

# American Builder

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A COMMON SENSE, MAN, TIME SAVER PUBLICATION

# 1960 Buyers Guide


**WHAT** TO USE **HOW** TO USE IT **WHO** MAKES IT

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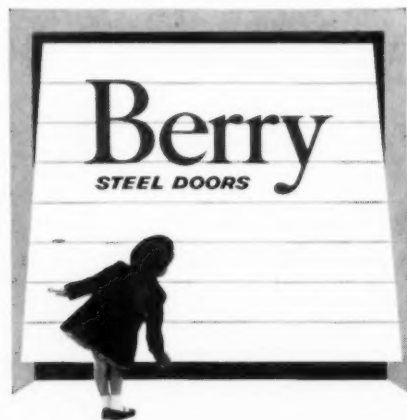
At least twice a day,

# 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, rust**

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*

A "SOUND IDEA" for YOUR HOMES . . .

# NuTone Door Chimes

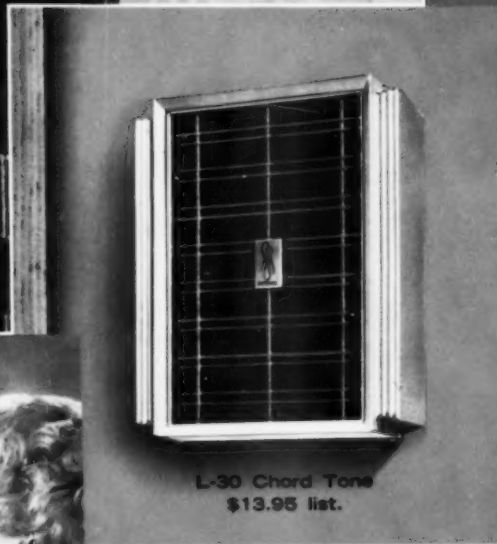
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2-notes  
\$8.95 list.



L-30 Chord Tone  
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See Next Page →

23 HANDSOME STYLES . . . BUILT-IN or SURFACE MOUNTED



FREE COLOR CATALOGS . . . write NUTONE, Inc., Dept. AB-5, CINCINNATI 27, OHIO

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## *A Step-Saver for Busy Homemakers!*

ROOM-TO-ROOM INTERCOM . . ALSO AM-FM RADIO IN EVERY ROOM

No extra walking . . no loud shouting . .  
just speak softly into any speaker to be  
heard in every room . . or patio.

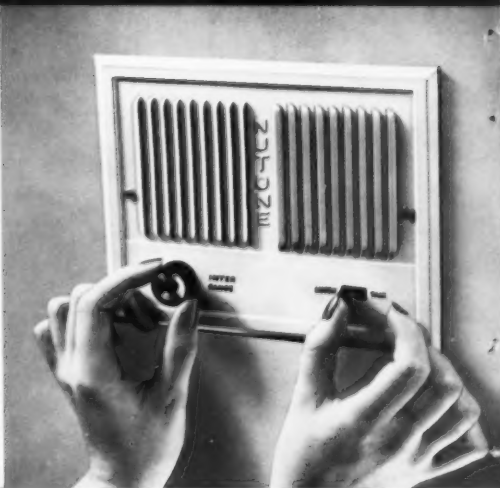
- Two-way outside remote lets you talk to strangers without opening the door.
- Each room is capable of originating calls to any other room of the house.
- Keeps an ear on children's activities either in the nursery or in the playroom.

### EASY TO INSTALL

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Dept. AB-5  
Cincinnati 27, Ohio



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See Other Side

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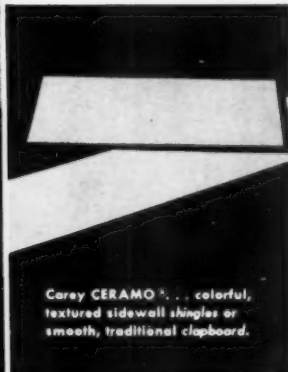
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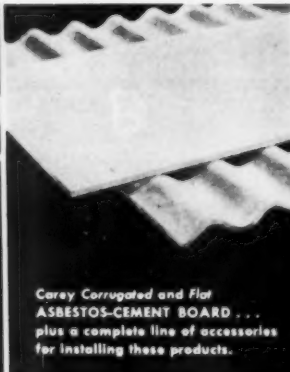
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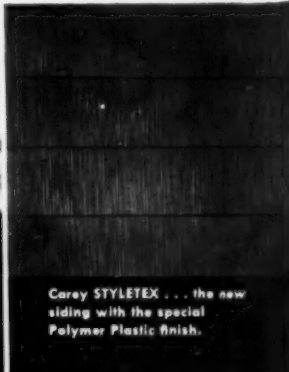
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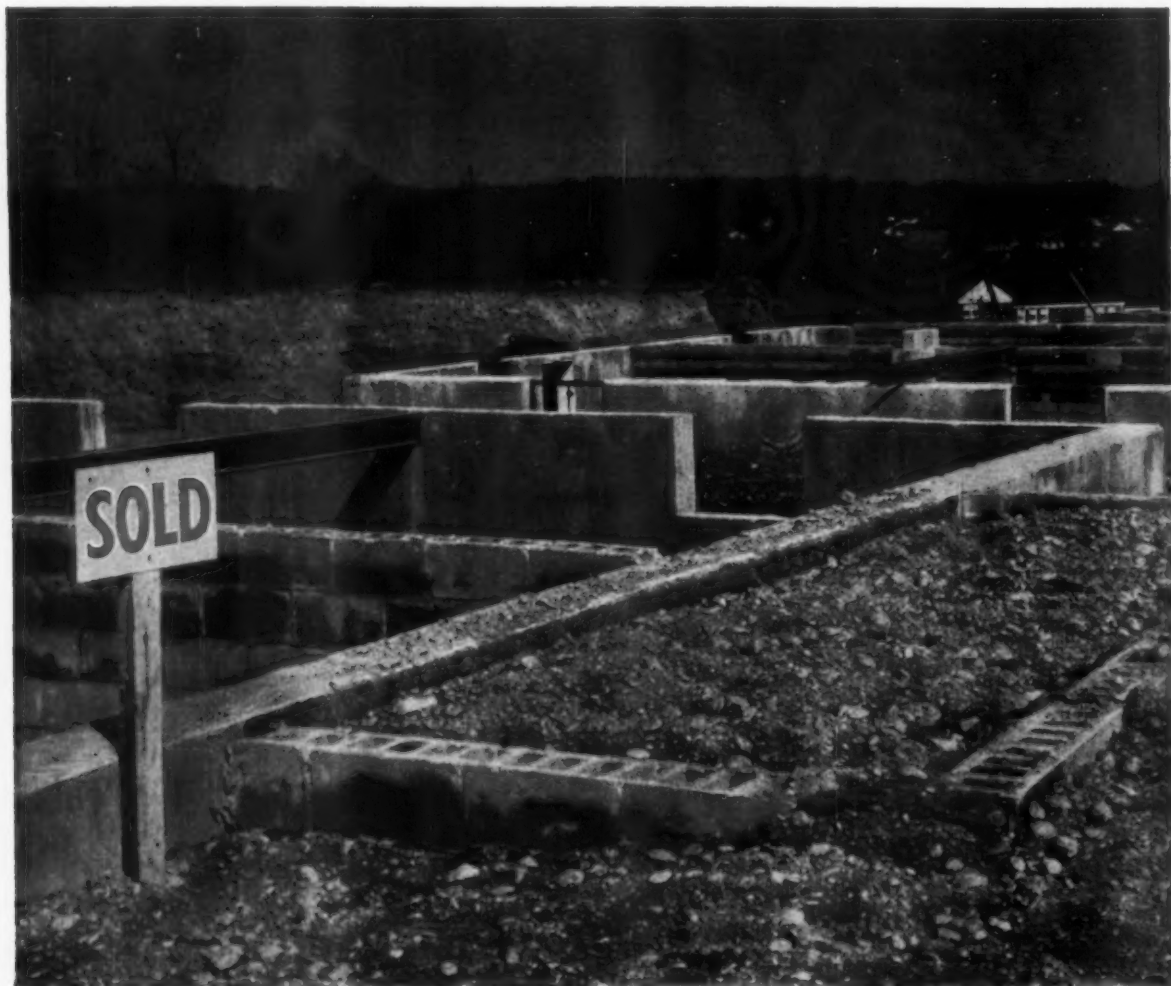
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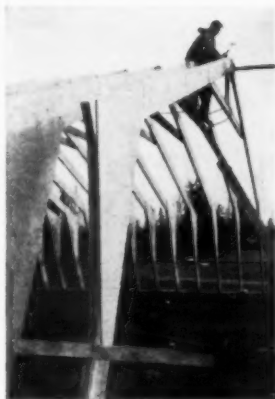


AMERICAN BUILDER

# THE Opportunity PAGE

**What? How? Who?** Those are the three big questions you have on your mind all year long: **(1) What** to build? **(2) How** to build it? **(3) Who** makes what it takes to do the job?

Every month it's our main aim in life to bring you the changing answers to all three questions. But once a year—in April—the emphasis is shifted to question 3: *Who* makes what it takes? (Plus a hefty section of technical pages to answer question 2.)



2

The answer is long and complicated. In the past year, roughly 39,000 IBM cards were processed to bring you the answers you find up front in the yellow pages. Almost 2,800 manufacturers were queried and their information included. Two editors worked all year long to answer the *Who?* And the question was never far off the mind of a third.

This year, they've outdone themselves. For example, there are now *two* reply cards to help you get answers (last year you sent us nearly 200,000 inquiries based on the catalog section alone).

And the 1960 Technical Data pages deserve a careful survey at your first opportunity. You'll find many new subjects, such as: Curtain Walls, Site Planning, How to Sound Condition a House.

This is an issue to *use* all year long. For a good start, please see our editors' suggestions under the index on page 8.

**Arthur J. McGinnis**  
**Publisher**



1



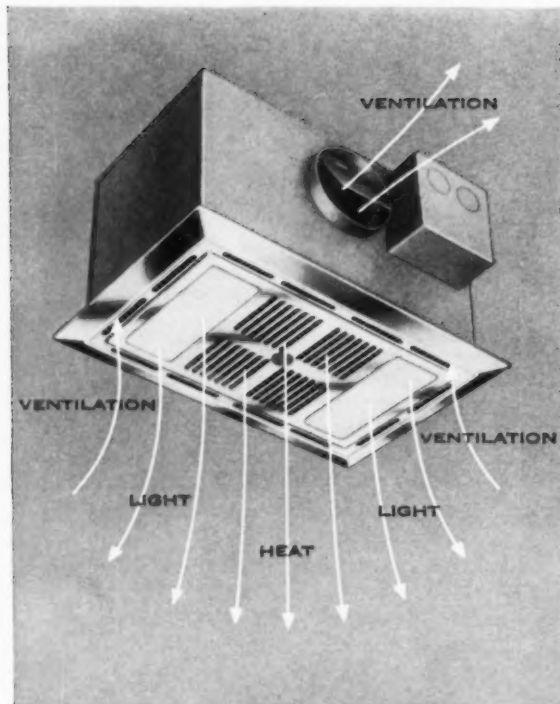
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- \* 3-way convenience for bathrooms – in one unit
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*Trade-Wind*

DIVISION OF ROBBINS & MEYERS, INC.  
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AMERICAN BUILDER



# READER'S Guide FOR APRIL 1960

← PLANNING →

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## How to get the most out of this issue

**1.** Use the handy hole in the upper left hand corner. Loop a piece of cord through it, then hang the Issue close to your desk. It makes a year 'round reference book.

**2.** On page 20 you'll find a set of tabs to match the numbered sections of the magazine. Cut them out. Paste the left half of each tab on the first page of the section it matches. Reference-thumbing will go faster this way.

**3.** Page seven (general index) will give you a good, complete look at everything we have to offer. For specific items use the alphabetical subject index above.

**4.** Key to the five Directory Sections is the Directory of Manufacturers. Use it whenever you want the complete name *and* address of a firm. Every building product manufacturer in this Issue is included there. It starts on page 39.

**5.** Take a good leisurely trip through the Technical Data Sections. They start on page 123, cover everything from site selection to light-planning.

**6.** You'll find not one, but *two* reply cards on page 19. There are 459 catalogs in this Issue. To get them use one card now, the second, later in the year.

Drawings: Sigman-Ward Inc., NYC

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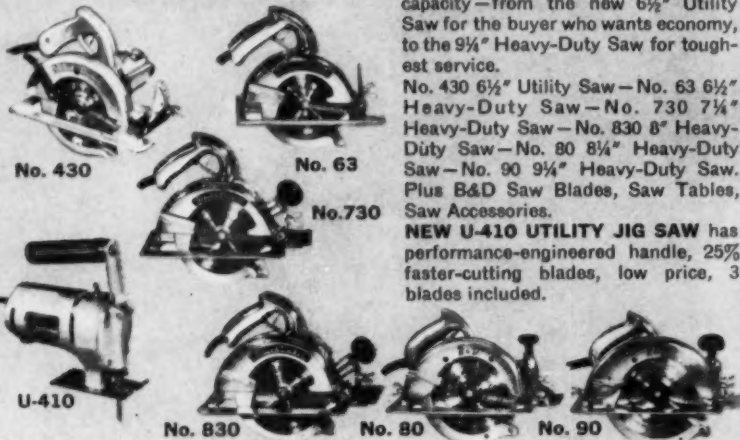
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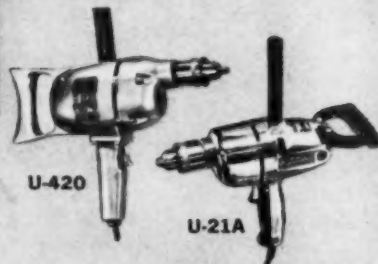
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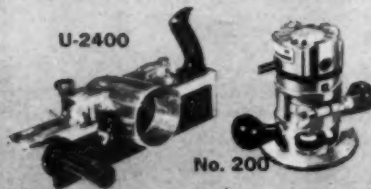
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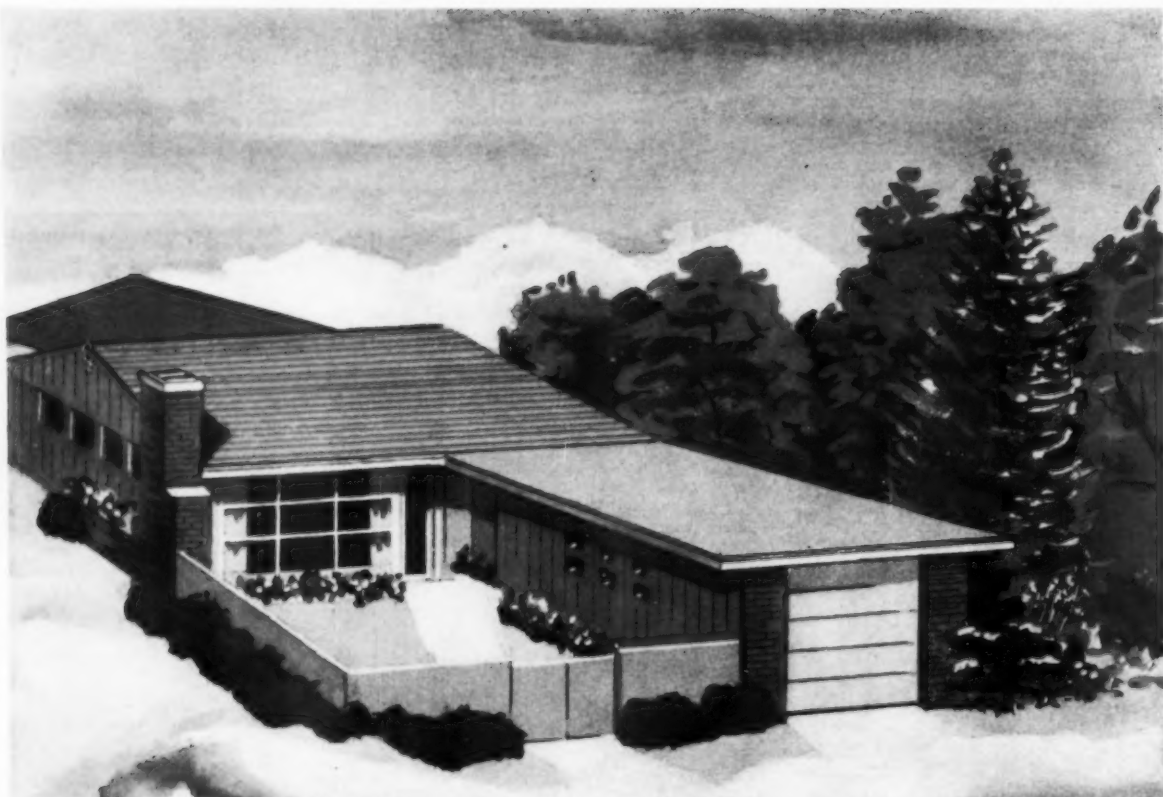
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# cutting corners without cutting corners!

Every builder wants to save money. And every builder wants perfection in every detail... right down to the baseboards. The answer to that one, of course, is KenCove® Wall Base... the flexible vinyl wall base that fits every corner perfectly. Your flooring contractor can form corners right on the job in less time and at less cost to you. No cutting needed... you get an attractive installation that will stand up to the heaviest use... won't become brittle, crack or warp ever. Comes in standard heights of 4" and 6" plus the new 2½" height that adds the illusion of greater height to low-ceilinged rooms. Ask your flooring contractor for KenCove Wall Base... most fitting companion to famous Kentile® Floors.

Kentile advertising like this appears in LIFE, LOOK, SATURDAY EVENING POST, 17 other leading National magazines and 51 Sunday Magazine Sections.

It's easy to give your homes a custom-flooring look. Over 200 colors, thousands of designs to choose from in Solid Vinyl, Vinyl Asbestos, Rubber, Cork and Asphalt Tile. Kentile, Inc., Brooklyn 15, N. Y.



## KENTILE FLOORS

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900 Peachtree St., N. E., Atlanta 9, Ga. • 1016 Central St., Kansas City 5, Mo. • 4532 So. Kolin Ave., Chicago 32, Ill. • 2834 Supply Ave., Los Angeles 22, Calif.



WHAT'S **New** AND ► WHAT TO DO ABOUT IT**Construction runs ahead of last year**

Builders and contractors are continuing 1960 work at near-record levels. Latest U.S. census reports show private construction expenditures in the first two months were \$5.4 billion, or 7 per cent ahead of 1959. Private residential work, including apartments, was up 2 per cent over 1959. House additions and alteration work was running 20 per cent ahead. The figures represent the Census Bureau's estimates of the value of work put in place. In contrast, housing starts fell off the first two months from a total of 181,500 to 152,500. The drop was 16 per cent.

**Big business on scattered lots**

Building houses on scattered lots is a bigger business than is generally realized: it's opportunity for both large and small builders. A notable example is Harmony Homes of Los Angeles, who sold 3,400 units on scattered lots last year—a remarkable increase from the 34 built in their first year—1954.

Harmony Homes specializes in "back yard" sites: areas that have been rezoned to permit another house on a lot. Many of their houses are sold as rental investments. The organization is made up of 19 building companies under the management direction of Charles Criswell. Through his efficient system of planning, scheduling, buying and co-operative advertising he is delivering small homes at a cost of only \$5.70 per sq. ft.

► Check into the opportunities in rezoned areas permitting an extra house on a lot. Then make a sales canvas of owners of such properties.

**Builders fight secondary boycotts**

Builders are voicing strong opposition to any change in the Taft-Hartley act to legalize secondary boycotts at construction sites. Rodney M. Lockwood of NAHB told the House Labor Subcommittee "it would cause a setback of many years" in progress of new building methods and techniques. Frank J. Rooney of Associated General Contractors said it "would be like turning the clock back to 1947" and would cause labor unrest—actually encourage strikes and picketing in construction. Others say legalizing secondary boycotts would let a single union halt a job for almost any reason, causing chaos.

► Wire, write or call your congressmen expressing your convictions concerning H.R. 9070, which would amend the Taft-Hartley act to permit secondary boycotts.

**4 months more for GI loans**

Under present law, the cutoff date for home loans for World War II veterans is July 25. Veterans who submit applications on or before that date will be allowed an additional 12 months in which to have the loan processed or actually closed. But Korean veterans have until January 31, 1965 to make applications.

Data released by VA show that only one-third of eligible World War II veterans and one-eighth of Korean veterans have taken advantage of the loan program.

Pressure for an extension of the GI home loan period is sure to increase as the cutoff date approaches. Many builders feel that veterans have been unjustly thwarted in their right to a GI home loan by the tight money policies that have strangled VA building.

► If you are still able to obtain VA financing, try advertising the July 25 cutoff date as a reason for buying a home before it's too late to qualify.

**Multiple setup gets tax setback**

The first U.S. court ruling on multiple corporation setups in the building field has caused widespread concern among builders. The U.S. Tax Court upheld a deficiency finding of the Internal Revenue Service of \$102,700 against Aldon Homes, Inc., of California. The court upheld the contention of IRS that the 16 corporations set up to build and sell Aldon's Briarcliff project were not business entities worthy of recognition for tax purposes.

Tax experts say the Aldon case is not necessarily a valid precedent for disallowing tax savings on all other types of multiple setups. But it will undoubtedly be used to strengthen the case against many.

► Multiple setups past, present and future should be reviewed with expert tax counsel. Builders lacking counsel may get advice or suggestions from their local Association, or from the tax studies committee of NAHB, Rodney Lockwood, chairman.

**Slow-moving housing bill**

The slow and much debated progress of the 1960 housing bill in Congress has put the spotlight on the controversial position of this industry in an

(Continued on page 343)

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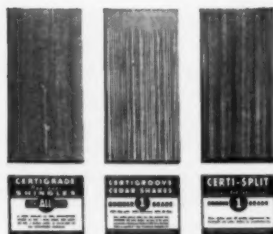
*Handsplit cedar shakes have a texture and a thickness all their own. Virtually any home design—topped with the texture of handsplit cedar—takes on the dimension and stature of a custom property. The hand-hewn character of this extraordinary roofing puts quality up where it is *obvious, apparent, unmistakable.**

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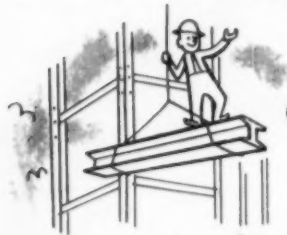
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for more good news for those of youse who are tile\*thinkers\*at\*heart.



COMMUNITY POOL in interior court is a feature in many of McNutt's apartment buildings. Stairs are near parking area.

## Why build apartments?



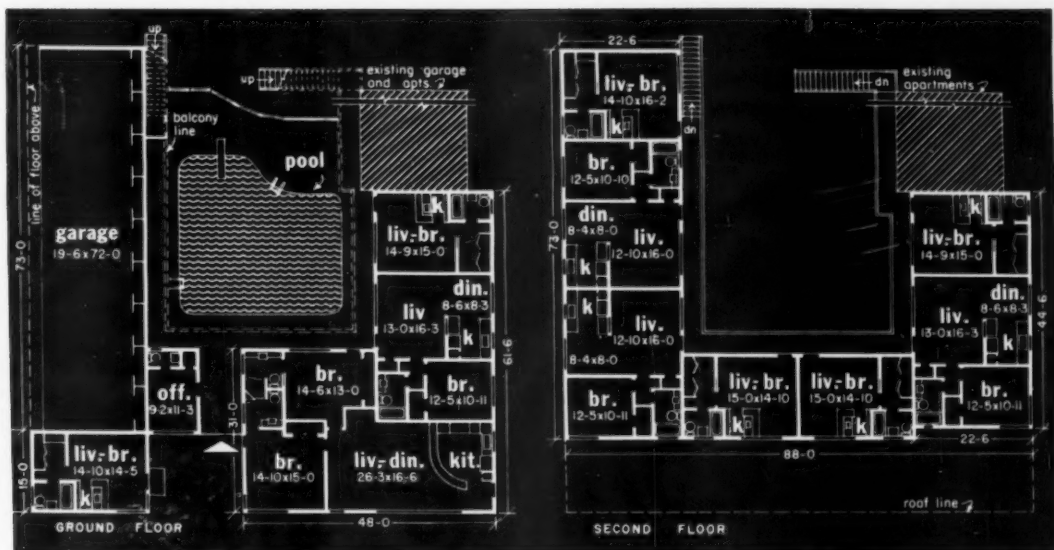
P. L. McNutt

*P. L. McNutt is a 200-unit-per-year builder. The 200 units used to be houses. Now they're apartments. The changeover came about because the Californian was faced with a problem common to many volume builders—a shortage of land at a reasonable price. McNutt found that building apartments would answer the land shortage problem and give him some additional advantages. Result: he now has a profitable building operation and a money-making investment.*

- 1 Land-short areas often have isolated lots suitable for and zoned for apartments.**
- 2 By holding buildings for several years, added profits can be made on original investments.**
- 3 Tax savings are possible through depreciation and on a long-term capital gains basis.**
- 4 In tight-money periods, financing is easier to come by because of investment opportunities.**



**FRONT ELEVATION** shows parking area (L) which has enough space to accommodate all tenants. Site for this building (as well as others built by McNutt) was formerly improved with large house. The builder finds it cheaper to raze old homes than to buy vacant land for his apartment buildings.



ELEVEN APARTMENTS were added to existing units (also built by McNutt). Twenty units will pay for a manager.

## Here are 4 good reasons

Early in 1959, after several years' retirement, P. L. McNutt decided to get back into the building business. But, when he looked over the land situation in the San Gabriel (Cal.) Valley where he had built his houses, he discovered a big change. There was no more land available for volume operation at a price suitable for the homes he could sell. So, he examined the possibility of building apartments.

Vacant land for apartments also was in short supply or over-

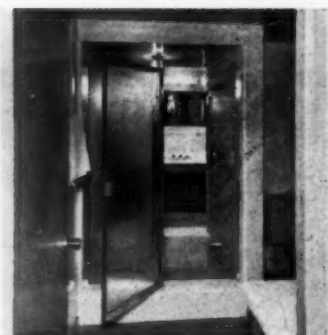
priced. However, he did locate some lots with old houses which could be purchased for the right price. He found he could afford to have a house wrecked and moved away (usually for \$1,000 to \$2,000) and still come out better than if he purchased vacant property. These old homes were in the City of Arcadia which had zoned a large area for multiples.

McNutt says he can afford to pay about \$1,500 per apartment unit for land. Thus, for a 20-unit structure (the smallest he

builds) he can pay \$30,000 for the land. Because he needs a lot at least 85' wide by 200' to 250' deep for a 20-unit building, he sometimes puts two or three lots together. Construction cost for such a building (including a normal profit) is about \$135,000, or a total with land of \$165,000.

McNutt can borrow 70 per cent of the cost from a savings and loan association. The balance is his own capital or comes from "investors." These "investors" are generally private indi-

(Continued on page 18-L)



TWO BATHROOMS in large first-floor apartment are connected by a sunken stall shower. Bathrooms in other apartments have tubs, no showers.



SEMI-CIRCULAR BAR is feature of large first-floor unit. Originally occupied by the builder, this suite is now rented out for \$190 per month. Living rooms of other apartments are separated from kitchens by snack bars. All kitchens have natural wood cabinets and built-ins.



**DELEGATES** from Ventura, Calif., tell what they want in new homes. The builder believes home sales and remodeling

jobs increased in the area because women left the meeting dissatisfied with the homes they were living in.

## 221 women helped design

**N**ever underestimate the power of a woman—or, in this case, women.

About a year ago, some 221 members of women's clubs in the Ventura, Calif., area attended a forum, "It's time the ladies design America's homes." The session, at which the women filled out a voluminous questionnaire, was sponsored by the Ray C. Skinner Construction Co.

Recalling the promotional value of *McCall's* Congress on

Better Living, Skinner's marketing manager decided that a similar meeting on a local level could lead to valuable publicity for Skinner's homes. In addition, the builder was anxious to find out exactly what the women in the area thought should go into the homes they wanted to buy.

Results of the promotion, which cost the builder only \$222.71, were incorporated into the house pictured above. It is one of the models built by

Skinner in his Daly Ranch Estates Development at Ojai and has been a popular seller.

The floor plan is based on the women's preferences. For example, no formal dining room was included, because a heavy majority said they would only use such space on special occasions; but they did want a place to eat in the kitchen. Laundry facilities were placed in the utility room off a service porch on the basis of over 50 per cent of the replies favoring that location.



**KITCHEN** with dining space was a "must" listed by many delegates.



**BLENDING** copper, wood, and stone in living room stresses indoor-outdoor living pattern. At left of photo is built-in divider. Home is engineered for A/C.





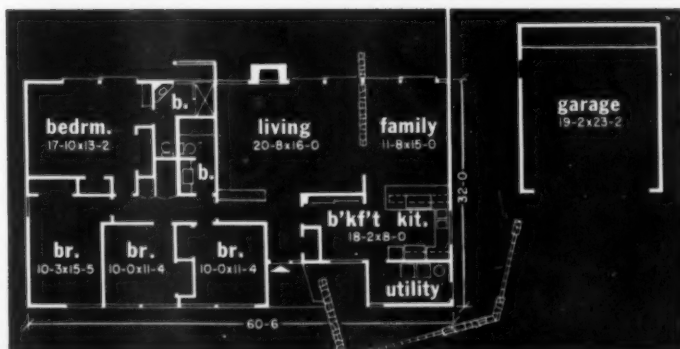
**HOME FORUM MODEL** was based on women's suggestions. Priced at \$26,750 (with lot), the house features such

custom touches as copper tips on all beams and 1" copper strips between 2x8s that form living room ceiling.

## this well-planned house

And, to meet the demand for indoor-outdoor living, sliding glass doors open the patio to the master bedroom, the living room, and the family room. In addition, the master bathroom also opens to the patio area.

Skinner is now planning lower-price developments in San Luis Obispo, in Los Angeles, and in Santa Barbara. The Ventura promotion was so successful that the builders have conducted similar market surveys in their new locations.



**OPTIONAL FEATURE:** a 15x30' swimming pool with filter, lighter, gas heater, and diving board, costs \$2,984. To meet

requests for bathroom access to pool area, Skinner included door to master bath, screened it for privacy.

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# popping nail

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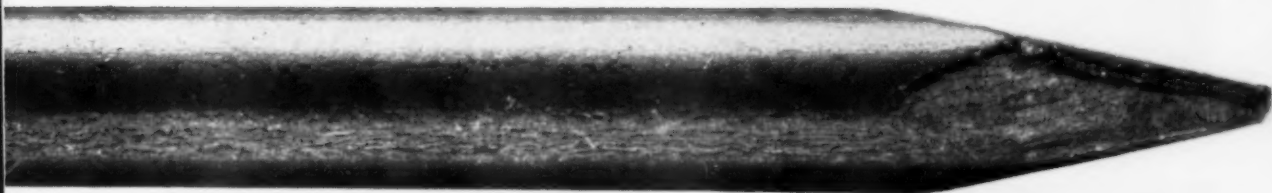
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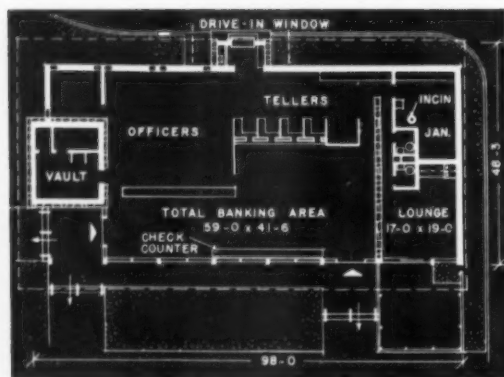
**PABCO** SINCE 1884



**FRONT ELEVATION:** stone, wood and glass—a combination of materials used in many Western houses—add to

bank's home-like appearance. Rear elevation features popular drive-in facilities. (See photo on page 18P).

## Extra money in the bank



**APPROXIMATELY 3,780 sq. ft.** of usable space is well planned so that each department of the bank is separate, yet easily accessible to the others.

### Small savings institutions offer plus opportunities for contractors with home-building know-how

**T**he day of the formal, austere savings institution is on the wane. This is true in large cities, and, even more so, in suburban communities. Banking officials have found it pays to have offices which complement surrounding properties.

This trend is money in the bank for the average home builder. It offers him the opportunity to enter a field formerly in the heavy contractor's domain. Many of these new banks are built  
*(Continued on page 18P)*



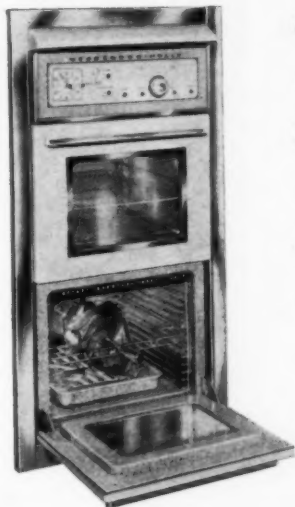
**SECTION** of main banking room illustrates use of glue-lam Douglas Fir beams and Western red cedar deck. A combination of fluorescent and incandescent lighting is used.



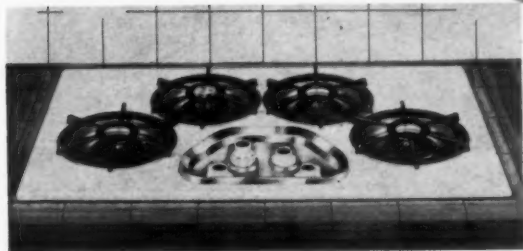
**EMPLOYEES' LOUNGE** features dining space and cooking facilities (not shown). Walls of two restrooms are finished with enameled wallboard. Floors are mosaic tile.

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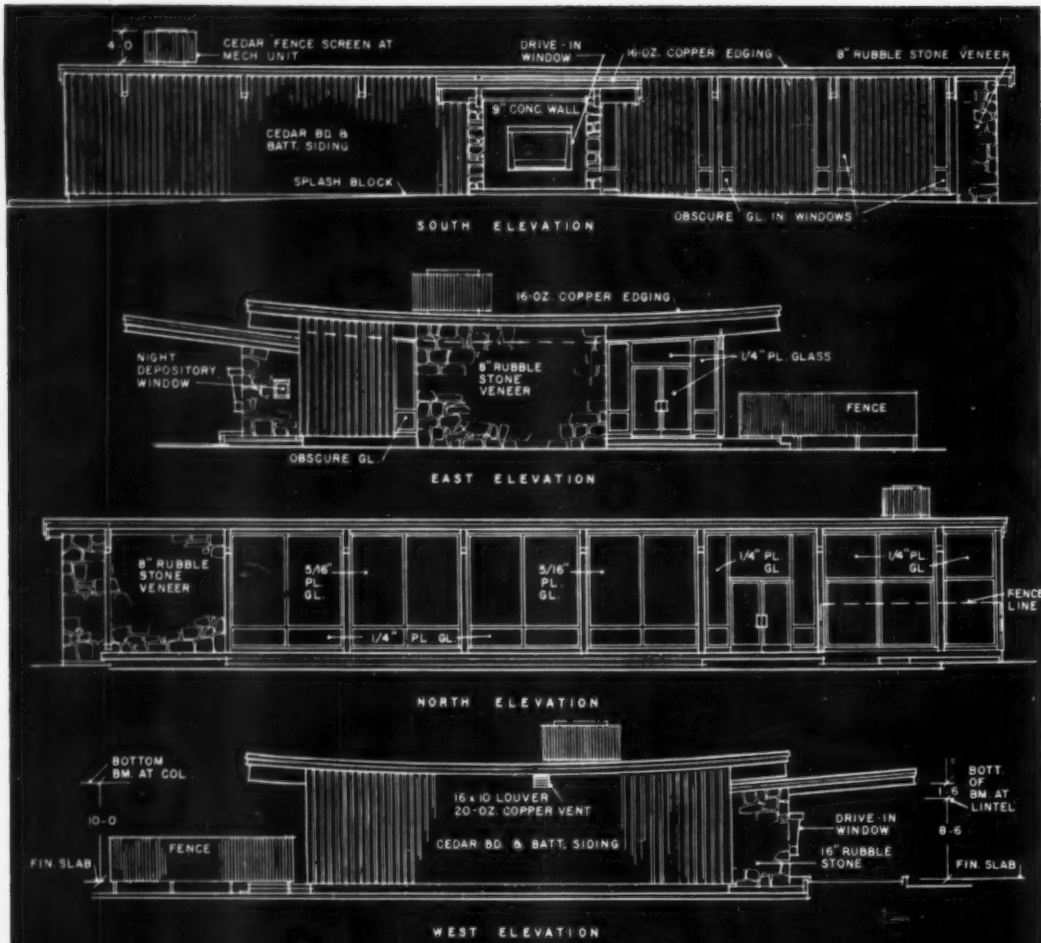
GO MODERN...GO GAS



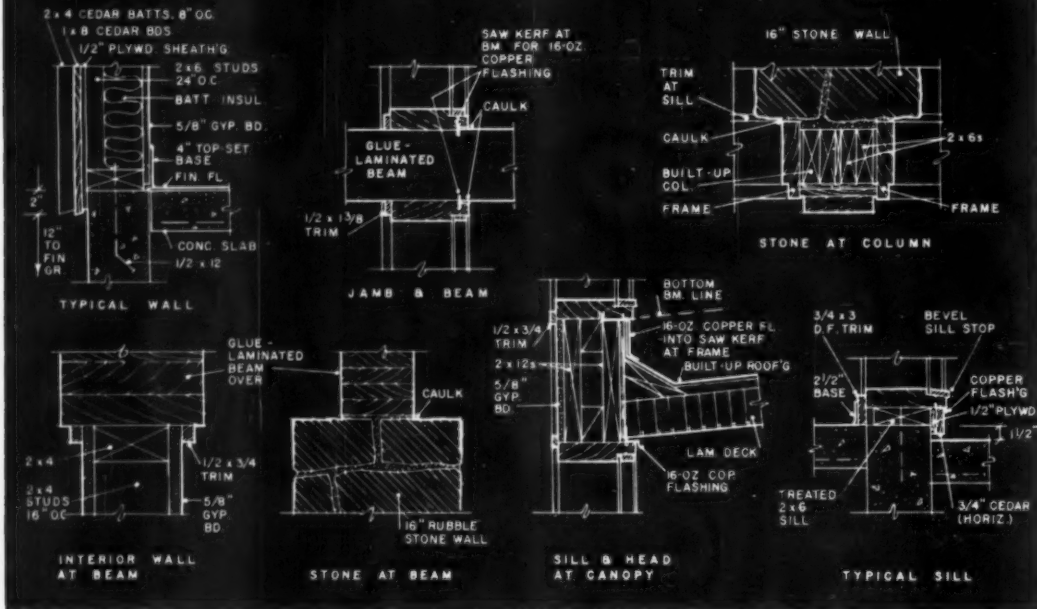
*Wedgewood-Holly*  
KING AND QUEEN OF THE WESTERN RANGES



APPLIANCE COMPANY  
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**Better Detail Plate: Eugene savings bank, page 16H**



*This is what  
they want!*

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## APARTMENTS

(Continued from page 18C)

viduals. In one case he located a doctor who was happy to put his money into a profitable enterprise. A lawyer was an "investor" in another building.

Because McNutt has an excellent reputation and A-1 references, his "investors" feel their money is in good hands.

The builder has found it pays to hold onto the buildings for three or four years before selling them. Here's why.

- Each is set up as a separate corporation and by holding them he gets the long-term capital gains tax.

- Because we are in an inflationary period, it is probable that their value will increase.

- He minimizes his taxes because the depreciation on an apartment usually offsets the income to be reported.

- By keeping them, he nets about 15% (over and above his interest payments, etc.) on the amount he has invested in each building.

- At the end of the three- or

four-year period, he will have most of his original investment back and will have made a good return on it in the interim.

### Below normal rentals

McNutt does not follow the usual pattern when he rents his apartments. Instead of charging the highest possible rentals—based on a vacancy factor—he pegs his rents at about \$15 lower than those in surrounding buildings. This tends to keep his units 100 per cent rented—an unusual situation in the Los Angeles area where the vacancy rate is high.

In the case of the suites shown on pages 18B and 18C, the bachelor apartments rent for \$100 per month furnished. The one-bedroom units rent for the same figure unfurnished. The large apartment was originally occupied by McNutt, but is now rented out for \$190.

All apartments are air conditioned with Frigidaire heat pumps—a separate one for each apartment. Actually, the a/c cost him practically nothing. Southern California Edison Co. makes an allowance when the builder installs a/c. This allowance, to-

gether with the amount separate gas heaters would have cost, paid for the heat pumps.

In addition to being air conditioned, all of McNutt's apartments are carpeted; all have natural wood cabinets and built-ins in the kitchens. Most of the buildings have swimming pools. Some of the apartments come without ranges and refrigerators to accommodate families who own appliances. On furnished units the lessee signs an agreement to pay for any damage and also signs an inventory of the furnishings.

McNutt accepts children in some buildings; in others he does not. He says a building must have at least 20 units to support a manager. The manager gets his rent free or \$100 per month. His duties: collect rent, take care of watering, handle complaints, and show vacant apartments.

What's the future for apartment building? All signs indicate a growing percentage of starts will be apartments. This is particularly true in retirement areas where many persons prefer not to be involved with maintaining houses.

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give bathrooms that  
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Sani-Top's popular Fashionettes sink and pullman fixture makes the bathroom a glittering showcase for the entire home. Fully formed one-piece laminated plastic counter in stunning decorator patterns. Cabinet sides and drawer facings in laminated plastic woodgrains or decorator colors. Sliding doors of decorative Fibreglas. Engineered for quick, simple installation. Sizes and models to suit all needs (from 30" to 72" wide).

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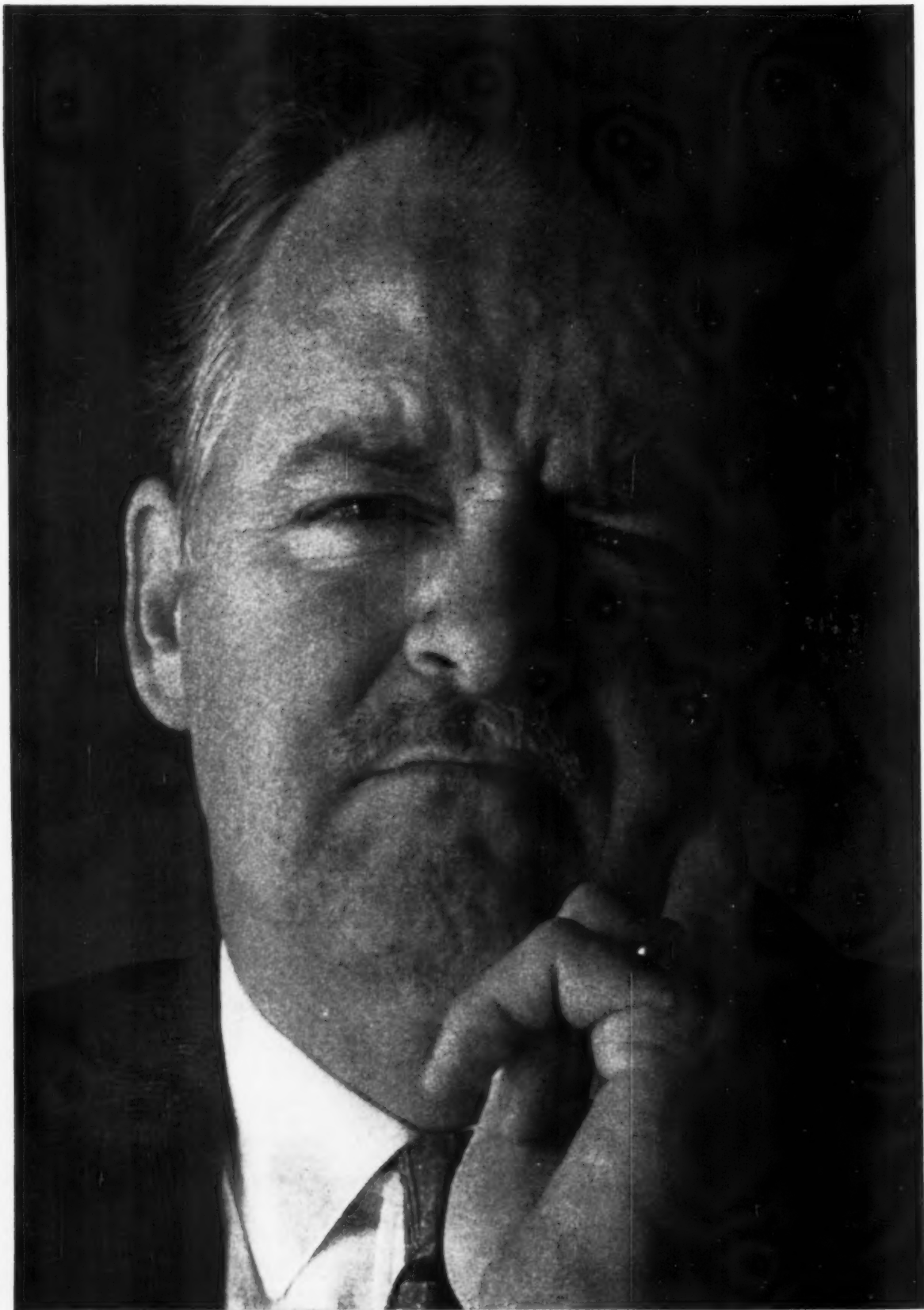


Horizontal  
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DRIVE-IN window can be approached from the 34-car parking area or the street.

