOLDING

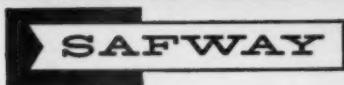
fits all your needs for residential, commercial and light industrial construction



4-BY-4 SCAFFOLD ADVANTAGES

- Used safely for work to 40 ft. high.
- Waist-level material platforms speed work.
- 4-ft. and 6-ft. high frames have built-in climbing ladder.
- Accessories to fit every job requirement.
- Parts are easy to handle, erect, transport and store.

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Moves up with your work, on common fir poles, by simple foot lever motion. Automatic locking action. FAST. EASY. SAFE. N. Y. Approved. In use 35 years. Low price. Cut job costs.



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Chutes easily set up by two men in 10 minutes or less. Unloads faster. No wheelbarrows or planks. Less labor required. Write for complete description and costs.

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"We can't afford to wait 'til the pool is filled to prove we've built it accurately—

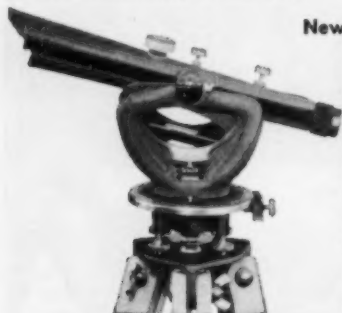


— that's why we start with a Berger Speed-A-Liner."

... says Eric Mathews

Rudd-Murray System, North Attleboro, Mass.

"We set up our Speed-A-Liner Transit-Level every morning and keep it busy all day long on this tough swimming pool job. From the very beginning this instrument has made it easier to establish grades, set batter boards, and footings. We had to establish the reinforcing steel grade with the transit-level because the inside gutter lip is only two inches thick. We'll use the Berger on every phase of the job—for form panels now and later for the concrete line which we are holding to a tolerance of $\frac{1}{8}$ ". We'll even fix the contrasting paint or water lines with it. After this, we'll put it to work setting grades and angles to accurately locate two other pools we're building in a predetermined relationship to this one."



New Berger Speed-A-Liner #200

is engineered to help the modern builder make every busy moment on the job count. Its advanced design speeds lining up on a target, speeds taking readings, speeds converting from transit to level. 15-power optical system means sharp clear images. It's trouble-free and the easiest-to-use budget transit-level you've ever worked with. Get behind one and see for yourself.

Mail coupon for more information about the Berger Speed-A-Liner #200 Transit-Level and other Builders' Transits and Levels.

Price: \$112.50 with tripod, carrying case, plumb bob and instruction manual. FOB factory.

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CARPENTRY ESTIMATING

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You can earn higher pay when you know how to estimate. Here is everything you need to know to "take-off" a bill of materials from set of plans and specifications for a frame house. Saves you time figuring jobs, protects you against oversights or mistakes that waste materials and cost money. Nothing complicated—just use simple arithmetic to do house carpentry estimating with this easy-to-use ready reference handbook.

SIMPLIFIED CARPENTRY ESTIMATING

Shows you, step by step, how to figure materials needed for (1) foundation, (2) framing, (3) exterior finish, (4) interior finish, (5) hardware, and (6) stairs. Gives definite "take-off" rules, with many quick-reference tables and short-cut methods that simplify the work.

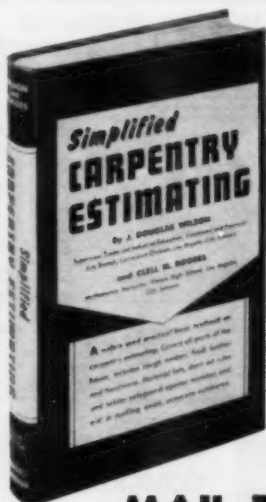
SPECIAL FEATURES: Lumber Checking List. Mill-Checking List. Work Checking List. Hardware Checking List. Materials Ordering Information. Quick-Figuring Tables for estimating concrete footings and walls, concrete piers, window frames, door and window areas, sash weights, nail quantities. How to figure labor hours per unit of work. Rules for linear, area and volume measurement. Mathematical reference tables, including decimal equivalents, lumber reckoner, conversion of weights and measures, etc. New chapter, "How to Plan a House," gives useful data for contractors and material dealers.

TURN TO CHAPTER 8

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Just fill in and mail coupon below to get your copy of "Simplified Carpentry Estimating." See for yourself how this valuable, easy-to-use reference handbook can tell you everything you need to know about all phases of carpentry estimating.