(Continued from page 18H)  
like new homes. Others are simple one- or two-story light commercial structures well within the home builder's province.

A typical example is the Eugene, Ore., River Road branch of the United States National Bank of Portland. In both appearance and construction methods, the savings institution could be a typical new "home."

Structurally, the bank features a bowed roof line supported on concave arched glulam Douglas Fir beams. The

roof is Western red cedar deck, visible from inside the bank.

The employees' lounge could well be the family room of many of today's new homes. Walls are surfaced with walnut paneling and there are cooking facilities.

Heating and cooling is accomplished with a reverse cycle air-to-air heat pump. Copper coils throughout the floor slab provide auxiliary heat.

Youel & Huffman of Eugene was the contractor; Wilmsen and Endicott, A.I.A., Eugene, were the architects.

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## American Builder Reader Service

★ APRIL 1960

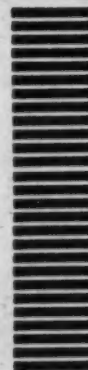
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**Every product, every piece of equipment covered in more than 450 new 1960 catalogs. Get them, free, by using reply card opposite. You'll find them grouped into these 14 sections:**

## SITE PREPARATION, PLANNING

### Plans, systems, office equipment

**BUSINESS COMPUTATIONS** are simplified by use of many types of slide rules described in booklet. Rapid figuring of pricing, operating ratios, installment accounts and investments is explained. Plenty of planning details.—W. H. Pusch Co.

Circle No. A1 on reply card, p. 19

**TRANSISTORIZED POWER** for two-way radio is explained here. Booklet and brochures emphasize absence of vibrator nuisance and electrical interference. Lists base station equipment.—Motorola, Inc.

Circle No. A2 on reply card, p. 19

### Transits, levels

**FIELD EQUIPMENT** for builders ranging from transits to marking rods is covered here. All are described and illustrated in detail in the 26 pages. Drawings, charts, how-to-use details included.—Warren-Knight Co.

Circle No. A3 on reply card, p. 19

**LEVELING INSTRUMENTS** brochure has ordering information with complete list of parts and price of each. Listed are the contractors' level and two models of the convertible.—Bostrom-Brady Mfg. Co.

Circle No. A4 on reply card, p. 19

**LEVELS CATALOG** features two levels new to the trade. Gives ordering information, with illustrations of complete range of leveling tools.—Empire Level Mfg. Co.

Circle No. A5 on reply card, p. 19

**SURVEYING INSTRUMENTS**, from level-transits to alidades, pictured in excellently-illustrated booklet. Cuta-

ways show optical systems. Specifications, how-to-use details, retail price list.—David White Instrument Co.

Circle No. A6 on reply card, p. 19

### Tractors and attachments

**NEW TRACTAIR**, combination tractor and 125-cfm air compressor, is described in this catalog. The double-duty unit travels at 15 mph and will work in rough terrain. Action photos, work capacities, etc.—LeRoi Div., Westinghouse Air Brake Co.

Circle No. A7 on reply card, p. 19

**TILLER-RAKE** which permits efficient seedbed preparation with one tool is described. Pamphlet shows multi-purpose tool in operation, with specifications of various models, detail product information.—Roseman Tractor Equipment Co.

Circle No. A8 on reply card, p. 19

**TRACTOR ATTACHMENTS** in a wide variety are illustrated in folder. Complete description of all models and sizes, with specifications for each.—The Frank G. Hough Co.

Circle No. A9 on reply card, p. 19

**UTILITY TRACTORS** and companion equipment that Allis-Chalmers is offering in 1960. Described in a 12-page, two-color catalog. How to use equipment profitably on wide range of jobs. Photos, sizes, possibilities of equipment.—Allis-Chalmers Mfg. Co.

Circle No. A10 on reply card, p. 19

**BLADE CONTROL** for grader that is dial selecting, all-transistor, fully automatic is shown in new brochure. Also folder on money-saving back rippers for tractor-dozor blades.—Preco, Inc.

Circle No. A11 on reply card, p. 19

## Site planning

Concrete, masonry,  
tile, brick

## Framing

Roofing, siding, in-  
sulation, sheathing

Doors and windows

Plumbing, water supply

Heating, cooling,  
ventilation

Electrical, wiring

Floor, wall, ceiling  
material

Millwork, cabinets

Hardware, building  
specialties

Appliances, kitchen  
equipment

Paints, finishes,  
waterproofing

Tools, equipment

**BACKHOES**, tractor shovels, and hydraulic hammers are among products described in this series of catalog sheets. List specifications, attachments, etc.—Henry Mfg. Co., Inc.

Circle No. A12 on reply card, p. 19

**CRAWLER TRACTOR** is described in colorful 15-page booklet. Contains technical information and lists accessories. Versatility of machine is fully illustrated.—The Oliver Corp.

Circle No. A13 on reply card, p. 19

**BACKHOES** and loaders plus rear blades and brooms are featured in this folder. Complete specifications and list of attachments for each of the units is included.—Shawnee Mfg. Co., Inc.

Circle No. A14 on reply card, p. 19

### Trucks and parts

**TRUCK EQUIPMENT** is described fully in thick catalog. Complete line ranges from power gates and hoists to dump bodies and power loaders.—Daybrook Div., Young Spring & Wire Corp.

Circle No. A15 on reply card, p. 19

**MATERIAL HANDLING** trucks outlined in punched brochure. Lift trucks with cushion or pneumatic tires are pictured. Tables of performance, dimensions, equipment. Lists all attachments.—Hyster Co.

Circle No. A16 on reply card, p. 19

**TRUCKS FOR LIGHT HAULING** are illustrated in colorful 20-page booklet. Cutaway drawings show construction, loading capacity. Specifications included.—Volkswagen of America, Inc.

Circle No. A17 on reply card, p. 19

### Earth-moving equipment

**SELF-PROPELLED TRENCHERS** are shown and described in handy folder. Gives technical details and specifications on trencher which has many functions.—Charles Machine Works.

Circle No. A18 on reply card, p. 19

**HEAVY CRANE** with 11-ton lifting capacity is described here. Illustrated catalog covers complete line of accessories and attachments. Also shows how crane does wide variety of jobs.—Schield Bantam Co.

Circle No. A19 on reply card, p. 19

**HYDRAULIC EXCAVATOR** catalog describes and illustrates versatile line. Describes uses, gives complete specifications and other technical data.—Construction Equipment Div., Warner & Swasey Co.

Circle No. A20 on reply card, p. 19

**LAND PLANNING** equipment brochures illustrate shredders and brush cutters. Shows new four-row shredder, other types. Includes clippers, mowers, terracers, blades.—Servis Equipment Co.

Circle No. A21 on reply card, p. 19

**DITCHERS, CONVEYORS** are described in various catalogs and brochures. Feature Runabout ditcher, and the 702A for small building foundations, underground installation.—Barber-Greene Co.

Circle No. A22 on reply card, p. 19

**EARTH-MOVING EQUIPMENT** of all types. Shown in a ten-page booklet. Details scrapers, rear-dumps, tractors and accessories. Gives all specifications, work loads, matching attachments. Complete earth-moving picture.—LeTourneau-Westinghouse Co.

Circle No. A23 on reply card, p. 19

**MOWING EQUIPMENT** for lawns and larger areas are described in catalog and brochures. Various motorized models include wind-tunnels, riders, edge trimmers, gang-mowers, etc.—Toro Mfg. Co.

Circle No. A24 on reply card, p. 19

**LOADERS, BULLDOZERS**, tilt-trailers, angling dozers are covered in fold-out brochure. Detailed drawings of tractor accessories and specifications list.—J. I. Case Co.

Circle No. A25 on reply card, p. 19

**NEW LINE** of tractors, crawler-loaders, and other earth-moving machines are described in a new folder. Brochure pictures, gives complete specs on all models; also tells how to buy the machines on credit.—John Deere Industrial Div.

Circle No. A26 on reply card, p. 19

**EARTH-MOVING EQUIPMENT** line is listed in colorful, extensive catalog.

## CONCRETE, MASONRY, TILE AND BRICK

### Concrete, concrete masonry

**PERLITE'S USES** are covered thoroughly in three brochures. Functions as a lightweight fireproofing material, and as an aggregate with plaster and concrete. Fact-packed with helpful data.—Perlite Institute, Inc.

Circle No. A34 on reply card, p. 19

**INSULATING CONCRETE** which uses Permalite as an aggregate instead of sand or gravel is the subject of this catalog. Special attention is given to the details of roof deck and floor fill uses.—Great Lakes Carbon Corp.

Circle No. A35 on reply card, p. 19

Gives specifications, data on machines and accessories.—Ottawa Steel Div., Young Spring & Wire Corp.

Circle No. A27 on reply card, p. 19

**INFORMATION KIT** on gasoline-driven trencher contains illustrations, complete technical data. Outlines advantages of machine which digs 3"-wide trench.—Stampings, Inc.

Circle No. A28 on reply card, p. 19

**ECONOMICS** of transforming low-cost land into valuable real estate with dredges is the subject of this bulletin. Describes two actual case histories.—Ellicott Machine Corp.

Circle No. A29 on reply card, p. 19

**TRENCHERS**, both light- and heavy-duty, are described in separate catalogs. Both discuss and illustrate wide range of speeds, head widths, and cutter-arm lengths. Details, how-to-use information.—Arps Corp.

Circle No. A30 on reply card, p. 19

**POWER ROLLERS**, portable pumps, space heaters for construction, bar bending and shearing machines are subjects of a series of folders. Complete specifications, photos, models given.—Midland Products Co.

Circle No. A31 on reply card, p. 19

**LAND CLEARING** equipment illustrated in four-page brochure. Shows pull-stumpers, treedozer, root plows and rolling choppers. Root, brush and rock rakes in action photos.—Fleco Corporation.

Circle No. A32 on reply card, p. 19

**EARTH-MOVING EQUIPMENT** illustrated in new 20-page catalog. Contains model views and brief specifications on graders, track-type tractors, bulldozers, rippers, and many others.—Caterpillar Tractor Co.

Circle No. A33 on reply card, p. 19

**RUBBER CONTROL JOINTS**, both wide flange and regular, for use in masonry wall is discussed in leaflet. Includes specification charts and illustrations of installation methods. Plenty of helpful how-to information.—Cedar Rapids Block Co.

Circle No. A36 on reply card, p. 19

**SELECTED AGGREGATES** for construction of curtain wall panels and facings are illustrated in 15-page booklet. Emphasizes advantages of precast panels. How-to information is detailed with photos, technical drawings and other details and specs.—General Portland Cement Co.

Circle No. A37 on reply card, p. 19



**Brick, stone, tile, masonry**

**STRUCTURAL CLAY PRODUCTS** are subject of colorful 23-page technical booklet. Shows tile and brick for interior and exterior construction, other products for conduit, sewer.—Natco Corp.

Circle No. A38 on reply card, p. 19

**HAND-MADE** terra-cotta tiles are illustrated in a variety of designs in this booklet. The imported tiles are shown along with ideas for installation.—Three Centuries.

Circle No. A39 on reply card, p. 19

**TILE FOLDER** gives sizes and patterns in color. Roof tile, quarry tile, and facing brick are covered, along

with suggested installation procedures. Good technical information included.—Ludowici-Celadon Co.

Circle No. A40 on reply card, p. 19

**ADVANTAGES** of Tennquartz as a building stone are discussed in four-pager. Illustrates various uses of stone, along with full specifications.—Tennessee Stone Co.

Circle No. A41 on reply card, p. 19

**SANDSTONE** portfolio has brochures covering preparation, wall and flagstone patterns, wall sections, setting techniques, uses. Illustrated with photos and detailed drawings. Packed with good technical data.—The Briar Hill Stone Co.

Circle No. A42 on reply card, p. 19

**NATURAL STONE** illustrated in 1960 catalog. Gives chemical composition and specifications for rock- and strata-face veneer, and flagstone. Details also on curtain wall panels, mantels, hearths, etc. Information shown in photos, charts and spec lists.—Tennessee Stone Co., Inc.

Circle No. A43 on reply card, p. 19

**Reinforcing steel**

**WELDED WIRE FABRIC** has its role as a concrete reinforcement outlined in this 16-page illustrated manual. Uses detailed: basement floors, drives, patios, slabs, and steps. Catalog is filled with illustrating photos, detail studies, technical information.—Wire Reinforcement Institute, Inc.

Circle No. A44 on reply card, p. 19

**FRAMING**

**Framing, structural lumber**

**DATA ON GRADES** and specifications of various types of West Coast lumber are given in 16-page booklet. Contains technical data, charts, and conversion tables, along with photos.—West Coast Lumbermen's Assn.

Circle No. A45 on reply card, p. 19

**DESIGN MANUAL** is offered to builders interested in working with laminated wood structures. Includes not only ideas, but information on the capabilities of laminated wood.—Unit Structures, Inc.

Circle No. A46 on reply card, p. 19

**FIRE-RETARDANT LUMBER** is described in one booklet, pressure-treated Douglas fir poles in another. Both discuss processing, testing, advantages, uses.—J. H. Baxter & Co.

Circle No. A47 on reply card, p. 19

**WOOD PRODUCTS** from forest to finished lumber illustrated in catalog. Economy of mixed car-loading of sheathing, siding, shingles, panels is shown.—Summitt Timber Co.

Circle No. A48 on reply card, p. 19

**LUMBER GUIDE** of the SPA lists lumber companies and the products they handle. Information is classified according to species, equipment, items manufactured.—Southern Pine Association.

Circle No. A49 on reply card, p. 19

**Structural steel**

**OPEN-WEB STEEL JOISTS**, designed for commercial structures, are described and specified. Spans from 25 ft. to 152 ft., along with charts, are covered.—Haven-Busch Co.

Circle No. A50 on reply card, p. 19

**MORE STRENGTH** at lower cost with structural-steel tubing is subject of four-page folder with inserts. Mechanical data of square and rectangular tubing given.—Equipment Steel Products.

Circle No. A51 on reply card, p. 19

**STRUCTURAL STEEL** is included in thick steel products catalogs. Describe fence, girders, wire, nails, staples. Information includes drawings, photos, charts.—Colorado Fuel & Iron Corporation.

Circle No. A52 on reply card, p. 19

**STEEL JOISTS** are described in this 52-page catalog. Index covers joist construction, standards, loading and design tables, accessories, specifications. Drawings, charts.—Laclede Steel Company.

Circle No. A53 on reply card, p. 19

**Trusses, connectors**

**H-BRACE TRUSSES** using clinch-nail connectors are given a detailed description in this two-color folder. Data on hip-roof designs is included, too.—H-Brace, Inc.

Circle No. A54 on reply card, p. 19

**LAMINATED TRUSSES**, arches and beams are fully described here. Data ranges from design characteristics to load-bearing abilities in 20-page catalog.—Rilco Laminated Products, Inc.

Circle No. A55 on reply card, p. 19

**JOIST HANGERS** and beam hangers are described in handy five-page booklet. Gives technical data, construction details, and tells how to figure sizes. Includes a list of distributors.—Timber Engineering Co.

Circle No. A56 on reply card, p. 19

**PLYWOOD CLIPS** and many other types of connectors, such as timber rings, wall ties and door buck anchors, are featured in this eight-pager. Prices quoted.—Cleveland Steel Specialty Co., Inc.

Circle No. A57 on reply card, p. 19

**Metal lath and accessories**

**METAL LATH** and accessories are covered in the 20 pages of this reference catalog. Plenty of easy-to-read detail drawings are included with specifications.—Inland Steel Co.

Circle No. A58 on reply card, p. 19

**ANGLE-RITE ELIMINATES** plaster cracks by locking gypsum lath in corners and ceiling angles. Brochure shows setting methods, special problems, quantities needed.—Butcher & Hart Mfg. Co.

Circle No. A59 on reply card, p. 19

**METAL LATH** and plaster uses given in quarterly brochure. Close-up photos of lathing installation, plastering methods. Industrial and commercial advantages, fire safety, versatility shown.—Metal Lath Mfrs. Assn.

Circle No. A60 on reply card, p. 19

**Curtain walls**

**CURTAIN WALL SYSTEMS** of aluminum or steel are subject of 20-page catalog. Specifications and main features are clearly presented. Includes many details.—William Bayley Co.

Circle No. A61 on reply card, p. 19

**ALUMINUM WALL SYSTEMS** completely illustrated in 19-page catalog. Covers architectural and engineering aspects of curtain-wall construction. Gives drawings, diagrams, suggested specifications.—Kawneer Co.

Circle No. A62 on reply card, p. 19

**CURTAIN WALLS**, window walls, awning windows, weatherstripped jalousies are described here. Catalogs and brochures cover all-aluminum products. Drawings and specifications.—Superior Window Co.

Circle No. A63 on reply card, p. 19

**ALUMINUM CURTAIN WALLS** for institutional and commercial buildings described in 11-page catalog. Gives complete information, drawings of all types and sizes.—Valley Metal Products Co.

Circle No. A64 on reply card, p. 19

**CURTAIN WALLS** of aluminum and steel are described in series of booklets. Fold-outs show details of construction and installation. Spec sheets, suggested uses, etc.—Ceco Steel Products Corp.

Circle No. A65 on reply card, p. 19

## ROOFING, SIDING, INSULATION, SHEATHING

### Roof structure

**SEAMLESS TERNE ROOFING** is the subject of this 12-pager. A wealth of detail drawings are included. Contains several pages of notes and facts on roofing.—Follansbee Steel Corp.

Circle No. A66 on reply card, p. 19

### Shingles, shakes

**CEDAR SHAKE SIDING** story is told in a full-color folder which gives merits of prefinishing. Comes with single sheet containing technical data.—Shake-A-Ply Co.

Circle No. A67 on reply card, p. 19

**ROOFING AND SIDING** are the main types of products covered in this comprehensive catalog of building products. Full-color lines of both materials are shown.—The Ruberoid Co.

Circle No. A68 on reply card, p. 19

**CEDAR SHINGLES** and shakes . . . detailed in 16-page catalog. Offers house-plan ideas and cutaways of application methods. Explains shingling material, gives shipping sizes.—Red Cedar Shingle Bureau.

Circle No. A69 on reply card, p. 19

**COLORFUL SHINGLE** brochures and catalogs discuss construction and features of Master-Bilt shingles. Also contain color scheme charts, emphasize extra tab width, triple coverage, etc.—Bird Shingles.

Circle No. A70 on reply card, p. 19

**SIDING** and shingles, made of asbestos plus cement with baked-ceramic finish, are described in series of colorful booklets. Includes technical data.—The Philip Carey Mfg. Co.

Circle No. A71 on reply card, p. 19

**RED CEDAR SHAKES** colorfully described in booklet and brochure. Illustrate variety of applications in both new-home construction and remodeling.—Shakertown Corp.

Circle No. A72 on reply card, p. 19

**COMPLETE DATA** on red cedar shingles and shakes. Coursing, coating, sheathing, nailing discussed along with an optional color plan. You'll find these in a 42-page, four-color booklet.—Creo-Dipt Company.

Circle No. A73 on reply card, p. 19

### Siding

**PLYWOOD PANELING**, hardboards, siding and sheathing . . . colorfully illustrated in booklet. Photos give installation ideas. Lists all specifications, prices.—Georgia-Pacific Corp.

Circle No. A74 on reply card, p. 19

**HARDWOOD PLYWOOD** catalog has 33 pages with index. Discusses every aspect of this building material. Gives recommended specifications, dimensions, construction, various patterns.—U. S. Plywood Corp.

Circle No. A75 on reply card, p. 19

**FIR PLYWOOD'S** physical properties, types, grades, uses, sizes, and special products are discussed in 16-page booklet. Specification charts and illustrations included.—Douglas Fir Plywood Assn.

Circle No. A76 on reply card, p. 19

**BUILDERS FILE** on California Redwood contains technical information on use in home construction. Data sheets cover yard grades, siding patterns, application helps. Profusely illustrated.—California Redwood Assn.

Circle No. A77 on reply card, p. 19

**PUBLICATIONS FOLDER** lists variety of catalogs dealing with all types of western pine. Tells how to get plans, ideas, booklets, technical aids, sales aids, etc.—Western Pine Assn.

Circle No. A78 on reply card, p. 19

**INSULATING SIDING** is covered in slim brochure. Ceramic siding is illustrated in various colors, with accessories required for installation.—Edco Products Inc.

Circle No. A79 on reply card, p. 19

### Insulation

**INSULATION GUIDE** prepared for home owners is of interest to builders. Brochure contains easy-to-understand information on residential insulation of different types.—Zonolite Co.

Circle No. A80 on reply card, p. 19

**INSULATING BOARDS** are itemized in pocket-sized handbook. Describes advantages and uses of the weather-

proof boards. Lists wide variety of forms and thicknesses.—Homasote Co.

Circle No. A81 on reply card, p. 19

**TWO FOLDERS** are available—one on insulating board and the other on batt or blanket-type insulation. Both outline application and performance for small commercial buildings and houses.—Wood Conversion Co.

Circle No. A82 on reply card, p. 19

**INSULATION WOOL** is designed to provide all-weather protection. Brochure describes features and advantages of glass fibre product, emphasizes heating economy.—Sealtite Insulation Mfg. Corp.

Circle No. A83 on reply card, p. 19

**WOOL INSULATION** described in series of booklets. Block, blanket, spun-felt and pipe insulation as well as insulating cement detailed. Application techniques, thermal conductivity graphs.—Baldwin-Ehret-Hill, Inc.

Circle No. A84 on reply card, p. 19

**FOAMED PRODUCTS** used in insulation and sandwich panels are discussed here. Many different building materials are analyzed in terms of properties and uses in this brochure.—Dow Chemical Co.

Circle No. A85 on reply card, p. 19

**BUILDING INSULATION**—how it works, why and where it should be used—is covered in thick booklet. It is designed to keep readers up with latest data.—Insulation Board Institute.

Circle No. A86 on reply card, p. 19

### Vapor barriers

**VAPOR BARRIER** is described in illustrated folder. Discusses use of polyethylene film and reasons for vapor protection. Gives architect's specifications.—E. I. du Pont de Nemours & Co., Inc.

Circle No. A87 on reply card, p. 19

**PERMANENT BARRIER FILM** of polyethylene described here. Brochure lists three types: clear, sun-resistant and opaque, and gives uses, advantages and applications of each.—Gerling Plastics.

Circle No. A88 on reply card, p. 19

**Flush doors**

**WIDE VARIETY** of decorative exterior flush doors are shown in well-illustrated, extensive catalog. Many design features are also covered.—Visador Co.

Circle No. A89 on reply card, p. 19

**STEEL DOORS** and frames are fully illustrated with diagrams and specifications in 23-page booklet. Stresses louvered panels, folding steel closet units.—Amweld Building Products.

Circle No. A90 on reply card, p. 19

**STEEL DOORS** and accessories are described in 17-page catalog. Numerous illustrations and charts give technical details on construction and installation.—Steelcraft Mfg. Co.

Circle No. A91 on reply card, p. 19

**PREHUNG DOORS** are featured in two folders, one for exterior and the other for interior doors. Both folders contain many details and data on installation.—Ready Hung Door Corp.

Circle No. A92 on reply card, p. 19

**FULL LINE OF DOORS** and windows illustrated in two brochures. Drawings show structural details. Chart shows 19 decorator colors; in steel and aluminum. Plenty of specs, data.—The F. C. Russell Co.

Circle No. A93 on reply card, p. 19

**PRE-HUNG WOOD DOOR** unit with expandable door jamb shown in this brochure. Also described is pre-hung louver door unit. Installation details, drawings, other specifications given.—Champion Door Co.

Circle No. A94 on reply card, p. 19

**DOOR UNITS** of hollow metal, with all accessories, are described in comprehensive catalog. Information includes detailed cross-section drawings, charts, engineering data, specifications.—Fenestra, Inc.

Circle No. A95 on reply card, p. 19

**Folding, sliding doors**

**FOLDING DOORS** are subject of illustrated color catalog. A 20-page brochure gives technical information, installation details on wood casement windows.—Rolscreen Co.

Circle No. A96 on reply card, p. 19

**FOLDING DOORS** are illustrated and described in pamphlet. Three models are shown, along with charts listing available sizes of full and half unit doors.—American Steel Door Co.

Circle No. A97 on reply card, p. 19

**FOLDING DOORS** in two types to fit any need are subject of four-page brochure. Gives specifications, describes such features as the narrow profile, decorator cornice.—Holcomb & Hoke Mfg. Co.

Circle No. A98 on reply card, p. 19

**FOLDING DOORS** for residential and commercial installations are illustrated in 15-page catalog. Drawings show installation of various types, accessories, hardware, and details.—American Accordion-Fold Doors, Inc.

Circle No. A99 on reply card, p. 19

**WOOD FOLDING DOORS**, designed to never fade, control space and sound, are reviewed in colorful booklet. Gives specifications, dimensions, describes all features.—Panelfold Doors, Inc.

Circle No. A100 on reply card, p. 19

**ROLLING DOORS**, steel or aluminum for industrial installations, are given complete coverage in 35-page catalog. Information includes photos, drawings, charts, construction features.—The Kinnear Mfg. Co.

Circle No. A101 on reply card, p. 19

**FOLDING DOORS** are illustrated in 11-page catalog. Covers acoustical properties, accessories, hardware, installation, specifications, colors. Brochures show basswood and mahogany types.—Hough Mfg. Corp.

Circle No. A102 on reply card, p. 19

**Sliding glass doors**

**COMPLETE LINE** of aluminum sliding glass doors are described in 10-page pamphlet. Includes types and sizes of doors, glass sizes and details of construction.—Ador Corp.

Circle No. A103 on reply card, p. 19

**ALUMINUM WINDOWS** and sliding glass doors are described in two colorful folders. Good detail diagrams & specifications.—Hollyview Aluminum Sliding Glass Doors, Windows.

Circle No. A104 on reply card, p. 19

**GLASS DOORS** and windows, sliding, rolling and floating types, pictured in looseleaf portfolio. Complete details, in drawings and tables, construction and installation. All sizes and specifications are given.—Nudor Mfg. Co.

Circle No. A105 on reply card, p. 19

**ALUMINUM WINDOWS** and sliding glass doors are described in 15-page booklet. Illustrations include cross-section drawings and specifications for all styles and types.—Fleet of America, Inc.

Circle No. A106 on reply card, p. 19

**Garage doors**

**GARAGE DOORS** catalog is designed to aid builder in blending attached garage into front elevation. More than 100 designs, in styles from early American to contemporary, are described.—Graham Industries, Inc.

Circle No. A107 on reply card, p. 19

**COMPLETE LINE** of overhead garage doors and door hardware is described in four colorful brochures. All doors available with wide or narrow panels.—Franz Manufacturing Co.

Circle No. A108 on reply card, p. 19

**VARIETY OF GARAGE** doors and electric operators, radio controlled, are subject of folder. Gives specifications of all stock sizes, describes outstanding features, shows various designs.—Calder Mfg. Co.

Circle No. A109 on reply card, p. 19

**UPWARD-ACTING DOORS** are covered in 20-page catalog. Index for residential section includes customized designs, torsion spring, extension spring, operators, etc.—Crawford Door Co.

Circle No. A110 on reply card, p. 19

**ONE-PIECE GARAGE DOORS** for residential installations are featured in brochure covering all types. Gives specifications, describes features, installations.—Berry Door Corp.

Circle No. A111 on reply card, p. 19

**OVERHEAD DOORS** for residential garages are illustrated in three brochures. They emphasize quality and appearance, give specifications, various styles.—Overhead Door Corp.

Circle No. A112 on reply card, p. 19

**UPWARD-TYPE DOORS** for garage and other uses, illustrated in series of pamphlets. Shows manual- and automatic-operated installations. Offers panel styles and specifications.—Raynor Mfg. Co.

Circle No. A113 on reply card, p. 19

**RESIDENTIAL GARAGE DOORS** in many styles and designs. Illustrated in an eight-page booklet. Shows construction, parts, jamb details, clearances required. Specifications and stock sizes of each.—The Howell Mfg. Company.

Circle No. A114 on reply card, p. 19

**STEEL SECTIONAL DOORS** catalog includes residential garage doors. Drawings show framing details and complete specifications for two models.—Imperial and Regent.—Morrison Steel Products, Inc.

Circle No. A115 on reply card, p. 19

## Windows

**WOOD WINDOWS** in double-hung, awning, and horizontal types are subject of brochure. Combinations of windows for special purposes are shown in plan form.—The Malta Manufacturing Co.

Circle No. A116 on reply card, p. 19

**WINDOW WALLS** are featured in the 12 pages of this new manual. Emphasis is placed on bowed units, and details and specifications are offered for all types.—Fred Reuten, Inc.

Circle No. A117 on reply card, p. 19

**DOOR AND WINDOW** catalog contains descriptions, specifications and prices. Types of windows include removable, awning, sliding.—The Crestline Co.

Circle No. A118 on reply card, p. 19

**WOOD WINDOW** portfolio has brochures illustrating each type—bay picture window units, sliding units, vent, casement, storm, screen, etc. Specifications are included in the package.—Rimco Products.

Circle No. A119 on reply card, p. 19

**112 TECHNICAL PLATES** tell the full Curtis window story. Each plate is illustrated and contains full specifications on design and erection. Plates come in an easy-to-use binder.—Curtis Companies, Inc.

Circle No. A120 on reply card, p. 19

**PLASTIC SLIDING WINDOW** is designed to be frost- and condensation-free. Cutaway drawings in large brochure give the construction details, applications, advantages.—The Plyco Corp.

Circle No. A121 on reply card, p. 19

**COMPLETE HANDBOOK** on modular window frames, snap-on grilles, bow windows, Unilocks, and take-out windows. All detailed in this group of catalogs. They're full of placing details, too.—Fabrow Mfg., Inc.

Circle No. A122 on reply card, p. 19

**ALUMINUM WINDOW** and doors in all styles are shown in 26-page catalog. Construction details are shown in cross-section drawings.—Capitol Products Corp.

Circle No. A123 on reply card, p. 19

**ALUMINUM, GALVANITE,** and steel windows are illustrated in 16-page booklet. Gives construction details of projected, casement, and ribbon and glass block windows.—Wilke Metal Products.

Circle No. A124 on reply card, p. 19

**ALUMINUM WINDOWS** are subject of this catalog. Casements, jalousies,

curtain walls, awnings also included. Complete specifications and assembly diagrams.—Ware Laboratories, Inc.

Circle No. A125 on reply card, p. 19

**WINDOW WALLS** for all types of buildings are fully illustrated in 44-page catalog. Information is indexed with description, sizes, details of all types. Includes drawings, diagrams.—Andersen Corporation.

Circle No. A126 on reply card, p. 19

**ALUMINUM WINDOWS** listed in 39-page catalog, sliding glass doors in 11-page catalog. Drawings and cross-section illustrations, charts, give complete data on all styles.—Alwintite Div., General Bronze Corp.

Circle No. A127 on reply card, p. 19

**ALUMINUM WINDOWS** and hollow metal doors are subject of 11-page catalog. Information includes cutaway illustrations of all types—double and single hung, casement, awning, etc.—Republic Steel Corp.

Circle No. A128 on reply card, p. 19

**ALUMINUM WINDOWS** in 22 different styles presented in new literature. Includes three types of curtain walls, integral fin casements, hopper vents, jalousies.—Southern Sash Sales and Supply Co., Inc.

Circle No. A129 on reply card, p. 19

## Structural glass and plastic

**LAMINATED SAFETY GLASS** is discussed in illustrated five-page folder. Uses and advantages of light-resistant material is presented in chart form.—Safetee Glass Co.

Circle No. A130 on reply card, p. 19

**TEMPERED GLASS** which is several times stronger than untempered glass has wide variety of uses. Eight-page bulletin discusses its outstanding properties, gives specifications for installation.—Virginia Glass Products, Corporation.

Circle No. A131 on reply card, p. 19

**TRANSLUCENT FIBERGLASS** reinforced panels illustrated in brochure. Contains architectural specification guide. Shows designers' patterns, installation details.—Barchite Corp. of America.

Circle No. A132 on reply card, p. 19

**ARCHITECTURAL SPECIFICATIONS** for industrial use of Alsynite's fiberglass-reinforced window panes. Details listed in full in a four-page, two-color catalog.—The Alsynite Company of America.

Circle No. A133 on reply card, p. 19

**ALL TYPES OF FLAT GLASS** for construction purposes are covered in

27-page catalog. Discusses uses, features, installation. Illustrations included.—Libbey-Owens-Ford Glass Co.

Circle No. A134 on reply card, p. 19

## Skylights

**PLASTIC SKYLIGHT** brochure instructs builders on most effective methods of daylighting their projects. Offers full details, specifications on complete line of skylights and related products.—Wasco Products, Inc.

Circle No. A135 on reply card, p. 19

## Screening

**SHEET PLASTIC**, both plain and reinforced, is reviewed in this catalog. Samples are included. Plastic and metal insect screening, plus metal door hardware, are also covered.—Peerless Mfg. Co., Inc.

Circle No. A136 on reply card, p. 19

**ROLL SCREENS** for homes, cottages, apartments, industrial buildings are described in brochures. Gives advantages, installation and construction details.—Lockhart Mfg. Co.

Circle No. A137 on reply card, p. 19

**STORM, SCREEN, FOLDING** doors constructed of aluminum, wood, or fabric, illustrated in five-page booklet. Shows features, installation instructions, stock sizes, etc.—The Columbia Mills.

Circle No. A138 on reply card, p. 19

## Thresholds, weatherstripping

**COMBINATION WEATHERSTRIP** and door stop of extruded aluminum construction with vinyl insert is discussed in two pages. Data on doorway and window installations is given.—Air-Tite Products, Inc.

Circle No. A139 on reply card, p. 19

**DOOR SEALING SYSTEMS** described with cutaway drawings in brochure. Gives advantages of flexible vinyl seal locked in vinyl frame. Installation details.—The Dura-Flex Co.

Circle No. A140 on reply card, p. 19

**WHOLESALE PRICE LIST** of Baltz weatherstripping products. Offered in a one-page listing. The listing describes products, weights, how material will be shipped.—Robert N. Baltz & Company.

Circle No. A141 on reply card, p. 19

**WEATHER SEALS**, made of woven pile and metal strips, detailed in 47-page catalog. Shows cutaways of pile-strips and methods of installation. Gives all specifications.—Schlegel Mfg. Company.

Circle No. A142 on reply card, p. 19

**METAL WEATHERSTRIP** and sash balances are catalogued with lots of installation data and details. Thick book has listing of special tools for the application of various types of weatherstrip.—Master Metal Strip Service

Circle No. A143 on reply card, p. 19

**WEATHERSTRIPPING** catalog includes metal door and window types, wood and felt, vinyl, adhesives. Second catalog covers full jamb, kerf, nail-on, door bottoms.—W. J. Dennis & Company.

Circle No. A144 on reply card, p. 19

and dimensions for all.—L. O. Koven & Bro., Inc.

Circle No. A159 on reply card, p. 19

**WATER HEATING** portfolio has brochures covering every type of water heating system. Cutaway drawings and specifications on all models.—Pioneer Mfg. Co.

Circle No. A160 on reply card, p. 19

## PLUMBING, WATER SUPPLY, SEWAGE

### Pumps, water systems, sewage

**PORTABLE** and stationary pumps, of both centrifugal and diaphragm types, are shown in this extensive catalog. Sizes, capacities, and prices are included in this information.—Rice Pump & Machine Co.

Circle No. A145 on reply card, p. 19

**PACKAGED** sewage lift stations and sewage treatment plants are extensively covered in separate catalog. Specifications and operative descriptions appear.—Smith & Loveless Inc.

Circle No. A146 on reply card, p. 19

**WATER SYSTEMS** . . . information about a variety of pumps and how to service them in a big new 11-section catalog. Drawings, charts, photos and prices.—Flint & Walling Manufacturing Company.

Circle No. A147 on reply card, p. 19

**TURBINE-TYPE PUMPS** described in eight-page booklet, centrifugal pumps in brochure. Information is complete with photos, cutaway drawings, selection charts and parts lists.—Aurora Pump Div., N. Y. Air Brake Co.

Circle No. A148 on reply card, p. 19

**PUMPS, WATER SYSTEMS** . . . described in 39-page catalog which features price list and specifications. Includes reference index to turbine and centrifugal types, deep well pumps, accessories.—Decatur Pump Co.

Circle No. A149 on reply card, p. 19

**SEWAGE EJECTORS** and submersible sump pumps are described in brochures. Drawings show construction details, typical installations. Includes information on how to specify when ordering.—Weil Pump Co.

Circle No. A150 on reply card, p. 19

### Piping

**MULTIPLE USES** of copper in home construction are covered in variety of catalogs and pamphlets. They describe advantages of copper installations, analyze comparative costs.—Chase Brass and Copper Co.

Circle No. A151 on reply card, p. 19

**GALVANIZED, CORRUGATED** pipe culverts presented in four-page brochure. Gives complete specifications on full-round or arch types. Also shows areawall construction for basement window walls.—Saint Paul Corrugating Co.

Circle No. A152 on reply card, p. 19

**SEWER PIPE** and fittings are itemized in 17-page catalog; conduit in 16-page catalog. Installations completely illustrated with photos, drawings, charts, specifications.—Brown Co.

Circle No. A153 on reply card, p. 19

**PIPE FOR ALL PURPOSES** covered in catalog and brochures. Full details on laminated, bituminized fiber pipe, fiber forms for columns, fire duct, fiber tube for concrete construction, etc.—Sonoco Products Co.

Circle No. A154 on reply card, p. 19

**BITUMINIZED FIBRE PIPE** for sewers and cast iron soil pipe covered in a four-page and an 80-page catalog respectively. Both include construction details and specifications for all sizes and fittings.—The Central Foundry Co.

Circle No. A155 on reply card, p. 19

### Water heaters

**WATER-HEATING EQUIPMENT** of all sizes and for all fuels are covered in 67-page catalog. Capacity and cost charts and index to subjects are also included, plus plenty of other data.—The Hotstream Heater Co.

Circle No. A156 on reply card, p. 19

**COMPLETE LINE** of gas water heaters, safety equipment, gas and water meters is described in folder. Specially designed water heaters are available for unusual installations.—Handley-Brown Heater Co.

Circle No. A157 on reply card, p. 19

**WATER HEATERS** and gas-fired boilers, incinerators, and wall heaters are described in catalog. Ratings, specifications, and dimensions are included.—Bastian-Morley Co., Inc.

Circle No. A158 on reply card, p. 19

**WATER HEATERS** are illustrated in brochures for each type—gas, electric, oil. Literature also describes linings and alkaline barriers. Gives details

and dimensions for all.—L. O. Koven & Bro., Inc.

Circle No. A161 on reply card, p. 19

**AUTOMATIC WATER HEATERS** are subject here. Brochures give full descriptions of all models, both electric and gas; include cutaway drawings, measurements.—White Products Corp.

Circle No. A162 on reply card, p. 19

### Water softeners

**WATER SOFTENERS** are discussed in this eight-page catalog. Information on operation of units, diagrams, specifications, and selection of proper softener is included.—Culligan, Inc.

Circle No. A163 on reply card, p. 19

### Bathroom fixtures

**PLUMBING FIXTURES** for the bathroom, kitchen and washroom are colorfully illustrated in this 152-page loose-leaf book. All major products are described in detail in this big booklet.—Kohler Co.

Circle No. A164 on reply card, p. 19

**PLUMBING FIXTURES** of porcelain enamel illustrated in various styles and ensembles for all types of installations. Specifications and stock sizes listed for each.—Aetna Porcelain Enameling Co.

Circle No. A165 on reply card, p. 19

**PLUMBING FIXTURES** of all types are shown in booklet. Dimensions, details, and specifications for sinks, bathtubs, closets are included.—Universal-Rundle Corp.

Circle No. A166 on reply card, p. 19

**BATHTUBS, LAVATORIES,** closets are presented in series of illustrated pamphlets. Special features include duo-colored tubs and decor-matched vanities.—AllianceWare, Inc.

Circle No. A167 on reply card, p. 19

**PLUMBING FIXTURES** are thoroughly covered in 92-page catalog, with detailed illustrations. Shows packaged bathroom ensembles.—Gerber Plumbing Fixtures Corp.

Circle No. A168 on reply card, p. 19

## Kitchen sinks

**COMPLETE LINE** of stainless steel sinks and counter tops is covered in pocket-size brochure. Installation photos and what-to-look-for list are included.—Just Mfg. Co.

Circle No. A169 on reply card, p. 19

**STAINLESS STEEL SINKS** for installation anywhere in the house. Colorful brochure shows all models and designs—for powder room or garden, kitchen or den. Features of each plus sizes are listed.—Elkay Manufacturing Co.

Circle No. A170 on reply card, p. 19

**NEW SINK DESIGN** teams up with any electric waste disposer. Featured in literature covering stainless-steel kitchen installations. Includes detailed drawings, dimensions, how to order.—Carrollton Mfg. Co.

Circle No. A171 on reply card, p. 19

## Bath fittings, accessories

**HEAT CONTROL UNIT** that prevents shower scalding is explained in catalog sheet. Describes advantages of shut-off valve that won't deliver water above certain temperature.—Powers Regulator Co.

Circle No. A172 on reply card, p. 19

**METAL ACCESSORIES** for the bathroom are listed and specified in this brochure. Mounting brackets of all types are covered.—General Chrome.

Circle No. 173 on reply card, p. 19

**SINGLE-UNIT** shower valves and kitchen faucets with single mixing handles are described in two brochures. Include diagrams, sizes and prices.—Moen Faucet, Div. of Standard Screw Co.

Circle No. A174 on reply card, p. 19

**SHOWER HEADS** that automatically clean themselves are outlined in 11-page catalog. Flush valves in 63-page book. Covers every type of installation, with complete drawings.—Sloan Valve Co.

Circle No. A175 on reply card, p. 19

**BATHROOM ACCESSORIES** . . . you'll get a look at the whole new Hoover line in a 12-page, two-color booklet. Photos, details, sizes, etc.—Hoover Ball & Bearing Co.

Circle No. A176 on reply card, p. 19

**BATHROOM ACCESSORIES** of all kinds listed in this folder. Temperature and pressure relief valves, flexible gas connectors, chrome-plated brass fittings, others included.—Reed-Cromax Corp.

Circle No. A177 on reply card, p. 19

## Shower, tub enclosures

**METAL SHOWER CABINETS**, shower doors, and shower receptors are reviewed in catalog. All dimensions are listed, along with installation data.—W. F. Norman Sheet Metal Mfg. Co.

Circle No. A178 on reply card, p. 19

**TUB ENCLOSURES** and shower doors in many designs are shown in eight-page brochure. Full descriptions, specifications and illustrations are included. Also covers accessories.—Beauti-Dor, Inc.

Circle No. A179 on reply card, p. 19

## HEATING, COOLING AND VENTILATION

### Heating systems

**IN-WALL FURNACE** features and advantages are explained clearly in this six-page folder. Roughing-in dimensions and specifications are also given for builder use.—Motor Wheel Corp.

Circle No. A182 on reply card, p. 19

**GAS-FIRED FURNACES** in a complete range of sizes, both standard and lowboy types, are catalogued here. Literature on individually controlled room-heating units is also available.—Iron Fireman Mfg. Co.

Circle No. A183 on reply card, p. 19

**BOILERS, RADIATORS**, and accessories are subjects of 12-page catalog. Contains descriptions, specifications, and illustrations of factory assembled units.—Dunkirk Radiator Corp.

Circle No. A184 on reply card, p. 19

**BOILER** catalog sheets cover gas-fired and oil-fired units. Can also be used for small commercial buildings. Specifications and dimensions are included.—Fitzgibbons Boiler Co., Inc.

Circle No. A185 on reply card, p. 19

**OIL FURNACES**, designed specifically for living areas, are described in brochures. Photos illustrate "dream room" styling, new air control valve.—Perfection Industries.

Circle No. A186 on reply card, p. 19

**STEEL BOILER-BURNER** units are factory assembled, completely pre-wired and gas-fired. Two booklets explain advantages of package unit, give full specifications.—Spencer Heater, Lycoming Div.

Circle No. A187 on reply card, p. 19

**REGULATORS, VALVES**, gauges, fuel-tank accessories, are some of the products included in indexed loose-leaf catalog. Technical information, specifications, and illustrations appear

**SHOWER INSTALLATIONS**—featuring glass tub enclosures, shower doors, stall enclosures, corner tub enclosures—are described in brochures. Specifications complete in all styles, sizes.—Theodore Efron Mfg. Co.

Circle No. A180 on reply card, p. 19

## Laundry tubs

**LAUNDRY TUBS** shown in four-page brochure. Appliance-styled tub comes in two models. Specifications, model numbers, installation methods given.—E. L. Mustee & Sons, Inc.