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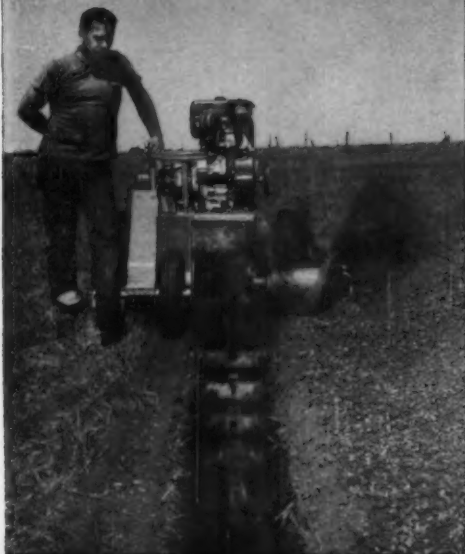
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Compacts clay fast • Saves on labor • Cuts downtime

This new Jay Tamper gives better, faster earth compaction. Savings up to 90% and more. Easy to meet Proctor density spec. . . . under foundations, in ditches, under slabs. Weighs only 135 pounds. Engine 4-cycle, cast-iron—450 to 675 blows per minute. Choice of tamping plates. Saves "downtime" expense. Get a demonstration; find how Jay Tampers can save and EARN money for you.



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(Continued from page 304)

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TEMPLE CLENTRETT Southern Pine Lumber Co
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TEMPO THERM Lockport Mills Inc
TEMPTILE Southern Pine Lumber Co
TEMWOOD Armstrong Cork Co
TENKOTE American Asbestos Product
TENNESEAL Tennessee Coal

(Continued on page 312)

Contractor Saves 16 Hours per Slab On New Housing Project



1. Making first pass with 24 ft. 8 in. Stow vibrating screed. 16 man hours per slab saved by Major Building Co.



2. 4-inch slump concrete is screeded. Note the termite shield at edge of slab.



3. 1½ to 2 hours after screeding, Stow G-42 Roto-Trowel used to float and finish floors.



4. Concrete consolidated in side forms with Stow DU midget vibrator.

ANSONIA, CONN. Major Building Company's Ted Ruderman needed a way to cut costs of finishing concrete slabs for his pre-fab housing projects. The old method required installation of screed supports, (1½ hours of carpenter labor) and dividing each slab into three sections. The slabs were then poured, one at a time, and struck off by working two-by-fours back and forth across the slab sections.

Ruderman figured a vibrating screed would speed up the whole operation, and provide a better, smoother slab. On this job, he planned all slabs 24'8" wide, so that one screed beam would work on all, and arranged for STOW Manufacturing Company to furnish a 24'8" Model JS screed . . . with the beam notched at the ends to clear a termite guard around the outside of slab. No screed supports were necessary, since screed rollers rode on the concrete side walls. Ruderman used a STOW DU Midget vibrator to consolidate the concrete in the side forms.

Using 4" slump concrete, with nine gallons of retarder per load, Ruderman poured the concrete 4" thick, had two men raking ahead of the screed. Using this method, each 24'8" x 36'8" slab was prepared, spread, and screeded in just one hour! Later the floating and finishing job was done by a STOW G-42 Roto-Trowel.

This reduced production time saved 16 man hours per slab! And the smoother, true-to-grade finish provided by the STOW screed enabled carpenters to set up room partitions much faster, saving even more time!

How about you? Are you saving production time on your floor slabs?

STOW screeds are available complete, cut to any desired length. Also available, is the STOW package assembly (without beam, for contractors who want to build their own beams) which consists of 2½ HP vibrating unit, brackets for engine mounting, end rollers, and handles.

Send for all the facts on STOW complete line of Concrete Equipment.

STOW Manufacturing Co.

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142 Shear St., Binghamton, N.Y.

Please send me Catalog 610 on STOW Line of Construction Equipment.

NAME
COMPANY
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CITY STATE

THE NEWEST REASON TO MAKE
YOUR NEXT 2-TONNER A FORD

ALL-NEW FORD

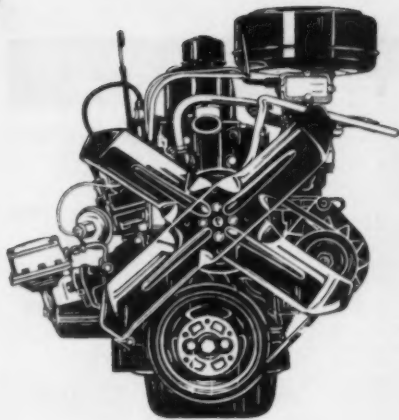
BIG SIX

262^{CU.}_{IN.} TRUCK ENGINE



FORD DIVISION, *Ford Motor Company*,

New two-ton toughness! New stronger frame... huskier cab... rugged truck suspension that can give up to twice the tire life of other types!