Circle No. A181 on reply card, p. 19

in comprehensive book.—Selwyn-Pacific Company

Circle No. A188 on reply card, p. 19

**RADIANT PANEL HEATING** with steel pipe is discussed at length in 50 pages. Brochure is rich in both theory and practical installation data.—National Tube Div., U.S. Steel

Circle No. A189 on reply card, p. 19

**POWER GAS BURNER** is described in four pages. Brochure also offers information on installation, applications, adjustable operation, and servicing of the unit. Photos, drawings, other how-to information.—Barber Mfg. Co.

Circle No. A190 on reply card, p. 19

**FORCED WARM-AIR** furnaces for all types of residential applications are described and illustrated. Oil- and gas-fired units are covered, as well as conversion burner units. Technical data given in drawings, charts, specs.—Mayflower Air Conditioners, Inc.

Circle No. A191 on reply card, p. 19

**COMPLETE HEATING SYSTEMS**, including furnaces, baseboard convectors, and zone controls are described here. Also featured are water heaters and air-conditioning systems. Complete technical run-down on the subject.—Edwards Engineering Corp.

Circle No. A192 on reply card, p. 19

**HEATING UNITS**, air conditioners, water heaters . . . subject of this booklet. Illustrates complete line with specifications and drawings showing installation details on each.—Delco Appliance Div., GM.

Circle No. A193 on reply card, p. 19

**OIL BURNERS** are discussed in large, fact-packed, indexed catalog. It describes rotary, pressure, boiler and furnace burners. Installation plans and specifications given.—S. T. Johnson Co.

Circle No. A194 on reply card, p. 19

**RADIANT BASEBOARD HEATING** catalog has tab index for every section—radiant panel, residential baseboard, slope top fin tube. All descriptions include drawings, ratings, etc.—Kritzer Radiant Coils, Inc.

Circle No. A195 on reply card, p. 19

**PRECAST REGISTER** and plenum boxes for concrete slab floors is designed to reduce underfloor heat installation costs. How is shown in booklet with step-by-step photos.—Murphy Precast, Inc.

Circle No. A196 on reply card, p. 19

**OIL FURNACES** in a variety of models are covered in colorful brochures. Cutaway drawings and complete specifications are included. Also lists outstanding features.—Stewart-Warner Corp.

Circle No. A197 on reply card, p. 19

**ELECTRIC HEATING** for residential installation covered in 11-page booklet. Discusses advantages, choosing right method, installation, how to specify. Illustrated with cutaway drawings, charts, etc.—Edwin L. Wiegand Co.

Circle No. A198 on reply card, p. 19

#### **Combination heating, cooling systems**

**HEATING-COOLING UNITS** are described in complete detail in this new eight-page brochure. The 29 different models listed are designed for either gas or oil firing.—Mueller Climatrol Div., Worthington Corp.

Circle No. A199 on reply card, p. 19

**AIR CONDITIONING** is clearly explained in terms the home owner can understand in this booklet. Zone control and its application to both heating and cooling are covered.—National-U.S. Radiator Corp.

Circle No. A200 on reply card, p. 19

**HEATING, COOLING** and air conditioning products are shown in large, tabbed catalog. Discusses, with full technical details and drawings, central station and remote room air conditioning. All types of unit heaters and cooling coils are described.—Young Radiator Co.

Circle No. A201 on reply card, p. 19

**AIR CONDITIONING** and heating catalog shows gas and oil furnaces, remote and packaged air conditioning, wall and space heaters, etc. Includes specifications, dimensions.—The Coleman Co.

Circle No. A202 on reply card, p. 19

**COOLING** and heating systems for every type of home installation are described in brochures. Include combined and separate systems, split-system heat pumps, oil furnaces, etc.

Give drawings, specifications.—Chrysler Airtemp.

Circle No. A203 on reply card, p. 19

**HEATING AND COOLING** are subjects of large, well-bound, indexed catalog. Covers in technical detail, oil and gas winter air conditioners, gravity furnaces and boilers.—Janitrol Heating and Air Conditioning Div.

Circle No. A204 on reply card, p. 19

**FURNACES**, gas and oil, are covered in large loose-leaf catalog. Shows all types of water heaters, boosters, air conditioners. Lists baseboard heaters and radiators.—Rheem Mfg. Co.

Circle No. A205 on reply card, p. 19

**AIR CONDITIONING** for winter and summer is subject of brochure. Evaporator blowers, compressor evaporators, condensing units. Gives all specifications, drawings, complete data on each unit.—The Mathes Company.

Circle No. A206 on reply card, p. 19

**CONDENSING UNITS**, remote and air cooled, detailed in catalog with detachable pages. Also shows complete line of attic, wall and ceiling fans. Photos, cutaway drawings, sizes, specifications.—Bar-Brook Mfg. Co., Inc.

Circle No. A207 on reply card, p. 19

**HEATING, COOLING**, ventilation literature covers baseboard heating, packaged attic-type A/C units, remote condensing units, chillers, etc. Installation and structural details on all.—Brown Products Corp.

Circle No. A208 on reply card, p. 19

**GAS HEATING** and air conditioning portfolio has brochures covering boilers, furnaces, unit heaters, air conditioners, conversion burners. Complete specifications on brochure for each.—Roberts-Gordon Appliance Corporation.

Circle No. A209 on reply card, p. 19

**OIL AND GAS FURNACES**, oil burners, air conditioners, condensing units are covered in this very complete, looseleaf catalog. Contains ratings and specifications, diagrams, photos.—Williams Oil-O-Matic Heating Co.

Circle No. A210 on reply card, p. 19

**CONVECTORS**, baseboard heating are some of the heating and cooling products described in portfolio. Others include broilers, chillers and cooling towers. Water ratings, installation details, specifications.—Embassy Steel Products, Inc.

Circle No. A211 on reply card, p. 19

**GAS, OIL, COAL FURNACES**, summer air conditioning equipment are subjects of this loose-leaf catalog. All specifications, ratings, capacities, dimensions given.—Armstrong Furnace.

Circle No. A212 on reply card, p. 19

#### **Space heaters**

**ELECTRIC HEATING** units for every heating need are subject of four-page brochure. It illustrates wall and portable models, contains detailed charts of models, sizes and other useful technical information.—Allied Precision Industries, Inc.

Circle No. A213 on reply card, p. 19

**ELECTRIC HEATING PANELS** for wall mounting, a relatively new concept, are presented in this full-color manual. Designed for builder and home buyer, it contains both "sell" and technical data, a good combination.—Sun-Tron Corp.

Circle No. A214 on reply card, p. 19

**GAS HEATERS** with many applications are illustrated in this booklet. Descriptions and data are included for wall heaters, floor furnaces, and incinerators.—Martin Stamping & Stove Company.

Circle No. A215 on reply card, p. 19

**ELECTRIC HEATING** elements in wall inserts and portables illustrated in four-page folder. Also thermostats, radiant heating cables. Complete specifications, technical data, how-to information.—Everwarm, Inc.

Circle No. A216 on reply card, p. 19

**FIREPLACE SCREEN** of tempered glass that radiates heat throughout room is discussed in two brochures. Screen fits modern and conventional fireplaces.—Thermo-Rite Mfg. Co.

Circle No. A217 on reply card, p. 19

**ELECTRIC HEATERS** catalog describes wall insert heaters, baseboard, floor furnaces, bathroom heaters, radiant heating cable. Photos and specifications.—Cavalier Corp.

Circle No. A218 on reply card, p. 19

**ELECTRICAL HEATING** methods covered in portfolio. Brochures describe baseboard, wall, radiant, floor-insert, portable, bathroom heaters, etc. Drawings, specifications on all.—Electromode Div. Commercial Controls.

Circle No. A219 on reply card, p. 19

#### **Fans, louvers, ventilators**

**LOUVERS** and vents, both galvanized and aluminum in all shapes and sizes, are pictured and described in this notebook-punched single sheet.—Louv-r-Pak, Inc.

Circle No. A220 on reply card, p. 19

**AIR PURIFICATION** in the kitchen is the subject of this colorful, four-page folder. No-duct hood is easy to install, uses activated charcoal filter.—Major Industries, Inc.

Circle No. A221 on reply card, p. 19

**FORCED VENTILATION** of attic areas discussed in 3 folders. Eave-vent fans, with all-aluminum shutters, roof fans are described. Dimensions and price list.—Phil Rich Fan Mfg. Co.

Circle No. A222 on reply card, p. 19

**STRIP VENTILATOR** of aluminum is featured in new brochure. Variety of ventilating fans and range hoods is described in other literature.—Leigh Building Products.

Circle No. A223 on reply card, p. 19

**ROOF VENTILATORS** and wall louvres are described in this 16-page, two-color catalog. It's fully illustrated and includes complete technical details and drawings.—The Burt Manufacturing Co.

Circle No. A224 on reply card, p. 19

**FACT-PACKED**, technical catalog describes Auer's line of registers, grilles and diffusers. Illustrations are two-color. Price lists, performance data given.—The Auer Register Company.

Circle No. A225 on reply card, p. 19

**VENTILATORS** and range hoods brochures stress use of ventilator for electrically heated homes. Drawings give construction and installation data.—Stewart Industries, Inc.

Circle No. A226 on reply card, p. 19

**VENTILATING** and cooling equipment is fully described and pictured in attractive, easy-to-read catalog. Also shows available displays.—The Berns Air King Corp.

Circle No. A227 on reply card, p. 19

**VENTILATING LOUVERS**, in a variety of styles, are listed in attractive

catalog. Offers specifications, details, plus ventilation area chart.—Louver Mfg. & Supply Co.

Circle No. A228 on reply card, p. 19

**NEW VENTING METHOD** is outlined in a folder which complements an 18-page catalog of products used in ventilation of houses. Gives data on estimating venting requirements.—United States Gypsum Co.

Circle No. A229 on reply card, p. 19

**MIDGET VENTILATING LOUVERS** of all types and sizes are listed. Installation data is included, as well as information on special hole saw blades designed for the louvers.—The Midget Louver Co.

Circle No. A230 on reply card, p. 19

**OVERHEAD AIR DIFFUSER** that minimizes drafts, equalizes room temperatures is catalog subject. Diagrams and dimensions of product are included.—Connor Engineering Corp.

Circle No. A231 on reply card, p. 19

**FOUNDATION, CORNICE ventilators** are pictured in easy-to-read catalog. Six models are described on sheet which also gives specifications and shipping wts.—Hamlin Products, Inc.

Circle No. A232 on reply card, p. 19

### Heating controls

**AUTOMATIC CONTROLS** for virtually all residential and commercial heating and ventilating systems are described. Extensive catalog also specifies and prices the systems.—Minneapolis-Honeywell Regulator Co.

Circle No. A233 on reply card, p. 19

**FIELD SERVICE BULLETINS** cover description, operation, installation, and service of many types of gas controls. Bulletins are bound together and fully illustrated.—Robertshaw-Fulton Controls Company.

Circle No. A234 on reply card, p. 19

**AUTOMATIC CONTROLS** for a wide range of heating and cooling equipment are covered here. Both residential and commercial applications are included.—White-Rodgers Co.

Circle No. A235 on reply card, p. 19

**GAS AND WATER meters** pictured in series of 3 folders which are punched for binding. Sizes and installation methods are diagrammed.—Handley-Brown Co.

Circle No. A236 on reply card, p. 19

### Ductwork

**DUCT INSTALLATION** booklet gives basic instructions for fabrication of duct system. Designed for any type of warm air heating or air conditioning system.—Gustin-Bacon Mfg. Co.

Circle No. A237 on reply card, p. 19

### Fireplaces, chimneys

**PREFAB CHIMNEYS** are described in handy folder. Fact-filled, well-illustrated pages show builders how to save money in chimney construction.—Condensation Engineering Corp.

Circle No. A238 on reply card, p. 19

**FIREPLACES**, dampers, registers are discussed in illustrated brochure. Covers grates, mortar boxes, gas logs, screens, all accessories. Features construction details.—Superior Fireplace Company.

Circle No. A239 on reply card, p. 19

## ELECTRICAL, LIGHTING, WIRING

### Lighting design

**BUILT-IN LIGHTING** for schools, churches, hospitals, and business is shown in four illustrated brochures. Also available are data sheets on all products, with drawings.—Kirlin Co.

Circle No. A240 on reply card, p. 19

**HOME LIGHTING** is discussed in an illustrated catalog. Shows indoor and outdoor, floor, wall, table, ceiling lamps. Also a brochure on lighting for schools, stores, office buildings.—John C. Virden Co.

Circle No. A241 on reply card, p. 19

**LIGHTED CEILINGS** shown in this literature. Complete installation methods and specifications for whole ceil-

ings, panel, single-unit and residential, industrial, commercial uses are given. Plenty of facts to work with.—Luminous Ceilings, Inc.

Circle No. A242 on reply card, p. 19

**LIGHT CONTROL** equipment for control of sunlight and artificial lighting is described in bulletin. Detailed drawings and illustrations give complete installation data.—The Superior Electric Co.

Circle No. A243 on reply card, p. 19

### Light fixtures

**INCANDESCENT LIGHTS** are illustrated in 21-page catalog featuring chandeliers and modern ceiling fixtures. Supplement covers 15 pages of

fixtures in polished or antique brass.—Jay Lighting Mfg. Co., Inc.

Circle No. A244 on reply card, p. 19

**LIGHTING EQUIPMENT** is pictured and described in this fact-filled 56-page booklet. Contains many pictures and charts, gives detailed technical information on fixtures for residential, commercial use. Sizes, types, other details included.—The Wakefield Co.

Circle No. A245 on reply card, p. 19

**COMPLETE LINE** of recessed and surface lighting fixtures for commercial and residential use is illustrated in fact-packed catalog. Easy-to-read technical information is included in this interesting brochure.—Prescolite Mfg. Corp.

Circle No. A246 on reply card, p. 19



**GAS LAMPS** that provide decorative outdoor lighting touch are subject of handsome brochure. Distinctive models are shown in color in a wide variety of styles. Well-illustrated.—Arkla, Gaslite Div.

Circle No. A247 on reply card, p. 19

**LIGHTED CEILINGS** are subject of illustrated brochure. Installation points for luminous coves, canopy-overhang, soffit. Prefab units and wall-to-wall ceiling are described in detail.—Diffusa-Lite Co.

Circle No. A248 on reply card, p. 19

**LIGHTING FIXTURES** for low-budget installations are shown in full color in this 12-page catalog. A wide variety of indoor and outdoor lamps are pictured and described.—Minute Mount Co., Inc.

Circle No. A249 on reply card, p. 19

**LIGHTING FIXTURES** for outdoor use and all types of indoor installation are illustrated in full color and described here. Silhouette index in back is a handy guide to the 50 pages.—Progress Mfg. Co.

Circle No. A250 on reply card, p. 19

**ELECTRIC LANTERNS** for indoor or outdoor use are featured in full-color brochure. Other catalog sheets cover suspended interior fixtures in contemporary and period designs.—Dayna Lighting I. Co.

Circle No. A251 on reply card, p. 19

**Wiring devices**

**WIRING DEVICES** of all kinds are shown in thick electrical catalog. Switches, outlets, and lampholders are listed. Included is a complete specification and price list.—Pass & Seymour, Inc.

Circle No. A252 on reply card, p. 19

**UNDERFLOOR WIRING** systems for use with cellular steel floors are described here. Photos show how a system is set up. Included is a list of all accessories used.—H. K. Porter Co.

Circle No. A253 on reply card, p. 19

**WIRING GUIDE** lists complete stock of raceways, accessories and fittings. All items are illustrated with photos or drawings. Index is included in 144-page guide.—The Wiremold Co.

Circle No. A254 on reply card, p. 19

**Switches, outlets**

**LOW VOLTAGE** switching systems are the subject of this illustrated 16-page booklet. Tells how to plan, install, and trouble-shoot a touch-plate system.—Touch-Plate Mfg. Co.

Circle No. A255 on reply card, p. 19

**ELECTRICAL DISTRIBUTION** equipment, together with specification and rating data, is listed in 66-page catalog. Fuse panels, breakers, switches, and meter mounts are among subjects covered.—Murray Mfg. Corp.

Circle No. A256 on reply card, p. 19

**DECORATOR WALL PLATES** in colorful designs meet functional needs of any installation, harmonize with any decor. Folder shows how color schemes may be matched, and illustrates various plates.—General Electric Co.

Circle No. A257 on reply card, p. 19

**WALL PLATES** and complete line of wiring devices are featured in 145-page catalog. Includes price list and specifications for standard and custom receptacles. Packed with technical data, how-to information, plenty of other good details.—Sierra Electric Corp.

Circle No. A258 on reply card, p. 19

**FLOOR, WALL, CEILING MATERIAL**

**Wood flooring**

**HARDWOOD FLOORING** handbook discusses requisites of high quality flooring, describes processing, species, types, sizes. Further details include selection, laying, finishing.—National Oak Flooring Mfg. Assn.

Circle No. A262 on reply card, p. 19

**HARDWOOD FLOORING** pictured in a four-page, full-colorful brochure. Shows variety of styles and typical installations. Gives sizes and pattern suggestions.—Harris Mfg. Co.

Circle No. A263 on reply card, p. 19

**HARDWOOD FLOORS**—plank, strip, block, laminated oak—are illustrated in colorful booklet. Gives description, grades and species, finish, installation, other technical data for each type.—E. L. Bruce Co.

Circle No. A264 on reply card, p. 19

**Floor and wall tile**

**CERAMIC TILE** line is shown in full color in this large folder, punched for notebook filing. Trim shapes and all-tile accessories are also pictured.—The Mosaic Tile Co.

Circle No. A265 on reply card, p. 19

**VINYL FLOOR TILE** in multiple hues and patterns are illustrated in full color. Ten-page brochure includes information charts, characteristics and specifications for many types of floorings.—Uvalde Rock Asphalt Co.

Circle No. A266 on reply card, p. 19

**Electric specialties**

**NONELECTRIC DOOR CHIME** that sounds two notes, needs no wiring, and has optical lens viewer is catalog subject. Specifications and illustrations of exterior and interior installations.—NuTone, Inc.

Circle No. A259 on reply card, p. 19

**ELECTRICAL DEVICES** of every kind carefully detailed in catalog. Sixty pages of sockets, receptacles, cords and plugs. Also shows lamp converters, connectors, fluorescent lamp starters.—Cable Electric Products, Inc.

Circle No. A260 on reply card, p. 19

**GARAGE DOOR OPENERS** controlled by push-button transmitter is subject of this new four-page color folder. Both advantages and methods of operation are described. Lots of other interesting details and specifications.—Barber-Coleman Co.

Circle No. A261 on reply card, p. 19

**FLOOR COVERING** for 1960 from Congoleum. Illustrated in 108-page hardback catalog. Contents include plastics and linoleum by-the-yard, cork, tiles, vinyl, plastic Congowall. Full color, color schemes, suggested designs, other helpful flooring information.—Congoleum-Nairn, Inc.

Circle No. A267 on reply card, p. 19

**CERAMIC TILE** for decorating purposes is subject of colorful booklet. All requirements for installation of a variety of patterns are shown in detail. Includes color chart for mixing and matching, other decorating information.—Wenczel Tile Co.

Circle No. A268 on reply card, p. 19

**COLOR PLANNING** with ceramic tile and a product catalog are offered by American-Olean. Booklet 450 suggests color schemes, bathroom planning and design ideas.—American-Olean Tile Company.

Circle No. A269 on reply card, p. 19

**CERAMIC FLOOR** and wall tile catalog covers complete line for 1960. Both glazed and unglazed tile colorfully illustrated in large units and mosaics. Includes heavy-duty, pool tile.—U.S. Ceramic Tile Co.

Circle No. A270 on reply card, p. 19

**ADVANTAGES** and performance of vinyl-cork tile is subject of attractive brochure containing pattern and installation data. Application photos are included along with other how-to information.—Dodge Cork Co., Inc.

Circle No. A271 on reply card, p. 19

**TILE FLOORS** are illustrated in colorful 23-page catalog showing different patterns for seven types. Each is described according to use, cost, size.—Kentile, Inc.

Circle No. A272 on reply card, p. 19

**RESILIENT TILE** flooring is handsomely illustrated in this 20-page catalog. Vinyl, vinyl asbestos, asphalt, rubber tile presented in a variety of colors and styles.—B. F. Goodrich Co.

Circle No. A273 on reply card, p. 19

**CERAMIC TILE** products are completely covered in colorful 31-page booklet. Includes detailed drawings of all trim with size, color charts, all types of installations.—American Olean Tile Co.

Circle No. A274 on reply card, p. 19

**COLORFUL PATTERNS** of vinyl and rubber floorings are reproduced in eight-page catalog. Many custom designs in vinyl are also available.—American Biltrite Rubber Co.

Circle No. A275 on reply card, p. 19

**VINYL FLOORING** . . . its principal characteristics discussed in colorful booklet. Features classic marbles, Ultralast and Terralast colors, solid colors.—Vinyl Plastics, Inc.

Circle No. A276 on reply card, p. 19

### Wall coverings, paneling

**HARDBOARD PANELS** and the methods of using them in home building are discussed in this eight-pager. Forty-two applications are suggested with details on how to do it.—Silvatek Div., Weyerhaeuser Co.

Circle No. A277 on reply card, p. 19

**VINYL WALL COVERING** and upholstery are colorfully treated in an eight-page catalog. Includes a wide variety of patterns and color and texture charts.—B. F. Goodrich Co.

Circle No. A278 on reply card, p. 19

**PLASTIC-FINISHED PANELING** for walls and ceilings come in wide variety of colors and patterns. Booklet illustrates paneling, specifications, installation method, and aluminum mouldings chart.—Marsh Wall Products, Inc.

Circle No. A279 on reply card, p. 19

**MASONITE MANUAL** offers 28 pages with illustrated, detailed drawings of construction uses. Includes description of products, table of properties, sizes, and working directions as well.—Masonite Corp.

Circle No. A280 on reply card, p. 19

**HOW-TO-INSTALL** booklet on plywood paneling gives general applica-

tion instructions. Separate brochures describe hardboard, marine plywood, and prefinished paneling.—Harbor Plywood Corp.

Circle No. A281 on reply card, p. 19

**"FACES, FIGURES, FACTS"** is the name of a free 71-page, pocket-size booklet that's full of facts about plywood. Includes pictures and descriptions of grades, types and construction.—Hardwood Plywood Institute.

Circle No. A282 on reply card, p. 19

**VINYL WALL COVERING** for residential and commercial use is illustrated with samples. Brochures list technical data, properties, uses, and all types of applications.—The Masland Duraleather Co.

Circle No. A283 on reply card, p. 19

**HARDBOARD PORTFOLIO** includes brochure for each type of hardboard. Includes descriptions, drawings, physical properties, exterior and interior applications, nailing and finishing.—Forest Fiber Products Co.

Circle No. A284 on reply card, p. 19

**PHILIPPINE MAHOGANY** finishes, and how they are obtained, are described in this brochure. Excellent color photos show the many effects that can be obtained.—Philippine Mahogany Assn.

Circle No. A285 on reply card, p. 19

### Ceiling tile

**ACOUSTICAL CEILING TILE** that offers rated fire protection is discussed in booklet. Specifications and details are given for commercial use of material.—Armstrong Cork Co.

Circle No. A286 on reply card, p. 19

## MILLWORK AND CABINETS

### Kitchen planning and cabinets

**WOOD CABINET** specifications and standard unit details are clearly outlined in six-page folder. Companion brochure contains photos of installations, available color, kitchen ideas.—The Mengel Co.

Circle No. A292 on reply card, p. 19

**CUSTOM KITCHENS** in a variety of colors and finishes are shown in this "sketchbook." Handsome catalog includes do's and don'ts for kitchen planning.—The Kitchen Maid Corp.

Circle No. A293 on reply card, p. 19

**KITCHEN CABINETS** of all types, and in varied finishes, are described in colorful brochure. Suggested

**DIFFERENT WAYS** to put up suspended ceilings are described in a 12-page, fully-illustrated catalog. Technical drawings, detail cutaways, in-use photos.—The Burgess-Manning Company.

Circle No. A287 on reply card, p. 19

### Partitions

**FOLDING PARTITIONS** and moveable walls covered in 31-page, tabbed catalog. Cutaways show partition construction details. Installations and specifications given.—Richards-Wilcox Manufacturing Co.

Circle No. A288 on reply card, p. 19

### Plastic laminates

**LAMINATED SURFACINGS** for vertical and horizontal use are shown in 70 full-color illustrations. Uses in all types of buildings and comparative costs with other surfacings are presented in chart form.—General Electric Co.

Circle No. A289 on reply card, p. 19

**BUILDERS' GUIDE** to Formica surfacing is title of folder. Features 85 paper reproductions of color line. Information includes application, sizes. Gives a complete picture as to which type of Formica should be used.—Formica Corp.

Circle No. A290 on reply card, p. 19

**SOLID PLASTIC PANELS** in many wood grains, patterns and designs. Four-page brochure gives description and uses—furniture, wainscoting, countertops, etc.—Fiberesin Plastics Company.

Circle No. A291 on reply card, p. 19

kitchen layouts and complete planning service for builders are also listed.—The I-XL Furniture Co., Inc.

Circle No. A294 on reply card, p. 19

**HARDWOOD CABINETS** for storage purposes throughout the home are illustrated in colorful booklet. Features contemporary series designed for adjustable, custom look.—Mutschler Brothers Co.

Circle No. A295 on reply card, p. 19

**VARIETY OF KITCHENS** is described in 20-page booklet. Base and wall cabinets, dishwasher, built-in ovens and surface units are all illustrated.—Youngstown Kitchens.

Circle No. A296 on reply card, p. 19

**KITCHENS** in steel and wood are handsomely illustrated in brochure. Shows traditional, oriental, provincial, modern and other designs. Includes color chart for steel and wood finishes.—Toledo Desk and Fixture Company.

Circle No. A297 on reply card, p. 19

### Bathroom vanities and cabinets

**BATHROOM VANITIES** of all types and sizes are illustrated in this catalog, along with their dimensions and prices. A color section shows the laminates available as finishes. A good deal of information, plus some helpful decorating ideas.—Regal Laminates, Inc.

Circle No. A298 on reply card, p. 19

**MEDICINE CABINETS**, hampers, kitchen vent hoods . . . all covered in illustrated catalog. Cutaway draw-

ings, photos, spec sheets on models. Complete price list is given.—Jensen Industries.

Circle No. 299 on reply card, p. 19

**BATHROOM VANITIES** in a wide variety to meet every budget. Decorator-styled and surfaced with Formica. Fold-out brochure shows elevations, available colors, helps in decorating bath.—National Vanity.

Circle No. A300 on reply card, p. 19

**MEDICINE CABINETS**, lavatory mirrors and bathroom accessories are described in two brochures. Construction features and specifications are included along with illustrations and installation details.—F. H. Lawson Co.

Circle No. A301 on reply card, p. 19

**VANITIES**, designed with classic Grecian Formica patterns, offered in colorful folder. Six different stylings

are shown. Gives top widths and description of each style.—Glissade, Inc.

Circle No. A302 on reply card, p. 19

**MEDICINE CABINETS**, bathroom accessories, light fixtures catalog. Gives numerous styles for modern bathrooms. All items illustrated in detail with specifications for each.—The Grote Mfg. Co., Inc.

Circle No. A303 on reply card, p. 19

**RECESS MEDICINE CABINETS** are described in brochure which gives illustrations and sizes. Also covers such features as fluorescent lighting and sliding doors.—Zenith Metal Products Company.

Circle No. A304 on reply card, p. 19

**WARDROBE WALLS** are subject of looseleaf portfolio. Shows track installation and details panel construction. Offers complete descriptions and specifications.—Nordahl Mfg. Co.

Circle No. A305 on reply card, p. 19

## HARDWARE, BUILDING SPECIALTIES

### Window, door, cabinet and closet hardware

**FULL LINE** of door hardware is covered in illustrated catalog. Included are locks, latches, entrance handles, door closers, and cabinet hardware.—Dexter Industries, Inc.

Circle No. A306 on reply card, p. 19

**CONCEALED SASH BALANCE** story is told in four well-illustrated pages. Also included are tips on installation and construction details.—The Turner & Seymour Mfg. Co.

Circle No. A307 on reply card, p. 19

**CLOSET FRONTS** are completely assembled and braced, including jamb and header. Brochure gives specifications, illustrations for deluxe, flush, louvered models.—Precision Parts Corporation.

Circle No. A308 on reply card, p. 19

**GLIDING DOOR HARDWARE** is fully described in 23-page catalog. Specifications are given for all types of fittings for pocket and folding doors.—Kennatrack Corp.

Circle No. A309 on reply card, p. 19

**SCREEN DOOR** locksets and hardware presented, detailed, in series of pamphlets. Includes glass and aluminum door fittings, panic exit devices, push-pull latches, accessories.—The Yale Towne Mfg. Co.

Circle No. A310 on reply card, p. 19

**ALL-METAL TRIM** and casings for door jamb and window are illustrated

in brochures. Data includes specifications, materials, lengths, packing for various kinds of edges.—Drywall Trim, Div. of Casings, Inc.

Circle No. A311 on reply card, p. 19

**MAGNETIC LATCHES** are described in punched catalog sheet. Specifications and sizes given for complete line for both residential and heavy-duty purposes. Ordering data.—Laboratory Equipment Corp.

Circle No. A312 on reply card, p. 19

**DOOR HARDWARE** for all residential purposes are listed in 31-page catalog. Shows many designs of locks, decorative escutcheons, door accessories, closers, etc.—Russell & Erwin Div., American Hardware Corp.

Circle No. A313 on reply card, p. 19

**SASH BALANCES** and hardware products designed for wood and metal are described here. Brochure shows cutaway drawings for "take-out" window hardware.—Unique Window Balance Corp.

Circle No. A314 on reply card, p. 19

**18 CATALOGS IN ONE** . . . attractively bound in a hard cover looseleaf binder. You'll find hardware for sliding and folding doors, drawer slides, drapery, pocket frames and folding panels.—Grant Pulley & Hardware Corp.

Circle No. A315 on reply card, p. 19

**THE WHOLE STORY** on Acme's 1960 line of sliding door hardware. A new, fully-illustrated 12-page printed catalog. Photos, installation drawings,

sizes, specifications.—Acme Appliance Manufacturing Company.

Circle No. A316 on reply card, p. 19

**DRAWER AND CABINET** hardware covered in series of pamphlets. Roller bearings for drawers are described. Details construction of non-tilting drawers and revolving-shelf cabinets.—Junior-Pro Products Co.

Circle No. A317 on reply card, p. 19

**STEEL SHELVING** that can be assembled with screwdriver and pliers is subject of this folder. Package unit specifications and work diagram given.—C & H Air Conditioning Fan Co.

Circle No. A318 on reply card, p. 19

**FOLDING DOORS**, door hardware, closet and kitchen accessories are covered here. Catalog illustrates and describes products, gives specifications and prices.—Leigh Building Products

Circle No. A319 on reply card, p. 19

**GARAGE DOOR HARDWARE** for use on any standard door is fully detailed, with specifications and construction details. Tracks, hangers and hinges are illustrated in nine-page booklet.—Allith-Prouty, Inc.

Circle No. A320 on reply card, p. 19

**REVOLVING SHELVES** for kitchen cabinets are illustrated, along with installation hardware. Brochure gives detailed description and sizes of all parts, with ordering information.—Lake Drive Products Co., Inc.

Circle No. A321 on reply card, p. 19

**RESIDENTIAL DOOR OPERATOR**, the Moore-O-Matic, has its various features explained in a colorful folder. Construction and choice of fingertip controls are highlighted.—A. E. Moore Company.

Circle No. A322 on reply card, p. 19

**NYLON INSULATION HANGERS** and hanger supports are described fully. Fast-setting adhesive is also covered in folder punched for notebook filing. Facts, specs, technical details.—Goodloe E. Moore, Inc.

Circle No. A323 on reply card, p. 19

**SASH HARDWARE** catalog has fly sheets on complete line of operative window hardware and weatherstripping. Includes sketches, photos, charts, specifications, plenty of what-how drawings.—Grand Rapids Hardware Co.

Circle No. A324 on reply card, p. 19

### Locksets

**LOCKSET LINE** designed for residential installation is shown in full-color in this eight-page brochure. Miscellaneous items and installation aids are also included.—Kwikset Div., American Hardware Corp.

Circle No. A325 on reply card, p. 19

**ESCUTCHEONS, LOCKSETS**, and handles of many designs are pictured in this fact-filled manual. Assembly and principles of the different sets are explained.—Schlage Lock Co.

Circle No. A326 on reply card, p. 19

**LOCKSET CATALOG** covers complete line. Shows cylindrical, decorative, sliding door, screen and storm door hardware. Each item illustrated with specifications.—Lockwood Hardware Mfg. Co.

Circle No. A327 on reply card, p. 19

**LOCKSETS**, interior and exterior, described in 39-page catalog. Pictures and specifications given for spring latches, dead locks, dead bolts, escutcheons, accessories. How to select, styles, advertising aids.—Weiser Co.

Circle No. A328 on reply card, p. 19

**LOCKS, EXIT DEVICES**, closers are among subjects of condensed catalog. Features four lock lines, with chart showing functions and operation of each.—Sargent

Circle No. A329 on reply card, p. 19

**LOCKSETS, LATCHES**, reinforcing units covered in bound, looseleaf catalog. Describes standard and heavy-duty locksets, electric locks and decorative escutcheons. Locksmith supplies are detailed.—Challenger Lock Co.

Circle No. A330 on reply card, p. 19

**PRE-ASSEMBLED LOCKSETS** that install as one unit is subject here. Describes new and improved features in entrance and interior sets, escutcheons, and installation aids.—J. Chesler & Sons, Inc.

Circle No. A331 on reply card, p. 19

### Builders hardware

**BUILDERS HARDWARE** line ranges from double-acting floor hinges to door stops. All items are pictured and priced in this 16-page publication. How-to-use details included.—The Shelby Metal Products Co.

Circle No. A332 on reply card, p. 19

**BUILDING SUPPLIES** for all phases of home construction and finishing are contained in a 182-page wholesale catalog. Features pictures of the product, specifications, prices, and descriptions.—Morgan-Wightman Co.

Circle No. A333 on reply card, p. 19

**HARDWARE LINE** is presented in 15-page catalog. Contains illustrations of many products, along with detailed charts of sizes, descriptions of materials and finishes.—Amerock Corp.

Circle No. A334 on reply card, p. 19

**STEEL WIRE PRODUCTS** catalog comes complete with index. Covers fence wire, baling wire, nails, ornamental gates, screws, staples, etc.—Northwestern Steel & Wire Co.

Circle No. A335 on reply card, p. 19

### Nails, screws, fasteners

**BUILDING SPECIALTIES** in steel, ranging from wall anchors to roof ventilators, are shown in eight-page catalog. More than 35 specialties are illustrated, with details and specifications.—Cleveland Steel Specialty Co.

Circle No. A336 on reply card, p. 19

**FASTENERS** designed to join complicated wood assemblies are described in six-page catalog. Includes specifications, illustrations, and installation data on different types of fasteners.—Knappe and Vogt Mfg. Co.

Circle No. A337 on reply card, p. 19

**TIGHT-HOLDING NAILS** in many designs are discussed in leaflet. Nails for following uses are illustrated: floor underlay, drywall, redwood siding, flooring, masonry, and pallet.—Angell Nail & Chaplet Co.

Circle No. A338 on reply card, p. 19

**HANGING AND FASTENING** devices are subject of punched brochure. Photos and specifications given for toggle bolts, expansion screw and bolt anchors and straps. Includes illustrations, drawings of setting tools and drills.—The Paine Company.

Circle No. A339 on reply card, p. 19

**NAILS, SCREW ANCHORS**, and sliding clips are among fasteners which folder illustrates. Includes specifications and suggested uses.—E. G. Building Fasteners Corp.

Circle No. A340 on reply card, p. 19

**CONCRETE ANCHORING**, by drill or drive, holds permanently. Anchors are set by air, electric or hand hammers. Described in catalog which is holed for all types of loose-leaf binders.—Polis Mfg. Co.

Circle No. A341 on reply card, p. 19

**ALUMINUM NAILS** are covered in colorful folder. Two-page chart illustrates 24 types of nails and uses of each. Gives packing data chart.—Nichols Wire & Aluminum Co.

Circle No. A342 on reply card, p. 19

**ANCHORING AND DRILLING** devices are shown in 40-page pocket-sized catalog. Index includes log and wood screw anchors, machine screw and bolt anchors, machine bolt expansion shields, nail anchors, etc.—Arro Expansion Bolt Co.

Circle No. A343 on reply card, p. 19

### Stairways, railings

**ALUMINUM RAILINGS** and porch columns are the subject of illustrated folder. The inside spread is devoted to information on how to install both items.—Keystone Alloys Co.

Circle No. A344 on reply card, p. 19

**HAND RAIL BRACKETS** and railings are described in folder. Detailed drawings show construction and installation. Also shows some of the many railing sections available.—Michel & Pfeffer Iron Works, Inc.

Circle No. A345 on reply card, p. 19

**DISAPPEARING STAIRWAYS** are illustrated in this four-page booklet. Stairway is one-piece construction, comes in seven models. Also separate specification and price list.—Bessler Disappearing Stairway Co.

Circle No. A346 on reply card, p. 19

### Swimming pools

**SWIMMING POOL** equipment is itemized in 24-page catalog. Includes chemicals, heaters, footbaths, filter accessories, lighting, safety equipment.—National Pool Equipment Co.

Circle No. A347 on reply card, p. 19

**SWIMMING POOL BOOK** has 47 pages of information for pool owners, builders, architects, engineers. Illustrates every type of equipment with photos, drawings, specifications.—Modern Swimming Pool Co., Inc.

Circle No. A348 on reply card, p. 19

**AMCRETE POOL** story is told at length in 12-page booklet. Describes and illustrates techniques, improved design and low-cost construction.—Amercrete Corp.

Circle No. A349 on reply card, p. 19

## Building specialties

**STEEL PRODUCTS** . . . ranging from farm gates to steel clothesline posts. It's a 14-page catalog full of drawings and descriptive data. Plenty of useful information for any builder.—Baumgartner Gate Factory.

Circle No. A350 on reply card, p. 19

## APPLIANCES

### Ranges and ovens

**BUILT-IN ELECTRIC** range and oven to fit every need is described in four-page brochure. It lists standard and optional features, gives specifications on four models.—National Stove.

Circle No. A356 on reply card, p. 19

**A NEW LINE** of kitchen built-ins will be found in Chambers' four-page, color folder. Models are fully described and illustrated. Specifications, installation details included.—Chambers Built-Ins.

Circle No. A357 on reply card, p. 19

**BUILT-IN RANGES** electric and gas, are illustrated in every detail with drawings. Contains features of all models, arrangements and sizes. Includes ordering information.—Samuel Stamping and Enameling Co.

Circle No. A358 on reply card, p. 19

**BUILT-IN RANGES** and free-standing models with the built-in look are subject here. Includes wattage and dimensions for each model.—Monarch Range Co.

Circle No. A359 on reply card, p. 19

**BUILT-IN OVEN** and surface unit brochure gives specification charts on all sizes and models. Shows adaptations to modern home designs. Also line of built-in refrigerators.—Gray & Dudley Co.

Circle No. A360 on reply card, p. 19

**A SERIES** of three-page, four-color folders complete with loose-leaf holes describes Caloric's new line of gas ranges. The folders give full technical as well as descriptive details.—Caloric Appliance Corp.

Circle No. A361 on reply card, p. 19

**BUILT-IN RANGE** combinations and arrangements described in brochure.

**BUILDING SPECIALTIES** are subject of 66-page catalog. Line includes metal weatherstripping, cabinet hardware, caulking compounds, and reflective house numbers.—Macklanburg-Duncan Company.

Circle No. A351 on reply card, p. 19

**DINING NOOKS** that are wall-hung are shown in four-color folder. Information on the snap-on installation system and ordering of the stock parts is included.—The Dormalux Co.

Circle No. A352 on reply card, p. 19

**AUTOMATIC DUMB WAITER** for home and industrial installations is

Complete specifications, special features of each unit fully described.—Norge Sales Corp.

Circle No. A362 on reply card, p. 19

**CHARCOAL RANGE** for barbecue inside home is described in a group of 5 folders. Comes in variety of models, uses charcoal or gas. Photo, diagrams and prices included along with other details.—Hasty-Bake.

Circle No. A363 on reply card, p. 19

**COMPLETE REPORT**, 18 pages long, gives the entire picture of Dixie's line of gas ranges. Tells a lot about accessories, too. Illustrations are all four-color.—Dixie Products, Inc.

Circle No. A364 on reply card, p. 19

**AUTOMATIC GAS RANGES** are given complete coverage in 24-page booklet. Photos show sectional details, thermal eye, flame-set control, smoke-proof broiler, many other features.—Hardwick Stove Co.

Circle No. A365 on reply card, p. 19

**BARBECUES**, both indoor and outdoor, pictured in brochure. Sample, detailed installations are given. Describes "Firebird" circulating fireplaces. Price list.—State Steel Industries, Inc.

Circle No. A366 on reply card, p. 19

**KITCHENS**, all-gas or all-electric, described in 20-page booklet. Complete line of ranges, ovens, ice-cube makers, refrigerator-freezers and dishwashers. Installation drawings, sizes, photos.—Whirlpool Corp.

Circle No. A367 on reply card, p. 19

**BUILT-IN ELECTRIC OVEN** is described and illustrated in attractive brochure. Also covers in detail most of the other ranges in the line.—Thermador Electrical Mfg. Co.

Circle No. A368 on reply card, p. 19

described in brochure. Specifications include shaftway area, car size, load, controls.—Flinchbaugh-Murray Corp.

Circle No. A353 on reply card, p. 19

**WIRE PRODUCTS** for the home—peg-board fixtures, grilles, beverage carriers are shown in brochure. Items are finished in a variety of metals.—Sommer Metalcraft Corp.

Circle No. A354 on reply card, p. 19

**FOLDING TABLES**, steel drawers are fully covered in brochures. Shows folding wall tables, droptop folding counters, bases, etc. Lists sizes and prices.—Sturdilite Products, Inc.

Circle No. A355 on reply card, p. 19

**GAS RANGES** with variety of ovens, burners, control panels, and rotisseries are color-illustrated. Brochure also contains specifications and details.—The Tappan Co.

Circle No. A369 on reply card, p. 19

### Washers and dryers

**DISHWASHERS**, both portable and built-in, are covered in this fact-filled brochure. Performance-proved features are described, and illustrated in color.—The Hobart Mfg. Co.

Circle No. A370 on reply card, p. 19

**ELECTRICAL APPLIANCES** catalog describes dishwashers, air conditioners, refrigerators, freezers, water heaters, ranges, etc.—Major Appliance Div., General Electric.

Circle No. A371 on reply card, p. 19

### Refrigerators, freezers

**ICE-MAKING MACHINES** are fully illustrated in 49-page catalog. Shows cubers, flakers, dispensers, crushers, bins. Gives specifications on all models. Installation details, other technical information.—Scotsman Ice Machines.

Circle No. A372 on reply card, p. 19

**TWO-ZONE FREEZERS** are illustrated in four colorful brochures. New square styling, greater storage is emphasized. Includes drawings and charts for upright and chest models. Plenty of how-two-use-it information.—Manitowoc Equipment Works.

Circle No. A373 on reply card, p. 19

**BUILT-IN REFRIGERATORS** and freezers with choice of arrangement, capacity, and finish are illustrated in two brochures. Includes photos, drawings of each model, size and spec information.—Revco, Inc.

Circle No. A374 on reply card, p. 19

## Efficiency units

**EFFICIENCY KITCHENS**, gas and electric, are described here. Brochure illustrates models, arrangements and sizes.—Acme-National Sales Co.

Circle No. A375 on reply card, p. 19

**ALL-IN-ONE** kitchen center literature shows five types of efficiency units. Each component contains stove, sink, refrigerator. Complete specifications.—King Refrigerator Corp.

Circle No. A376 on reply card, p. 19

**CAN OPENER** unit of many uses shown in this series of pamphlets. Unit holds can opener, ice crusher, juicer, etc. Retail price list available.—Kitcheneer Co. of America.

Circle No. A377 on reply card, p. 19

## Incinerators

**GAS-FIRED INCINERATORS**, smokeless and odorless, appear with construction details and specifications in illustrated pamphlets. Both list features.—Locke Stove Co.

Circle No. A378 on reply card, p. 19

**INCINERATORS** for all types of buildings are illustrated in eight-page booklet which gives capacities and dimensions of units. Comprehensive selection guide.—Brule Incinerators.

Circle No. A379 on reply card, p. 19

## Disposers

**GARBAGE DISPOSERS** for home and commercial use are illustrated in this 12-page brochure. Detailed construction and specifications of models are shown.—In-Sink-Erator Mfg. Co.

Circle No. A380 on reply card, p. 19

**FOOD-WASTE DISPOSERS** described in series of single-leaf folders. Exploded drawings show assembly; and accessories are listed. "Instant" hot water dispenser is also offered.—National Rubber Machinery Co.

Circle No. A381 on reply card, p. 19

## Range hoods

**COLOR ILLUSTRATED** 12-page catalog shows many types, models of copper and stainless-steel kitchen vent hoods. Contains technical details, installation diagrams.—Trade-Wind Div., Robbins & Myers, Inc.

Circle No. A382 on reply card, p. 19

**DUCTLESS HOOD** that utilizes activated charcoal is discussed here. Brochures illustrate various styles for top burners and ovens, also an air purifier.—Ductless Hood Co., Inc.

Circle No. A383 on reply card, p. 19

## Intercoms, radio, stereo

**RADIO-INTERCOM** systems for the home. Four-color brochure covers complete Rangaire line of wall-mounted units. Describes master stations, room and door stations.—Roberts Mfg. Co.

Circle No. A384 on reply card, p. 19

**BUILT-IN RADIOS** and combination radio-intercom systems are pictured

## PAINTS, FINISHES, ADHESIVES, WATERPROOFING

### Paints, finishes and coatings

**FULL SPECIFICATIONS** for paints, varnishes, enamels is offered in this 24-page catalog. A calibrated color-planning chart is also included as a bonus feature.—Pratt & Lambert, Inc.

Circle No. A387 on reply card, p. 19

**PAINT PRODUCTS MANUAL** describes complete line of paints and varnishes. Gives technical information on how to prepare surfaces, how to get best results.—The Valspar Corp.

Circle No. A388 on reply card, p. 19

**EXTERIOR WALL** resurfacing is the purpose of spray-on coating described in this catalog. Before-and-after illustrations of typical jobs are used.—Re-Nu-It Corp.

Circle No. A389 on reply card, p. 19

**SAMPLE COLOR SQUARES** are featured in a complete paint specifications catalog. Exterior and interior primers and finishes are described.—Barreled Sunlight Paint Co.

Circle No. A390 on reply card, p. 19

**PAINTS AND STAINS** are covered completely in large looseleaf catalog. Describes house and trim paints, shingle stains and waxes. Color samples, application suggestions included.—Samuel Cabot Inc.

Circle No. A391 on reply card, p. 19

**VINYL PLASTIC PAINT** in 24 ready-mix colors illustrated in brochures. Other brochures show cement colors, "Dust-On," mortar and plaster colors.—Tamms Industries.

Circle No. A392 on reply card, p. 19

**PAINTS, VARNISHES, LACQUERS** listed in Suggested retail price List. Includes aluminum paints, barn, interior paints, enamels, etc.—American Varnish Co.

Circle No. A393 on reply card, p. 19

### Paint removers

**PAINT REMOVERS**, enamel and varnish removers, paint brush cleaners are some of the subjects in four-page folder. Price lists. Savogran Co.

Circle No. A394 on reply card, p. 19

and described here. Brochure covers all phases of home communications and music distribution.—Flush Wall Radio Co.

Circle No. A385 on reply card, p. 19

**THREE-WAY STEREO** is one of many subjects covered in series of colorful brochures. Color TV, air conditioners, refrigerator-freezers are described. Portable, table and clock radios are offered.—Admiral Corp.

Circle No. A386 on reply card, p. 19

### Wood preservatives

**WOOD PRESERVATIVE**, with its applications and specifications, is described in this brochure. Advantages of product are discussed. Treating plants are also listed.—Monsanto Chemical Company.

Circle No. A395 on reply card, p. 19

### Waterproofing, concrete sealers and colorants

**WATERPROOFINGS**, dampproofings, and protective products are subject of comprehensive catalog. Includes specifications of products and illustrations of buildings where they've been used.—Minwax Co.

Circle No. A396 on reply card, p. 19

**PUTTIES, GLAZING** and caulking preparations are itemized in 26-page catalog. Describes uses, applications for all types building materials.—Dicks-Armstrong-Pontius, Inc.

Circle No. A397 on reply card, p. 19

**WATERPROOFING** for concrete masonry presented in this series of brochures. Wall sealers, hardening compound for new concrete floors, glazing are also covered.—Truscon Laboratories.

Circle No. A398 on reply card, p. 19

**COLORING MASONRY** and stucco, as a business, is described in catalogs and leaflets. Covers wall finishing machine in detail, gives series of illustrations.—Colorcrete Industries, Inc.

Circle No. A399 on reply card, p. 19

**WATERPROOFING** concrete, brick, tile, stone, stucco is subject of 19-page catalog. Gives complete list of corrective and protective products, specifying use of each.—Standard Dry Wall Products, Inc.

Circle No. A400 on reply card, p. 19

**CAULKING PRODUCTS** are subject of seven-page booklet. Includes water repellents, masonry sealers, asphaltic sealers, etc. Discusses purposes, descriptions, applications. Illustrated with photos, drawings.—Pecora, Inc.

Circle No. A401 on reply card, p. 19

**CONCRETE STAINS** for permanence shown in colorful folder. Describes uses for patios, walks, porches, lanais and pool decks. Application methods for asphalt areas given. Color card included.—Rohloff & Co

Circle No. A402 on reply card, p. 19

### Bonding agents

**FOR JOINING, SETTING**, and repair of masonry, tile, etc. Bonding agent is described in brochure. Lists physical properties and applications.—Permagile Corp. of America.

Circle No. A403 on reply card, p. 19

**BONDING AGENTS** brochure covers bonding of concrete, plaster and tile. Describes characteristics of each and gives project specifications.—Larsen Products Corp., Inc.

Circle No. A404 on reply card, p. 19

## TOOLS AND EQUIPMENT

### Tools

**CONCRETE VIBRATORS** and grinders, trowels and screeds are among the complete line of products pictured here. How-to-do-it photos, specifications.—Stow Manufacturing Co.

Circle No. A411 on reply card, p. 19

**POWER TOOLS**, their attachments and accessories, are described and priced in this fat 88-page catalog. Illustrations.—Delta Power Tool Div.

Circle No. A412 on reply card, p. 19

**METAL WORKING TOOLS** are shown in this catalog. It covers the new rod cutter series and bending brakes.—Whitney Metal Tool Co

Circle No. A413 on reply card, p. 19

**POWER TOOL LINE** consisting of 174 models of 13 different types is featured in 52-page catalog. Shaper cutters to jointers.—Boice-Crane Co.

Circle No. A414 on reply card, p. 19

**POWER EQUIPMENT** for masonry and concrete work is discussed in four different folders. Products covered include pin-pullers, trowels, saws, and blades.—Champion Mfg. Co.

Circle No. A415 on reply card, p. 19

**POWDER-ACTUATED** tools and fastenings of tempered steel are subject of 12-page brochure. It covers complete line, applications and other fastening data.—Ramset Fastening System

Circle No. A416 on reply card, p. 19

**POWDER-ACTUATED TOOLS** that have many applications are described and illustrated in four-page brochure. Second brochure gives details on stud

**ADHESIVES FOR WALLS**, floors, laminates listed in four-page brochure. Chart gives methods of application and properties, including color, freeze resistance.—Hachmeister, Inc.

Circle No. A405 on reply card, p. 19

**"CONSTRUCTION BY ADHESION"** is one title in series of booklets covering anchoring and application methods. Includes ideas for adhering insulation, tile, sealers, coatings.—Miracle Adhesives Corp.

Circle No. A406 on reply card, p. 19

**FLOOR AND ROOF** maintenance for industrial buildings presented in this folder full of brochures. Complete data given on new floors, repairs on worn or cracked floors. Roof coatings, paints, varnishes, enamels.—Monroe Company.

Circle No. A407 on reply card, p. 19

**COATING** that protects aluminum from paint and plaster during construction. Described in a brochure listing uses, applications and prices.—Protectub, Inc.

Circle No. A408 on reply card, p. 19

**BONDING PLASTER** folder covers restoring old walls, finishing new dry walls, as well as use as a plaster base.—Nu-Wall Mfg. Co.

Circle No. A409 on reply card, p. 19

### Termite controls

**TERMITE CONTROL** through chemical pretreatment of soil is explained in four-page folder. Discusses termite damage and method of prevention.—Velsicol Chemical Corp.

Circle No. A410 on reply card, p. 19

welding, includes table of test strengths.—Omark Industries, Inc.

Circle No. A417 on reply card, p. 19

**SAW GRINDERS** and gummers, hand-saw retouchers and automatic power setters are among subject of five pamphlets. All offer specifications, illustrations.—Foley Mfg. Co.

Circle No. A418 on reply card, p. 19

**POWER TOOLS**, precision made, are listed together with their prices in leaflet. Saws, sheet-metal shears, and foam-rubber saws are among tools included.—Krieg, Inc.

Circle No. A419 on reply card, p. 19

**VIBRATORY COMPACTOR** has 3,500-lb. blow, can handle compacting of soil, sand, gravel, rock, or asphalt. Product details, models, specifications, and illustrations shown in leaflet.—Master Vibrator Co.

Circle No. A420 on reply card, p. 19

**PORTABLE POWER TOOLS** designed for builder use are featured in this illustrated catalog. Information on all accessories and full price data is also included.—Milwaukee Electric Tool Corporation.

Circle No. A421 on reply card, p. 19

**POWER TOOL** specifications, uses and advantages of extensive line, are given in well-illustrated catalog. Lists all accessories, technical data.—Skil Corp.

Circle No. A422 on reply card, p. 19

**ADVANTAGES** of heavy-duty vise are covered in concise folder. Illustrations show the vise in a wide variety of uses.—The Will-Burt Co.

Circle No. A423 on reply card, p. 19

**HAND TOOLS** designed for wood-working and their functions are described. Other specialty items such as earth augers are included in this well-illustrated publication.—Greenlee Tool Company.

Circle No. A424 on reply card, p. 19

**GASOLINE CHAIN SAWS**, subject of folder, are fully covered. Material describes a light machine and a heavier profession model. Also gives tips on how they can be used most profitably.—Pioneer Saws

Circle No. A425 on reply card, p. 19

**GLAZIERS' TOOLS** . . . pictured and described in large catalog. Covers glass cutters, putty knives, points. Also offers wood, paint, glass and wall scrapers, paint conditioners. Prices given.—Red Devil Tools

Circle No. A426 on reply card, p. 19

**PORTABLE ELECTRIC TOOLS** are subject of 11-page catalog. Power saws, jig saws, sanders, drills, accessories are all covered with illustrations and specifications for each model.—Cummins Portable Electric Tools.

Circle No. A427 on reply card, p. 19

**CUSTOM CUTTER** folder illustrates trimming jobs of tool. Back page describes features and advantages of hinge mortiser, tells what it can do.—Dosch Manufacturing Co

Circle No. A428 on reply card, p. 19

**ELECTRONIC SOLDERING** gun that comes in six different models shown in series of folders. Sanders, sander-polishers, power saws and accessories. Specifications, how-to-use-it drawings.—Wen Products, Inc.

Circle No. A429 on reply card, p. 19

**TROWEL TOOLS** for almost every job in the trade are listed in this 70-page catalog with index. Includes specifications and prices of almost 300 items.—Goldblatt Tool Co.

Circle No. A430 on reply card, p. 19

**A NEW 10-IN. BENCH SAW** and other Atlas saws are described in a series of bulletins. Illustrated in two colors. Full descriptions of each machine, what it is, how it operates.—Atlas Press Co.

Circle No. A431 on reply card, p. 19

**SPRING TACKERS** for every construction job described in a portfolio of brochures. Includes stapling hammers, radiant heat tackers, etc. Also instructions for installing insulation and ceiling tile.—Bostitch.

Circle No. A432 on reply card, p. 19

**ELECTRIC TOOLS** are listed in comprehensive 72-page catalog. Contents include portable electric saws, routers, laminate trimmers, jig-saws, etc.—Black and Decker Mfg. Co.

Circle No. A433 on reply card, p. 19

**CONCRETE VIBRATORS** of all types, for paving, flat slabs, beams, heavy structures, finishing are described in a series of brochures. Generators and compactors included. — Maginniss Power Tool Co.

Circle No. A434 on reply card, p. 19

**POWER TOOLS**, kitchen appliances, described in separate brochures. Every item from power drills to percolators illustrated with full description and price of each.—Dormeyer.

Circle No. A435 on reply card, p. 19

**ELECTRIC TOOLS** of all types outlined in 30-page, punched booklet. Routers, power planes, sabre saws and drills are included. Packed with details, complete specifications, price list.—Stanley Electric Tools.

Circle No. A436 on reply card, p. 19

**POWER TOOLS** catalog has 17 pages of illustrations. Shows motors, 1/4" drill, 1/2" drill, sabre saw, power saws, electric trimmer and saw blades with specifications for each.—American-Lincoln Corp.

Circle No. A437 on reply card, p. 19

**SAWS, RULES**, power and hand tools are completely itemized in 24-page catalog with index. Each tool is described in detail, listing all sizes and functions.—H. K. Porter Co., Inc.

Circle No. A438 on reply card, p. 19

**ELECTRIC SAW** that cuts flush in any position is subject here. Four-page brochure covers various models, parts, large selection of blades.—R. C. S. Tool Corp.

Circle No. A439 on reply card, p. 19

**HIGH-SPEED END CUTTERS**, designed to make ends meet perfectly, are illustrated in brochures. General specifications for all models.—The Footatuck Corp.

Circle No. A440 on reply card, p. 19

### Portable generators, heaters

**PORTABLE PUMPS**, portable space heaters, and power rolling equipment are among items listed here. Features of all items are described. Includes photos.—Midland Products Co.

Circle No. A441 on reply card, p. 19

**ELECTRIC PLANTS**, gasoline or diesel-powered, described in eight-page booklet. Shows both types with either water or air cooling. Complete specifications of each model, optional accessories.—D. W. Onan & Sons, Inc.

Circle No. A442 on reply card, p. 19

**GENERATING PLANTS** are given complete coverage in portfolio containing catalog and brochures. Includes photos, details, and list prices.—Pioneer Gen-E-Motor Corp.

Circle No. A443 on reply card, p. 19

### Concrete forming equipment

**CONCRETE FORMS** for both standard and special applications are described in a 12-page booklet. All allied accessories.—Economy Forms Corp.

Circle No. A444 on reply card, p. 19

**CONCRETE FORMS** and methods of operation are subject of fully illustrated brochure. Also available: a companion field manual.—Irvington Form & Tank Corp.

Circle No. A445 on reply card, p. 19

**FORMS, TIES, AND CLAMPS** for use on concrete construction jobs are covered in this 56-page catalog. Lots of technical data. In-use photographs of the products are shown.—Universal Form Clamp Co.

Circle No. A446 on reply card, p. 19

**CONCRETE FORMS** and systems are covered in well-illustrated brochures. Systems are designed for light commercial and residential forming.—Simplex Forms Systems, Inc.

Circle No. A447 on reply card, p. 19

**CONCRETE FORMING** systems using steel-ply forms are covered in this manual. Data on the full line of products and accessories is also included.—Symons Clamp & Mfg. Co.

Circle No. A448 on reply card, p. 19

**WANT TO KNOW** about reusable, inflatable void forms for precast concrete, drains and sewer pipes? Here's a fine technical 12-page catalog. Illustrated with cutaway drawings.—Elgord Concrete Forms Corp.

Circle No. A449 on reply card, p. 19

### Scaffolding, materials handling equipment

**SELF-CONTAINED** hoist units that can lift 1,500 lbs. at 100-125 ft. per second are covered in brochure. Heights of basic units are 22 and 24 feet.—Tubular Structures Corp. of America

Circle No. A450 on reply card, p. 19

**POWER HOISTS** and lightweight beams are described in illustrated folder. Accessories ranging from a snatch block to a hoisting platform are also pictured.—Smith Hoist Mfg. Co.

Circle No. A451 on reply card, p. 19

**FUEL TANKS** and LP-gas plants described in this brochure are profusely illustrated. Data on construction and performance included.—Buehler Tank & Welding Works

Circle No. A452 on reply card, p. 19

**POLYETHYLENE COVERS** for furniture, storage bags, outdoor construction and building materials, kitchen uses are discussed in leaflets. Include storm windows and doors, give sheet sizes.—Warp Bros.

Circle No. A453 on reply card, p. 19

**DERRICKS, HOISTS** and winches are described here. Catalog covers gas, electric and hand-powered models. Information includes charts, drawings, specifications.—Sasgen Derrick Co.

Circle No. A454 on reply card, p. 19

**SCAFFOLDING** catalog has 23 pages of illustrations, drawings, specifications. Includes parts list and assembly methods. Shows end frames, braces, casters.—Bil-Jax, Inc.

Circle No. A455 on reply card, p. 19

**TAPE MEASURES** in lengths up to 100' are subject of this brochure. Presents folding rules, plumb lines, push-pull, cloth, masonry and power tapes. Price list.—Evans Rule Co.

Circle No. A456 on reply card, p. 19

**LADDERS, SCAFFOLDING** and equipment are covered in 30-page catalog. Describes more than 150 items for contractor. Includes drawings.—Newark Ladder & Bracket Co.

Circle No. A457 on reply card, p. 19

**STEEL SUPPORT DEVICE** and floor leveling item is designed for warping stairs, sagging floors, among other uses. Brochure gives complete description.—Perma-Jack Corp.

Circle No. A458 on reply card, p. 19

**FUEL LANTERNS** with red, clear, amber, blue or green bulbs are described and illustrated in this brochure. Additional literature on battery-powered spotlights & flashers, highway flares.—R. E. Dietz Co.

Circle No. A459 on reply card, p. 19



**A complete listing (with name and full address) of all manufacturers in the building products and equipment field. You'll find every firm mentioned in the yellow pages is included here, and on the next 17 pages.**

## 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** PO Box 1036 Aberdeen Wash
- Abesto Mfg Co** 131 Wabash St Michigan City Ind
- Abitibi Corp** 956 Penobscot Bldg Detroit 26 Mich
- Abrasive Products Inc** South Braintree Mass
- 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 Carlsstadt 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
- Adams Engineering Co** PO Box 875 Ojus Fla
- Adams Rite Mfg Co** 540 Chevy Chase Glendale 4 Cal
- Adams & Westlake Co** Safford St Elkhart Ind
- Adjusta Post Mfg Co** 908 S Clair & Bowery Akron 7 Ohio
- Admiral Corp** 3800 W Cortland Chicago 47 Ill
- Ador Corp** 2345 W Commonwealth Fullerton Cal
- Aermotor Co** 2500 W Roosevelt Chicago 8 Ill
- Aeronca Mfg Co** Metal Products Div Mid-dletown Ohio
- Aeroshade Co** 433 Oakland Ave Waukesha Wisc
- Aetna Plywood & Veneer Co** 1227 W Bruce St Milwaukee 4 Wisc
- Aetna Steel Prods Corp** 730 Fifth Ave New York 19 NY
- Afco Corp** Box 5085 Lee & Roy Alexandria La
- Air Control Products Inc** 0-16411 64th Coopersville Mich
- 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 Martetta 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 Building Bracket Co** 1551 Rydal Mountain Rd Cleveland Heights Ohio
- 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** Penco Div Oaks Pa
- Albertson & Co Inc** 27 & Lowell Sts Sioux City 2 Iowa
- 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
- All-Metal Weatherstrip Co** 1911 Ridge Ave Evanston Ill
- All Weather Jalousies Inc** State Highway 46 Teterboro NJ
- Allegheny Ludlum Steel Co** Oliver Bldg Pittsburgh 22 Pa
- Alliance Mfg Co Inc** Alliance Ohio
- Allianceware Inc** Box 809 Alliance Ohio
- Allied Chemical Corp** Barrett Div 40 Rector St New York 6 NY
- Allied Compositions Co Inc** 56-25 Flushing Ave Maspeth 78 NY
- 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
- Alisco Inc** 225 S Forge Box 270 Akron 8 Ohio
- Alside Inc** 1415 Waterloo Rd Akron Ohio
- Alsto Co** 4007 Detroit Ave Cleveland Ohio
- Alsynite Co of America** 4654 DeSoto St San Diego 9 Cal
- Alumatic Corp of America** 2081 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 Coit 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 Biltrite Rubber Co** Perrine Ave Trenton 2 NJ
- American Bitumuls & Asphalt Co** 320 Market St San Francisco 20 Cal
- American Brass Co** 414 Meadow St Waterbury 20 Conn
- American Builder Book Service** Dept 30 Church St New York NY
- American Coils Co** R-524 Lakewood Rd Farmingdale NJ
- American Conveyor Co** 2133 S Christians Chicago 23 Ill
- American Coolair Corp** 3600 Mayflower Ave Jacksonville 3 Fla
- American Duralite Corp** Loudon Tenn
- American Engineering Co** 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 E Robert St St Paul 7 Minn
- American Incinerator Corp** 5710 E Nevada St Detroit 11 Mich

American Louver Co 4240 N Sayre Ave Chicago 34 Ill  
 American Marietta Co Valdura Div 101 E Ontario St Chicago 11 Ill  
 American Mat Corp 2330 Adams St Toledo 2 Ohio  
 American Olean Tile Co 1000 Cannon Ave Lansdale Pa  
 American Photocopy Equipment Co 2100 W Dempster Evanston Ill  
 American Radiator & Standard Sanitary Corp Plumbing & Heating Div 40 W 40th St New York NY  
 American Roof Truss 6750 Stony Island Ave Chicago 49 Ill  
 American-Saint Gobain Corp 625 Madison Ave New York 22 NY  
 American Saw & Mfg Co 67 Boylston St Springfield 1 Mass  
 American Screen Products Co 61 E North Ave Northlake Ill  
 American Shower Door Co Inc 936 N Cahuenga Blvd Hollywood 38 Cal  
 American Siskrafft Corp 55 Starkey Ave Attleboro Mass  
 American Sta-Dri Co 4102 41st St Brentwood Md  
 American Stained Shingle Co 381 West Spruce St Columbus Ohio  
 American Standard Air Conditioning Div Elyria Ohio  
 American Standard American Blower Div 8111 Tremen Detroit 32 Mich  
 American-Standard Plumbing & Heating Div 40 W 40th St New York 18 NY  
 American Steel Door Co 11148 Harper Ave Detroit 13 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 Branch St Chicago 22 Ill  
 American Vitrified Prods Co 700 National City Bank Bldg Cleveland 14 Ohio  
 American Woodworking Machinery Co 100 Liberty St Hackettstown NJ  
 Amerock Corp 4600 Auburn St Rockford Ill  
 Ames Metal Moulding Co 33 California Ave Paterson NY  
 Amidon Engineering Co 38369 Cleveland Rd Elyria Ohio  
 Amweld Building Products Div American Welding & Mfg Co 100 Plant St Niles Ohio  
 Anaconda Wire & Cable Co 25 Broadway New York 4 NY  
 Anchor Fence Div Anchor Pest Prods Inc 6500 Eastern Ave Baltimore 24 Md  
 Anchor Mfg Co 2932 W 26 St Chicago 23 Ill  
 Andersen Corp Bayport Minn  
 Anderson V E Mfg Co Inc 1515 E 18 St Owensboro Ky  
 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 97 11 Northern Blvd Corona LI 68 NY  
 Anson & Gilkey Co South Sales St Merrill Wisc  
 Anti Hydro Waterproofing Co 265 Badger Ave Newark 8 NJ  
 Appleton Coated Paper Co 1200 N Meade Appleton Wisc  
 Arcadia Metal Products 801 South Aca-cia Ave Fullerton Cal  
 Arcata Plywood Corp PO Box 427 Arcata Cal  
 Architectural Plan Service Inc 89-51 164th St Jamaica 3 NY  
 Architectural Tiling Co 101 Park Ave New York NY  
 Arco Co 7301 Bessemer Cleveland 27 Ohio  
 Arkansas Cement Corp Sub of Arkansas Louisiana Gas Co 812 Main St Little Rock Ark

Arkansas Oak Flooring Co 2200 W Fifth Ave Pine Bluff Ark  
 Arketex Ceramic Corp 6 N Walnut St Brazil Ind  
 Arkla Air Conditioning Corp 812 Main St Little Rock Ark  
 Armco 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  
 Arro Expansion Belt 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  
 Arterrest Products Co Inc 255 W 79 St Chicago Ill  
 Arvey Corp 3462 N Kimball Ave Chicago 18 Ill  
 Ash Grove Lime & Portland Cement Co 1105 Fairfax Bldg Kansas City Mo  
 Askren J I Co Stock Yards Indianapolis Ind  
 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  
 Atco Aluminum Products 1910 S Kuhl St Orlando Fla  
 Athens Stove Works Inc 213 Hicks St Athens Tenn  
 Atkins Saw Div Borg-Warner 402 S Illinois St Indianapolis 25 Ind  
 Atkins Wood Products Corp 103-12 101 St Ozone Park NY  
 Atkinson Mfg Co 502-14 S James Lud-ington 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 Kalamazoo 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  
 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  
 Azrock Floor Products Div Uvalde Rock Asphalt Co Box 531 San Antonio Tex

## B

B & T Metals Co 425 W Town St Colum-bus 16 Ohio  
 Babcock W W Co Inc Delaware Ave Bath NY  
 Badger Div The Warner & Swasey Co 1124 West Fifth St Winona Minn

Baker Mfg Co 133 Enterprise St Evans-ville Wisc  
 Baldwin-Ehret-Hill Inc 500 Breunig Ave Trenton 2 NJ  
 Baldwin Hardware Mfg Corp 841 Wyomissing 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 & Oper-ators Div Park Plant Rockford Ill  
 Barber Greene Co 400 N Highland Aurora Ill  
 Bar-Brook Mfg Co PO Box 6638 Shreve-port La  
 Barclay Mfg Co Inc 385 Gerard Ave New York 51 NY  
 Bareo 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  
 Barland Weatherstrip Material Co 1960 E 59 St Cleveland 3 Ohio  
 Barnes Mfg Co 651 N Main St Mansfield Ohio  
 Barnhardt Mfg Co PO Box 2176 Char-lotte 1 NC  
 Barreled Sunlight Paint Co Dept 19 PO Box 1365 Providence 1 RI  
 Barretti Cravens Co 630 Dundee Rd Northbrook Ill  
 Bauer Mfg Co Bowman St Wooster Ohio  
 Baughman Mfg Co Inc Shipman Rd Jer-seyville Ill  
 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 Sales Inc 4615 Eighth Ave NW Seattle 7 Wash  
 Beauti-Dor Inc 4723 N Pulaski Rd Chi-cago 30 Ill  
 Beautycraft Kitchens Div Miller Metal Products Inc 2215 Russell St Baltimore 30 Md  
 Beaver Advance Corp PO Box 792 Ell-wood City Pa  
 Bee Gee Window Co 13th & Smallman Pittsburgh 22 Pa  
 Behr-Manning Co 3360 Howe St Troy NY  
 Belden Brick Co Canton 1 Ohio  
 Bell & Gossett Co 8200 N Austin Mor-ton Grove Ill  
 Belkool Co Inc 531 N Eighth St Milwau-kee Wisc  
 Bellwood Co of California 533 West Col-lins Orange Cal  
 Belsaw Machinery Co 315 Westport Rd Kansas City 11 Mo  
 Belson Mfg Co East River Rd N Aurora Ill  
 Belwood Industries Inc Ackerman Miss  
 Bemis Mfg Co 304 Broadway Sheboygan Falls Wisc  
 Bendix Mouldings Inc 192 Lexington Ave New York 16 NY  
 Ben-Hur Mfg Co 634 E Keefe Ave Mil-waukee 12 Wisc  
 Benjamin Electric Co Northwest Hwy Des Plaines Ill  
 Bennett-Ireland Inc 1151 Market St Nor-wich 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 Chi-cago 8 Ill  
 Berger C L & Sons 37 William St Bos-ton 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 212-40 Jamaica Ave Queens Village 28 NY  
 Berns Air King Corp 3050 N Rockwell St Chicago 18 Ill  
 Berry Brothers Div of American Marietta Co 211 Leib St Detroit Mich  
 Berry Door Corp 2400 E Lincoln Rd Birmingham Mich  
 Besser Co Box 336 Alpena Mich  
 Bessler 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  
 Bianco Mfg Co 2736 Victor St St Louis 4 Mo  
 Bica Co 1170 N State St Girard Ohio  
 Biddle Co Breckenridge Industrial Court St Louis 10 Mo  
 Biersach & Neidermeyer Co 1957 N Hubbard St Milwaukee Wisc  
 Bigelow-Sanford Carpet Co Inc 140 Madison Ave New York NY  
 Bilco Co 37 Water St West Haven Conn  
 Bil-Jax Inc 100 Wyse Rd Archbold Ohio  
 Biltbest Corp 175 Coyne St Ste Genevieve Mo  
 Binswander Glass Co 207 N Main St Houston 1 Tex  
 Bird & Son Inc East Walpole Mass  
 Birdair Structures Inc 290 Larkin St Buffalo 10 NY  
 Birge Co Inc 390 Niagara St Buffalo 1 NY  
 Black Hills Clay Products Co Box 730 Belle Fourche SD  
 Black & Decker Mfg Co 600 E Pennsylvania Towson 4 Md  
 Black White Limestone Co Front & Eighth St Quincy Ill  
 Blackstone Corp 1032-88 Allen St Jamestown NY  
 Bliss Steel Prods Corp 617 W Manlius St E Syracuse NY  
 Bloomington Limestone Corp 900 Walnut Box 44 Bloomington Ind  
 Blue Ridge Glass Corp PO Box 631 Kingsport Tenn  
 Blum Julius & Co Inc Carlstadt NJ  
 Bodinson Mfg Co 2401 Bayshore Blvd San Francisco Cal  
 Boice Crane Co 930 W Central Ave Toledo 6 Ohio  
 Bommer Spring Hinge Co Inc Landrum SC  
 Bonafide Mills Inc 295 Fifth Ave New York NY  
 Borden Chemical Co Div Borden Co 350 Madison Ave New York 17 NY  
 Borg-Warner Corp Ingersoll Humphries Div 201 East Fifth St Mansfield Ohio  
 Boro Wood Prods Co Inc PO Box 636 Bennettsville SC  
 Bostitch E Greenwich RI  
 Bostrom-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  
 Bourne Products 900 Bourne Pl El Cajon Cal  
 Bowerston Shale Co Box 155 Bowerston Ohio  
 Bowser Inc Supply Div 1303 W Randolph St Chicago 7 Ill  
 Bradley Southern Div Potlatch Forests Inc PO Box 390 Warren Ark  
 Brainerd Mfg Co N Washington St E Rochester NY  
 Brammer Mfg Co 1441 Rockingham Rd Davenport Iowa  
 Braund Plywoods Inc 314 Wabeek Bldg Birmingham Mich  
 Briar Hill Stone Co Glenmont Ohio  
 Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

Bridgeport Brass Co Hunter Douglas Div 405 Lexington Ave New York 17 NY  
 Bridgeport Hardware Mfg Corp Scofield Ave Bridgeport 5 Conn  
 Briggs Manufacturing Co 6600 E 15 Mile Rd Warren Mich  
 Brikrete Associates Inc Holland Mich  
 Brikite 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 R Corp 2701 N Normandy Ave Chicago 35 Ill  
 Bulldog Div Gregory Industries Inc Toledo Ave & E 28 St Lorain Ohio  
 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  
 Buch Co Div of Moto-Mower Inc Elizabethtown Pa  
 Bucyrus-Erie Co S Milwaukee Wisc  
 Buffalo Forge Co 490 Broadway Buffalo 4 NY  
 Buffalo Wallcraft Co Inc PO Box 54 Buffalo 7 NY  
 Bugher Mfg Co 301 E Lincoln Rd Kokomo Ind  
 Builders Brick Co 3800 Ninth Ave S Seattle 8 Wash  
 Builders Fireplace & Supply 2604 Link Rd Houston Tex  
 Bulldog Electric Products Div I-T-E Circuit Breaker Co 7610 Joseph Campau Detroit 11 Mich  
 Burgess Fastening Co 1220 W Ninth St Cleveland 13 Ohio  
 Burgess-Manning Co 749 E Park Libertyville Ill  
 Burgess Vibrocrafters Inc Grayslake Ill  
 Burnham Boiler Corp 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  
 Burrowes Corp 70 Free St Portland Me  
 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 Juvenile 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 Paint & Varnish Co 2612-26 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 Spray-Chemical Corp Lucas & Ortho Hwy Richmond Cal  
 Cainall Inc 1922 W Vliet St Milwaukee Wisc  
 Caloric Appliance Corp Topton Pa  
 Cambridge Tile Mfg Co Box 71 Cincinnati 15 Ohio  
 Camp Co Inc 9300 S Sangamon St Chicago 20 Ill  
 Canadian Forest Prods Ltd Hunting-Merritt Shingle Div 9110 Milton St Vancouver BC  
 Cannelton Sewer Pipe Co Fourth & Washington Sts Cannelton Ind  
 Cannon Electric Co 3208 Humboldt St Los Angeles Cal  
 Capilano Timber Co Ltd Box 2230 Vancouver BC  
 Capitol Products Co 1839 S Main Box 351 Jacksonville Ill  
 Capitol Products Corp Carlisle Pike Mechanicsburg Pa  
 Capri Mfg Inc 2638 N Naomi St Burbank Cal  
 Capri Sales Inc 217 N Lake St Burbank Cal  
 Caradeo Inc Eleventh & Jackson Dubuque Iowa  
 Carbolineum Wood Preserving Co 6683 N 40 St Milwaukee 9 Wisc  
 Carborundum Co PO Box 477 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 811 State Hwy 33 Hamilton Square NJ  
 Cascades Plywood Corp 1316 Public Service Bldg Portland 4 Ore  
 Case J I Co 702 State St Racine Wisc  
 Case Mfg Corp 247 Delaware Ave Buffalo 2 NY  
 Casings Inc & Drywall Trim Div 2408 N Farwell Ave Milwaukee 11 Wisc  
 Caterpillar Tractor Co Peoria Ill  
 Cavalier Corp 341 W First St Chattanooga Tenn  
 Ceco Steel Prods Corp 5601 W 26 St Chicago 50 Ill  
 Cedar Supply Co Humptulps Wash  
 Cedarwood Timber Co Box 105 Vernonia Ore  
 Cellhex Inc 3 Malden St Natick Mass  
 Celotex Corp 120 S LaSalle St Chicago 3 Ill  
 Cemex of Arizona 8949 Sunset Blvd Los Angeles 46 Cal  
 Cenatron Industries 5484 Rt 99 S Fresno Cal  
 Central Foundry Co 922 Broadway New York 10 NY  
 Central Metal Strip Co 4343 N Western Ave Chicago 18 Ill  
 Centralia Plywood Inc PO Box 449 Centralia Wash

- Century Fence Co Box 466 Waukesha Wis
- Century Shake Mill PO Box 52 Copalis Beach Wash
- Ceresit Waterproofing Corp 3227 S Shields Ave Chicago 16 Ill
- Cermak Tile Co Inc 4901 Brookpark Rd Cleveland 29 Ohio
- Certain-Teed Sales Corp 120 E Lancaster Ave Ardmore Pa
- Chain Belt Co 4701 W Greenfield Milwaukee 1 Wis
- 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
- Champion Mfg Co 3700 Forest Park Ave St Louis 8 Mo
- Charles Machine Works 631 B St Perry Okla
- 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
- Chattanooga Wheelbarrow Co 1311 E Main St Chattanooga 2 Tenn
- Chelsea Elevator Co 549-551 W 52 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
- Chesler J & Sons Inc 41-49 Varick Ave Brooklyn 37 NY
- Chester Packaging Prods Corp 684 Nepperhan Ave Yonkers NY
- Chester Products Inc Belle Ave & BAORR 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 Fire Brick Co 1467 N Elston Chicago 22 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
- Chickamanga Cedar Co Inc Stevenson Ala
- Chicopee Mills Inc Lumite Div 47 Worth St New York 13 NY
- Childers Mfg Co 3620 W 11th St Houston 8 Tex
- 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 Paseo Corp 5500 Maspeth Ave Maspeth NY
- Clad-Rex Div Simonix Co 2101 S Indiana Ave Chicago 16 Ill
- Clarage Fan Co 719 Porter St 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
- Clarké Floor Machine Co 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 Quarries Co Amherst 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 85 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
- Closures Sales Corp 533 E Forest Ave Detroit 11 Mich
- Cloud Oak Flooring Co 1916 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 Wis
- Coffing Hoist Div Duff-Norton 800 Walter St Danville Ill
- Coffman B 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 Cedar Co 625 W Ewing St Seattle 99 Wash
- Colonial Fireplace Co 540 N Cicero Chicago 44 Ill
- Colonial Moulding & Frame Co Inc 928 Broadway New York 10 NY
- 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 456 Kalamath St Denver Colo
- Colorcrete Industries Inc 500 W 24 St Holland 1 Mich
- Colson 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 Metal Box Co 260 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 Co Div Siegler Corp 2033 Santa Fe Ave Los Angeles 21 Cal
- Comfort Geo N Lumber Co 3592 Lee Rd Cleveland Ohio
- Comfort Products Inc PO Box 1211 Dallas 21 Tex
- Commander Doors Inc Maple Ave Holmes Pa
- Commonwealth Lumber Corp Box 346 Murphy NC
- Concrete Equip Co 514 Ottawa Ave Holland Mich
- Concrete Weld Co G-5186 Coldwater Rd Flint 6 Mich
- Condensation Engineering Co 3511 W Potomac Ave Chicago 51 Ill
- Condon-King Co 1247 Rainier Ave Seattle 44 Wash
- Congoleum-Nairn Inc 195 Belgrove Dr Kearny NJ
- Connor Engineering Corp Shelter Rock Lane Danbury Conn
- 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 University Denver 10 Colo
- Construction Machinery Co 420 Vinton St Waterloo Iowa
- Contact Lumber Co 719 Corbett Bldg Portland 4 Ore
- Continental Aluminum Prods Co 1806 W Roscoe St Chicago 13 Ill
- Continental Can Co Conolite Dept 205 W 14 St Wilmington Del
- 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
- Controls Co of America 2450 N 32 St Milwaukee Wis
- Conver Steel & Wire Co 600 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
- Conkson Co 1525 Cortland Ave San Francisco 10 Cal
- Cool Roof Inc 4119 Ponce de Leon Blvd Coral Gables Fla
- Coolerater McGraw-Edison 704 N Clark St Albion Mich
- Copco Steel & Engineering Co Commodity Products Div PO Box 6257 Detroit 34 Mich
- Copperweld Steel Co Wire & Cable Div Glassport Pa
- Coppes Inc Nappanee Ind
- Copymation Inc 5650 N Western Ave Chicago 45 Ill
- Corbin P & F Div American Hardware Corp 102 Washington St New Britain Conn
- Corson G & W H Inc Plymouth Meeting Pa
- Cortland Grinding Wheels Corp 1 Huntington St Chester Mass
- 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 Belleville NJ
- Crane Co 836 S Michigan Ave Chicago 5 Ill
- Crawford Corp 7111 Florida Blvd Baton Rouge La
- Crawford Door Co 20263 Hoover Rd Detroit 5 Mich
- Creo-Dipt Co Inc 968 Oliver St N Tonawanda NY
- Cre-O-Tox Chemical Co 2670 Broad St Memphis 12 Tenn
- Crestline Co 100 Thomas St Wausau Wis
- Cribben & Sexton Co 700 N Sacramento Chicago 12 Ill
- Croft Metal Products Inc McComb Miss
- Cromar Co Susquehanna St Williamsport Pa
- Crossett Lumber Co Crossett Ark
- Crossly Window Corp 7375 N W 35th Ave Miami Fla

**Crown Rubber Co** 1615 Crochan St Fremont 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 Monticello Iowa  
**Culligan Inc** 1657 Shermer Ave Northbrook Ill  
**Cummins Portable Tools Div John Oster Mfg Co** 5055 N Lydell Ave Milwaukee 17 Wisc  
**Cupples 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** Curon Div 50 Rockefeller Plaza New York NY  
**Curtitlon Corp** 2227 Sawtelle Blvd W Los Angeles Cal  
**Cutler Hammer Inc** 201 N 12 St Milwaukee 1 Wisc  
**Cutler Metal Prods Co** 1025 Line St Camden NJ  
**Cutrite Cedar Prods** 1432 E Fourth St Port Angeles Wash  
**Cyclone Fence Dept American Steel & Wire Div** Box 260 Waukegan 1 Ill

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 Kishwaukee St Rockford Ill  
**Damp-Vent Co** 210-17 St Box 203 Bettendorf Iowa  
**Danbury Rubber Co Inc** Shelter Rock Rd Danbury Conn  
**Dant & Russell Inc** 1320 S W Broadway Portland Ore  
**Danuser Machine Co** 500 E Third St Fulton Mo  
**Daryl Products Corp** 7240 N E Fourth Ave Miami Fla  
**Dasco Co Inc** 1602 Thames St Baltimore 31 Md  
**Davidson Shingle Co Ltd** Silverdale BC  
**Davidson Enamel Products Inc** 1100 E Kibby St Lima Ohio  
**Day & Night Mfg Co** 855 Anaheim-Puente 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 Kercher St Miamisburg Ohio  
**Dearborn Glass Co** 6600 S Harlem Ave Bedford Park Ill  
**Dearborn Stove 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  
**Del-Mar Cabinet Co Inc** 2865 Gordon Rd S W Atlanta Ga  
**Delta Co** 333 West 24 Pl Chicago Ill  
**Delta Faucet Corp** 12825 Ford Rd Dearborn Mich  
**Deluxe Saw & Tool Co** 510 E Main St Louisville Ky  
**Del Val Mfg Co** 708 S Third St Philadelphia 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** 4444 Irving Park Rd Chicago 41 Ill

**Design Technics 4 E** 52nd St New York 22 NY  
**Designware Industries Inc** 3721 50th Ave N Minneapolis 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  
**Detroit Hardware Mfg Co** 27300 Groesbeck Hwy Roseville Mich  
**Deuse E W Co** Chester Conn  
**DeVac Inc** 5901 Wayzata Blvd Minneapolis Minn  
**Devices Div of Miracle Adhesives Corp** 250 Pettit Ave Bellmore LI NY  
**Devilbiss Co** 300 Phillips Ave Toledo 1 Ohio  
**Devoc & Reynolds Co Inc** PO Box 1863 Louisville Ky  
**Dexter Fairfield Iowa**  
**DeWalt Div AMF** Fountain Ave Lancaster Pa  
**Dewey & Almy Chemical Div W E Grace & Co** 62 Whittemore Ave Cambridge 40 Mass  
**Dewey Portland Cement 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 Pittock 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  
**Dick Brothers Inc** Third & Buttonwood Sts Reading Pa  
**Dicks Armstrong Pontius Inc** 5300 Huberville Ave Dayton Ohio  
**Diebold Inc** 818 Mulberry Rd S E Canton 2 Ohio  
**Diel Mfg Co** 1185 Finderne Ave Somerville NJ  
**Dierks Forests Inc** 810 Whittington Ave Hot Springs Ark  
**Dietz R E Co** 225 Wilkinson St Syracuse 1 NY  
**Dietzgen Eugene Co** 2425 N Sheffield Chicago 14 Ill  
**Dina-Pak Corp** PO Box 488 Irving Tex  
**Dixton Div H K Porter Co Inc** Unruh & Milnor Sts Philadelphia 35 Pa  
**Division Lead Co** 7742 W 61 Pl Summit Ill  
**Dixie Products Inc** PO Box 475 Cleveland Tenn  
**Dixie Radiant 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 Detroit 31 Mich  
**Dodge F W Corp** 119 W 40 St New York 18 NY  
**Dodson Mfg Co Inc** 1463 Barwise Wichita Kan  
**Donley Brothers Co** 13910 Miles Ave Cleveland 5 Ohio  
**Donnelly-Kelley Glass Co** 49 W Third St Holland Mich  
**Doorscope Co** 32 Union Square New York 3 NY  
**Dormalux Co Inc** 50 Mechanic Buffalo 2 NY  
**Dormeyer Co** Kingsbury St Chicago Ill  
**Dor-O-Matic Div Republic Industries Inc** 7350 W Wilson Ave Chicago Ill  
**Dorr-Oliver Havemeyer Lane** Stamford Conn  
**Dosch Mfg Co** Delaware County Thornton 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 & Sturges** 475 Bryant St San Francisco Cal  
**Douglass Mfg Corp** 1482 N Fourth St San Jose 12 Cal  
**Daw 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  
**Dremel Mfg Co** 2420 18th St Racine Wisc  
**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 Dyersville Iowa  
**Ductless Hood Co Inc** 601 Plandome Rd Manhasset NY  
**Dukane Corp** St Charles Ill  
**Dulaney Plywood Corp** 1440 Commonwealth 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 Oshkosh 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  
**Durall Products Co** Rockville Md  
**Dura-Vent Corp** 1400 W Ormsby Ave Louisville 10 Ky  
**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  
**Duronso 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

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-Picher 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  
**Earle Kitchen Unit Co** 116 E 63 St New York 21 NY  
**Eastern Machine Prods Co** 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  
**Eclipse Plastics Industries** PO Box 430 Sarasota Fla  
**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 Greenwood Ave Chicago 19 Ill  
**Egry Register Co** 429 E Monument Dayton 2 Ohio