Now, the rugged simplicity of a big 262-cubic-inch Six is combined with the dependability of heavy-duty, *exclusive-truck* engine design. In a grueling 40,000-mile test of reliability, Ford's new Big Six was pitted against its principal competitor in the 2-ton field. Result: Ford's new engine required fewer service adjustments. This means less time in the shop . . . more time on the job.

The new Big Six is one of *four* engine choices in Ford two-tonners for '61—including America's most popular truck V-8's. See your Ford Dealer. He will be glad to help you select the best engine for your job.

SEVEN MORE REASONS

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In addition to these actual dollar-and-cents savings, the following bonus benefits provide greater protection against those annoying problems that are often associated with truck ownership.

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- 2. 12,000-mile warranty** (or 12 months) on *all* 1961 Ford Trucks of any size. Each part, except tires and tubes, is now warranted by your dealer against defects in material or workmanship for 12 months or 12,000 miles, whichever comes first. The warranty does not apply, of course, to normal maintenance service or to the replacement in normal maintenance of parts such as filters, spark plugs and ignition points.
- 3. Exclusive 100,000-mile warranty** (or 24 months) on 401-, 477- and 534-cu. in. Super Duty V-8 engines. Each major engine part (including block, heads, crankshaft, valves, pistons, rings), when engine is used in normal service, is warranted by your dealer against

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- 4. Special fleet financing**, available for owners of two or more trucks, provides the opportunity to precisely tailor payments to your income patterns or depreciation schedules. Let your Ford Dealer explain how this fleet truck finance plan offers substantial savings and frees your working capital.
 - 5. 36 district offices** staffed with sales engineers and service specialists are on call for special truck problems. Working with both dealers and customers, these experienced truck men represent another extra step Ford takes to provide your continued satisfaction.
 - 6. Replacement parts depots** at 26 strategic locations across the country quickly supply needed parts from ample stocks. Ford's entire supply system is geared to give you faster service and reduce costly downtime . . . *wherever* you are.
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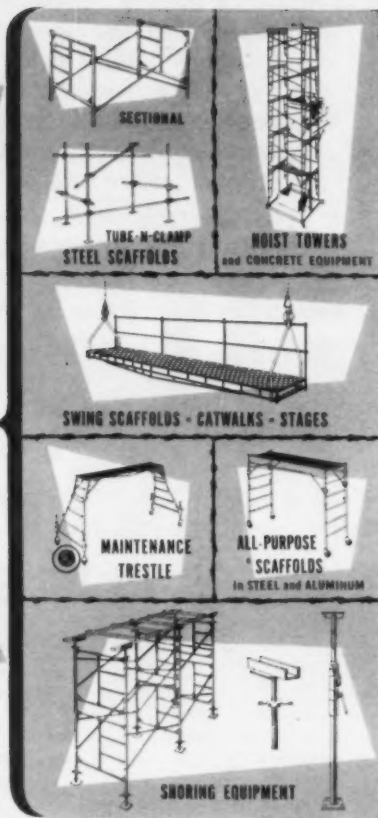
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Whatever your off-the-floor job, there's a Bil-Jax scaffold designed to save you most in time and money. What's more, your men work in safety, at peak efficiency. Choose now the exact equipment best suited to you. Sales and rental outlets in principal cities.

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(Continued from page 308)

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- TERALITE** Chase Brass
- TEMI-GUARD** Tennison Bros
- TERMI-SHIELD** Tennison Bros Inc
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- TERRATONE** Cuddington E D
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- THOR SPEEDTOOLS** Speedway Mfg Div
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- THOROCLEAR** Standard Dry
- THOROLITH** Standard Dry
- THOROPATCH** Standard Dry
- THOROSEAL** Standard Dry
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- 3-D TEXTURE PAINT**
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It levels, grades, backfills . . .
a heavy-duty scraper at a low price.



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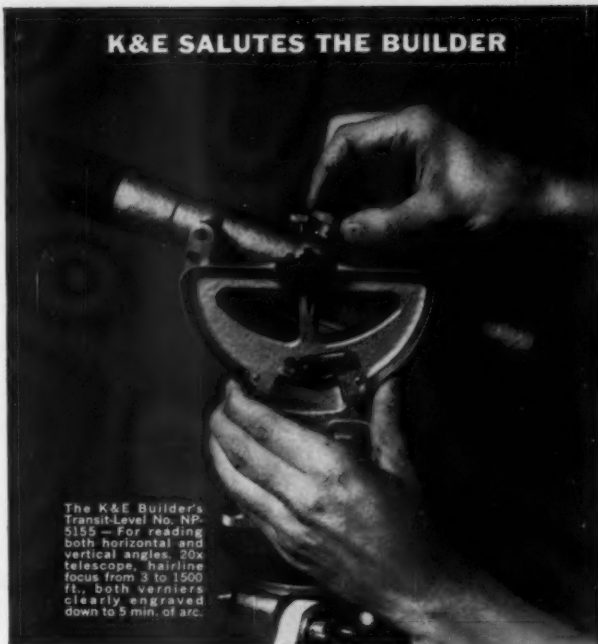
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(Continued on page 314)

K&E SALUTES THE BUILDER



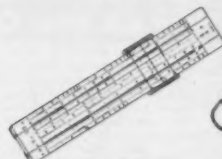
The K&E Builder's Transit-Level No. NP-5155 — For reading both horizontal and vertical angles. 20x telescope, hairline focus from 3 to 1500 ft., both verniers clearly engraved down to 5 min. of arc.

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... Sure-fingered from long years on the job. You can tell by the way they work. And you can tell by the company they keep — the inimitable K&E Builder's Transit Level. Wherever pride of craftsmanship is evident, so too are K&E builder's instruments, for none other so perfectly complement the care and skill of the builder.

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- 3. FAVORITE WYTE-FACE® 50' STEEL TAPE** fits compactly into pocket, has standard graduations... red foot numbers at every inch.

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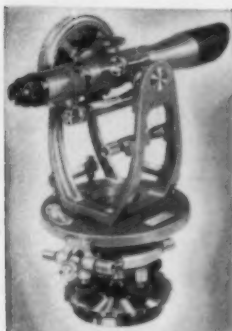
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BRAND NAMES DIRECTORY

(Continued from page 313)

TUFF-BOND Moore Goodloe E
TUFF-TRED Moore Goodloe E
TUFF-WELD Moore Goodloe E
TUFF-WOOD Wood Conversion
TUFFIE Keready Briksaw Co