Elmco Corp 654 S Fourth W St Salt Lake City Utah  
 EJay Mfg Co 124 Boyd St Winsted Conn  
 Ekco Prods Co Bedford Canton Ohio  
 Ekco Products Co Ekco-Autoyre Div 1949 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  
 Elastizell Corp of America 158 Fletcher St Alpena Mich  
 Electra Protection Co Inc 127 N Lake Ave Albany 6 NY  
 Electrend Products Corp Box 110 St Joseph Mich  
 Electro Prods 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 Minneapolis Minn  
 Eljer Div Murray Corp of America 3 Gateway Center Pittsburgh 22 Pa  
 Elkay Mfg Co 1874 S 54 Ave Chicago 50 Ill  
 Elliott Addressing Machine Co 143 Albany St Cambridge 39 Mass  
 Elliott Bay Mill Co 600 W Spokane St Seattle 4 Wash  
 Elliott Paint & Varnish Co 4523 Fifth Ave Chicago 24 Ill  
 Embassy Steel Prods Inc 890 Stanley Ave Brooklyn 8 NY  
 Emco Cement Prods Inc Birdsboro Pa  
 Emerson Electric Mfg Co 8100 Florissant Ave St Louis 12 Mo  
 Emerson-Imperial Lighting Co Box 427 Latrobe Pa  
 Emerson-Fryne Co 140 N Towne Co Pomona 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 77 Bloomington Ind  
 Empire Stone Co 918 Freeburg Ave Belleville Ill  
 Engineered Products Co 129 N Grand Traverse St Flint 3 Mich  
 Engis Equipment Co 431 S Dearborn St Chicago 5 Ill  
 Erdle Perforating Co Inc 171 York St Rochester NY  
 Erie City Iron Works 1420 East Ave Erie Pa  
 E/S Products Inc 642 Fayette Ave Mamaroneck NY  
 Eiding Window 324 Wooster Rd N Barberton Ohio  
 Evans Brick Co 23 Newport Ave Uhrishville Ohio  
 Evans Products Co 13101 Eckles Rd Plymouth Mich  
 Evans Products Co 209 Crees Bldg Corvallis Ore  
 Evans Rule Co 400-416 Trumbull Elizabeth NJ  
 Evercrete Corp 424 W 42 St New York 18 NY  
 Eveready Briksaw 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 928 Grand Ave Kansas City 6 Mo  
 Exercutone 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  
 Fabricon Prods 6430 E Slauson Los Angeles Cal  
 Fabrikona Inc East Taunton Mass  
 Fabrow 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 98 Berrian St Brooklyn 8 NY  
 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 Lorain Ohio  
 Fedders Corp Lalor & Hancock Sts Trenton NJ  
 Federal Boiler Co Inc Granite & West Sts Midland Park NJ  
 Federal Hardware Prods Inc 3456 N Washington Ave Minneapolis 12 Minn  
 Federal Pacific Electric Co 50 Paris St Newark 1 NJ  
 Federal Sign & Signal Corp 13500 S Western Ave Blue Island Ill  
 Federal Windows Mfg Co Inc 1319 Lincoln Ave Waukesha Wisc  
 Fenestra Inc 2250 E Grand Blvd Detroit 11 Mich  
 Fentron Industries Inc 2801 Market St Seattle 7 Wash  
 Ferguson Harry J Co 141 West Ave Jenkintown Pa  
 Fiat Metal Mfg Co 9301 W Belmont Ave Franklin Pk Ill  
 Fiberboard Paper Prods Inc 475 Brannan St San Francisco Cal  
 Fiberresin Plastics Co Oconomowoc Wisc  
 Flinn Plastics Corp 333 N Van Ness Ave Hawthorne Cal  
 Findley F G Co 3033 W Pemberton Milwaukee Wisc  
 Finger Lakes Stone Co Inc Ellis Hollow Rd Box 401 Ithaca NY  
 Firestone Plastics Co 45 Rockefeller 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 2815 W Vliet St Milwaukee Wisc  
 Fitzgibbons Boiler Co Inc 101 Park Ave New York 17 NY  
 Flash Bridge Co 783 S Washington Ave Holland Mich  
 Flec 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 Forestville Conn  
 Flexicare Co Inc 1932 E Monument Ave Dayton 1 Ohio  
 Flexrock Co 3601 Filbert St Philadelphia Pa  
 Flinchbaugh-Murray Corp 66 N Murray Pl York Pa  
 Flintkote Co Box 2218 Los Angeles Cal  
 Flint A W Co 85 Lloyd St New Haven 6 Conn  
 Flint & Walling Mfg Co Inc 95 Oak St Kendallville Ind  
 Flintkote Co 30 Rockefeller Plaza New York 20 NY  
 Float-Away Door Co 1173 Zanolite Rd N E Atlanta 6 Ga  
 Flush Wall Radio Co 1012 Cleveland St Clearwater Fla  
 Flynn Michael Mfg Co 700 E Godfrey Ave Philadelphia 24 Pa

Foley Mfg Co 3300 N E Fifth St Minneapolis Minn  
 Follansbee Steel Corp Follansbee W Va  
 Fond du Lac Stone Co Inc Hwy 175 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 1916 13th St Rockford Ill  
 Forman-Ford & Co 111 S Second St Minneapolis Minn  
 Formetal Inc 109 W Water St Oak Harbor Ohio  
 Formica Corp 4611 Spring Grove Ave Cincinnati Ohio  
 Forrers Div Spray-O-Bond Co 2225 N Humboldt Milwaukee Wisc  
 Forsberg Mfg Co 125 Seaview Ave Bridgeport 1 Conn  
 Fort Vancouver Plywood Co Vancouver Wash  
 Fortex Industries Inc 44 Whitehall St New York 4 NY  
 Forty-Eight Insulations Inc Thomas & McGee Sts Aurora Ill  
 Fourco Glass Co Union Natl Bank Bldg Clarksburg W Va  
 Franklin Plastics Inc 315 Grant St Franklin Pa  
 Frantz Mfg Co 301 W Third St Sterling Ill  
 Freeman Doorjack Co 709 W Central Ave Bentonville Ark  
 Fresh'Nd-Aire Co Div Cory Corp 3200 W Peterson Ave Chicago 45 Ill  
 Frick-Gallagher Mfg Co Inc S Michigan Ave Wellston Ohio  
 Friden Inc 2350 Washington San Leandro Cal  
 Frigidaire Div General Motors Corp 300 Taylor St Dayton 1 Ohio  
 Frink Corp 211 63 St Brooklyn NY  
 Frost Forest Products Div Olin Mathieson Chemical Corp PO Box 1125 Shreveport La  
 Fry Lloyd Roofing Co 5818 Archer Rd Summit Ill  
 Fuller H B Co 255 Eagle St St Paul 2 Minn  
 Fuller Mfg Co 2 R R Dept AB4 Newhall Iowa  
 Fuller W P & Co 301 Mission St San Francisco Cal  
 Fulton Cotton Mills 170 Boulevard S E Atlanta Ga  
 Fulton Glass Co Box 348 Hartford City Ind

## G

Gaffers & Sattler 8111 W Beverly Blvd Los Angeles 48 Cal  
 Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich  
 Gallion Allsteel Body Co 605 S Market St Gallion Ohio  
 Galloway Lumber Co Clarksville Ark  
 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  
 Gate City Sash & Door Co 15 S W Third Ave Ft Lauderdale Fla  
 Gates Mfg Co Inc 435 W 11 St Indianapolis Ind  
 Gates & Sons Inc 80 S Galapago St Denver 23 Colo  
 Gee Vee Line Oaks Pa  
 Gelvatex Paint Div Shawinigan Resins Corp 901 E Vermont St Anaheim Cal  
 General Air Conditioning Corp 4542 E Dunham St Los Angeles Cal  
 General Automatic Products Corp 2300 Sinclair Lane Baltimore 13 Md

General Bathroom Products Corp 1809 W Thomas 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 8 Ohio  
 General Concrete Products Inc 15025 Oxnard Van Nuys Cal  
 General Controls Co 801 Allen Ave Glendale 1 Cal  
 General Door Co 133 Oak St West Bend Wisc  
 General Doors Corp Radcliffe & Monroe Bristol Pa  
 General Electric Co Air Conditioning Dept Tyler Tex  
 General Electric Co Apparatus Sales 1 River Rd Schenectady 5 NY  
 General Electric Co Appliance & Television Div Appliance Park Louisville 1 Ky  
 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 Wiring Device Dept 95 Hathaway St Providence 7 RI  
 General Engines Co Inc Route 130 Thorofare NJ  
 General Gas Light Co 202 North Park St 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 Oak Flooring Co Box 249 Nacogdoches Tex  
 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  
 General Water Heater Corp 1 E Magnolia Blvd Burbank Cal  
 General Window Co 275 E Tenth Ave Hialeah Fla  
 Geneva Modern Kitchens 201 S Eighth St Geneva Ill  
 Gensco Tools 1830 N Kostner Ave Chicago 39 Ill  
 Geo-Optic Co 149 Church St New York NY  
 George F C Machine Co 100 S Westmoreland Orlando Fla  
 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  
 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 Co Div Hupp Corp 515-615 W Williams Greenville Mich  
 Gilbert & Barker Mfg Co Cold Springs Ave W Springfield Mass  
 Gilbert & Bennett Mfg Co 600 Miller Ave Georgetown Conn  
 Giles & Kendall PO Box 961 Huntsville Ala  
 Gilman Bros Co 100 Main St Gilman Conn  
 Gilson Brothers Co Box 245 Fredonia Wisc

Giustina Brothers Lumber Co Box 980 Eugene Ore  
 Gladding Bros Mfg Co Third & Keyes San Jose 3 Cal  
 Gladding McBean & Co 2901 Los Feliz Blvd Los Angeles Cal  
 Glamour Glass Wal-Dor Corp 5917 W Lawrence Ave Chicago 30 Ill  
 Glasolier Co 307 Sixth St Braddock Pa  
 Glass Shower Door Co Inc 105 W Wacker Chicago Ill  
 Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio  
 Glide Windows Inc 7463 Varna Ave N Hollywood Cal  
 Glissade Inc 1437 Bushwick Ave Brooklyn 7 NY  
 Globe Paint Works Inc PO Box 36 Williamsport 5 Pa  
 Globe Roofing Products Co Inc 2207 Schrage Whiting Ind  
 Goder Joseph Inc 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 Wisc  
 Goodrich B F Co Flooring Products 36 Nichols Ave Watertown 72 Mass  
 Goodrich B F Industrial Products Co Marietta Ohio  
 Goodwin of Calif Inc 1075 Second St Berkeley 10 Cal  
 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  
 Gougler C L Machine Co Lock Div Kent Ohio  
 Goulds Pumps Inc 240 Fall St Seneca Falls NY  
 Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio  
 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 Haven Stamped Products Co Griffin & Madison St Grand Haven Mich  
 Grand Rapids Brass Co 420 W 50 St SW Grand Rapids Mich  
 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 & Madison Granite City Ill  
 Grant Pulley & Hardware Corp High St West Nyack NY  
 Gray & Dudley Co 2300 Clifton Rd Nashville Tenn  
 Gray Lumber & Shingle Co Box 812 Seattle Wash  
 Graybeal C R & Sons PO Box 8 Roan Mountain Tenn  
 Grays River Shake Co PO Box 776 Grays River Wash  
 Graystone Inc 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  
 Grissom-Rakestraw Lumber Co Burnside Ky  
 Grote Mfg Co Lafayette & Grandview Bellevue Ky  
 Gustin-Bacon Mfg Co 291 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-Brace Inc 3930 NW 25 St Miami 42 Fla  
 H & M Cabinet Service 802 E Fifth Auburn Ind  
 H-F 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 1380 W Washington Los Angeles 7 Cal  
 Halstead & Mitchell Bessemer Bldg Pittsburgh 22 Pa  
 Hamilton Mfg Co 1316 18th St Two Rivers Wisc  
 Hamlin Prods Inc PO Box 2016 1000 North St Little Rock Ark  
 Hanchett Mfg Co 906 N State St Big Rapids Mich  
 Handley-Brown Co 2101 Brooklyn Rd Jackson Mich  
 Handy Things Mfg Co N Rowe St Ludington Mich  
 Hanley Co 1 Gateway Center Pittsburgh 22 Pa  
 Hanover Wire Cloth Div Cont Copper & Steel East Middle St Hanover Pa  
 Harbor Plywood Corp Box 940 Aberdeen Wash  
 Hardel Mutual Plywood Corp PO Box 365 Olympia Wash  
 Hardware Products Inc 806-812 126th St Reading Pa  
 Hardwick Steve Co 240 Edwards St Cleveland Tenn  
 Hardwood Corp of America PO Box 1091 Asheville NC  
 Hardwood Products Corp PO Box 191 Neenah Wisc  
 Harloc Products Corp 680 Campbell Ave West Haven Conn  
 Harris Inc 200 E Long St Columbus Ohio  
 Harris L C Cedar Ltd Box 725 Abbotsford 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 Corp 1302 Expressway Dr Toledo 8 Ohio  
 Hartmeister Mfg Inc 950 Eleventh St Denver 4 Colo  
 Harvey Aluminum 19200 S Western Torrance Cal  
 Hasckel Mfg Corp 701 Ann St NW Grand Rapids Mich  
 Hassall John Inc PO Box 2184 Westbury NY  
 Hassell & Parkes Inc Trout La  
 Hastings Aluminum Products Inc 429 S Michigan Hastings Mich

- Hasty-Bake Mfg Co Inc 616 S Lewis St  
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  
Sta Berkeley 10 Cal
- Hayes Adhesives Co Inc 4159 Union Blvd  
St Louis 15 Md
- Haynes O E & Sons Inc Box 284 Eaton-  
ville Wash
- Hearthaire Conditioning Co 3126 Scar-  
borough 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
- Helnemann Saw Corp 2017 Navarre Rd  
SW Canton 6 Ohio
- Heinley Mastercraft Products 2211 Mich-  
igan Ave Santa Monica Cal
- Heller Tool Co Heller Dr Newcomers-  
town Ohio
- Heller W C & Co 1050 Bryant St Mont-  
pelier Ohio
- Hendrick Mfg Co Dundaff St Carbon-  
dale Pa
- Henry Furance Co Medina Ohio
- Henry Mfg Co Inc 1700 N Clay St PO  
Box 521 Topeka Kan
- Henry W W Co 5731 Bickett St Hunting-  
ton Park Cal
- Hercules Fastener Co 2720 N Clybourn  
Ave Chicago 14 Ill
- Hercules-Gallon Products Inc Gallon  
Ohio
- Hess Co 1855 S 54 Ave Chicago 50 Ill
- Hess Mfg Co Quincy Pa
- Hettrick W E & Son Co 3333 Maple Sta-  
tion 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 Wash-  
ington 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 Michi-  
gan Ave Chicago 4 Ill
- Hinge Butt Template 253 W Harriet St  
Altadena Cal
- Hirsh S A Mfg Co 8051 N Central Pk  
Skokie Ill
- Hobart Mfg Co 711 Pennsylvania Troy  
Ohio
- Hoe R & Co Inc 910 E 138 St New York  
54 NY
- Hoffee Cedar Prods Rt 2 Box 149-B Mon-  
roe Wash
- Hoffman Specialty Mfg Corp 1700 W 10  
St Indianapolis 7 Ind
- Holtzman 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 Pkway Pasadena Cal
- Hollyview Aluminum Rolling Glass  
Doors, Windows 13060 Saticoy N Holly-  
wood 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 660 20th St Oakland 12 Cal
- Holub Industries Inc 473 Elm St Sycam-  
ore Ill
- Homasote Co Ferwood Rd Trenton NJ
- Home Building Plan Service 2454 NE  
Sandy Blvd Portland 12 Ore
- Home Comfort Co Box 68 Princeville Ill
- 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  
21 Pa
- Hood Mifflin B Co 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 Co Emporia Kan
- Horizon Door Co 640 Paula St Glendale  
1 Cal
- Horn A C Companies Div Sun Chemical  
Corp 750 Third Ave New York 17 NY
- Horner Flooring Co Dollar Bay Mich
- Horton Mfg Co PO Box 747-B Gold-  
thwaite Tex
- 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 Cleve-  
land 4 Ohio
- Hough Frank Co 811 Sunnyside Ave Lib-  
ertyville Ill
- Hough Mfg Corp 1020 S Jackson St  
Janesville Wis
- Howard Mfg Co Kent Wash
- Howell Mfg Co Morehall Rd Paoli Pa
- Howes S M Inc 387 Oliver St Fall River  
Mass
- Hubbell H L Mfg Co Zeeland Mich
- Hubbell Harvey Inc State & Bostwick  
Bridgeport 5 Conn
- Hudson H D Mfg Co 587-91 E Illinois  
Chicago 11 Ill
- Hulbert Wm Mill Co PO Box 1111 Ev-  
erett Wash
- 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 1 Box 158  
Humptulips Wash
- 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 Pitta-  
burgh 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 &  
NWR 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  
I-XL Furniture Co 410 N Main St Goshen  
Ind
- Ida Products Co 1909 E Forest Ave Det-  
roit Mich
- Ideal Brass Works Inc 250 E Fifth St  
St Paul 1 Minn
- Ideal Cement Co 500 Denver Natl Bldg  
Denver 2 Colo
- Ideal Hauger 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
- Ideal Vent Div Craig-Nevens 605 Sum-  
mer St Abington Mass
- I.G. Electric Ventilating Co 2850 N Pu-  
laski Rd Chicago 41 Ill
- Illinois Brick Co 228 N LaSalle St Chi-  
cago Ill
- Imperial Color Chemical & Paper Corp  
PO Box 231 Glens Falls NY
- Incineration Div Bowser Inc 4209 Sycam-  
ore St Cairo Ill
- Inclinor Products Co 633 Post Ave S  
Detroit Mich
- Inclinor Co of America 2200 Paxton  
Blvd Harrisburg Pa
- Independence Oak Flooring Co Inde-  
pendence La
- Independent Lock Co 1959 Cleghorn  
Fitchburg Mass
- Independent Lumber Co 19620 Notting-  
ham Cleveland Ohio
- Independent Nail & Packing Co Bridge-  
water Mass
- Indiana Cash Drawer Co Shelbyville Ind
- Indiana Limestone Co Inc 405 N I St  
Bedford Ind
- Industrial Canvas Prods Corp 15-25 Flax  
St Delaware Ohio
- Industrial Iron Works PO Box 4625 Port-  
land 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 Chi-  
cago 3 Ill
- Inland Steel Products Co 4025 West  
Burnham Milwaukee 1 Wis
- In-Sink-Erator Mfg Co 1225 14th St Ra-  
cine Wis
- Insta-matic Heater Co 89 Charles St  
Providence RI
- Insto-Gas Corp 998 E Woodbridge Det-  
roit Mich
- Insulation Industries Inc 100 E 69 St Cin-  
cinnati 16 Ohio
- 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 Chemical Co Inc 3140 S  
Canal St Chicago 16 Ill
- International Fireproof Door Co 76 Lex-  
ington Ave Brooklyn 38 NY
- International Harvester Co 180 N Michi-  
gan 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 Wash-  
ington Chicago Ill
- International Steel Co 1321 Edgar St  
Evansville 7 Ind
- International Swimming Pool Corp Feder-  
al Savings Bldg White Plains NY
- Interstate Brick Co 3100 S 11 E Salt  
Lake City Utah
- Ipik Door Co Inc Kenner La
- Irmanon Products Co 70-70 80th St Glen-  
dale 27 NY
- Iron Fireman Mfg Co 3170 W 106 St  
Cleveland 11 Ohio
- 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 6  
Conn



**J**

**J M J Industries Inc** PO Box 283 Belleville Ill  
**Jackson & Church Div York-Shipley Inc** PO Box 349 York Pa  
**Jackson Mfg Co** 2303 W Fairview Ave Montgomery Ala  
**Jackson Mfg Co** Lochiel Rd Harrisburg Pa  
**Jackson Shake Co** Moclips 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  
**James Mfg Co Inc** 1024 W Sycamore Independence Kan  
**Janesville Cotton Mills** 100 E 69 St Cincinnati 16 Ohio  
**Janitrol Heating & Air Conditioning Div Surface Combustion Corp** 400 Dublin Ave Columbus 16 Ohio  
**Jaseo 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  
**Jeffery Form Tie Co** Marengo Ill  
**Jenkins Brick Co** PO Box 91 Montgomery Ala  
**Jenkins Lumber & Mfg Co** 4120 S First Ave Birmingham Ala  
**Jenssen 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** 1325 Third Ave Moline Ill  
**Johas-Manville Corp** 22 E 40 St New York 16 NY  
**Johnson C S Co** PO Box 71 Champaign Ill  
**Johnson & Johnson Shake Co** Box 969 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 & Brown Inc** 330 Grant Bldg Pittsburgh 19 Pa  
**Jones Harold R** PO Box 252 Eugene Ore  
**Jones & Laughlin Steel Corp** 3 Gateway Center Pittsburgh Pa  
**Jones Industries Rt 1** Hwy 20 Boise Idaho  
**Jones Shutter Products** 246 NW 25 St Miami Fla  
**Jordan Industries** 3030 NW 75 St Miami Fla  
**Jones Superior Machine Co** 2820 W Grand Ave Chicago 12 Ill  
**Josam Mfg Co** Michigan City Ind  
**Junior-Pro Products Co** 118 E Marceau St St Louis 11 Mo

**K**

**Kaar Engineering Corp** 2985 Middlefield Rd Palo Alto Cal  
**Kaiser Aluminum & Chemical Corp** 1924 Broadway Oakland Cal  
**Kaiser Aluminum & Chemical Sales Inc** 919 N Michigan Ave Chicago 11 Ill  
**Kaiser Gypsum Co Inc** 1924 Broadway Oakland 12 Cal  
**Kaiser Mfg Inc** 2019 Brook St Houston 26 Tex  
**Kaiser Metal Prods Inc** Radcliffe & Monroe Bristol Pa  
**Kaiser Steel Corp** 1924 Broadway Oakland 12 Cal

**Kalamazoo Tank & Silo Co** 508 Harrison St Kalamazoo Mich  
**Kane Mfg Corp** PO Box 641 Kane Pa  
**Kant-Slam Door Check Co** Box 228 Bloomfield Ind  
**Karelius Albert & Sons Inc** 909 S Fremont Ave Alhambra Cal  
**Karyall Body Inc** 8221 Clinton Rd Cleveland 9 Ohio  
**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  
**Keleo Div Wells Aluminum Corp** North Liberty Ind  
**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 Ekeo Prods PO Box 677 Elkhart Ind  
**Kennebec Inc** Owens St Bingham Me  
**Kennecott Copper Corp** 161 E 42 St New York 17 NY  
**Kent Air Tool Co** 711 Lake St Kent Ohio  
**Kent Co Inc** 351 Canal St Rome NY  
**Kentile Inc** 58 Second Ave Brooklyn 15 NY  
**Kentucky Flooring Co of Va Inc** Orange Va  
**Kerner Incinerator Div** 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-Standard 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** 816 University Pl Evanston Ill  
**Kimberly-Clark Corp** 128 N Commercial Neenah Wis  
**Kimble Glass Co** Sub Owens-Illinois PO Box 1035 Toledo 1 Ohio  
**King Lumber Industries** Canton Miss  
**King Mfg Co** 3146 W Chicago Ave Chicago 11  
**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  
**Kinkaid Industries Inc** 5860 N Fulaski Rd Chicago 30 Ill  
**Kinnear Mfg Co** PO Box 598 Columbus Ohio  
**Kirk Plastics Co** 170 E Jefferson Los Angeles Cal  
**Kirilin Co** 3435 E Jefferson Detroit 7 Mich  
**Kitchen Kompact 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  
**Kilise Mfg Co** 52 Cottage Grove SW Grand Rapids 2 Mich  
**Knape & Vogt Mfg Co** 658 Richmond NW Grand Rapids 4 Mich  
**Knapp Brothers Mfg Co** 9000 Shell Rd Cincinnati 36 Ohio  
**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 Wis  
**Kohler Co** 44 High St Kohler Wis  
**Kol-Master Corp** 124 Walberg St Oregon Ill  
**Koolvent Metal Awning Corp of America** 902 Arrott Bldg Pittsburgh 22 Pa  
**Koppers Co Inc** Koppers Bldg Pittsburgh Pa  
**Koppers Co Inc** Durethane Plant 7001 W 60 St Chicago 38 Ill  
**Kordite Corp** Macedon NY  
**Kosmos Portland Cement Co** 1529 Starks Bldg Louisville 2 Ky  
**Koven L O & Bro Inc** Richboynton Rd Dover NJ  
**Kraus Walter S Co** 48-02 43 St Woodside 77 NY  
**Kresky Mfg Co Inc** Second & H Sts Petaluma Cal  
**Kresno-Stamm Mfg Co** 400 Commercial Ave Palisades Pk NJ  
**Krieg Victor J Inc** 611 Broadway New York 12 NY  
**Kritzer Radiant Coils Inc** 325 N River St Batavia Ill  
**Kruger Mfg Co** 1445 E Main St Owosso Mich  
**Kullin Co** 3435 E Jefferson Detroit 7 Mich  
**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 Eigerston Wis  
**Lake Lytle Shingle Co** Box 371 Manhattan Beach RS Rockaway Ore  
**Lake Shore Inc** Lake Shore Engineering Div E Magnetic St Iron Mountain Mich  
**Lamson & Sessions Co** 5000 Tiedeman Rd Cleveland 9 Ohio  
**Lancaster Pump & Mfg Co Inc** 1340 Mannheim 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 5756F Bethesda Md  
**Larson Chas O Co** PO Box 358 Sterling Ill  
**Larson Ladder Co** 651 Martin Ave Santa Clara Cal  
**Lastik Paint Inc** 203 Iroquois Bldg 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

2

- 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 Cutshaw Ave Richmond Va  
 Le Bol Div Westinghouse Air Brake Co Milwaukee 1 Wis  
 Leathers A H Mfg Co Box 29 Dickson Tenn  
 Leeds Edward & Co Lakeview LI NY  
 Leetonia Tool Co 142 Main St Leetonia Ohio  
 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 Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
 Lehon Co 25th & Warren Bellwood Ill  
 Leigh Bldg Products Div Air Control Products Inc 1659 Bee St Dept 4 Coopersville Mich  
 Lenahan Aluminum Window Corp PO Box 6496 Jacksonville Fla  
 Lenawee Peerless Inc 1412 E Michigan St Adrian Mich  
 Lennox Industries Inc 200 S Twelfth Ave Marshalltown Iowa  
 Leonard R B Inc 3553 NW 50 St Miami Fla  
 LePage's Inc 144 Essex Ave Gloucester 41 Mass  
 Leslie Welding Co Inc 2937 W Carroll Ave Chicago 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 J A Shingle Co Wheeler Ore  
 Lewis-Shepard Products Inc 1556 Walnut St Watertown 72 Mass  
 Libbey-Owens-Ford Glass Co 811 Madison Ave Toledo 3 Ohio  
 Lifetime Industries Inc 629 Bergman Ave Louisville 3 Ky  
 Lightoller Inc 346 Claremont Ave Jersey City NJ  
 Lightsey Bros Miley SC  
 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  
 Line Material Industries McGraw-Edison Co 700 W Michigan St Milwaukee Wis  
 Link-Belt Speeder Corp 1201 Sixth St SW Cedar Rapids Iowa  
 Linn Plywood Corp Tenth & Hill Sts Albany Ore  
 Linseed Oil Products Co 1603 Talbert Ave Santa Ana Cal  
 Lippmann Engineering Works Inc 4603 W Mitchell St Milwaukee 14 Wis  
 Liqui-Level Co Box 538 Redwood Dr Felton Cal  
 Litecraft Mfg Corp 545 Rodier Dr Glendale 1 Cal  
 Lithibar Co 345 W 14 St Holland Mich  
 Little Giant Prods Inc 1530 NE Adams St Peoria 3 Ill  
 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 Stove Co 114 W 11 St Kansas City 5 Mo  
 Lockhart Mfg Corp 6350 E Davison Ave Detroit 12 Mich  
 Lockport Mills Inc Lockport NY  
 Lockrey Co PO Box J Southampton 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  
 Lookout Boiler & Mfg Co Mfrs Rd & Compress St Chattanooga Tenn  
 Loom Roof Corp of America PO Box 9536 Pittsburgh Pa  
 Lord & Burnham Div Burnham Corp Main St Irvington NY  
 Lorenz Prods Inc 4820 N Central Chicago Ill  
 Louden Machinery Co 2504 West Court Fairfield Iowa  
 Louisville Cement Co Second & Walnut Sts 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  
 Loxit Systems Inc Greely & High Sts Monticello Ill  
 Loxgreen Co Inc PO Box 5133 Columbia SC  
 Lucas John & Co Inc 1617 Penna Blvd Philadelphia 3 Pa  
 Lucke William B Inc 514 Railroad Ave E Wilmette Ill  
 Ludlow Papers Inc 145 Rosemary St Needham Heights 94 Mass  
 Ludman Corp 14100 Biscayne Blvd N Miami Fla  
 Ludwiel-Celadon Co 75 E Wacker Dr Chicago 1 Ill  
 Ludwig Mfg Co Inc 1405-16th St Racine Wis  
 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  
 Luria Engineering Co 511 Fifth Ave New York 17 NY  
 Lustrik Inc 3225 Frankford Ave Philadelphia Pa  
 Lusto Tile Mfg Co 1066 Home Ave Akron 10 Ohio  
 Lux Co Inc 315 W Franklin St Elkhart 4 Ind  
 Luxor Carpet Co 17 S Cherry St Akron 8 Ohio  
 Lyf-Alum Inc 930 Armour Rd Oconomowoc Wis  
 Lynch Asbestos Co 2939 S Sunol Dr Los Angeles 23 Cal  
 Lyon Inc 1388 W Chicago Blvd Detroit Mich  
 Lyon Conklin & Co Inc Race & McComas St Baltimore 30 Md  
 Lyon Metal Products Inc 25 Montgomery St Aurora Ill
- M**
- Mack Trucks Inc 1355 W Front St Plainfield NJ  
 Mackie Mill Co Star Rt Box 36 Aberdeen Wash  
 Macklanburg-Duncan Co PO Box 1197 Oklahoma City Okla  
 Maco 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  
 Maginniss 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
- Manhattan Terrazzo Brass Strip PO Box 187 Norwalk Conn  
 Manitowoc Equip Works Manitowoc Wis  
 Mankato Stone Co Mankato Minn  
 Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div W Broadway Muskegon Mich  
 Mansfield Sanitary Inc Perrysville Ohio  
 Marchant Div Smith-Corona Marchant Inc 6701 San Pablo Ave Oakland 8 Cal  
 Marietta Paint & Color Co Green & Acme Sts Marietta Ohio  
 Markel Electric Prods Inc 151 Seneca St Buffalo NY  
 Maxwell Mfg Co Inc 200 Hudson St New York 13 NY  
 Marlin Pool Equip Co 14600 Arminta Van Nuys Cal  
 Mar-Lin Timber Corp Winchester Ore  
 Marlow Pumps Div Bell & Gossett Co PO Box 200 Midland Park NJ  
 Marmet Corp PO Box 208 Wausau Wis  
 Marmion-Herrington Co Inc 1545 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 Dover Ohio  
 Marsh Wall Products Inc 403 Main St Dover Ohio  
 Martin Bros Cont & Timber Prods Corp PO Box 698 Oakland Ore  
 Martin-Senour Co 2500 S Senour Ave Chicago Ill  
 Marvan Corp PO Box 219 W Hartford Conn  
 Marvel Equipment Co 1803 Bowen St Oshkosh Wis  
 Marvel Metal Prods Co 2843 W 43 St Chicago 32 Ill  
 Marvin Mfg Co 3171 E 12 St Los Angeles 23 Cal  
 Masland C H & Sons Carlisle Pa  
 Masland Duralather 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  
 Masonry Waterproofing Co Inc Box 501 Herndon Va  
 Massey-Ferguson Industrial Div 1009 S West St Wichita 15 Kan  
 Master Builders Co 7016 Euclid Ave Cleveland 3 Ohio  
 Master Hung Door Equip Co Franklin Apts Bldg Pottstown Pa  
 Master Lock Co 2600 N 32 St Milwaukee 45 Wis  
 Master Mechanic Mfg Co PO Box 389 Burlington Wis  
 Master Metal Strip Service Inc 1720 N Kilbourn Ave Chicago 39 Ill  
 Master Vibrator Co 1752 Stanley Ave Dayton Ohio  
 Master Woodworker Mfg Co Inc 401-411 E Fort St Detroit 26 Mich  
 Mastie Tile Div Ruberoid Co PO Box 128 Vails Gate NY  
 Mastro Plastics Corp 3040 Webster Ave Bronx NY  
 Mathes Co Div Glen Alden Corp 1529 E Broadway Ft Worth Tex  
 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  
 Maxon Construction Co Inc 2600 Far Hills Ave Dayton 9 Ohio  
 Mayes Bros Tool Mfg Co 104 Ashe St Johnson City Tenn  
 Mayes R & Son Level Mfg Co 300 Goldengate Detroit 3 Mich  
 Mayflower Air-Conditioners Inc E Seventh St at Duluth St Paul 6 Minn  
 Mayhew Steel Products Inc Sears St Shelburne Falls Mass  
 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

McCall's 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 Wis  
 McGraw-Edison Co 5201 W 65 St Chicago 36 Ill  
 McGuffie Co 4832 Ridge Rd Cleveland 9 Ohio  
 McKee Door Co 85 Hanks Ave Aurora Ill  
 McKeown Bros Co 5303 S Keeler Ave Chicago 32 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 R Inc 2 Kimball Elgin 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  
 Melink 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 6002 Lindbergh Hazelwood Mo  
 Mesker George L Steel Corp 400 NW First St Evansville 8 Ind  
 Metal Crafters E Ave at 18th NE PO Box 830 Cedar Rapids Iowa  
 Metal Trims Inc PO Box 632 Jackson 1 Miss  
 Metalbestos Div Wm Wallace Co PO Box 137 Belmont Cal  
 Metalvert Corp 4020 N Port Washington Rd Milwaukee 12 Wis  
 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 1300 S Washington Peoria Ill  
 Meyers Fred L Mfg Co 1176 Hooven Ave Hamilton Ohio  
 Miami Cabinet Div Phillip Carey Mfg 1700 Grand Ave Middletown Ohio  
 Miami Metal Weatherstrip Co 164 NW 20 St Miami Fla  
 Miami Window Corp PO Box 48-877 International Airport Branch Miami 48 Fla  
 Michel & Pfeffer Iron Works Inc 212 Shaw Rd S San Francisco Cal  
 Michigan Ladder Co 12 E Forest Ave Ypsilanti Mich  
 Midcontinent Adhesive Co 70 Sunshine Dr Grove City Ohio  
 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  
 Midwest Wholesale Hardware Co 189 E Miller Ave Akron 1 Ohio

Miles Specialties Inc 7100 E 15 Mile Rd Warren Mich  
 Miller Bros Co PO Box 546 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 Wis  
 Milwaukee Faucets Inc 4250 N 124 St Milwaukee 22 Wis  
 Milwaukee Plywood Co 1227 W Bruce St Milwaukee 4 Wis  
 Milwaukee Stamping Co Bathe-Rite Div 900 N Kilpatrick Ave Chicago 51 Ill  
 Milwaukee Tool & Equipment Co 2773 S 29 St Milwaukee 46 Wis  
 Minneapolis Honeywell Regulator 2753 S Fourth Ave Minneapolis 8 Minn  
 Minneapolis-Moline Co 130 Ninth Ave S Hopkins Minn  
 Minnesota Mining & Mfg Co 990 Bush Ave St Paul Minn  
 Minnesota Paints Inc 1101 Third St S Minneapolis Minn  
 Minwax Co Inc 11 W 42 St New York 36 NY  
 Miracle Adhesives Corp 250 Pettit Ave Bellmore LI NY  
 Miracle Hinge Co Monticello NY  
 Miraplas Tile Co 960 Parsons Ave Columbus 6 Ohio  
 Mirra-Cote Co Inc 140 Standard St El Segundo Cal  
 Mirro Chrome Co Inc 12 Fifth St Valley Stream NY  
 Mirro-Glo Cabinet Co 3131 W 49 Pl Chicago 32 Ill  
 Misceramic Tile PO Box 1070 Cleveland Miss  
 Mississippi Glass Co 88 Angelica St St Louis 7 Mo  
 Missoula White Pine Sash Co Scott & Stoddard Missoula Mont  
 Mitchel Rubber Prods Inc 2114 San Fernando Los Angeles 65 Cal  
 Mixermobile Manufacturers 8027 NE Killingsworth Portland 20 Ore  
 Mobile Paint Mfg Co PO Box 1686 Mobile Ala  
 Modern Specialties Co 4301 Ogden Ave Chicago 23 Ill  
 Modern Swimming Pool Co Inc 1 Holland Ave White Plains NY  
 Modernaire Corp 8400 Kinsman Rd Cleveland 4 Ohio  
 Modernwood Co PO Box 360 Clinton SC  
 Modine Mfg Co 1501 Dekoven Ave Racine Wis  
 Modular Mechanical Components Inc 94 E College St Hillsdale Mich  
 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 1100 20th St NW Washington DC  
 Molly Corp 504 Med Arts Bldg Reading Pa  
 Moloney Co 13125 Shaker Sq Cleveland 20 Ohio  
 Momar Industries 4176 Montrose Ave Chicago 41 Ill  
 Monarch Flooring Co Cuba Mo  
 Monarch Metal Weatherstrip Co 6333 Etzel Ave St Louis 33 Mo  
 Monarch Range Co 1510T Lake St Beaver Dam Wis  
 Mondial United Corp 625 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

Monsanto Chemical Co Plastics Div 100 Monsanto Ave Springfield Mass  
 Moore Goodloe E Inc 2811 N Vermilion St Danville Ill  
 Monsanto Chemical Co Organic Chemicals Div Lindbergh & Olive St Rd St Louis 66 Mo  
 Moore A E & Co Inc Waupaca Wis  
 Moore Benjamin & Co 511 Canal St New York 13 NY  
 Moore Business Forms Inc 900 Buffalo Ave Niagara Falls NY  
 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 Oshkosh Wis  
 Morgan Machine Co 1230 University Ave Rochester NY  
 Morgan-Wightman Co 9910 Page Blvd St Louis 66 Mo  
 Morgan Mfg Co 117 W Third St Yankton SD  
 Morrison Co 125 W Melvina St Milwaukee Wis  
 Morrison Steel Products Inc 601 Amherst St Buffalo 7 NY  
 Mortell J W Co 550 N Hobbie Ave Kankakee Ill  
 Morton Ceramic Tile Co Morton Ill  
 Mosaic Tile Co 1949 Pershing Ave Zanesville Ohio  
 Mosler Safe Co 320 Fifth Ave New York 1 NY  
 Mesley Electronics Inc 4610 N Lindbergh Blvd Bridgeton Mo  
 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  
 Mount Adams Shingle Co Randle Wash  
 Mt Baker Plywood Inc 2929 Roeder Ave Bellingham Wash  
 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 2905 W Oklahoma Box 401 Milwaukee 1 Wis  
 Mulkey Sam Co Box 270 Lee Summit Mo  
 Muller Machinery Co Inc PO Box 248 Metuchen 4 NJ  
 Multnomah Plywood Corp 1500 SW Harbor Dr Portland 1 Ore  
 Muncie Gear Co PO Box 1152 Muncie Ind  
 Murphy Precast Inc PO Box 254 Hillsdale Mich  
 Murray Hilton B 66 N Murray Pl York Pa  
 Murray Mfg Corp 1250 Atlantic Ave Brooklyn 16 NY  
 Murray Tile Co Inc Cloverport Ky  
 Music & Sound Inc 118 Leslie St Dallas Tex  
 Musical Corp 4512 W Jefferson Blvd Los Angeles 16 Cal  
 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 106-112 W Second St Austin 1 Tex  
 Natco Corp 327 Fifth Ave Pittsburgh 22 Pa  
 National Aluminum Co 1133 Alum Creek Dr Columbus Ohio

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 Electric Div H K Porter Co Inc Porter Bldg Pittsburgh 19 Pa  
 National Floor Prods Co Florence Ala  
 National Forest Prods Co Box 510 Jacksonville Tex  
 National Gas Equipment Co Inc Denison 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 Lock Co 1902 Seventh St Rockford Ill  
 National Mfg Co 1 First Ave Sterling Ill  
 National Mfg Corp 153 Fillmore Ave Tonawanda NY  
 National Metal-Art Mfg Co 1901 Eighth Ave Brooklyn 15 NY  
 National Metal Prods 2 Gateway Center Pittsburgh 22 Pa  
 National Plan Service Inc 1700 W Hubbard St Chicago 22 Ill  
 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 47 W Exchange St Akron 8 Ohio  
 National Steel Cabinet Co 2415 N Pulaski Rd Chicago 39 Ill  
 National Steve Co 163 Avenue A Bayonne NJ  
 National Tile & Mfg Co 1200 E 26 St Anderson Ind  
 National-US Radiator Corp 944 Ash St Johnstown Pa  
 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  
 Nells J Lumber Co Div St Regis Paper Co Libby Mont  
 Nelson B F Mfg Co 401 N E Main St Minneapolis 13 Minn  
 Nesbitt John J Inc State Rd & Rhawn St Philadelphia 26 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 1234 Broadway Buffalo NY  
 Nichols 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  
 Nixallite Co of America 1722-26 First Ave Rock Island Ill  
 Nordahl Sliding Door Frames 189 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  
 Norris Thermador Corp 5215 S Boyle Ave Los Angeles 58 Cal  
 North American Asbestos Corp 141 W Jackson Blvd Chicago 4 Ill  
 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 407 E Michigan Ave Milwaukee 2 Wisc  
 Northwest Door Co Sub 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 55 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 100 Tudor Rd Berrien Springs Mich  
 Nova Sales Co 1935 Harvey Rd Trenton NJ  
 Novo Pump & Engine Co 702 Porter St Lansing 5 Mich  
 Nudor Mfg Corp 7376 Fulton Ave N Hollywood Cal  
 Nurre Co Box 19 Bloomington Ind  
 Nusside 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 Products Co 5103 Lakeside Ave Cleveland 14 Ohio  
 O'Keefe & Merritt Co 3700 East Olympic Los Angeles 23 Cal  
 O'Kelly-Eccles Co 4846 N Azusa Canyon Rd Baldwin Park Cal  
 Okonite Co 220 Passaic St Passaic NJ  
 Ol' Settler Shake Co Oakville Wash  
 Oliver Corp 400 W Madison St Chicago Ill  
 Oliver Machinery Co 445 Sixth St NW Grand Rapids 2 Mich  
 Olivetti Corp of America 375 Park Ave New York NY  
 Olsen C A Mfg Co Filbert St Elyria Ohio  
 Olson Mfg Co 620-24 S Broadway Albert Lea Minn  
 Olympic Foundry Co 5200 Airport Way Seattle Wash  
 Olympic Stained Prods Co 1118 Leary Way Seattle 7 Wash  
 Omark Industries Inc 9701 S E McLoughlin Blvd Portland 22 Ore  
 Onan D W & Sons Inc 2515 Univ S E Minn 14 Minn  
 One-Der Frame Corp 1232 N 37 Pl Birmingham 3 Ala  
 Orangeburg Mfg Co Div Flintkote Co 375 Park Ave New York 22 NY  
 Orchard Bros Inc Alumaroll Products Co 83 Meadow Rd Rutherford NJ

Oregon Lumber Co Baker Ore  
 Oregon-Veneer Co PO Box 1364 Medford Ore  
 Oregon-Washington Plywood Co Garabaldi Ore  
 Oro Mfg Co 1425 E Michigan St Adrian Mich  
 Osage Prods Co Eldon Mo  
 Osmose Wood Preserving Co of America 990 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  
 Ottawa Steel Div Young Spring & Wire Corp 435 1/2 S Main St Ottawa Kan  
 Outdoor Oven Fireplace Co 859 Windsor St Hartford 1 Conn  
 Overhead Door Corp PRR & Kickapoo St Hartford City Ind  
 Owatonna Tool Co 341 Cedar St Owatonna Minn  
 Owensboro Sewer Pipe Co PO Box 276 Owensboro Ky  
 Owens-Corning Fiberglas Corp 603 Madison Ave Toledo Ohio  
 Owens-Illinois PO Box 1035 Toledo 1 Ohio  
 Oxford Tile Co Div of Universal Potteries Inc Cambridge Ohio  
 Ox-Wall Tool Co Ltd 928 Broadway New York 10 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 Mfg Co 2610 The Alameda Santa Clara Cal  
 Pacific Mercury Marketing Div PO Box 190 Van Nuys Cal  
 Pacific Mutual Door Co PO Box 1589 Washington Bldg Tacoma 1 Wash  
 Pacific Pre-cast Products Inc 1500 Calzona St Los Angeles 23 Cal  
 Pacific Tile & Porcelain Co 7716 E Alondra Blvd Paramount Cal  
 Paddock of California 8400 Santa Monica Los Angeles 46 Cal  
 Paine Co 501 Westgate Addison Ill  
 Paine Lumber Co Ltd PO Box 1403 Louisville Ky  
 Pak-Cel Inc 3 Malden St Natick Mass  
 Pal-O-Pak Insulation Co Inc Hartland Wisc  
 Palos Verdes Stone Dept Great Lakes Carbon Corp PO Box 1307 Walteria Cal  
 Panaview 13434 Raymer St N Hollywood Cal  
 Panelfab Products Inc 2000 N E 146 St N Miami Fla  
 Panelfold Doors Inc 1090 E 17 St Hialeah Fla  
 Panel Heat Inc 1395 Marconi Blvd Copiague NY  
 Paramount Aluminum Prod Corp Broad Hollow Rd Farmingdale LI NY  
 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 33 Copalis Beach Wash  
 Parkwood Laminates Inc 24 Water St Wakefield Mass  
 Parr Paint & Color Co 18400 Syracuse Ave Cleveland 10 Ohio  
 Pass & Seymour Inc Solvay Ave Syracuse NY  
 Patent Scaffolding Co 38-21 Twelfth St Long Island City NY  
 Patten J V Co 550 DeKalb Ave Sycamore Ill

- Patterson-Sargent Co 1325 E 38 St Cleveland 14 Ohio
- 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
- Peaslee-Gaubert Paint Varnish 223 N 15 St Louisville Ky
- Pecora Inc 300 W Sedgley Ave Philadelphia 40 Pa
- Peerless Corp 1853 Ludlow Indianapolis Ind
- 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 Pump Div Food Machinery Corp 301 West Avenue 26 Los Angeles 31 Cal
- Peerless-Wood Products 5942 McGraw Detroit Mich
- Pemko Mfg Co 5755 Landregan St Emeryville Cal
- Penberthy Manufacturing Co Box 211 Prophetstown Ill
- Penetrax 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 Boiler & Burner Mfg Corp Fruitville Rd Lancaster Pa
- Penn Controls Inc Goshen Ind
- Penn Crete Prods Co 4520 Tacony Sts Philadelphia 24 Pa
- Penn-Dixie Cement Corp 60 E 42 St New York 17 NY
- Penn Metal Co Inc 40 Central St Boston Mass
- Penn Supply & Metal Corp 1831 N Fifth St Philadelphia 22 Pa
- Pennsall 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 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
- Permagile Corp of America 3723 33rd St Long Island City NY
- Permanente Cement Co 1924 Broadway Oakland Cal
- Permitco Inc PO Box 206 Station A Dayton 3 Ohio
- Permutit Co Div Pfandler 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 Sheboygan Wis
- Peterson Prods Co 1015 N Bluff St Janesville Wis
- Peterson Window Corp 722 Livernoss 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 4129 N Point Washington Ave Milwaukee 12 Wis
- Philadelphia Screen Mfg Co Philadelphia 43 Pa
- Philco Corp Tioga & 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
- Pierson Ernest Co 4100 Broadway Eureka Cal
- Pioneer Div Flintkote Co Terminal Annex B 2218 Los Angeles 54 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
- Pioneer Saws Div Borg-Warner Corp Waukegan Ill
- 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
- Plasteo Inc PO Box 9123 Houston Tex
- Plasteel Products Corp PO Box 481 Washington Pa
- Plastergon 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
- Plaxtone Corp of America 2141 McCarter Hwy Newark NJ
- Plumb Fayette R Inc 4837 James St Philadelphia 37 Pa
- Plyco Corp 54 Lake St Elkhart Lake Wis
- Plyfloor Inc PO Box 158 Beaumont Miss
- Plymold Co 12025 Brandford St Sun Valley Cal
- Plywall Prods Co PO Box 625 Fort Wayne Ind
- Plywall Products Co Inc PO Box 837 Corona Cal
- Plywood Co Fulton St Sumter NC
- Plywood Service Inc PO Box 78 Dillard Ore
- Pointer-Willamette Co Inc PO Box 368 Edmonds Wash
- 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
- Footatuck 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 320 W 83 St Chicago 20 Ill
- Porter-Cable Machine Co 700 Marcellus St Syracuse 4 NY
- Powell W R Shake Co Box 882 Waldport Ore
- Power Door Co Monmouth Junction NJ
- Power Line Sales Inc 540 Monterey Pass Monterey Park Cal
- Powernail 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
- Praff & Lambert Inc 75 Tonawanda St Buffalo 7 NY
- Precision Paris Corp 400 N First St Nashville 7 Tenn
- Precision Weatherstrip Co 7300 University Ave Chicago 19 Ill
- Precisionware Inc 78 Livingston St Brooklyn NY
- Preco Inc 6300 E Slauson Ave Los Angeles 22 Cal
- Prefabricated Prods Co Inc PO Box 368 Kirkland Wash
- Premier Furnace Co Box 156 Dowagiac Mich
- Premier Hall Mfg Co 3951 W Fullerton Chicago 47 Ill
- Prescolite Berkeley Cal
- Presstite Div American-Marietta Co 39th & Chouteau Aves St Louis 10 Mo
- Prestile Mfg Co 5850 W Ogden Ave Chicago 50 Ill
- Freway Inc 1430 Second St N Wisconsin Rapids Wis
- Price Fire & Water Proofing Co Poughkeepsie NY
- 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
- Pre-Tect-U Jalousie Corp 4525 Ponce De Leon Coral Gables Fla
- 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
- Pullman Mfg Corp 325 Hollenbeck Rochester 21 NY
- Pullum Window Corp 12950 Lyndon Ave Detroit 27 Mich
- Pyle-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
- Quality Wood Prods Sitkum Route Myrtle Point Ore
- Quartz Mosaic Inc PO Box 36 Yorklyn Del
- Quifrez Inc 105 Oak Place Fond Du Lac Wis
- Quigley Co Inc 415 Madison Ave New York 17 NY
- Quincy Adams Colonial Doors 118 Maple St Manchester NH

## R

- R C A Service Co Div of R C A Camden 8 NJ
- R C S Tool Corp 227 E Front St Bloomington Ill
- R & H Guaranteed Products Co 3201 S Lombard Ave Cicero Ill
- R N H Shake Co Box 554 Forks Wash
- R O W Sales Co 1301-4 Academy Ave Ferndale Mich
- 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
- Ramsel 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
- Rawping 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 Devil Tools 2400 Vauxhall Rd Union NJ  
 Red Jacket Mfg Co P O Box 270 Davenport Iowa  
 Redwood Sales Co 235 Montgomery St San Francisco Cal  
 Reed Cromex Corp 15757 Euclid Ave Cleveland 12 Ohio  
 Reed Unit Fans Inc 501 N St Patrick St New Orleans 19 La  
 Reese Metal Weatherstrip Co 712 Park Ave Minneapolis Minn  
 Reeves Steel & Mfg Co Div Empire-Reeves Steel Corp 6 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 6720 Allentown Blvd Harrisburg Pa  
 Regulux Sash & Door Co 936 Bransten Rd San Carlos Cal  
 Reheo 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 316 Park Ave S New York 10 NY  
 Rempe Co 340 N Sacramento Chicago 12 Ill  
 Relton 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 49 Mich  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Republic Steel Corp Berger Div 1038 Belden Ave N E Canton 3 Ohio  
 Republic Steel Corp Truscon Div 1050 Albert St Youngstown 1 Ohio  
 Research Products Corp 1015 E Washington Madison 10 Wisc  
 Resolite Corp Zelenopie Pa  
 Reuten Fred Inc Closter NJ  
 Revo Inc Deerfield Mich  
 Revere Copper & Brass Inc 230 Park Ave New York 17 NY  
 Reynolds Aluminum Supply Co 573 W Peachtree Atlanta 3 Ga  
 Reynolds Metals Co West Broad St Richmond 18 Va  
 Reznor Mfg Co David St Mercer Pa  
 Rheem Mfg Co 7600 S Kedzie Ave Chicago 52 Ill  
 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  
 Richhill Mfg Co 3277 Spring Grove Cincinnati 25 Ohio  
 Richkraft Co 510 N Dearborn St Chicago 10 Ill  
 Richmond Fireproof Door Co Box 334 Richmond Ind  
 Richmond Plumbing Fixtures P O Box 111 Metuchen NJ  
 Ridge Door Co Monmouth Junction 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 Prods Inc First Natl Bank Bldg St Paul Minn  
 Rittenhouse Co Inc 88 East St Honeoye Falls NY  
 Rittling Corp 95 Kentucky St Buffalo NY  
 Robbins Floor Products Inc Tusculumbia 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  
 Robinson Brick & Tile Co 500 S Santa Fe Dr Denver 23 Colo  
 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  
 Rocco Products Inc 2916 Fourth Ave Minneapolis Minn  
 Roform Corp 15160 W 8-Mile Rd Detroit 35 Mich  
 Rock Island Millwork Co Factory Div Rock Island Ill  
 Rockaway Sales Co Rt 46 Rockaway 22 NJ  
 Rockcote 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 Sts Emmaus Pa  
 Roddis Plywood Corp 1155 Palmar Marshfield Wisc  
 Roddiscraft Inc Arcata Cal  
 Roe Justus & Sons 1 Roe Court Patchogue LI NY  
 Rohm & Haas Co Washington Sq Philadelphia 5 Pa  
 Roliscreen Co Main St Pella Iowa  
 Romar Filter Corp 120 W Melvina St Milwaukee 12 Wisc  
 Rome-Turney Radiator Co Canal St Rome NY  
 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 Jalousie 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 38 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 Windows Inc of Florida Box 1145 1090 E 16 St Hialeah Pa  
 Russell & Erwin Div American Hardware Corp 102 Washington St New Britain Conn  
 Russel F C Co Box 26 Columbiana Ohio  
 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 & Hdwe Co Second & Crystal Sts Lancaster Pa  
 Safetee 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 6228 W State St Milwaukee 13 Wisc  
 Sager Weatherstrip & Caulking 2050 W 39 St Chicago 36 Ill  
 Saginaw Shingle Co Box 512 Aberdeen Wash  
 St Charles Mfg Co Tyler Rd St Charles Ill  
 Saint Paul Corrugating Co S End Wabasha St Bridge St Paul 7 Minn  
 St Paul & Tacoma Lumber Co 1220 St Paul Ave Tacoma Wash  
 St Regis Paper Co Panelite Div 150 East 42 St New York 17 NY  
 Samcoe Wm J Iron Co 917 Military Rd Kenmore 17 NY  
 Samson Cordage Works 470 Atlantic Ave Boston 10 Mass  
 Samuel Stamping & Enameling Co Chattanooga Tenn  
 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 4610 S Main St Los Angeles Cal  
 Santa Anita Mfg Co 4961 Double Drive Temple City Cal  
 San-Tex Stone Quarry Inc 4130 Broadway San Antonio Tex  
 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  
 Sasgen 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  
 Schaik Chemical Co 351 E Second St Los Angeles 12 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  
 Schwerd A F Mfg Co 3215 McClure Ave Pittsburgh 12 Pa  
 Screens & Fabric Metals Corp 34th St & Plank Rd N Bergen NJ  
 Serew & 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  
 Seal-All Clip Co 4376 W Pasadena Ave Flint Mich  
 Seal Rite Caulking Co 369 Midland Ave Highland Park 3 Mich  
 Sealrite Insulation Mfg Corp 115 Madison St Waukesha 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  
 Sedgwick Machine Works 80 Eighth Ave New York 11 NY  
 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  
 Selfridge Co 5606 Euclid Ave Cleveland Ohio  
 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 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 Kinsman Rd Cleveland 22 Ohio  
 Sharon Hardware Mfg Co PO Box 670 Sharon Pa  
 Sharon Steel Corp Sharon Pa  
 Shawnee Mfg Co Dept of Parsons Co Div Koehring Co 1947 N Topeka Topeka Kan  
 Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio  
 Sheffield Div Arco 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 Corp 460 Park Ave New York 22 NY  
 Shepard Niles Crane & Hoist Corp 410 Schuyler Ave Montour Falls NY  
 Shepard Elevator Co Div Dover Corp 5000 Brotherton Rd Cincinnati 9 Ohio  
 Shepler Mfg Co Box 10405 Pittsburgh 34 Pa  
 Sheridan Press Brick & Tile Co Box 732 Sheridan Wyo  
 Sherle-Wagner 123 E 57 St New York NY  
 Sherman Prods Inc 3200 W 14 Mile Rd Royal Oak Mich  
 Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio  
 Shirley Corp 330 East St Joseph Indianapolis 2 Ind  
 Silver Bells Ltd PO Box 982 Carmel Cal  
 Silvercote Prods Inc 161 E Erie Chicago 11  
 Silvray Lighting Inc 100 West Main St Bound Brook NJ  
 Simmonds Abrasive Co Tacony & Fraley St Philadelphia Pa  
 Simonds Saw & Steel Co 470 Main St Fitchburg Mass  
 Simplex Forms System Inc 5605 Industrial Ave Rockford Ill  
 Simplex Level Co PO Box 215 Hanover Mich  
 Simpson Logging Co Shelton Wash  
 Simpson Mark Mfg Co Inc 32-28 49th St LIC 3 NY  
 Simpson Redwood Co Arcata Cal  
 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 6585 W Warren Ave Detroit Mich  
 Slidewall Co 51 W Wacker Dr Chicago Ill  
 Signal Electric Div Klip-Seeley 1821 13th St Menominee Mich  
 Signode Steel Strapping Co 2600 N Western Ave Dept 113 ABD Chicago 47 Ill  
 Silka 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  
 Silicones Div Union Carbide 30 E 42 St New York 17 NY

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 Master Glass Door & Window PO Box 2006 Van Nuys Cal  
 Slide-View Door Co 1547 N Tyler Ave El Monte Cal  
 Sloan L J Scaffold Bracket Co PO Box 6399 Minneapolis 23 Minn  
 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 701 E Washington Syracuse 1 NY  
 Smith H B Co Westfield Mass  
 Smith J Lee & Co Inc PO Box 185 North Brunswick NJ  
 Smith & Loveless Inc PO Box 8884 Kansas City 15 Mo  
 Smith M R Shingle Co Box 2067 Seattle 11 Wash  
 Smith Seymour & Son Oakville Conn  
 Smith T L Co 2835 N 32 St Milwaukee Wisc  
 Smith W T Lumber Co Chapman Ala  
 Smith Hoist Mfg Co PO Box 205 Cassopolis 6 Mich  
 Smoot-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 Metalcraft Corp 315 Poston Drive Crawfordsville Ind  
 Sonneborn L Sons Inc 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  
 Soule Steel Co 1750 Army St San Francisco Cal  
 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 Plywood 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 787 United Nations Plaza New York NY  
 Spanjers A J Co 6351 N Lilac Drive Minneapolis Minn  
 Sparian Steel Products Corp 1230 Oak Point Ave Bronx NY  
 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 Locoming Div-Avco 652 Oliver St Williamsport Pa  
 Spokane Sash & Door Co PO Box 63 Spokane Wash  
 Spotnails Inc 1527 Lyons Evanston Ill  
 Sprayon Equipment Co 18055 James Couzen Detroit 35 Mich

Square D Co 6060 Rivard Detroit 11 Mich  
 Stahl Metal Prods 3490 W 140 St Cleveland Ohio  
 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 Lime & Cement Co First National Bank Bldg Baltimore 3 Md  
 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-Toch 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 Tools 111 Elm St New Britain Conn  
 Stanley Works New Britain Conn  
 Stanscrew 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  
 Starfire Div Bettinger Corp Sumner St Milford Mass  
 Starline Inc 306 W Front St Harvard Ill  
 Starrett L S Co 101 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 4020 N Port Washington Ave Milwaukee 12 Wisc  
 Stay-Tite Products Co 9400 Steinway Ave Cleveland 4 Ohio  
 Steelbilt Inc 18001 S Figueroa St Gardena Cal  
 Steel Corner Tape Corp 121-07 133rd St Ozone Park Li NY  
 Steel Partitions Inc PO Box 807 Jamestown NY  
 Steel Scaffolding Co Uniontown Pa  
 Steelcote Mfg Co 3418 Gratiot St St Louis 3 Mo  
 Steelcraft Mfg Co 9017 Blue Ash Rd Cincinnati 42 Ohio  
 Stephens-Adams Mfg Co 274 Ridgeway Ave Aurora Ill  
 Sterling Alderfer Co 3850 Granger Rd Akron 13 Ohio  
 Sterling Awning Co Bldg Materials Div PO Box 245 Belpre Ohio  
 Sterling Faucet Co Morgantown W Va  
 Sterling John Corp Richmond Ill  
 Sterling Precision Plastics Div 103 Park Ave New York 17 NY  
 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 12 La  
 Stewart-Warner Corp Heating & Air Conditioning Div Lebanon Ind  
 Stiefel Earl E 129 W Water St Kerrville Tex  
 Stiglitz Corp 2007 Portland Ave Louisville Ky  
 Stic-Klip Mfg Co Inc 50 Regent St Cambridge Mass  
 Stillwater Clay Products Co 20900 Center Ridge Rd Cleveland 16 Ohio  
 Stoneco Electric Prods Co 333 Monroe Ave Kenilworth NJ

Stone Creek Brick Co Stone Creek Ohio  
 Stone Machinery Co 316 Fayette St Manlius NY  
 Stone Products Co PO Box 58 Reno Nev  
 Storm King Corp 1010 N Fourth St Miamilburg Ohio  
 Stertz John & Son Inc 210 Vine St Philadelphia 6 Pa  
 Steve Works Inc 131 S Union St Middletown Pa  
 Stow Mfg Co 272 Shear St Binghamton NY  
 Strait & Richards Inc 23-43 Selvaige St Newark 8 NJ  
 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 4387 W 35 St Cleveland 9 Ohio  
 Structural Products Div National Starch & Chemical Corp 750 Third Ave New York 17 NY  
 Studebaker-Packard Corp South Bend Ind  
 Sturdilite Products Inc 2501 Peterson Ave Chicago 45 Ill  
 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 8354 San Fernando Sun Valley Cal  
 Sun Valley Industries 4528 W 51 St Chicago 32 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  
 Superflame Queen Prods Div King Seeley Corp 505 Front Albert Lea Minn  
 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 Hialeah 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  
 Surface Protection Co Inc 16799 Euclid Ave Cleveland 12 Ohio  
 Swanson Mfg Co 607 S Washington Owosso 1 Mich  
 Swartwout Co 18511 Euclid Ave Cleveland 12 Ohio  
 Swift Business Machines Corp 51 Church Great Barrington Mass

Swiveller Co Inc Nanuet NY  
 Sylvania Elec Prods Inc One 48th St Wheeling W Va  
 Symons Clamp & Mfg Co 4261 Diversey Ave Chicago 39 Ill  
 Syntron Co 618 Lexington Ave Homer City Pa  
 Syrral Mfg Co 511 N State St Syracuse NY  
 Syro Steel Co 1170 N State St Girard O

## T

Taber Bushnell Inc 395 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 1512 S Pulaski Rd Chicago 23 Ill  
 Talk-A-Radio Mfg Co Box 11727 Dallas 18 Tex  
 Tamblyn Systems 1260 West Oxford Englewood Cal  
 Tamms Industries Co 228 N LaSalle St Chicago 1 Ill  
 Tappan Co 250 Wayne St Mansfield Ohio  
 Tavant Co PO Box 187 Paramount Cal  
 Taylor Bedding Mfg Co INS-Cotton Div Taylor Tex  
 Taylor Garage Doors Inc 19800 Fitzpatrick Detroit 28 Mich  
 Taylor Halsey W Co 1259 N Park Ave Warren Ohio  
 Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa  
 Techbuilt Inc 127 Mt Auburn St Cambridge Mass  
 Tectum Corp 535 E Broad St Columbus O  
 Tedrick Bros Mfg Co Inc Box 167 Kent Wash  
 Tel-O-Post Co Pymatuning St Linesville Pa  
 Temco Inc 4101 Charlotte Ave Nashville 9 Tenn  
 Temperature Appliance Mfg Co Box 281 Sebastopol Cal  
 Tennant G H Co 721 North Lilac Dr Minneapolis 22 Minn  
 Tennessee Coal & Iron Div US Steel PO Box 599 Fairfield Ala  
 Tennessee Fabricating Co 1490 Grimes St Memphis Tenn  
 Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn  
 Tennessee Stove Works 14th & Holtzclaw Chattanooga Tenn  
 Tennon Bros Inc 450 N Bellevue Memphis 4 Tenn  
 Tex-A-Panel Mfg Co 10848 Harry Hines Dallas Tex  
 Texas Brick Co PO Box 510 Brownwood Tex  
 Texas Quarries Inc PO Box 91 Austin Tex  
 Texas Vermiculite Co PO Box 6306 Dallas 22 Tex  
 Texas Vitrifed 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 39 James St Girard Ohio  
 Thatcher Furnace Co Center St Garwood NJ  
 Thermador Elec Mfg Co 5119 District Blvd Los Angeles 22 Cal  
 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 Stribley Rd Kaukauna Wisc  
 Thomas Industries Inc 410 S Third St Louisville 2 Ky  
 Thomas Industries Inc Electric Sprayit Div 1415 Illinois Ave Sheboygan Wisc  
 Thomas Moulding Floor Co Inc 325 West Huron St Chicago 10 Ill  
 Thomason Plywood Corp PO Box 352 Fayetteville NC

Thompson E A Co Inc Western Merchandise Mart San Francisco 3 Cal  
 Thomson Oak Flooring Co Old Warrenton Rd Thomson Ga  
 Thor Power Tool Co State & Claim Sts Aurora Ill  
 Thorland Automatic Fire Alarms Co 1463 Greenwood Ave San Carlos Cal  
 Three Centuries 202 E 56 St New York 22 NY  
 Three Rivers Plywood & Timber Darrington Wash  
 Thrusch H A & Co Peru Ind  
 Tibbals Flooring Co PO Box 218 Oneida Tenn  
 Tiffany Mfg Co Inc 3640 NW 41 St Miami Fla  
 Tiger Brands Div Basic Inc 845 Hanna Bldg Cleveland 15 Ohio  
 Tilemaster Corp 4400 N Harlem Ave Chicago 31 Ill  
 Tile-Rite Co 4105 Harvard Ave Cleveland 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 417 Perry Fla  
 Timber Fasteners Inc 1485 Bayshore Blvd San Francisco Cal  
 Timber Products Co PO Box 1032 Medford Ore  
 Timber Structures Inc 3400 N W Yeon Ave Portland Ore  
 Tim-Plate Inc PO Box 331 Perry Fla  
 Tinnerman Products Inc Dept 16 PO Box 6688 Cleveland 1 Ohio  
 Titus Mfg Corp Highway 20 W Waterloo Iowa  
 Toastmaster Div McGraw Edison Elgin Ill  
 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 Minneapolis 6 Minn  
 Touch Plate Mfg Corp PO Box 1970 Long Beach 1 Cal  
 Tractomotive Corp Deerfield Ill  
 Tracy-American Kitchens 3125 Preble Ave Pittsburgh 33 Pa  
 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 Cleveland 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  
 Trimeo Metal Products 6304 Olive St Rd St Louis 30 Mo  
 Trim Slide Inc Fulton & Potter St Farmingdale LI NY  
 Trimview Metal Products 600 N Third St Covina Cal  
 Trion Inc 1000 Island Ave McKees Rock Pa  
 Triplett Lumber Co Inc Box 1764 Charlotte 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  
Tru-Line Co 707 Locust St Des Moines  
Iowa  
Truscon Labs Inc Grand Trunk RR Detroit  
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  
Tuferete 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  
Turner Corp 821 Park Ave Sycamore Ill  
Turner Mfg Co PO Box 987 Salisbury Rd  
Statesville NC  
Twentieth Century Paint & Varnish 456  
Driggs Ave Brooklyn 11 NY  
Tye Lumber Mfg Co 765 Myrtle Ave  
Seattle Wash  
Tyler Arthur F Co 167 Haggood St Athol  
Mass  
Typhoon Air Conditioning Co Div Hupp  
Corp 505 Carroll St Brooklyn 15 NY  
Typhoon Heat Pump Co Div Hupp Corp  
200 Garcia Ave Tampa Fla

## U

Uhrden Inc 508 Grant St Dennison O  
Ultra-Fane 19220 Miles Ave Cleveland  
28 Ohio  
Underwood Corp 1 Park Ave New York  
16 NY  
Uni-Crest Div United Cork Foot of Central  
Ave Kearney NJ  
Uniflow Mfg Co 1525 E Lake Rd Erie Pa  
Unique Window Balance Corp 4 Taft St  
South Norwalk Conn  
Union Asbestos & Rubber Co 2900 W Vermont  
Blue Island Ill  
Union Carbide Plastics Co Div Union  
Carbide Corp 30 E 42nd St New York  
NY  
Union Machine Co 708 Colfax Ave Kenilworth  
NJ  
Union Tool Co 48 E River St Orange  
Mass  
Union Twist Drill Co 70 Monroe St Athol  
Mass  
Unique Balance 375 E 30th St Dubuque  
Iowa  
Unistrut Prods Co 933 Washington Blvd  
Chicago 7 Ill  
Unit Crane & Shovel Corp 6411 W Burnham  
St Milwaukee 19 Wis  
Unit Structures Inc Peshtigo Wis  
United Brick & Tile Co 2800 McGee Trafficway  
Kansas City 41 Mo  
United Gilsonite Laboratories 1396 Jefferson  
Ave Scranton 1 Pa  
United Industries Inc 231 S LaSalle Chicago  
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 10551 Anderson  
Pl 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 Plywood  
Operations PO Box 11 Eureka Cal  
United States Plywood Corp 55 W 44 St  
New York 36 NY  
U S Protective Coatings Inc 1308 Court  
Sq Bldg Baltimore 2 Md

United States Register Co 344 E Burnham  
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  
United Wallpaper Co 3101 S Kedzie Ave  
Chicago 23 Ill  
Universal Atlas Cement Div US Steel  
Corp 100 Park Ave New York 17 NY  
Universal Blower Co 1090 S Adams Ave  
Birmingham Mich  
Universal Fabricators 1785 1829 Boone  
Ave New York 60 NY  
Universal Form Clamp Co 1238 N Kostner  
Ave Chicago 51 Ill  
Universal Mfg Co 3333 Eastshore Hwy  
Richmond Cal  
Universal Mfg Corp W New Castle  
Zelenople Pa  
Universal Motor Co 517 Universal Dr  
Oshkosh Wis  
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  
Upson Co Stevens St Lockport NY  
Utica Radiator Corp 2201 Dwyer Ave  
Utica 2 NY  
Utility Appliance Corp 4851 S Alameda  
St Los Angeles 58 Cal  
Utility Body Co 1530 Wood St Oakland  
7 Cal

## V

Valley Metal Products 222 Young St Mar-  
scilles Ill  
Valley Metal Prods Co Bridge St Plain-  
well Mich  
Valspar Corp 7 E Lancaster Ave Ard-  
more Pa  
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  
Verneo 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 PO Box 509  
Elizabeth 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 Wis  
Viriden John C Co 6009-6103 Longfellow  
Cleveland Ohio  
Virginia Glass Products Corp Martins-  
dale 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  
Vitro Mfg Co Div Vitro Corp of America  
60 Greenway Dr Pittsburgh 4 Pa  
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 5425 Blossom Houston  
Tex  
Wabash Screen Door Co 310 S Michigan  
Ave Chicago 4 Ill  
Waco Transwall Folding Partition Div  
Waco Mfg Co 3565 Wooddale Ave Min-  
neapolis 16 Minn  
Wadsworth Howland & Co 80 Bedford  
St Boston Mass  
Wadsworth Millwork Corp 416 Main St  
Wadsworth Ohio  
Wagner Iron Works 1905 S First St Mil-  
waukee 1 Wis  
Wagner Mfg Co 122 W First St Cedar  
Falls Iowa  
Wahlstrom Bros Inc Natl Div 273 W Ala-  
meda Ave Burbank Cal  
Wakefield Co Vermilion 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 Kan-  
sas City Mo  
Wallboard Tool & Equipment Co 1708  
Seabright Ave Long Beach Cal  
Walton Laboratories Inc Irvington 11 NJ  
Walters Mfg Co 140 Pennsylvania Alle-  
gheny City Oakmont Pa  
Ware Laboratories 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 Cam-  
bridge 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 1640 20th St Santa  
Monica Cal  
Water-Boss PO Box 501 Herndon Va  
Waterfilm Boilers 154 Ogden Ave Jersey  
City NJ  
Waterloo Register Co Inc Waterloo Iowa  
Watsontown Brick Co Watsontown Pa  
Waukesha Motor Co St Paul Ave Wau-  
kesha Wis  
Waylite Co 20 N Wacker Dr Chicago 6 Ill  
Wayne Chemical Prods Co Copeland &  
MCRR Detroit 17 Mich  
Wayne Home Equipment Co Inc 801  
Glasgow Ave Fort Wayne 4 Ind  
Weather Seal Inc 324 Wooster Rd Bar-  
berton Ohio  
Weatherbest Corp 986 Oliver St N Tona-  
wanda NY

Weather-Bloc Co Inc 3718 N Southport Ave Chicago 13 Ill  
Weatherproof Products Corp Waldo Station Box 8498 Kansas City 14 Mo  
Webb Industries Inc Bay Village Ohio  
Webb Mfg Co Inc 211 E Main Rd Conneaut Ohio  
Weber Showase & Fixture Co PO Box 11065 Kearney Station Los Angeles 11 Cal  
Weber Showase & Fixture Co Inc 1340 Monroe Ave NW Grand Rapids Mich  
Weber Veneer & Plywood Co Shawano Wisc  
Webster H E Lumber Co 1416 City National Bank Bldg Kansas City 6 Mo  
Webster Electric Co 1900 Clark St Racine Wisc  
Webster Warren & Co 17th & Federal Sts Camden 5 NJ  
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  
Weiss Henry Mfg Co 941 Oak St Elkhart Ind  
Weiser Co 4100 Ardmore Ave South Gate Cal  
Weiskittel Co Inc 4901 Pulaski Hwy Baltimore 24 Md  
Weismuller Johnny Cinema Pools 1314 Clay St Oakland Cal  
Wel-Bilt Products Co 917 Farnsworth Bldg Memphis 1 Tenn  
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  
Wen Products Inc 5806 N W Hwy Chicago 31 Ill  
Wenzel Tile Co Klagg Ave Trenton NJ  
Werner Canvas Prods Co 110 New York Ave Brooklyn 16 NY  
Werner B D Co Inc Greenville Pa  
West Electric Heater Co 390 First St San Francisco Cal  
Wessels Co 1625 E Euclid Ave Detroit 11 Mich  
West Allis Concrete Prods Co 8704 W Schlinger Milwaukee Wisc  
West Beatrice Color Inc 184 E 72 St New York 21 NY  
West Coast Plywood Co PO Box 1180 Aberdeen Wash  
West Virginia Brick Co PO Box 1071 Charleston W Va  
West Wind Corp 1800 Airport Way Seattle 4 Wash  
Western Door & Plywood Corp 1835 N W 17 St Portland 4 Ore  
Western Lock Mfg Co 2075 Beigrave Huntington Pk Cal  
Western Metal Specialty Co 1211 N 62 St Milwaukee 13 Wisc  
Western Pine Mfg Co 315 E Jackson St Spokane 7 Wash  
Western States Stone Co PO Box 312 Santa Clara Cal  
Westinghouse Electric Appliance Div 246 E Fourth St Mansfield Ohio  
Westinghouse Electric Corp PO Box 868 Pittsburgh Pa  
Weyerhaeuser Co Silvatek Div Tacoma Bldg Tacoma 1 Wash  
Weyerhaeuser Co Lumber & Plywood Div First Natl Bank Bldg St Paul 1 Minn  
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 David Instrument Co 2051 N 19 St Milwaukee 5 Wisc  
White Motor Co 842 E 79 St Cleveland 1 Ohio  
White Pine Sash Co E 4065 Broadway Spokane Wash  
White Products Corp 98 E Main St Middleville Mich

White-Rodgers Co 1209 Cass Ave St Louis 6 Mo  
Whiteman Mfg Co 13020 Pierce Ave Pacoima 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 R & 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  
Williamina Clay Prods Co PO Box 6383 Tigard 23 Ore  
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 & Voris Hardwood Co Jackson Miss  
Williamson Co 3500 Madison Rd Cincinnati 9 Ohio  
Willys Motors Inc 940 N Cove Blvd Toledo 1 Ohio  
Wilson Grant Inc 141 W Jackson Blvd Chicago 4 Ill  
Wilson J G Corp PO Box 599 Norfolk 1 Va  
Wincharger Corp East Seventh & Division Sts Sioux City Iowa  
Winco Ventilator Co 533 Bittner St St Louis 15 Mo  
Windalume Corp Rt 46 Kenvil NJ  
Windowmaster Corp 6600 N W 32 Ave Miami 47 Fla  
Winfield Door Corp PO Lindenhurst LI NY  
Winpower Mfg Co 1225 First Ave Newton Iowa  
Winsulte 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  
Wiss J & Sons Co 33 Littleton Ave Newark 7 NJ  
Witt Cornice Co 4454 Steel Pl Cincinnati 9 Ohio  
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  
Wolverine Porcelain Enameling Co 3350 Scotten Ave Detroit 10 Mich  
Wolverine Tube 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 1680 N Eleventh St San Jose 12 Cal  
Woodside Engineering Co 9208 Grand Ave Franklin Pk Ill  
Woodville Lime Products Co 2140 Jefferson Ave Toledo 2 Ohio  
Woodward Lee L Sons 317 Elm St Owosso Mich  
Woodward Lumber Co Joseph Vance Bldg Seattle 1 Wash  
Woolery Stone Co Inc PO Box 46 Bloomington Ind  
Wooster Brush Co 604 Madison Ave Wooster Ohio  
Wooster Products Inc Spruce St Wooster Ohio  
Wooster Sealkote Co Wooster Ohio  
Worthington Corp Harrison NJ  
Wright Power Saw & Tool Corp Sub Thomas Industries 410 S Third St Louisville Ky  
Wright Prods Inc St Paul Park Minn  
Wright Mastie Tile Div Rubberoid Co 5200 Post Oak Rd Houston Tex  
Wurdack 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 11090 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 Melbourne Park Ill  
Yoder Mfg Co 1823 E 17 St Little Rock Ark  
York Corp Sub Borg-Warner Grantley Rd York Pa  
York-Shipley Inc Jemop & 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  
Youngstown Mfg Inc 60-66 S Prospect Youngstown Ohio  
Youngstown 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  
ZonoBite 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 Plumbing Products Div 1881 Pittsburgh Ave Erie Pa

**Building products and equipment are presented here, alphabetically. The manufacturers who make them are listed under each product heading. For complete address of any manufacturer, turn to Section 2.**

## Abrasive Paper & Cloth

Abrasive Products Inc  
Bay State Abrasive Products Co  
Behr-Manning Co  
Carborundum Co  
DeWalt Div AMF  
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

Cupples Products Corp

## Acoustical Materials (See also Plaster, Acoustical)

Armstrong Cork Co  
Baldwin-Ehret-Hill Inc  
Bestwall Gypsum Co  
Celotex Corp  
Cemex of Arizona  
Cupples Products Corp  
Curtiss Wright Corp Curon Div  
E G Building Fasteners Corp  
Eastern Machine Products Co  
Erdle 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  
Kearby & Mattison Co  
Lockport Mills Inc  
Mastro Plastics Corp  
National Aluminum Co  
National Gypsum Co  
Owens-Corning Fiberglas Corp  
Pioneer Div Flintkote Co  
Reynolds Aluminum Supply Co  
Reynolds Metals Co  
Rigidized Metals Corp  
Simpson Logging Co  
Taylor Bedding Mfg Co INS-Cotton Div  
Tectum Corp  
Texas Vermiculite Co  
Tiger Brands Div Basic Inc  
United States Gypsum Co  
U S Mineral Wool Co  
Wood Conversion Co  
Zonolite Co

## Adhesives

Abestos Manufacturing Co  
Aetna Plywood & Veneer Co  
AFCO Corp  
Allied Chemical Corp Barrett Div  
Ambroid Co  
American Blitrite Rubber Co  
American Bitumuls & Asphalt Co  
American Sta-Dri Co  
Armstrong Cork Co  
Asphalt Corp of America  
Azrock Floor Products Div  
Barclay Mfg Co Inc  
Biddle Co  
Eird & Son Inc  
Bonafide Mills Inc  
Borden Chemical Co Div Borden Co  
Bruce E L Co  
Cabot Samuel Inc  
Cambridge Tile Mfg Co  
Camp Co Inc  
Carey Philip Mfg Co  
Congoleum-Nairn Inc  
Consoweld Corp  
Crown Tile Corp  
Dad & Lad Co  
Dasco Co Inc  
Devices Div of Miracle Adhesives Corp  
Dodge Cork Co Inc  
Dupont de Nemours & Co Inc E I  
Elastizell Corp of America  
Fiberboard Paper Products Inc  
Findley F G Co  
Flexrock Co  
Flintkote Co  
Formica Corp  
Fuller H B Co  
Gen Tire & Rub Co Bldg Materials Div  
Goodrich B F Co Flooring Products  
Goodrich B F Industrial Products Co  
Hachmeister-Inc  
Harbor Plywood Corp  
Hayes Adhesives Co Inc  
Henry W W Co  
Higgins Industries Inc  
Insulite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Kaiser Mfg Inc  
Kentile Inc  
Kochton Plywood & Veneer Co Inc  
Koppers Co Inc  
LePage's Inc  
Loxit Systems Inc  
Lux Co Inc  
Madison Glue Corp  
Marsh Wall Products Inc  
Marvan Corp  
Mastic Tile Div Ruberoid Co  
Midcontinent Adhesive Co  
Midwest Plywood Co  
Milwaukee Plywood Co  
Minnesota Mining & Mfg Co  
Miracle Adhesives Corp  
Miraplas Tile Co

Monsanto Chemical Co Plastics Div  
Moore Goodloe E Inc  
Mortell J W Co  
National Casein Co  
Nicholson & Co  
Pecora Inc  
Pioneer Div Flintkote Co  
Pittsburgh Plate Glass Co  
Plastic Products Co  
Plymold Co  
Prestite Mfg Co  
Roddie Plywood Corp  
Ruberoid Co  
St Regis Paper Co Panelite Div  
Schalk Chemical Co  
Selck Walter E & Co  
Sheffield Bronze Paint Corp  
Silvercote Products Inc  
Sonneborn L Sons Inc  
Standard Paste & Glue Co Inc  
Stay-Tite Products Co  
Steelcote Manufacturing Co  
Structural Prods Div Natl Starch & Chem  
Tamm Industries Co  
Tex-A-Panel Mfg Co  
Thomas Moulding Floor Co Inc  
Tilemaster Corp  
Tufcrete Co Inc  
United States Gypsum Co  
United States Plywood Corp  
United States Rubber Co  
United Wallpaper Co  
Wallace Mfg Co  
Wasco Products Inc  
Wright Mastic Tile Div Ruberoid Co  
Wurdack Chemical Co  
X-Pando Corp

## Aggregates For Roofing (See Roofing, Aggregates For)

## Aggregates, Lightweight

Carter-Waters Corp  
Dodson Mfg Co Inc  
Graybeal C R & Sons  
Great Lakes Carbon Corp Perlite Dept  
Johns-Manville Corp  
Norton Co  
Texas Vermiculite Co  
Tiger Brands Div Basic Inc  
Vermiculite-Northwest Inc  
Waylite Co  
Zonolite Co

## Air Cleaners (See also Dehumidifiers)

American Air Filter Co  
Ductless Hood Co Inc  
General Cable Corp

Lennox 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

C & H Electric Machine Co  
 Carrier Corp  
 Chicago Pneumatic Tool Co  
 Dayton Electric Mfg Co  
 Devilbiss Co  
 Gardner-Denver Co  
 George F C Machine 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 Ind Inc Electric Sprayit Div  
 United States Air Compressor Co  
 Worthington Corp

### Air Conditioners, Baseboard

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

### Air Conditioners, Central Systems

Acme Industries Inc  
 Airtemp Div Chrysler Corp  
 Amana Refrigeration Inc  
 American Furnace Co  
 American Radiator & Standard Sanitary  
 American Standard Air Conditioning Div  
 American Standard American Blower Div  
 Amer-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 Boiler Corp  
 Burnham Corp Warm Air & Cooling Div  
 Carrier Corp  
 Chattanooga Royal Co  
 Clarage Fan Co  
 Coleman Co Inc  
 Comfort Products Inc  
 Coolerator McGraw-Edison  
 Crane Co  
 Day & Night Mfg Co  
 Delco Appliance Div General Motors  
 Dowagiac Steel Furnace Co  
 Drayson-Hanson Div Natl U S Rad Corp  
 Dunham-Bush Inc  
 Embassy Steel Prods Inc  
 Gaffers & Sattler  
 General Air Conditioning Corp  
 General Automatic Products Corp  
 General Elec Co Air Conditioning Dept  
 Gen Elec Co Appliance & Television Div  
 Gilbert & Barker Mfg Co  
 Great Northern Mfg Corp  
 Halstead & Mitchell  
 Hell-Quaker Corp  
 Henry Furnace Co  
 Holly-General Co Div Siegler Corp  
 Janitrol Heating & Air Conditioning Div  
 Johnson S T Co  
 Lennox Industries Inc  
 Majestic Co Inc  
 Master Mechanic Mfg Co  
 Mathes Co Div Glen Alden Corp  
 Mayflower Air-Conditioners Inc

McQuay Inc  
 Meyer Furnace Co  
 Modine Mfg Co  
 Morrison Steel Products Inc  
 Mueller Climatrol Div Worthington Corp  
 Muncie Gear Co  
 National Gas Equipment Co Inc  
 National-U S Radiator Corp  
 Niagara Furnace Div Forest City Fdy Co  
 Olsen C A Mfg Co  
 Patten J V Co  
 Payne Co  
 Peerless Corp  
 Penn Boiler & Burner Mfg Corp  
 Perfection Industries Div Hupp Corp  
 Philco Corp  
 Pioneer Manufacturing Co  
 Premier Furnace Co  
 Radiation Furnace Corp  
 Reflectotherm Inc  
 Remington Air Conditioning Div  
 Rempe Co  
 Rheem Mfg Co  
 Roberts Gordon Appliance Corp  
 Rybolt Heater Co  
 Sequia Manufacturing Co  
 Smith A O Corp Permaglas Div  
 Stewart-Warner Corp Htg & Air Con Div  
 Stratton Terstegge Co  
 Thatcher Furnace Co  
 Toridheet Div Cleveland Steel Prod Corp  
 Trane Co  
 Typhoon Air Cond Co Div Hupp Corp  
 United States Air Conditioning Corp  
 Viking Mfg Corp  
 Webster Warren & Co  
 Well-McLain Co  
 Westinghouse Electric Corp  
 Whirlpool Corp  
 Williams Oil-O-Matic Heating Co Div  
 Williamson Co  
 Wood John Co Heater & Tank Div  
 Worthington Corp  
 York Corp Sub Borg-Warner  
 Young Radiator Co  
 Zink John Co

### Air Conditioners, Room Units

Admiral Corp  
 Airtemp Div Chrysler Corp  
 Amana Refrigeration Inc  
 American Coils Co  
 American Radiator & Standard Sanitary  
 Barkow Aug G Mfg Co Inc  
 Brown Prods Co  
 Burnham Corp Warm Air & Cooling Div  
 Carrier Corp  
 Coolerator McGraw-Edison  
 Delco Appliance Div General Motors  
 Drayson-Hanson Div Natl U S Rad Corp  
 Emerson Electric Mfg Co  
 Emerson Radio & Phone Corp  
 Frigidaire Div General Motors Corp  
 Gen Elec Co Appliance & Television Div  
 Gibson Refrigerator Co Div Hupp Corp  
 Hotpoint Div  
 Kelvinator Div American Motors Co  
 King Refrigerator Corp  
 Kritzer Radiant Coils Inc  
 Mathes Co Div Glen Alden Corp  
 McQuay Inc  
 Morrison Steel Products Inc  
 National-U S Radiator Corp  
 Remington Air Conditioning Div  
 Tuck-Aire Furnace Co  
 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

### Alarms, Fire & Burglar

Benjamin Electric Co  
 Diebold Inc  
 Edwards Co Inc  
 Federal Sign & Signal Corp  
 Home Music Systems Inc  
 Minneapolis Honeywell Regulator  
 Mosler Safe Co  
 Thorland Automatic Fire Alarms Co

### Aluminum Pipe (See Pipe & Tubing, Aluminum)

### Aluminum Roofing (See Roofing & Siding, Aluminum)

### Aluminum Windows (See Windows & Doors, Combination)

### Anchors, Building

Adams 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  
 Copperweid Steel Co Wire & Cable Div  
 Dayton Sure-Grip & Shore Co  
 Diamond Expansion Bolt Co Inc  
 Donley Brothers Co  
 Flash Bridge Co



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 "Center of Construction Strength"

Constructed of 18 gauge steel for immediate use as anchor plate supports for framing rafters, joists, studs, etc. One anchor fits all!