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 \$460 with tripod

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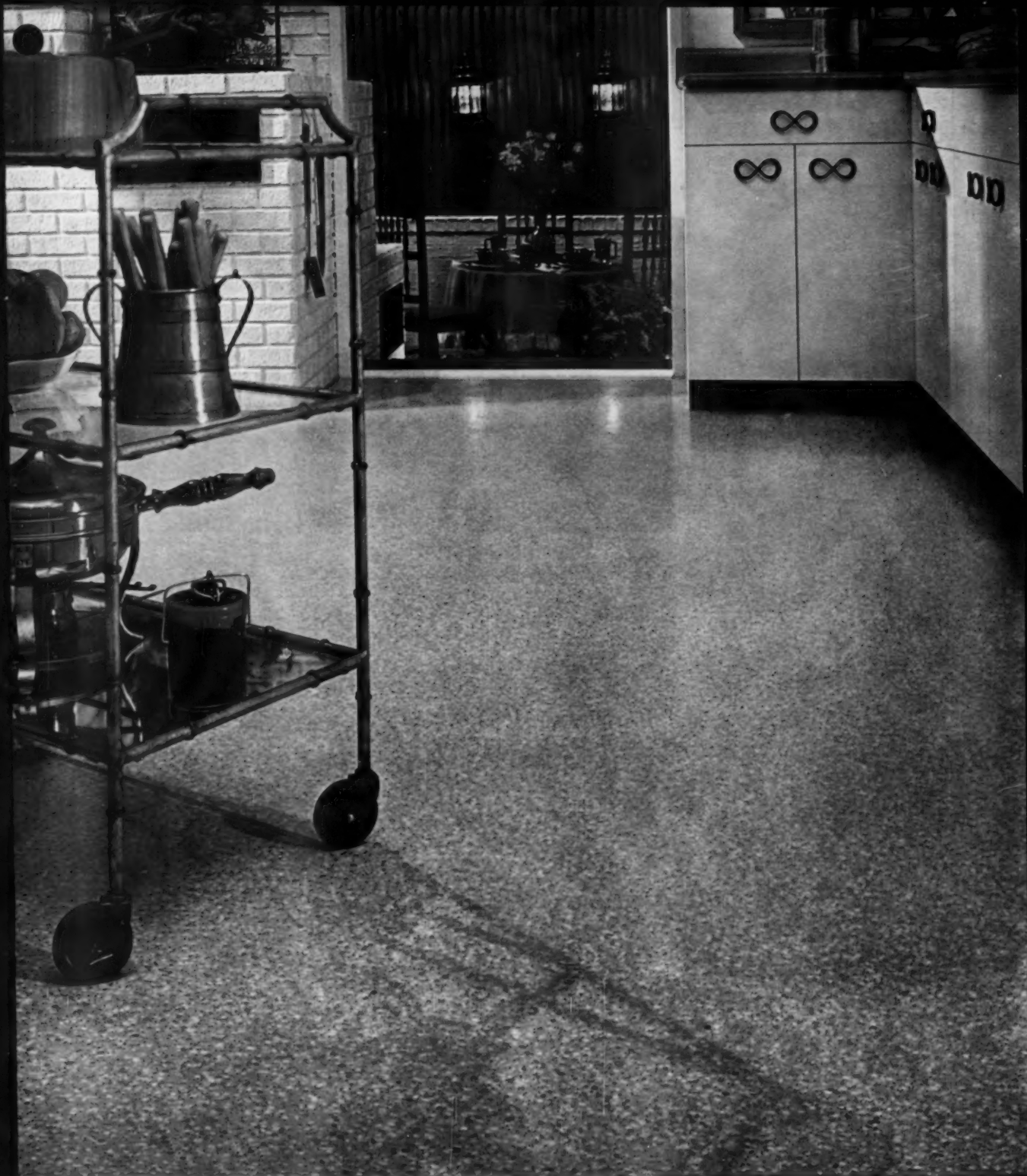
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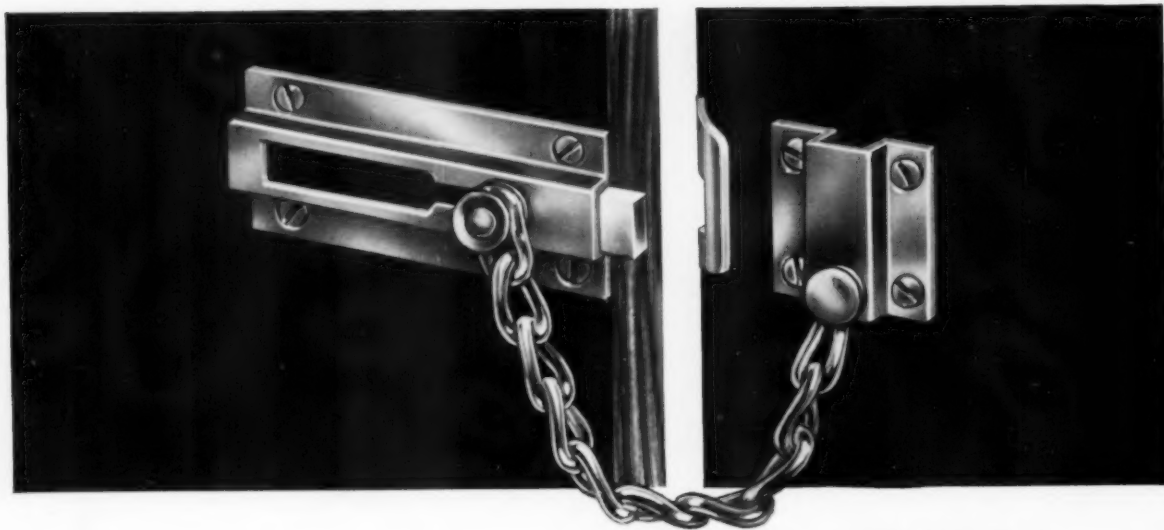


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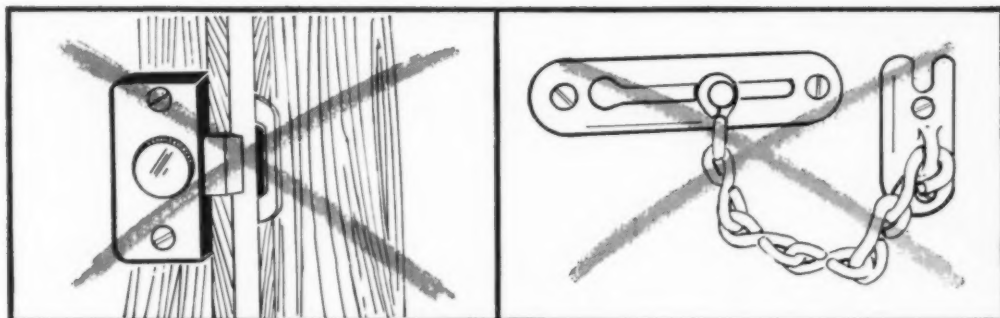
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