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 Holub Industries Inc  
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 Jordan Industries  
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 Lanebro Mfg Co  
 Merwin Mfg Co  
 Met-Cro Specialties Co Inc

Molly Corp  
 Nalle Plastics Inc  
 National Lead Co  
 Paine Co  
 Ramset Fastening System  
 Rawplug Co Inc  
 Reynolds Aluminum Supply Co  
 Sommer Metalcraft Corp  
 Star Expansion Industries Corp  
 Tension Bros Inc  
 Timber Engineering Co  
 Timber Fasteners Inc  
 U S Expansion Bolt Co  
 Universal Form Clamp Co  
 Wagner Mfg Co  
 Wall Plugs Inc  
 Woodmack Products Inc  
 Yeck Mfg Co

**Antennas, TV**

Mosley Electronics Inc  
 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  
 Armco Drainage & Metal Products  
 Cleveland Steel Specialty Co  
 Donley Brothers Co  
 Harris Inc  
 Inland Steel Products Co  
 Kewanee Mfg Co  
 Majestic Co Inc  
 Morgan-Wightman Co  
 Saint Paul Corrugating Co  
 Syro Steel Co  
 Tension 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**

Air Control Products Inc  
 Atco Aluminum Products  
 Berg F O Co  
 Bridgeport Brass Co  
 Bridgeport Brass Co Hunter Douglas Div  
 Carey-McFall Co  
 Chamberlin Co of America  
 Consolidated General Prod Inc  
 Eastern Machine Products Co  
 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 Bldg Prods Div Air Con Prods Inc  
 Morgan-Wightman Co  
 Orchard Bros Inc Alumaroll Products Co  
 Regal Products Corp  
 Reynolds Aluminum Supply Co  
 Russel F C Co  
 Security Aluminum Co  
 State Metal Awnings Inc  
 Sterling Awning Co Bldg Materials Div  
 Textron Metals Co  
 Troy Sunshade Co  
 Victor Tool & Machine Corp

**Awnings & Canopies, Plastic**

Chamberlin Co of America  
 Filon Plastics Corp  
 Hoosier Tarpaulin & Canvas Goods Co  
 Jones Shutter Products  
 Ray-O-Lite Corp of America  
 Reynolds Aluminum Supply Co  
 Structoglas Inc  
 Weather Seal Inc

**Backhoes**

Allis Chalmers Mfg Constr Mach Div  
 American Hoist & Derrick Co  
 Badger Div The Warner & Swasey Co  
 Bucyrus-Erie Co  
 Case J I Co  
 Ford Motor Co Tractor & Implement Div  
 Gar Wood Industries Inc  
 General Engines Co Inc  
 Henry Manufacturing Co Inc

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 John Deere Industrial Div  
 Koehring Co  
 Massey-Ferguson Industrial Div  
 Northwest Engineering Co  
 Oliver Corp  
 Ottawa Steel Div Young Spring & Wire  
 Schield Bantam Co  
 Shawnee Mfg Co Dept of Parsons Co Div  
 Sherman Products Inc  
 Tractomotive Corp  
 Wagner Iron Works  
 Wood Shovel & Tool Co

**Balances, Sash  
(See Sash Balances)**

**Barricades & Barricade Lights**

Diets R E Co  
 Pacific Mercury Marketing Div

**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)**

Air Control Products Inc  
 American Olean Tile Co  
 Bemis Mfg Co  
 Borg-Warner Corp Ingersoll Humphreys  
 Bridgeport Brass Co  
 Carey Philip Mfg Co  
 Carthage Marble Corp  
 Cole Prods Corp  
 Columbus Plastic Prods Inc  
 Crane Co  
 Cutler Metal Prods Co  
 Ekco Products Co Ekco-Autoyre Div  
 General Bathroom Products Corp  
 General Chrome Inc  
 Glissade Inc  
 Great Northern Mfg Corp  
 Grote Mfg Co  
 Hall-Mack Co  
 Handy Things Mfg Co  
 Hollaender Manufacturing Co  
 Hoover Bathroom Accessories  
 Irrmanton Products Co  
 Kennatrack Corp Sub Ekco Prods  
 Ketcham G M Mfg Corp  
 Kitchen Maid Corp  
 Knappe & Vogt Mfg Co  
 Kohler Co

**KOHLER**  
 Lavatories for building-in

THE TAHOE  
 THE ARROWHEAD  
 THE RADIANT

**KOHLER or KOHLER**  
 Kohler Co., Kohler, Wis.

Kraus Walter S Co  
 Lawson F H Co  
 Lehman Sprayshield Co  
 Lehon Co  
 Miami Cabinet Div Philip Carey Mfg  
 Miraplas Tile Co  
 Mirro Chrome Co Inc  
 Misceramic Tile  
 Morgan-Wightman Co

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 HALL-MACK  
 MIAMI-CAREY

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 National Tile & Mfg Co  
 National Vanity Co  
 Northern Industries Inc  
 NuTone Inc  
 Owens-Illinois  
 Pittsburgh Plate Glass Co  
 Rayco Products Inc  
 Reed Cromex Corp  
 Sani-Top Inc  
 Sea-Chrome Inc  
 Selck Walter E & Co  
 Sherle-Wagner  
 Standard Building Products Co  
 Standard Steel Cabinet Co  
 Sterling Precision Plastics Div  
 Stewart Industries Inc  
 Stylon Corp  
 Tiffany Mfg Co Inc  
 Trego Industries  
 Turner & Seymour Mfg Co  
 Universal-Rundle Corp  
 Wasco Products Inc  
 Webb Industries Inc  
 Weis Henry Mfg Co  
 Wenzel Tile Co  
 Werner Canvas Prods Co  
 Yale & Towne Mfg Co  
 Zenith Metal Products Co

**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  
 Jones Industries  
 Mauk Seattle Lumber Co  
 McKeown Bros Co  
 Prefabricated Prods Co Inc  
 Riley Laminated Prods Inc  
 Super-Structures Inc  
 Timber Structures Inc  
 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 Electric Co  
 Ingram-Richardson Mfg Co  
 United States Plywood Corp

**Blades, Saw, Circular**

Deluxe Saw & Tool Co  
 Milwaukee Elec Tool Corp  
 Parker Mfg Co  
 Producers & Distributors Inc  
 Remington Arms Co Inc  
 Rocco Prods Inc  
 Rookwell Mfg Delta Power Tool Div  
 Skil Corp  
 Speedway Mfg Div Thor Power Tool Co

**Blades, Saw, Masonry**

Bay State Abrasive Products Co  
 Black & Decker Mfg Co  
 Carborundum Co  
 Clipper Mfg Co  
 Columbia Brick Works  
 Dewalt Div AMF  
 Eveready Brikisaw Co  
 General Engines Co Inc  
 Goldblatt Tool Co  
 Milwaukee Elec Tool Corp  
 Norton Co  
 Remington Arms Co Inc  
 Simmonds Abrasive Co  
 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)

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 Allied Chemical Corp Barrett Div  
 Allied Compositions Co Inc  
 Anti Hydro Waterproofing Co  
 Bestwall Gypsum Co  
 Camp Co Inc  
 Ceresit Waterproofing Corp  
 Dewey & Almy Chem Div W R Grace Co  
 Goldblatt Tool Co  
 Kaiser Mfg Inc  
 Kay-Tite Co  
 Larsen Products Corp  
 Maguire Walter Co Inc  
 National Gypsum Co  
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 (See Plans, Services & Books)

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 (See Pumps, Booster)

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 (See Pipe & Tubing, Brass)

**Breakfast Nooks**  
 (See Nooks, Dining)

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 Acme Shale Brick Co Inc  
 Belden Brick Co  
 Black Hills Clay Products Co  
 Bowerston Shale Co  
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 Builders Brick Co  
 Charleston Clay Prods Co  
 Cherokee Brick & Tile Co  
 Chicago Fire Brick Co  
 Clay City Pipe Co  
 Columbia Brick Works  
 Elgin-Standard Brick Mfg Co  
 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  
 Natco Corp  
 Paxton Brick Co  
 Peoria Brick & Tile Co  
 Robinson Clay Product Co  
 Rockford Brick & Tile Co  
 Sacramento Brick Co  
 Sheridan Press Brick & Tile Co  
 Standard Brick & Tile Corp  
 Stone Creek Brick Co  
 Summit Pressed Brick & Tile Co  
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 Texas Brick Co  
 United Brick & Tile Co  
 Watsontown Brick Co  
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 Elgin-Standard Brick Mfg Co  
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 Green A P Fire Brick Co  
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(See Paints & Coatings,  
Concrete, Brick, Stucco)

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### **Ceiling Tile, Acoustical (See Plaster, Acoustical)**

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Flintkote Co  
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Permanente Cement Co  
Pittsburgh Plate Glass Co  
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Standard Lime & Cement Co  
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Universal Atlas Cem Div US Steel Corp  
X-Pando Corp

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Columbia Brick Works  
Dewey Portland Cement Co  
Flintkote Co  
General Portland Cement Co  
Ideal Cement Co  
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Lone Star Cement Corp  
Louisville Cement Co  
Marquette Cement Mfg Co  
Medusa Portland Cement Co  
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Universal Atlas Cem Div US Steel Corp

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Flexrock Co  
Flintkote Co  
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Koppers Co Inc  
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Lehon Co  
Logan-Long Co  
National Mfg Corp  
Pecora Inc  
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Presstite Div American-Marietta Co  
Ruberoid Co  
Rutland Fire Clay Co  
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Sullivan Co The  
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Bonafide Mills Inc  
Borden Chemical Co Div Borden Co  
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 Miraplas Tile Co  
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 Pittsburgh Plate Glass Co  
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 Schalk Chemical Co  
 Selck Walter E & Co  
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 Tamms Industries Co  
 Wright Mastic Tile Div Ruberoid Co  
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**Cement, Wallboard Joint**

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 Celotex Corp  
 LePage's Inc  
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 National Gypsum Co  
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 Schalk Chemical Co  
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 (See Tile, Ceramics)**

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 (See Saws, Chain)**

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 (See also Fireplaces)**

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 Flintkote Co  
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**Circular Saws  
 (See Saws, Circular)**

**Circulators, Hot Water  
 Heating Systems  
 (See Pumps, Booster)**

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 Systems**

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 Peterson Prods Co  
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 National Gypsum Co  
 Penn Metal Co Inc  
 Peterson Prods Co  
 United States Gypsum Co

**Clips, Plaster, Spring  
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 Accessories)**

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 Flexrock Co  
 Hachmeister-Inc  
 Horn A C Companies Div Sun Chem Corp  
 Interstate Brick Co  
 Landers Segal Color Co  
 Master Builders Co  
 Quartz Mosaic Inc  
 Rockcote Paint Co  
 Smith J Lee & Co Inc  
 Sonneborn L Sons Inc  
 Sullivan Co The  
 Tamms Industries Co  
 Toch Bros  
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**Columns, Metal  
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Master Builders Co  
Ranetite Mfg Co  
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Sonneborn L Sons Inc  
Sullivan Co The  
Super Concrete Emulsions  
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## Compounds, Anti-Termite (See Termite Shields)

## Compounds, Concrete (See Concrete Hardeners & Sealers)

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Goldblatt Tool Co  
Kelley Machine Div Weisner-Rapp Co Inc  
Koehring Co  
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  
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Richkraft Co  
Rilco Laminated Prods Inc  
Rocform Corp  
Simplex Forms System Inc  
Sonoco Prods Co Construction Prod Div  
Symons Clamp and Mfg Co  
United States Plywood Corp  
Universal Form Clamp Co  
Waco Transwall Folding Partition

## Concrete Guns (See Guns, Pneumatic, Concrete Application)

## Concrete Hardeners & Sealers

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American Asbestos Product Co  
Anti Hydro Waterproofing Co  
Camp Co Inc  
Carter-Waters Corp  
Ceresit Waterproofing Corp  
Coddington E D Mfg Co  
Colorcrete Industries Inc  
Concrete Weld Co  
Dad & Lad Co  
Devoe & Reynolds Co Inc  
Dewey & Almy Chemical Div  
Evercrete Corp  
Flexrock Co  
Forrers Div Spray-O-Bond Co  
Fulton Cotton Mills  
Horn A C Companies Div Sun Chem Corp  
Kay-Tite Co  
Koppers Co Inc Durethene Plant  
Kordite Corp  
Larsen Products Corp  
Maguire Walter Co Inc  
Master Builders Co  
Monroe Co Inc  
Permiteco Inc  
Ranetite Mfg Co  
Reardon Co  
Re-Nu-It Corp  
Rutland Fire Clay Co  
Seddon Co  
Serviceised Prods Corp  
Sika Chemical Corp  
Sonneborn L Sons Inc  
Standard Dry Wall Products Inc  
Steelcote Manufacturing Co  
Sullivan Co The  
Super Concrete Emulsions  
Surface Protection Co Inc  
Tamm Industries Co  
Tennant G H Co  
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Construction Machinery Co  
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Koehring Co  
Lithbar Co  
Mixermobile Manufacturers  
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**Concrete Mixers, Transit**

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Jaeger Machine Co  
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Smith T L Co  
Whiteman Mfg Co  
Worthington Corp

**Concrete Paint  
(See Paints & Coatings,  
Concrete)**

**Concrete Sawing Equipment**

Carborundum Co  
Champion Mfg Co  
Clipper Mfg Co  
Eveready Brikshaw  
Thor Power Tool Co  
Victor Inc

**Concrete Vibrators, Gasoline  
& Electric**

Chicago Pneumatic Tool Co  
General Engines Co Inc  
Homelite Div Textron Inc  
Kelley Machine Div Wiesner-Rapp Co Inc  
Magniss Power Tool Co  
Master Vibrator Co  
Pacific Mercury Marketing Div  
Remington Arms Co Inc  
Speedway Mfg Div Thor Power Tool Co  
Stow Mfg Co  
Syntron Co  
Thor Power Tool Co  
Vibro Plus Prods Inc  
Whiteman Mfg Co

**Conduits & Raceways**

Adam Frank Electric Co  
Aluminum Co of America  
American Brass Co  
American Flexible Conduit Co  
Byers A M Co  
Chase Brass & Copper Inc  
Circle Wire & Cable Corp  
Clayton Mark & Co  
Columbia Metal Box Co  
Gen Elec Co Constr Mat Sales Operation  
Johns-Manville Corp  
Kees F D Mfg Co  
Keystone Mfg Co  
Laclede Steel Co  
Line Material Ind McGraw-Edison Co  
Natl Electric Div H K Porter Co Inc  
Okonite Co  
Orangeburg Mfg Co Div Flintkote Co  
Pyle-National Co  
Republic Steel Corp  
Skyline Industries Sales Inc  
Southwestern Plastic Pipe Co  
Triangle Conduit & Cable Co Inc  
Unistrut Prods Co  
United States Rubber Co  
Wiremold Co  
Youngstown Sheet & Tube Co

**Controls, Heating & Air  
Conditioning**

Arrow Hart & Hegeman Elec Co  
Berko Electric Mfg Corp  
Controls Co of America  
Cutler Hammer Inc

Everwarm Inc  
General Controls Co  
General Electric Co Apparatus Sales  
Hoffman Specialty Mfg Corp  
International Register Co  
Kol-Master Corp  
Lawler Automatic Controls Inc  
Lennox Industries Inc  
Mercoold Corp  
Minneapolis Honeywell Regulator  
Morrison Steel Products Inc  
National-US Radiator Corp  
Penn Controls Inc  
Stow Mfg Co  
Sunwarm Inc  
Thrush H A & Co  
Tork Time Controls Inc  
Triplex Heating Specialty Co Inc  
Tuck-Aire Furnace Co  
Waterloo Register Co Inc  
Westinghouse Electric Corp  
White-Rodgers Co  
Willcolator Co

**Controls, Lighting  
(See Wiring Systems,  
Remote Control)**

**Conveyors**

Alvey Ferguson Co Inc  
American Conveyor Co  
Barber Greens Co  
Baughman Mfg Co Inc  
Bodinson Mfg Co  
Boasworth Mfg Co  
Buschman E W Co Inc  
Chain Belt Co  
Colson Corp  
DeWalt Div AMF  
Ferguson Harry J Co  
Gee Vee Line  
Goodall Rubber Co Inc  
Hewitt-Robins Inc  
Lake Shore Inc Lake Shore Eng Div  
LeTourneau-Westinghouse Co  
Lippmann Engineering Works Inc  
Louden Machinery Co  
Mathews Conveyor Co  
Metzgar Conveyor Co  
Morgen Manufacturing Co  
Mulkey Sam Co  
New London Engineering Co  
Northern Conveyor Co  
Oliver Corp  
Rapids-Standard Co Inc  
Richards-Wilcox Mfg 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  
Units)**

**Countertops**

Armstrong Cork Co  
Boro Wood Prods Co Inc  
Carthage Marble Corp  
Chemold Co  
Congoileum-Nairn Inc  
Elkay Mfg Co  
Farley & Loetscher Mfg Co  
Fiberesin Plastics Co  
Gen Elec Co Laminated Prods Dept

Gen Tire & Rubber Co Hdg Mat Div  
Gilsade Inc  
Goodyear Tire & Rubber Co  
Gregg & Son Inc  
Harbor Plywood Corp  
Hyde-Murphy Co  
Hyde Park Products Co  
Kitchen Kompact Inc  
Marsh Wall Products Inc  
National Tile & Mfg Co  
Quartz Mosaic Inc  
Regal Laminates Inc  
St Regis Paper Co Panelyte Div  
Sanl-Top Inc  
Texboro Cabinet Corp  
Topcraft Inc  
United States Plywood  
United States Rubber  
Vermont Marble Co

**Coverings, Wall  
(See Wall Coverings)**

**Cranes & Shovels**

Allis Chalmers Mfg Constr Mach Div  
American Hoist & Derrick Co  
Bucyrus-Erie Co  
Clark Equip Co Constr Mach Div  
Cleveland Trencher Co  
Ford Motor Co Tractor & Implement Div  
Gar Wood Industries Inc  
John Deere Industrial Div  
Koehring Co  
LeTourneau-Westinghouse Co  
Link-Belt Speeder Corp  
Northwest Engineering Co  
Pitman Manufacturing Co  
Pointer-Willamette Co Inc  
Radoey P A & Sons  
Round David & Son Inc  
Schield Bantam Co  
Sherman Prods Inc  
Silent Holst & Crane Co  
Smith Holst Mfg Co  
Tractomotive Corp  
Unit Crane & Shovel Corp

**Curtain Walls**

American Art Metals Co  
Butler Mfg Co  
Fenestra Inc  
Harvey Aluminum  
Haskelite Mfg Corp  
Ingram-Richardson Mfg Co  
Kawneer Co  
Kimble Glass Co Sub Owens-Illinois  
Marmet Corp  
Mesker Bros Iron Co  
Michel & Pfeffer Iron Works Inc  
Pomeroy S H Co Inc  
Pro-Tect-U Jalousie Corp  
Regulux Sash & Door Co  
Republic Steel Corp Truscon Div  
Ryerson Joseph T & Son  
Slidewall Co  
Southern Sash Sales & Supply Co  
Steelbilt Inc  
United States Plywood Corp  
Valley Metal Prods Co  
Wasco Products Inc  
Werner Canvas Prods Co  
Wilke Metal Products Inc  
Wolverine Porcelain Enameling Co

**Cutters, Hardboard**

Gairing Tool Co  
Hartmeister Mfg Inc  
Huther Brothers Saw Mfg Co Inc  
Kimball Mfg Co  
Modern Specialties Co  
Rockwell Mfg Delta Power Tool Div  
Stanley Tools

## Cutters, Insulation Board

Kimball Mfg Co

## Cutters, Molding

Belsaw Machinery Co  
Boice Crane Co  
DeWalt Div AMP  
Dormeyer Co  
Dosch Mfg Co  
Ekstrom Carlson & Co  
Huther Brothers Saw Mfg Co Inc  
Jet Tool Inc  
Mattison Machine Works  
Pootatuck Corp  
Rockwell Mfg Delta Power Tool Div  
Stanley Electric Tools  
United Industries Inc  
Yates-American Machine Co

## Cutters, Shingle & Siding

Flinkote Co  
General Hardware Mfg Co Inc  
Kearney & Mattison Co  
Modern Specialties Co  
Newark Ladder & Bracket Co Inc  
Ruberold Co  
Specialty Tool Manufacturers  
United States Gypsum 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  
Flinkote Co  
Gilman Bros Co  
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  
North American Asbestos Corp  
Owens-Corning Fiberglas Corp  
Paxton Frank Lumber Co  
Pioneer Div Flinkote Co  
Reynolds Aluminum Supply Co  
Rileo Laminated Prods Inc  
Simpson Logging Co  
Tectum Corp  
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

Enersza Inc  
Hollanbee Steel Corp  
Goldsmith Metal Lath Co  
Granco Steel Prods Co  
Haven-Busch Co  
Ireland Steel Products Co  
Macomber Inc  
Mahon R C Co  
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  
Amana Refrigeration Inc  
Berns Air King Corp  
Carrier Corp  
Clarage Fan Co  
Coolerator McGraw-Edison  
Cory Corp  
Fedders Corp  
Fresh 'Nd-Aire Co Div Cory Corp  
Gibson Refrigerator Co Div Hupp Corp  
Kelvinator Div American Motors Co  
Morrison Steel Products Inc  
Remington Air Conditioning Div  
Westinghouse Electric Corp  
Whirlpool Corp  
Worthington Corp

## Derricks

American Hoist & Derrick Co  
King Mfg Co  
McCabe Powers Body Co  
Sasgen Derrick Co  
Utility Body Co

## Devices, Wiring (See Wiring Devices)

## Dining Nooks (See Nooks, Dining)

## Dishwashers

Admiral Corp  
Chambers Built-Ins Inc

**Chambers' BUILT-INS**  
A COMPLETE "CUSTOM MATCHED" LINE  
Ovens and Ranges (gas and electric) . . .  
Refrigerator-Freezers . . . Dishwashers . . .  
Ventilating Hoods . . . Disposers  
**A DESIGN AND SIZE FOR ANY KITCHEN PLAN!**  
For specifications—Air Mail  
Chambers Built-ins Co., Dept. AB-460  
2012 N. Harlem Ave., Chicago 35, Ill.

Frigidaire Div General Motors Corp  
Gen Elec Co Appliance & Television Div  
Gregg & Son Inc  
Hobart Mfg Co  
Hotpoint Div  
James Mfg Co Inc  
Kelvinator Div American Motors Co  
Philco Corp  
Preway Inc  
Tracy-American Kitchens  
Waste King Corp  
Westinghouse Elec Appliance Div  
Westinghouse Electric Corp  
Whirlpool Corp  
Youngstown Kitchens

## Disposers, Garbage

Amer-Standard Plumbing & Heating Div  
Chambers Built-Ins Inc  
Crane Co  
Donley Brothers Co  
Frigidaire Div General Motors Corp  
Gen Elec Co Appliance & Television Div  
Hotpoint Div  
In-Sink-Erator Mfg Co  
James Mfg Co Inc  
Kelvinator Div American Motors Co  
Leigh Bldg Prods Div Air Control Prods  
Locke Stove Co  
Natl Rubber Mch Co Plumbing Equip Div  
Northwest Metal Products Inc  
Philco Corp  
Pioneer Manufacturing Co  
Tracy-American Kitchens  
Vestal Mfg Co  
Waste King Corp  
Westinghouse Elec Appliance Div  
Westinghouse Electric Corp  
Whirlpool Corp  
Witt Corlice Co  
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  
Graham John H & Co Inc  
Lehon Co  
Miami Cabinet Div Philip Carey Mfg  
Morgan-Wightman Co  
NuTone Inc  
Rittenhouse Co Inc

## Door Operators, Garage

Alliance Manufacturing Co Inc  
Atlas Overhead Door Co  
Barber Colman Co



Barcol.

**OVERdoors**

Weather-King doors and door controls  
com-action. Nationally distributed, guar-  
anteed.

Calder Mfg Co  
Capitol Products Co  
Crawford Door Co  
Delco Appliance Div  
Dor-o-Matic Div Republic Industries Inc  
Fitzgerald M J Co  
Frantz Mfg Co  
Graham Door Co  
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  
RCA Service Co Div of RCA  
Raynor Mfg Co  
Richards-Wilcox Mfg Co  
Ridge Door Co  
Robot Industries Inc  
Rowe Mfg Co  
Russel F C Co  
Sedcon Inc  
Wagner Mfg Co

## Doors, Access & Crawl Space

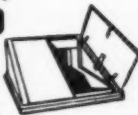
Adams Co  
Air Control Products Inc  
Bilco Co  
Carey Phillip Mfg Co  
Coffman R G Co Inc  
Columbia Metal Box Co  
Donley Brothers Co  
George F C Machine Co  
Industrial Iron Works  
Inland Steel Products Co  
Knapp Brothers Mfg Co  
Lehon Co  
Leigh Bldg Prods Div Air Control Prods  
Miami Cabinet Div Phillip Carey Mfg  
Morgan Company  
Simpson Logging Co  
Steelcraft Mfg Co  
Vestal Mfg Co  
Zurn Industries Inc Plumbing Prods Div

## Doors, Cellar, Bulkhead, Metal

Bilco Co

**Bilco**

**BASEMENT DOOR**  
SOLD BY BUILDING MATERIAL DEALERS  
THE BILCO COMPANY  
Dept. 308—New Haven 5, Conn.



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, Combination Screen & Storm Sash, Aluminum)

## Doors, Combination, Steel (See Windows & Doors, Combination Screen & Storm Sash, Steel)

## Doors, Combination, Wood (See Windows & Doors, Combination Screen & Storm Sash, Wood)

## Doors, Flexible & Folding

Aeroshade Co  
Air Control Products Inc  
American Accordion-Fold Doors Inc  
American Steel Door Co  
Amweld Bldg Prods Div Am Welding  
Clapay Corp  
Columbia Mills Inc  
Consolidated General Prod Inc  
Cookson Co  
Cox Arthur & Sons Inc  
Craftwood Products  
Curltition Corp  
Eastern Machine Products Co  
Evergreen States Forest Products  
Fenestra Inc  
Float-Away Door Co  
Gates Mfg Co Inc  
Grant Pulley & Hardware Corp

## AMERICA'S MOST VERSATILE FAMILY OF FOLDING DOORS...

**STACKDOOR**

*customfold*

**WOODFLEX**

*wovynfold*

**ACCORDOFOLD  
ROYALE**

Engineered and manufactured by  
**AMERICAN ACCORDION-FOLD DOORS, INC.**  
Jamaica 33, New York

Gregg & Son Inc  
Harbor Plywood Corp  
Holcomb & Hoke Mfg Co Inc  
Hough Mfg Corp  
Leigh Bldg Prods Div Air Control Prods  
Michel & Pfeffer Iron Works Inc  
Morgan Company  
New Castle Products Inc  
Nova Sales Co  
Paine Lumber Co Ltd  
Panelfold Doors Inc  
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  
Waco Transwall Folding Partition  
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** STEEL GARAGE DOORS  
5-year guarantee

One-piece and sectional models

Ask your distributor or write direct:  
Berry Door Corporation

2400 E. Lincoln Road, Birmingham, Michigan

Crawford Door Co  
Fenestra Inc  
Frantz Mfg Co  
General Doors Corp  
Kinnear Mfg Co  
McKee Door Co  
Morgan-Wightman Co  
Morrison Steel Products Inc  
Overhead Door Corp  
Panelfab Products Inc  
Raynor Mfg Co  
Reynolds Aluminum Supply Co  
Ridge Door Co

Rowe Mfg Co  
Russel F C Co  
Southern Pine Lumber Co  
Taylor Garage Doors Inc  
Tilt-A-Door Corp  
Wagner Mfg Co  
Wel-Bilt Products Co  
Wilson J G Corp

## Doors, Garage, Upward Acting, Wood

Atlas Overhead Door Co  
Barber Colman Co



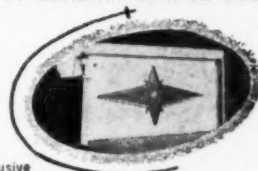
Barcol.

**OVERdoors**

Weather-King doors and door controls  
con-action. Nationally distributed, guar-  
anteed.

Better-Bilt Door Co  
Calder Mfg Co  
Capitol Products Co  
Commander Doors Inc  
Crawford Door Co  
Farley & Loetscher Mfg Co  
Frantz Mfg Co  
General Door Co  
General Doors Corp  
Georgia Pacific Corp  
Goshen Sash & Door Co  
Graham Door Co

*the world's most beautiful homes*  
wear **GRAHAM GARAGE DOORS**



Exclusive  
"Magi-Dor"  
Automatic  
Operator available

**GRAHAM DOOR COMPANY**

6901 Carnegie Ave. • Cleveland 3, Ohio • HE 2-1200

Harris Inc  
Howell Mfg Co  
Ideal Co Mfg Div Wm Cameron & Co  
International Paper Co Long-Bell Div  
Kinnear Mfg Co  
Kochton Plywood & Veneer Co Inc  
McKee Door Co  
Morgan-Wightman Co  
Morrison Steel Products Inc  
Northwest Door Co Sub St Regis Paper Co  
Overhead Door Corp  
Pacific Mutual Door Co  
Phenix Mfg Co  
Raynor Mfg Co  
Richards-Wilcox Mfg Co  
Ridge Door Co  
Rowe Mfg Co  
Simpson Logging Co  
Southern Pine Lumber Co  
Wagner Mfg Co  
Wineld Door Corp

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

## Doors, Interior & Exterior, Metal

Aetna Steel Prods Corp  
American Art Metals Co  
Amweid Bldg Prods Div  
Atco Aluminum Products  
Bayley William Co  
Berry Door Corp

# Berry

STEEL GARAGE DOORS  
5-year guarantee

One-piece and sectional models

Ask your distributor or write direct:

Berry Door Corporation  
2400 E. Lincoln Road, Birmingham, Michigan

Bilco Co  
Burr-Southern Div State Steel  
Ceco Steel Prods Corp  
Croft Metal Products Inc  
Curtis Companies Inc  
Federal Windows Mfg Co Inc  
Fenestra Inc  
International Fireproof Door Co  
International Steel Co  
Iplik Door Co Inc  
Kawneer Co  
Kinnear Mfg Co  
Leigh Bldg Prods Div Air Con Prods Inc  
Marmet Corp  
Mesker Bros Iron Co  
Morrison Steel Products Inc  
National Aluminum Co  
Panelfab Products Inc  
Republic Steel Corp  
Republic Steel Corp Truscon Div  
Richards-Wilcox Mfg Co  
Richmond Fireproof Door Co  
Rowe Mfg Co  
Russel F C Co  
Spartan Steel Products Corp  
State Steel Industries Inc  
Steelcraft Mfg Co  
United Steel Fabricators Inc  
Valley Metal Prods Co  
Virginia Metal Products Inc  
Vulcan Metal Prods Inc  
Wilson J G Corp

## Doors, Interior & Exterior, Wood

Anson & Gilkey Co  
Bellwood Co of California  
Caradoo Inc  
Craftwood Products  
Crestline Co  
Curtis Companies Inc  
Evergreen States Forest Products  
Farley & Loetscher Mfg Co  
General Plywood Corp  
Georgia Pacific Corp  
Cregg & Son Inc  
Harbor Plywood Corp  
Hardwood Products Corp  
Haskelite Mfg Corp  
Ideal Co Mfg Div Wm Cameron & Co  
International Paper Co Long-Bell Div  
Iplik Door Co Inc  
Ketcham G M Mfg Corp  
Kochlon Plywood & Veneer Co Inc  
Mauk Seattle Lumber Co  
Mengel Co  
Milwaukee Plywood Co  
Mohawk Flush Doors  
Morgan Company  
Morgan-Wightman Co  
Nagara Plywood Co Inc  
Northwest Door Co Sub St Regia Paper Co  
Pacific Mutual Door Co  
Pettersen J C Corp

Perrine Industries Inc  
Ready Hung Door Corp  
Reynolds Aluminum Supply Co  
Rock Island Millwork Co Factory Div  
Roddis Plywood Corp  
Semling-Menke Co  
Simpson Logging Co  
Spokane Sash & Door Co  
Thomason Plywood Corp  
United States Plywood Corp  
Western Door & Plywood Corp  
Wisconsin Door Co

## Doors, Jalousie

Adams Engineering Co  
All Weather Jalousies Inc  
AlSCO Inc  
Aluminum Industries  
Anderson V E Mfg Co Inc  
Angel Co  
Ato Aluminum Products  
Carey-McFall Co  
Chamberlin Co of America  
Cookson Co  
Eagle-Picher Co  
Fleet of America Inc  
Fulton Glass Co  
General Window Co  
Hess Mfg Co  
Hyde-Murphy Co  
Jaseo Aluminum Products  
Kelco Div Wells Aluminum Corp  
Keystone Alloys Co  
Kimbale Glass Co Sub Owens-Illinois  
Krueger Manufacturing Co  
Leonard R B Inc  
Ludman Corp  
Moloney Co  
Morgan-Wightman Co  
North East Metal Products Corp  
Paramount Aluminum Prod Corp  
Perrine Industries Inc  
Pro-Tect-U Jalousie Corp  
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  
Rusco Windows Inc of Florida  
Russel F C Co  
Schumacher F E Co  
Simpson Logging Co  
Southern Sash Sales & Supply Co  
State Metal Awnings Inc  
Sun Valley Industries  
Textron Metals Co  
Union Machine Co  
Universal Fabricators  
Ware Laboratories Inc  
Wells Aluminum Corp  
Winsulite Mfg Co

## Doors, Kitchen Cabinet

Fiberesin Plastics Co

## Doors, Louver, Metal

Philadelphia Screen Mfg Co

## Doors, Louver, Wood

Caradoo Inc  
Craftwood Products  
Crestline Co  
Curtis Companies Inc  
Farley & Loetscher Mfg Co  
Georgia Pacific Corp  
Goshen Sash & Door Co  
Gregg & Son Inc  
Harbor Plywood Corp  
Heinley Mastercraft Products  
Hyde-Murphy Co  
Ideal Co Mfg Div Wm Cameron & Co

International Paper Co Long-Bell Div  
Kennatrack Corp Sub Ekco Prods  
Missoula White Pine Sash Co  
Morgan Company  
Morgan-Wightman Co



Paxton Frank Lumber Co  
Precision Parts Corp  
Quincy Adams Colonial Doors  
Ready Hung Door Corp  
Rock Island Millwork Co Factory Div  
Rockwell of Randolph Inc  
Schumacher F E Co  
Simpson Logging Co  
Tyler Arthur F Co  
Union Machine Co  
United States Plywood Corp

## Doors, Prefabbed & Packaged

Ceco Steel Prods Corp  
Clark Door Co Inc  
Craftwood Products  
Goshen Sash & Door Co  
Ideal Co Mfg Div Wm Cameron & Co  
Mesker Bros Iron Co  
Panelfab Products Inc  
Precision Parts Corp  
Ready Hung Door Corp  
Steelcraft Mfg Co  
Thomason Plywood Corp

## Doors, Prehung

Alumatic Corp of America  
Champion Door Co Inc  
Craftwood Products  
Ez-Way Sales Inc  
Ideal Co Mfg Div Wm Cameron & Co  
Jenkins Lumber & Mfg Co  
Master Hung Door Equip Co  
Moloney Co  
Peerless-Wood Products  
Ready Hung Door Corp  
Royal Jalousie Co  
Tye Lumber Mfg Co  
Wadsworth Millwork Corp  
Wilke Metal Products Inc

## Doors, Rolling, Steel

Cookson Co  
Kinnear Mfg Co  
Mahon R C Co  
Mesker Bros Iron Co  
Michel & Pfeffer Iron Works Inc  
Morrison Steel Products Inc  
Ridge Door Co  
Wilson J G Corp

## Doors, Shower & Bathtub (See also Shower Stalls)

Adams Engineering Co  
American Shower Door Co Inc  
Anroc Products Inc  
Beauti-Dor Inc  
Binswanger Glass Co  
Chemold Co  
Crane Co  
Cutler Metal Prods Co  
Daryl Products Corp  
Efron Theodore Mfg Co  
Evergreen States Forest Products  
Flat Metal Mfg Co

Fuller W P & Co  
 Glamour Glass Wal-Dor Corp  
 Glass Shower Door Co Inc  
 Jones Shutter Products  
 Ketcham G M Mfg Corp  
 Lehman Sprayshield Co  
 Leonard R B Inc  
 Ludman Corp  
 Milwaukee Stamping Co Bathe-Rite Div  
 Morgan-Wightman Co  
 National Aluminum Co  
 National Metal-Art Mfg Co  
 North East Metal Products Corp  
 Paramount Aluminum Prod Corp  
 Perrine Industries Inc  
 Pittsburgh Plate Glass Co  
 Reynolds Aluminum Supply Co  
 Rusco Windows Inc of Florida  
 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

**Doors, Sliding Glass**

Adams Engineering Co  
 Ador Corp  
 Alisco Inc  
 American-Saint Gobain Corp  
 American Shower Door Co Inc  
 Anderson V E Mfg Co Inc  
 Arcadia Metal Products  
 Binswander Glass Co  
 Capitol Products Corp  
 Capri Sales Inc  
 Cole Mfg Co  
 Daryl Products Corp  
 Fenestra Inc  
 Fleet of America Inc  
 Flynn Michael Mfg Co  
 Fuller W P & Co  
 General Bronze Corp  
 General Window Co  
 Glamour Glass Wal-Dor Corp  
 Glass Shower Door Co Inc  
 Hollyview Aluminum Rolling Glass  
 Horizon Door Co  
 Lehman Sprayshield Co  
 Lenahan Aluminum Window Corp  
 Leonard R B Inc  
 Malibu Mfg Corp  
 Metal Trims Inc  
 Miller Frank B Mfg Co  
 Miller Sliding Glass Door Co Inc  
 National Metal-Art Mfg Co  
 National Window Corp  
 Nudor Mfg Corp  
 Panaview  
 Perrine Industries Inc  
 Pro-Tect-U Jalousie Corp  
 Reynolds Aluminum Supply Co  
 Rusco Windows Inc of Florida  
 Russel F C Co  
 Safetee Glass Co  
 Shower Door Co of America  
 Slide-View Door Co  
 Steelbilt Inc  
 Sun Valley Industries Inc  
 Toledo Plate & Window Glass Co  
 Trim Slide Inc  
 Trimview Metal Products  
 Universal Fabricators  
 Virginia Glass Products Corp

**Doors, Sliding Wood & Metal**

Aluminum & Glass Products Co  
 Cole Mfg Co  
 Cox Arthur & Sons Inc  
 Craftwood Products  
 Croft Metal Products Inc  
 Curtis Companies Inc  
 Dina-Pak Corp

Ez-Way Sales Inc  
 Farley & Loetscher Mfg Co  
 Fenestra Inc  
 Glide Windows Inc  
 Harris Inc  
 Hollyview Aluminum Rolling Glass  
 Ideal Co Mfg Div Wm Cameron & Co  
 Ipik Door Co Inc  
 Ludman Corp  
 Malibu Mfg Corp  
 Mengel Co  
 Michel & Pfeffer Iron Works Inc  
 Morgan Company  
 Nudor Mfg Corp  
 One-Der Frame Corp  
 Oro Mfg Co  
 Paine Lumber Co Ltd  
 Panaview  
 Panelfab Products Inc  
 Paxton Frank Lumber Co  
 Premier Hall Mfg Co  
 Pro-Tect-U Jalousie Corp  
 Ready Hung Door Corp  
 Republic Steel Corp Truscon Div  
 Richards-Wilcox Mfg Co  
 Rockwell of Randolph Inc  
 Roddis Plywood Corp  
 Slide Master Glass Door & Window  
 Slide-View Door Co  
 Standard Building Products Co  
 Steelcraft Mfg Co  
 Storm King Corp  
 Sun Valley Industries Inc  
 Union Machine Co  
 United States Plywood Corp  
 United Steel Fabricators Inc  
 Virginia Metal Products Inc  
 W M Products Co  
 Wel-Bilt Products Co  
 Woodall Industries Inc

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

**Drains, Shower**

Josam Mfg Co

**Drawer Slides & Rollers**

Air Control Products Inc  
 Ajax Hardware Corp  
 Amerock Corporation

Extension Drawer Support Co  
 Grant Pulley & Hardware Corp  
 Junior-Pro Products Co  
 Knappe & Vogt Mfg Co  
 Leigh Bldg Prods Div Air Con Prods Inc  
 Sterling John Corp  
 Washington Steel Prods

**Drawers, Plastic**

Knoll-Drake Products Inc

Masonite Corp  
 Washington Steel Prods

**Drill Grinders  
(See Grinders, Drill)**

**Drills, Brick, Concrete, Tile**

Arro Expansion Bolt Co  
 Black & Decker Mfg Co  
 Bulldog Div Gregory Industries Inc  
 Chicago Expansion Bolt Co  
 Chicago Pneumatic Tool Co  
 Cincinnati Tool Co  
 Damascus Steel Products Corp  
 Diamond Expansion Bolt Co Inc  
 Gairing Tool Co  
 Gardner-Denver Co  
 General Hardware Mfg Co Inc  
 Hawkeye Sales Co  
 Hood Bros  
 Jordan Industries  
 Mayhew Steel Products Inc  
 Milwaukee Elec Tool Corp  
 Moleo Drilling Machines Inc  
 New England Carbide Tool Co Inc  
 Ox-Wall Tool Co Ltd  
 Paine Co  
 Phillips Drill Co  
 Proto Tool Co Div Pendleton Tool Ind Inc  
 Rawplug Co Inc  
 Remington Arms Co Inc  
 Reiton Corp  
 Stanley Tools  
 Star Expansion Industries Corp  
 Syntron Co  
 Thor Power Tool Co  
 Union Twist Drill Co  
 U S Expansion Bolt Co  
 Victor Inc  
 Wodack Electric Tool Corp

**Drills, Electric, Portable**

Albertson & Company Inc  
 American Floor Machine Co  
 Black & Decker Mfg Co  
 Blum Julius & Co Inc  
 Bulldog Div Gregory Industries Inc  
 Chicago Pneumatic Tool Co  
 Cummins Port Tools Div Oster Mfg Co  
 Dalton Mfg Co  
 Diamond Expansion Bolt Co Inc  
 Forsberg Mfg Co  
 Holub Industries Inc  
 Ingersoll-Rand Co  
 Kent Air Tool Co  
 Kett Tool Co  
 Millers Falls Co  
 Milwaukee Elec Tool Corp  
 Moleo Drilling Machines Inc  
 Portable Electric Tools Inc  
 Porter-Cable Machine Co  
 R C S Tool Corp  
 Ryerson Joseph T & Son  
 Skill 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  
 Remington Arms Co Inc

**Drivers & Fasteners, Cartridge  
Actuated Type**

Fastway Fasteners Inc  
 Hawkeye Sales Co  
 Hilti Rapid Fastening Systems Inc  
 Omark Industries Inc

Ramset Fastening System  
Remington Arms Co Inc

### Dryers, Cothes (See Washers & Dryers, Clothes)

### Ducts, Metal

Penn Supply & Metal Corp

### Dumbwaiters

Barrett Cravens Co  
Bodinson Mfg Co  
Chelsea Elevator Co  
Flinchbaugh-Murray Corp  
Inclinator Co of America  
Lewis-Shepard Products Inc  
Otis Elevator Co  
Robot Industries Inc  
Sedgwick Machine Works  
Shepard Elevator Co Div Dover Corp  
Westinghouse Electric Corp  
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

Goshen Sash & Door Co  
Tamblin Systems  
Unit Structures Inc

### Fans, Commercial

Acme Engineering & Mfg Corp  
Air Controls Inc  
Buffalo Forge Co  
Chicago Blower Corp  
Cory Corp  
Emerson Electric Mfg Co  
ILG Electric Ventilating Co  
Peerless Elec Div H K Porter Co Inc  
Standard Electric Mfg Co Inc

### Fans, Exhaust, Bath & Kitchen

Acme Engineering & Mfg Corp  
Air Control Products Inc  
Air Controls Inc  
American Air Filter Co  
American Standard American Blower Div  
Aubrey Hardware Mfg Inc  
Bar-Brook Mfg Co  
Berns Air King Corp  
Broan Mfg Co Inc  
C & H Air Conditioning Co Inc  
Cal Vent Manufacturing Co  
Carey Philip 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  
Hunter Div-Robbins & Myers Inc  
ILG Electric Ventilating Co  
Kol-Master Corp

Lehon Co  
Leigh Bldg Prods Div Air Con Prods Inc  
Master Mechanic Mfg Co  
McLean Engineering Labs  
Miami Cabinet Div Phillip Carey Mfg  
Morgan-Wightman Co



National Gas Equipment Co Inc  
NuTone Inc  
Peerless Electric Div H K Porter Co Inc  
Perfect Line Mfg  
Progress Mfg Co Inc  
Reed Unit Fans Inc  
Rich Phil Fan Mfg Co Inc  
Robbins & Myers Inc  
Roberts Mfg Co  
Shepler 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  
West Wind Corp  
Winco Ventilator Co

### Fans, Ventilating, Attic

Acme Engineering & Mfg Corp  
Aeroshade Co  
Air Controls Inc  
American Coolair Corp  
Berns Air King Corp  
Buffalo Forge Co  
C & H Air Conditioning Co Inc  
Carey Philip Mfg Co  
Chelsea Fan & Blower Co Inc  
Chicago Blower Corp  
Clay Equipment Corp  
Consolidated General Prod Inc  
Damp-Vent Co  
Dayton Electric Mfg Co  
Diehl Mfg Co  
Emerson Electric Mfg Co  
Emerson-Pryne Co  
Fasco Industries Inc  
Gaffers & Sattler  
Gordon Mfg Co  
Hudson H D Mfg Co  
Hunter Div-Robbins & Myers Inc  
ILG Electric Ventilating Co  
Jensen Industries  
Lau Blower Co  
Leigh Bldg Prods Div Air Con Prods Inc  
Master Mechanic Mfg Co  
McLean Engineering Labs  
Meier Electric & Machine Co Inc  
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  
Tennessee Fabricating Co  
Utility Appliance Corp  
Vernco Corp  
Wasco Products Inc  
Westinghouse Electric Corp  
Zink John Co

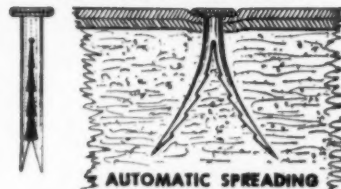
### Fascia & Soffit, Aluminum

Keystone Alloys Co

### Fasteners

Arro Expansion Bolt Co  
Bethlehem Steel Co  
Butcher & Hart Mfg Co  
Carey Philip Mfg Co  
E G Building Fasteners Corp

### E. G. DO-ALL LOC-MAIL for fastening roofing materials on insulated roof decks



E. G. BUILDING FASTENERS CORP.  
101 Park Ave., New York 17, N.Y.

ES/Products Inc  
Hassall John Inc  
Hawkeye Sales Co  
Hilti Rapid Fastening Systems Inc  
Hosking John H Co  
Knap & Vogt Mfg Co  
Lamson & Sessions Co  
Ludwig Mfg Co Inc  
Molly Corp  
Paine Co  
Phillips Drill Co  
Power Line Sales Inc  
Ramset Fastening System  
Reynolds Aluminum Supply Co  
Sheffield Div Armco Steel Corp  
Stanscrew Fasteners Div Standard Screw  
Star Expansion Industries Corp  
Stic-Klip Mfg Co Inc  
Superior Fastener Corp



Tinnerman Products Inc  
United States Gypsum Co

### Faucets, Tub & Shower

Alamark Inc  
American-Standard Plumbing & Htg Div  
Chicago Faucet Co  
Dick Brothers Inc  
Gyro Brass Manufacturing Corp  
Harvey Aluminum  
McDonald A Y Mfg Co  
Moen Faucet Div Standard Screw Co  
Universal-Rundle Corp

### Felt Roofing (See Roofing, Asphalt)

### Fencing

Anchor Fence Div Anchor Post Prods Inc  
Arrow Tank Co Inc  
Baumgartner Gate Factory  
Century Fence Co  
Colorado Fuel & Iron Corp  
Colorado Fuel & Iron Corp  
Continental Steel Corp



Dad & Lad Co  
 Flon Plastics Corp  
 Forbes Steel Corp  
 Habitat Fence Inc  
 Harris L C Cedar Ltd  
 Jones & Laughlin Steel Corp  
 Keystone Steel & Wire Co  
 Masonite Corp  
 Northwestern Steel & Wire Co  
 Sheffield Div Armco Steel Corp  
 Stewart Iron Works Inc

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

**Fiber Joint Sewer Pipe**  
 (See Pipe, Sewer)

**Files, Saw & Circular**

Belsaw Machinery Co  
 Carborundum Co  
 Disston Div H K Porter Co Inc  
 Hanchett Mfg Co  
 Heller Tool Co  
 Hoe R & Co Inc  
 Huther Brothers Saw Mfg Co Inc  
 Nicholson File Co  
 Plumb Fayette R Inc  
 Simonds Saw & Steel Co

**Finishers, Wallboard**  
 (See Cement, Wallboard Joint)

**Finishes & Sealers**

Allied Chemical Corp Barrett Div  
 American Asbestos Product Co  
 American Floor Machine Co  
 American Marietta Co Valudra Div  
 American Varnish Co  
 Armstrong Cork Co  
 Asphalt Corp of America  
 Bangkok Industries Inc  
 Barreled Sunlight Paint Co  
 Berry Brothers Div of Am Marietta Co  
 Biddle Co  
 Borden Chemical Co Div Borden Co  
 Bruce E L Co  
 Camp Co Inc  
 Ceresit Waterproofing 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  
 Gildden Co  
 Globe Paint Works Inc  
 Hibd Floor Machine Co Inc  
 Horn A C Companies Div Sun Chem Corp  
 International Chemical Co Inc  
 Johnson's Wax  
 Kyanize Paints Inc  
 Lawrence W W & Co  
 Lowe Bros  
 Lucas John & Co Inc  
 Marietta Paint & Color Co  
 Martin-Senour Co  
 McGuffe Co  
 Minnesota Mining & Mfg Co  
 Minnesota Paints Inc

Minwax Co Inc



Miraplas Tile Co  
 Monroe Co Inc  
 Moore Benjamin & Co  
 National Chemical & Mfg Co  
 National Mfg Corp  
 O'Brien Corp  
 Parr Paint & Color Co  
 Patterson-Sargent Co  
 Peterson D J Co  
 Phelps-Faust Paint Mfg Co  
 Pittsburgh Plate Glass Co  
 Pratt & Lambert Inc  
 Protection Products Mfg Co  
 Quartz Mosaic Inc  
 Ranette Mfg Co  
 Rockcote Paint Co  
 Sapolin Paints Inc  
 Selditz Paint & Varnish Co  
 Selby Battersby & Co  
 Sherwin-Williams Co  
 Sonneborn L Sons Inc  
 Stay-Tite Products Co  
 Steelcote Manufacturing Co  
 Tamm Industries Co  
 Thompson E A Co Inc  
 Tremeo Mfg Co  
 Tufcrete Co Inc  
 Twentieth Century Paint & Varnish  
 United States Gypsum Co  
 United States Plywood Corp  
 U S Protective Coatings Inc  
 Valspar Corp  
 Vita-Var Corp  
 Wadsworth Howland & Co  
 Watco-Dennis Corp  
 Wooster Sealcoat Co  
 X-Pando Corp  
 Yenkin-Majestic Paint 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 State Steel Ind Inc  
 Colonial Fireplace Co  
 Columbia Brick Works  
 Donley Brothers Co  
 Dura-Vent Corp  
 Goodwin of Calif Inc  
 Grillcraft Co  
 Harris Inc  
 Hasty-Bake Mfg Co Inc

Howas-S M Inc  
 Industrial Iron Works  
 Majestic Co Inc  
 Miller Howard Clock Co  
 Morgan Company  
 Outdoor Oven Fireplace Co  
 Readybuilt Products Co  
 Silent Glow Oil Burner Co  
 State Steel Industries Inc  
 Strait & Richards 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  
 Oakland Foundry Co  
 Readybuilt Products Co  
 Stratton Terstegge Co  
 Vega Industries Inc

**Fireplaces, Units, Metal**

Bennett-Ireland Inc  
 Builders Brick Co  
 Builders Fireplace & Supply  
 Colonial Fireplace Co  
 Columbia Brick Works  
 Condon-King Co  
 Donley Brothers Co  
 Douglass Mfg Corp  
 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**

**Jaycandescent**  
**LIGHTING ORIGINALS**

100's of traditional, contemporary and transitional ceiling and wall fixture designs for home and commercial use.

**PARASOL**  
**SERIES**

Newest light under the sun! Wall and ceiling fixtures resplendent in white and gold striping.



ANZAC—Spectacular wall and ceiling fixtures with walnut boomerang motif.  
 VISORlite®—New concept in dramatic wall lighting.

At distributors in principal cities or write for literature Dept. AB60.  
**JAY LIGHTING MFG. CO., Inc.**  
 5 East 35th St., New York 16, N. Y.

American Louver Co  
 Arrow Hart & Hegeman Elec Co  
 Art Metal Co  
 Atlas Electric Prods Co  
 Benjamin Electric Co  
 Cannon Electric Co  
 Curtis-Albright Lighting Inc  
 Del Val Mfg Co  
 Eagle Electric Mfg Co  
 Emerson Electric Mfg Co  
 Emerson-Imperial Lighting Co  
 Emerson-Pryne Co

Frink Corp  
 Gen Electric Co Circuit Prod Devices  
 Glasco Co  
 Great Northern Mfg Corp  
 Holophane Co Inc  
 Hubbell Harvey Inc  
 Jay Lighting Mfg Co Inc  
 Kirlin Co  
 Kraus Walter S Co  
 Kulin Co  
 Lightolier Inc  
 Litecraft Mfg Corp  
 Luminous Ceilings Inc  
 Markel Electric Prods Inc  
 Marvin Manufacturing Co  
 Miller Co  
 Miller Howard Clock Co  
 Morgan-Wightman Co  
 Pass & Seymour Inc  
 Penetrax Corp  
 Prescolite  
 Progress Mfg Co Inc  
 Pyle-National Co  
 Rodale Manufacturing Co Inc  
 Silvray Lighting Inc  
 Smoot-Holman Co  
 Stonco Electric Prods Co  
 Swivelier Co Inc  
 Sylvania Elec Prods Inc  
 Tennessee Fabricating Co  
 Thomas Industries Inc  
 Touch Plate Mfg Corp  
 Virden John C Co  
 Virginia Glass Products Corp  
 Wakefield Co  
 Westinghouse Electric Corp  
 Wiley R & W Inc  
 Zenith Metal Products Co

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

**Flashing, Aluminum**

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

**Flashing, Copper**

American Brass Co  
 American Siskraft Corp  
 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 Inc  
 Penn Supply & Metal Corp  
 Revere Copper & Brass Inc  
 Reynolds Aluminum Supply Co  
 Wasco Products Inc

**Flashing, Galvanized & Terne**

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  
 Penn Supply & Metal Corp  
 Reeves Steel & Mfg Co Div  
 Republic Steel Corp  
 Reynolds Aluminum Supply Co

Saint Paul Corrugating Co  
 Tennon Bros Inc  
 Wheeling Corrugating Co  
 Yeck Mfg Co

**Flashing, Paper-Treated**

American Siskraft Corp  
 Johns-Manville Corp  
 Kordite Corp  
 Lehon Co  
 Ludlow Papers Inc  
 National Mfg Corp  
 Pioneer Div Flintkote Co  
 Protective Papers Inc  
 Richkraft Co  
 Thilmany Pulp & Paper Co  
 Wasco Products Inc

**Flashing, Plastic**

Carrollton Manufacturing Co  
 Dasco Co Inc  
 Delta Co  
 Dow Chemical Co  
 Viking Co  
 Wasco Products Inc

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

**Flooring, Beech**

Marsh Lumber 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 So Div Potlatch Forests Inc  
 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  
 Exchange Sawmills Sales Co  
 Fair D L Lumber Co  
 Fordyce Lumber Co  
 Frost Forest Products Div  
 Galloway Lumber Co  
 General Oak Flooring 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  
 King Lumber Industries  
 Leathers A H Mfg Co  
 Marsh Lumber Co  
 McMinnville Mfg Co  
 Meadow River Lumber Co  
 Meridian Wood Prods Co  
 Miller Bros Co  
 Monarch Flooring Co  
 Mower Lumber Co  
 National Forest Prods Co

Ozan Lumber Co  
 Ozark Oak Flooring Co  
 Phillips Rhyne Lumber Co Inc  
 Pickens Hardwood Flooring Co Inc  
 Plyfloor Inc  
 Plywood Co  
 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  
 Tremont Lumber Co  
 Triplett Lumber Co Inc  
 Veach-May-Wilson Inc  
 Virginia Oak Flooring Co Inc  
 Webster H E Lumber Co  
 Wells J W Lumber Co  
 Williams J L & Sons  
 Williams & Voris Hardwood Co  
 Wood-Mosaic Corp Parkay Div  
 Yawkey Bissell Hardwood Flooring Co  
 Youngblood Lumber Co

**Flooring, Hardwood,  
 Pre-Finished**

Bangkok Industries Inc  
 Bradley So Div Potlatch Forests Inc  
 Bruce E L Co  
 Cromar Co  
 Fair D L Lumber Co  
 Higgins Industries Inc  
 Horner Flooring Co  
 McMinnville Mfg Co  
 Memphis Hardwood Flooring Co  
 Modernwood Co  
 Plyfloor Inc  
 Wood-Mosaic Corp Parkay Div

**Flooring, Linoleum**

Armstrong Cork Co  
 Bird & Son Inc  
 Congoleum-Nairn Inc

**Flooring, Maple**

Marvel Metal Prods Co

**Flooring, Parquetry**

Bangkok Industries Inc  
 Berger Insulation Co Inc  
 Bradley So Div Potlatch Forests Inc  
 Bruce E L Co  
 Connor Lumber & Land Co  
 Cromar Co  
 Diamond Lumber Co  
 Fair D L Lumber Co  
 Georgia Pacific Corp  
 Graybeal C R & Sons  
 Harris Mfg Co  
 Higgins Industries Inc  
 Modernwood Co  
 Plyfloor Inc  
 Robbins Flooring Co  
 Tibbals Flooring Co



Virginia Oak Flooring Co Inc  
 Wells J W Lumber Co  
 Wood-Mosaic Corp Parkay Div  
 Yawkey Bissell Hardwood Flooring Co

**Flooring, Pecan**

Hassell & Parkes Inc

**Flooring, Pine & Fir**

Bradley So Div Potlatch Forests Inc  
Brooks-Scanlon Inc  
Crossett Lumber Co  
Dierks Forests Inc  
Fair D L Lumber Co  
Georgia Pacific Corp  
Hardwood Corp of America  
Lightsey Bros  
Mauk Seattle Lumber Co  
Ozan Lumber Co  
Pacific Lumber Co  
Phillips Ryhne Lumber Co Inc  
Rosboro Lumber Co  
Southern Pine Lumber Co  
Veach-May-Wilson Inc  
Weyerhaeuser Co Lumber & Plywood Div

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

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

**Flooring, Underlayment**

Aetna Plywood & Veneer Co  
Allied Chemical Corp Barrett Div  
Allied Compositions Co Inc  
American Asbestos Product Co  
American Bitumuls & Asphalt Co  
American Mat Corp  
Armstrong Cork Co  
Azrock Floor Prod Div Uvalde Rock  
Borden Chemical Co Div Borden Co  
Camp Co Inc  
Carey Phillip Mfg Co  
Celotex Corp  
Dasco Co Inc  
Flexrock Co  
Flintkote Co  
Forest Fiber Products Co  
Georgia Pacific Corp  
Gering Plas Div Studebaker-Packard Co  
Goodrich B F Co Flooring Products  
Harbor Plywood Corp  
Insultite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Kochion Plywood & Veneer Co Inc  
Masonite Corp  
Meadow W R Inc  
Milwaukee Plywood Co  
Miracle Adhesives Corp  
National Mfg Corp  
Paxton Frank Lumber Co  
Pecora Inc  
Presstite Div American-Marietta Co  
Protective Papers Inc  
Selby Battersby & Co  
Southern Plaswood Corp  
Tamm Industries Co  
Thomas Moulding Floor Co Inc  
Thomason Plywood Corp  
Tremco Mfg Co  
Tufcrete Co Inc  
United States Gypsum Co  
United States Plywood Corp  
Weyerhaeuser Co Silvatek Div  
Wood Conversion Co

**Flooring & Wall Covering,  
Marble  
(See also Stone, Marble)**

Carthage Marble Corp  
Dasco Co Inc  
Marsh Wall Products Inc  
Vermont Marble Co

**Flue Lining**

American Vitrified Prods Co  
Columbia Brick Works  
Dee Clay Prod Co Inc

Evans Brick Co  
Interstate Brick Co  
Owenboro Sewer Pipe Co  
Patton Clay Mfg Co  
Pomona Terra-Cotta Co  
Robinson Clay Product Co  
Stillwater Clay Products Co  
Straitsville Brick Co  
Streator Drain Tile Co

**Flues & Chimneys,  
Prefabricated**

Condensation Engineering Co  
General Products Co  
Majestic Co Inc  
Metalbestos Div Wm Wallace Co  
Streator Drain Tile Co  
Van Packer Co Div Flintkote Co  
Vega Industries Inc

**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**

Aetna Steel Prods Corp  
Amweld Bldg Prods Div Am Weld & Mfg  
Ceco Steel Prods Corp  
Clay Equipment Corp  
Federal Windows Mfg Co Inc  
Fenestra Inc  
International Fireproof Door Co  
Kewanee Mfg Co  
Knapp Brothers Mfg Co  
Lorenz Prods Inc  
Marmet Corp  
Mauk Seattle Lumber Co  
Mesker Bros Iron Co  
Metal Crafters  
Mueller Brass Co  
National Aluminum Co  
One-Der Frame Corp  
Pittsburgh Plate Glass Co  
Republic Steel Corp Truscon Div  
Richards-Wilcox Mfg Co  
Richmond Fireproof Door Co  
Spartan Steel Products Corp  
Starline Inc  
Steelcraft Mfg Co  
Trimco Metal Products  
United Steel Fabricators Inc  
Virginia Metal Products Inc

**Frames, Door & Window,  
Wood**

Andersen Corp  
Anson & Gilkey Co  
Bradley So Div Potlatch Forests Inc  
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  
Hyde-Murphy Co

Ideal Co Mfg Div Wm Cameron & Co  
International Paper Co Long-Bell Div  
Keystone Frame & Mfg Co  
Lorenz Prods Inc  
Malta Mfg Co  
Missoula White Pine Sash Co  
Mutual Fir Column Co  
Pacific Mfg Co  
Pacific Mutual Door Co  
Rockwell of Randolph Inc  
Southern Mill & Mfg Co  
Wel-Bilt Products Co  
Western Pine Mfg Co  
White Pine Sash Co  
Woodward Lumber Co

**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  
Amer Standard Air Conditioning Div  
Armstrong Furn Co Div Natl U E  
Bard Mfg Co  
Bryant Manufacturing Co  
Burnham Corp Warm Air & Cooling Div  
Carrier Corp  
Chattanooga Royal Co  
Coleman Co Inc  
Day & Night Mfg Co  
Delco Appliance Div General Motors  
Dowagiac Steel Furnace Co  
Dravo Corp  
Empire Stove Co  
General Automatic Products Corp  
Gen Electric Co Air Conditioning Dept  
Hell-Quaker Corp  
Henry Furnace Co  
Hess Co  
International Oil Burner Co  
Iron Fireman Mfg Co  
Jackson & Church Div York-Shipley Inc  
Janitrol Heating & Air Conditioning  
Kaustine Furnace & Tank Co  
Lennox Industries Inc  
Majestic Co Inc  
Mayflower Air-Conditioners Inc  
Meyer Furnace Co  
Monogram Industries Inc  
Morrison Steel Products Inc  
Motor Wheel Corp Duo-Therm Div  
Mueller Climatrol Div Worthington Corp  
National-U S Radiator Corp  
Niagara Furn Div Forest Fdry Co  
Northwest Foundry & Furnace Co  
Olsen C A Mfg Co  
Patten J V Co  
Payne Co  
Perfection Industries Div Hupp Corp  
Pioneer Manufacturing Co  
Premier Furnace Co  
Rheem Mfg Co  
Richmond Plumbing Fixtures  
Roberts Gordon Appliance Corp  
Rybolt Heater Co  
Samuel Stamping & Enameling Co  
Sequoia Manufacturing Co  
Smith A O Corp Permaglas Div  
Stratton Terstegge Co  
Temco Inc  
Temperature Appliance Mfg Co  
Thatcher Furnace Co  
Toridheet Div Cleveland Steel Prods Corp

Typhoon Air Cond Co Div Hupp Corp  
 Viking Mfg Corp  
 Wayne Home Equipment Co Inc  
 Williams Oil-O-Matic Heat Co Div  
 Williamson Co  
 Wood John Co Heater & Tank Div  
 York Corp Sub Borg-Warner  
 York-Shipley Inc

### Furnaces, Floor

Bryant Manufacturing Co  
 Cavalier Corp  
 Ceilheat Inc  
 Coleman Co Inc  
 Coolerator McGraw-Edison  
 Empire Stove Co  
 General Automatic Products Corp  
 Holly-General Co Div Siegler Corp  
 Janitrol Heating & Air Conditioning Div  
 Kresky Mfg Co Inc  
 Kresno-Stamm Mfg Co  
 Little H C Burner Co  
 Monogram Industries Inc  
 Morrison Steel Products Inc  
 Northwest Metal Products Inc  
 Payne Co  
 Premier Furnace Co  
 Rheem Mfg Co  
 Samuel Stamping & Enameling Co  
 Stratton Terstegge Co  
 Superflame Queen Prods Div King Seeley  
 Temco Inc  
 Temperature Appliance Mfg Co  
 Typhoon Air Cond Co Div Hupp Corp  
 Viking Mfg Corp  
 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 Manufacturing Co  
 Burnham Corp Warm Air & Cooling Div  
 Carrier Corp  
 Chattanooga Royal Co  
 Coleman Co Inc  
 Day & Night Mfg Co  
 Delco Appliance Div General Motors  
 Dowagiac Steel Furnace Co  
 Dravo Corp  
 Empire Stove Co  
 Gaffers & Sattler  
 Gen Electric 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  
 Iron Fireman Mfg Co  
 Jackson & Church Div York-Shipley Inc  
 Janitrol Heating & Air Conditioning Div  
 Johnson S T Co  
 Kaustine Furnace & Tank Co  
 Lennox Industries Inc  
 Majestic Co Inc  
 Mayflower Air-Conditioners Inc  
 Meyer Furnace Co  
 Monogram Industries Inc  
 Morgan-Wightman Co  
 Morrison Steel Products Inc  
 Mueller Climatrol Div Worthington Corp  
 National-U S Radiator Corp  
 Niagara Furnace Div Forest Foundries Co  
 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  
 Rheem Mfg Co  
 Richmond Plumbing Fixtures  
 Roberts Gordon Appliance Corp  
 Rybold Heater Co  
 Sequoia Manufacturing Co  
 Smith A O Corp Permaglas Div  
 Stewart-Warner Corp  
 Stratton Terstegge Co  
 Temco Inc  
 Temperature Appliance Mfg Co  
 Thatcher Furnace Co  
 Toridheet Div Cleveland Steel Prods Corp  
 Tuck-Aire Furnace Co  
 Typhoon Air Cond Co Div Hupp Corp  
 Viking Mfg Corp  
 Wayne Home Equipment Co Inc  
 Williams Oil-O-Matic Heat Co Div  
 Williamson Co  
 Wood John Co Heater & Tank Div  
 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 Manufacturing Co  
 Burnham Corp Warm Air & Cooling Div  
 Carrier Corp  
 Chattanooga Royal Co  
 Chicago Fire Brick Co  
 Coleman Co Inc  
 Delco Appliance Div General Motors  
 Dowagiac Steel Furnace Co  
 Dravo Corp  
 Empire Stove Co  
 General Automatic Products Corp  
 Gilbert & Barker Mfg Co  
 Hell-Quaker Corp  
 Henry Furnace Co  
 Hess Co  
 Iron Fireman Mfg Co  
 Jackson & Church Div York-Shipley Inc  
 Janitrol Heating & Air Conditioning Div  
 Kaustine Furnace & Tank Co  
 Lennox Industries Inc  
 Majestic Co Inc  
 Mayflower Air-Conditioners Inc  
 Meyer Furnace Co  
 Morrison Steel Products Inc  
 Mueller Climatrol Div Worthington Corp  
 National-U S Radiator Corp  
 Niagara Furn Div Forest City Found Co  
 Norman Products Co  
 Northwest Foundry & Furnace Co  
 Olsen C A Mfg Co  
 Patten J V Co  
 Payne Co  
 Perfection Industries Div Hupp Corp  
 Pioneer Manufacturing Co  
 Premier Furnace Co  
 Reznor Mfg Co  
 Rheem Mfg Co  
 Richmond Plumbing Fixtures  
 Rybold Heater Co  
 Sequoia Manufacturing Co  
 Stratton Terstegge Co  
 Temco Inc  
 Thatcher Furnace Co  
 Toridheet Div Cleveland Steel Prods Corp  
 Typhoon Air Cond Co Div Hupp Corp  
 Viking Mfg Corp  
 Wayne Home Equipment Co Inc  
 Williams Oil-O-Matic Heating Co Div  
 Williamson Co  
 Wood John Co Heater & Tank Div  
 York Corp Sub Borg-Warner  
 York-Shipley Inc  
 Zink John Co

### Furnaces, Wall

Armstrong Products Corp

Chattanooga Royal Co  
 Coleman Co Inc  
 Day & Night Mfg Co  
 Empire Stove Co  
 Gaffers & Sattler  
 Holly-General Co Div Siegler Corp  
 International Oil Burner Co  
 Kresky Mfg Co Inc  
 Little H C Burner Co  
 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 Manufacturing 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  
 Square D Co

### Garage Doors (See Doors, Garage)

### Garage Hardware (See Hardware, Garage)

### Garages, Prefabricated (See Directory of Home Manufacturers)

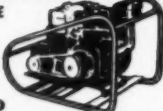
### Garbage Disposers (See Disposers, Garbage; also See Incinerators)

### Generators, Engine-Driven

Fabrow Mfg Inc  
 Katolight Corp  
 Kohler Co  
 Onan D W & Sons Inc  
 Pacific Mercury Marketing Div  
 Universal Motor Co  
 Waukesha Motor Co  
 Wincharger Corp  
 Witte Engine Works Oil Well Supply Div

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DRIVEN		12,000
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 Jackson Vibrators Inc  
 Katolight Corp  
 Kohler Co  
 Master Mechanic Mfg Co  
 Master Vibrator Co  
 Milwaukee Elec Tool Corp  
 Onan D W & Sons Inc  
 Pacific Mercury Marketing Div  
 Pioneer Gen E Motor Corp  
 Rockaway Sales Co  
 Speedway Mfg Div Thor Power Tool Co  
 Thor Power Tool Co  
 Universal Motor Co  
 Wincharger Corp  
 Winpower Mfg Co

**Glass, Architectural & Ornamental**

American-Saint Gobain Corp  
 Blue Ridge Glass Corp  
 Forman-Ford & Co  
 Libbey-Owens-Ford Glass Co  
 Mississippi Glass Co  
 Nurre Co  
 Pennsylvania Wire Glass Co  
 Perrine Industries Inc  
 Pittsburgh Plate Glass Co  
 Safetee Glass Co

**Glass Blocks**

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

**Glass, Crystal Sheet**

American-Saint Gobain Corp  
 Fourco Glass Co  
 Libbey-Owens-Ford Glass Co  
 Nurre Co  
 Pittsburgh Plate Glass Co  
 Toledo Plate & Window Glass Co

**Glass, Double Pane**

Forman-Ford & Co  
 Libbey-Owens-Ford Glass Co  
 Mondial United Corp  
 Nurre Co  
 Perrine Industries Inc  
 Pittsburgh Plate Glass Co  
 Toledo Plate & Window Glass Co

**Glass, Plate**

American-Saint Gobain Corp  
 Donnelly-Keiley Glass Co  
 Forman-Ford & Co  
 Goshen Sash & Door Co  
 Libbey-Owens-Ford Glass Co  
 Nurre Co  
 Pittsburgh Plate Glass Co  
 Safetee Glass Co  
 Toledo Plate & Window Glass Co

**Glass, Structural**

American-Saint Gobain Corp  
 Mondial United Corp  
 Perrine Industries Inc

**Glass, Window, Wire**

American-Saint Gobain Corp  
 Blue Ridge Glass Corp  
 Forman-Ford & Co  
 Goshen Sash & Door Co  
 Libbey-Owens-Ford Glass Co

Mississippi Glass Co  
 Nurre Co  
 Perrine Industries Inc  
 Pittsburgh Plate Glass Co  
 Toledo Plate & Window Glass Co

**Glazing Compounds  
 (See Caulking & Glazing Compounds)**

**Greenhouses, Prefabricated**

Jones Shutter Products  
 Lord & Burnham Div Burnham Corp

**Grilles, Door & Window**

Bayley William Co  
 Cincinnati Iron Fence Co Inc  
 Curtis Companies Inc  
 Hendrick Mfg Co  
 Hutchinson R H & Co  
 Macklanburg-Duncan Co  
 Metal Crafters  
 Meyers Fred L Mfg Co  
 United States Register Co  
 Webb Mfg Co Inc  
 Yeck Mfg Co

**Grinders, Drill**

McDonough Mfg Co

**Grinders, Tool & Cutter**

McDonough Mfg Co

**Guards, Areawall  
 (See Areawalls & Guards)**

**Gum Lumber  
 (See Lumber, Gum)**

**Guns, Caulking**

Force-Flo Inc

**Guns, Paint Spray  
 (See Paint Spray Guns)**

**Guns, Pneumatic Concrete Application**

Air Placement Equipment Co  
 Santa Anita Mfg Co  
 Sprayton Equipment Co

**Guns, Pneumatic, Plaster**

Plastering Development Center Inc

**Gutters, Metal**

Alabama Metal Lath Co Inc  
 Aluminum Co of America  
 Ceco Steel Prods Corp  
 Chase Brass & Copper Inc  
 Inland Steel Products Co  
 Keystone Mfg Co  
 Klauer Mfg Co  
 Lyon Conklin & Co Inc  
 Northwest Metal Products Inc  
 Penn Supply & Metal Corp  
 Quaker State Metals Co  
 Reeves Steel & Mfg Co  
 Republic Steel Corp  
 Reynolds Aluminum Supply Co  
 Reynolds Metals Co  
 Saint Paul Corrugating Co  
 Tennison Bros Inc  
 Wheeling Corrugating Co  
 Zurn Industries Inc Plumbing Prods Div

**Gypsum Plaster  
 (See Plaster, Gypsum)**

**Hammers, Gasoline**

Barco Mfg 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 Line Sales Inc  
 Powernail Co  
 Speedway Mfg Div Thor Power Tool Co  
 Thor Power Tool Co  
 Worthington Corp

**Hammers, Portable Electric**

Black & Decker Mfg Co  
 Blum Julius & Co Inc  
 Homelite Div Textron Inc  
 Ingersoll-Rand Co  
 Master Vibrator Co  
 Millers Falls Co  
 Milwaukee Elec Tool Corp  
 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**

Amer-Standard Plumbing & Heating Div  
 Hollaender Manufacturing Co  
 Kohler Co  
 Lucke William B Inc  
 Mirro Chrome Co Inc

**Hangers, Insulation**

Moore Goodloe E Inc

**Hangers, Joist & Lumber**

Adams Co  
 Baumgartner Gate Factory  
 Cleveland Steel Specialty Co  
 Copeo Steel & Engineering Co  
 Dayton Sure-Grip & Shore Co  
 Donley Brothers Co  
 Harris Inc  
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 Inland Steel Products Co  
 Kees F D Mfg Co

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 Armstrong Cork Co

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 Cascades Plywood Corp  
 Celotex Corp  
 Commonwealth Lumber Corp  
 Diamond Lumber Co  
 Erdle Perforating Co Inc  
 Evans Products Co  
 Evans Products Co  
 Flintkote Co  
 Forest Fiber Products Co  
 Georgia Pacific Corp  
 Harbor Plywood Corp  
 Insullite Div Minn & Ontario Paper Co  
 Johns-Manville Corp  
 Kaiser Gypsum Co Inc  
 Keasbey & Mattison Co  
 Kochton Plywood & Veneer Co Inc  
 Marsh Wall Products Inc  
 Masonite Corp  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 National Gypsum Co  
 Oregon Lumber Co  
 Paxton Frank Lumber Co  
 Reynolds Aluminum Supply Co  
 Roddis Plywood Corp  
 Simpson Logging Co  
 Superwood Corp  
 United States Gypsum Co  
 United States Plywood Corp  
 Woodall Industries Inc  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Hardware, Cabinet

Acme Appliance Mfg Co Acme Bidrs  
 Acorn Mfg Co  
 Ajax Hardware Corp  
 Amerock Corporation

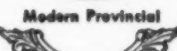
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PULLS**


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per, and Black finishes.




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 Dexter Lock Div Dexter Industries  
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 Extension Drawer Support Co  
 Frantz Mfg Co  
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 Griffin Mfg Co  
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 National Mfg Co  
 Nordahl Sliding Door Frames  
 Pacific Brass & Hardware Mfg Co  
 Parker S Hdwe Mfg Corp  
 Penn-Akron Corp  
 Russell & Erwin Div Amer Hdwe Corp  
 Safe Padlock & Hdwe Co  
 Sargent & Co  
 Selck Walter E & Co  
 Sharon Hardware Mfg Co  
 Shelby Metal Prods Co  
 Shelby Spring Hinge Co  
 Slaymaker Lock Co  
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 Stanley Works  
 Sterling John Corp  
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 Triangle Mfg Co  
 Turner Corp  
 Washington Steel Prods  
 Western Lock Mfg Co  
 Yale & Towne Mfg Co Yale Lock &  
 Hardware Div  
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 Air Control Products Inc  
 Ajax Hardware Corp  
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 Allith-Prouty Inc  
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 Corbin P & F Div American Hdwe Corp  
 Detroit Hardware Mfg Co  
 Dexter Lock Div Dexter Industries  
 Earle Hardware Mfg Co  
 Fenestra Inc

Frantz Mfg Co  
 Getty H S & Co Inc  
 Gougler C L Machine Co Lock Div  
 Grand Specialties Co  
 Grant Pulley & Hardware Corp  
 Griffin Mfg Co  
 Hager C & Sons Hinge Mfg Co  
 Hardware Products Inc  
 Harloc Products Corp  
 Hinge Butt Template  
 Ideal Brass Works Inc  
 Independent Lock Co  
 Ives H B Co  
 Kant-Slam Door Check Co  
 Knappe & Vogt Mfg Co  
 Kwikset Div American Hardware Corp  
 LCN Closers Inc  
 Lawrence Brothers Inc  
 Leigh Bldg Prods Div Air Con Prods Inc  
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 Russell & Erwin Div Amer Hdwe Corp  
 Safe Padlock & Hdwe Co  
 Sargent & Co  
 Schlage Lock Co  
 Sentry Stop-A-Draft Co  
 Shelby Spring Hinge Co  
 Slaymaker Lock Co  
 Soss Mfg Co  
 Stanley Works  
 Starline Inc  
 Sterling John Corp  
 Trego Industries  
 United States Plywood Corp  
 Wagner Mfg Co  
 Washington Steel Prods  
 Weiser Co  
 Western Lock Mfg Co  
 Wright Prods Inc  
 Yale & Towne Mfg Co Yale Lock

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 Barber Colman Co  
 Better-Bilt Door Co  
 Calder Mfg Co  
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 Hager C & Sons Hinge Mfg Co  
 Howell Mfg Co  
 Lawrence Brothers Inc  
 McKee Door Co  
 Phenix Mfg Co  
 Power Door Co  
 Raynor Mfg Co  
 Richards-Wilcox Mfg Co  
 Ridge Door Co  
 Stanley Works  
 Tavant Co  
 Taylor Lock Co  
 Wagner Mfg Co

Wel-Bilt Products Co  
Winfield Door Corp  
Yale & Towne Mfg Co Yale Lock

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Amerock Corporation  
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  
Lockwood Hardware Mfg Co  
Ludwig Mfg Co Inc  
McKinney Mfg Co  
National Lock Co  
National Mfg Co  
Parker S Hdwe Mfg Corp  
Russell & Erwin Div Amer Hdwe Corp  
Safe Padlock & Hdwe Co  
Sharon Hardware Mfg Co  
Shelby Metal Prods Co  
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Clay Equipment Corp  
Colorado Fuel & Iron Corp  
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Croft Metal Products Inc  
Designware Industries Inc  
Dexter Lock Div Dexter Industries  
Engineered Products Co  
Frantz Mfg Co  
Grant Pulley & Hardware Corp

Hager C & Sons Hinge Mfg Co  
Independent Lock Co  
Kennatrack Corp Sub Ekco Prods  
Knappe & Vogt Mfg Co  
Labrie Mfg Co Inc  
Lanebro Mfg Co  
Lawrence Brothers Inc  
Leigh Bldg Prods Div Air Con Prods Inc  
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Louden Machinery Co  
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McKinney Mfg Co  
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Morgan-Wightman Co  
National Aluminum Co  
National Mfg Co  
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Olson Mfg Co  
Pacific Brass & Hardware Mfg Co  
Parker S Hdwe Mfg Corp  
Peters Jas & Son  
Richards-Wilcox Mfg Co  
Russell & Erwin Div Amer Hdwe Corp  
Safe Padlock & Hdwe Co  
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Sterling John Corp  
Wagner Mfg Co  
Washington Steel Prods  
Western Lock Mfg Co  
Yale & Towne Mfg Co Yale Lock

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Arro Expansion Bolt Co  
Donley Brothers Co  
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Croft Metal Products Inc  
Detroit Hardware Mfg Co  
Dexter Lock Div Dexter Industries  
Fenestra Inc  
Frantz Mfg Co  
Getty H S & Co Inc  
Grand Rapids Hardware Co  
Griffin Mfg Co  
Hager C & Sons Hinge Mfg Co  
Ideal Brass Works Inc  
Ives H B Co  
Lawrence Brothers Inc  
Ludman Corp  
Macklanburg-Duncan Co  
McKinney Mfg Co  
Midwest Wholesale Hardware Co  
National Lock Co  
National Mfg Co  
Pacific Brass & Hardware Mfg Co  
Parker S Hdwe Mfg Corp  
Rusco Windows Inc of Florida  
Russell & Erwin Div Amer Hdwe Corp

Safe Padlock & Hdwe Co  
Sargent & Co  
Sharon Hardware Mfg Co  
Shelby Metal Prods Co  
Shelby Spring Hinge Co  
Slaymaker Lock Co  
Stanley Works  
Star Expansion Industries Corp  
Sterling John Corp  
Unique Balance  
Unique Window Balance Corp  
Universal Window Co  
Vulcan Metal Prods Inc  
Whitney Vincent Co  
Wright Prods Inc  
Yale & Towne Mfg Co Yale Lock

### Heat Pumps (See Pumps, Heat)

### Heaters, Bathroom

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Allied Precision Indus Inc  
Armstrong Products Corp  
Berns Air King Corp  
Broan Mfg Co Inc  
Cavalier Corp  
Cellheat Inc  
Chattanooga Royal Co  
Dixie Radiant Electric Heat Corp  
Dura-Vent Corp  
Electrend Products Corp  
Electromode Div Commercial Controls  
Emerson Electric Mfg Co  
Emerson-Pryne Co  
Empire Stove Co  
Heatmore Inc  
Hunter Div-Robbins & Myers Inc  
Lehon Co  
Markel Electric Prods Inc  
Miami Cabinet Div Philip Carey Mfg  
NuTone Inc  
Ohio Foundry & Mfg Co  
Samuel Stamping & Enameling Co  
Shepler Mfg Co  
Thermador Elec Mfg Co  
Trade-Wind Div Robbins & Myers Inc  
Ventrola Mfg Co  
Wesix Electric Heater Co  
Westinghouse Electric Corp  
Wiegand Edwin L Co

### Heaters, Contractors, Portable

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American Air Filter Co  
Armstrong Products Corp  
Bica Co  
Champion Mfg Co  
Coleman Co Inc  
Columbia Brick Works  
Dixie Radiant Electric Heat Corp  
Donley Brothers Co  
Electromode Div Commercial Controls  
Goldblatt Tool Co  
Hell-Quaker Corp  
Insto-Gas Corp  
Jackson Mfg Co  
Kelley Mach Div Wiesner-Rapp Co Inc  
Locke Stove Co  
Master Vibrator Co  
Monarch Range Co  
Muller Machinery Co Inc  
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  
Syo Steel Co  
Thermador Elec Mfg Co  
Vulcan Electric Co  
Western Metal Specialty Co  
Wiegand Edwin L Co

## Heaters, Unit

Adams Bros Mfg Co Inc  
Dura-Vent Corp  
Hell-Quaker Corp  
Holly-General Co Div Siegler Corp  
International Oil Burner Co  
Motor Wheel Corp Duo-Therm Div  
Young Radiator Co

## Heating Controls (See Controls, Heating)

## Heating Registers (See Registers, Heating & Ventilating)

## Heating Systems, Electric

Allied Precision Indus Inc  
Berko Electric Mfg Corp  
Brown Prods Co  
Carrier Corp  
Cavalier Corp  
Ceilheat Inc  
Continental Radiant Glass Heating  
Coolerator McGraw-Edison  
Dixie Radiant Electric Heat Corp  
Electrend Products Corp  
Electromode Div Commercial Controls  
Emerson Electric Mfg Co  
Everwarm Inc  
Gen Elec Co Const Mat Sales Operation  
General Electric Co Wiring Device Dept  
Gerwin Industries Inc  
Heatmore Inc  
Hunter Div-Robbins & Myers Inc  
ILG Electric Ventilating Co  
International Oil Burner Co  
Markel Electric Prods Inc  
Meier Electric & Machine Co Inc  
Muncie Gear Co  
Precision Parts Corp  
Rybolt Heater Co  
Slant-Fin Radiator Corp  
Sunwarm Inc  
Thermador Elec Mfg Co  
Typhoon Heat Pump Co Div Hupp Corp  
Vulcan Electric Co  
Wesix Electric Heater Co  
Westinghouse Electric Corp  
Wiegand Edwin L Co

## Heating Systems, Forced Warm Air

Airtemp Div Chrysler Corp  
American Furnace Co  
American Standard Air Conditioning Div  
Arkla Air Conditioning Corp  
Armstrong Furn Co Div Natl U E  
Bryant Manufacturing 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  
Dowaglac Steel Furnace Co  
Dravo Corp  
Electrend Products Corp  
Electromode Div Commercial Controls  
Empire Stove Co  
Evans Brick Co  
General Automatic Products Corp  
Gen Electric Co Air Conditioning Dept  
Gerwin Industries Inc  
Gilbert & Barker Mfg Co  
Henry Furnace Co  
Holland Furnace Co  
Holly-General Co Div Siegler Corp  
Hunter Div-Robbins & Myers Inc  
Iron Fireman Mfg Co  
Jackson & Church Div York-Shipley Inc

Kaustine Furnace & Tank Co  
Kresky Mfg Co Inc  
Kresno-Stamm Mfg Co  
Lennox Industries Inc  
Little H C Burner Co  
Majestic Co Inc  
Mayflower Air-Conditioners Inc  
Meyer Furnace Co  
Monogram Industries Inc  
Morrison Steel Products Inc  
Motor Wheel Corp Duo-Therm Div  
Mueller Climatrol Div Worthington Corp  
Murphy Precast Inc  
National-U S Radiator Corp  
Niagara Furn Div Forest City Foundries  
Norman Products Co  
Oakland Foundry Co  
Olsen C A Mfg Co  
Patten J V Co  
Payne Co  
Peerless Corp  
Peerless Heater Co  
Penn Boiler & Burner Mfg Corp  
Perfection Industries Div Hupp Corp  
Pioneer Manufacturing Co  
Premier Furnace Co  
Reznor Mfg Co  
Rheem Mfg Co  
Richmond Plumbing Fixtures  
Roberts Gordon Appliance Corp  
Robinson Clay Product Co  
Rybolt Heater Co  
Sequoia Manufacturing Co  
Straitsville Brick Co  
Stratton Terstegge Co  
Temco Inc  
Temperature Appliance Mfg Co  
Viking Mfg Corp  
Wiegand Edwin L Co  
Williams Oil-O-Matic Heating Co  
Williamson Co  
Wood John Co Heater & Tank Div  
York Corp Sub Borg-Warner  
York-Shipley Inc  
Zink John Co

## Heating Systems, Hot Water & Steam

Aldrich Co  
American Radiator & Standard Sanitary  
American-Standard Plumbing & Heating  
Bell & Gossett Co  
Brown Prods Co  
Burnham Boiler Corp  
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  
Gilbert & Barker Mfg Co  
Hoffman Specialty Mfg Corp  
Hydrotherm Inc  
Iron Fireman Mfg Co  
Johnson S T Co  
Koven L O & Bro Inc  
Kresno-Stamm Mfg Co  
Kritzer Radiant Coils Inc  
Little H C Burner Co  
Lookout Boiler & Mfg Co  
Modine Mfg Co  
Mueller Climatrol Div Worthington Corp  
National-U S Radiator Corp  
Nesbitt John J Inc  
Peerless Heater Co  
Penn Boiler & Burner Mfg Corp  
Precision Parts Corp  
Rheem Mfg Co  
Richmond Plumbing Fixtures  
Roberts Gordon Appliance Corp  
Ruud Mfg Co

## Slant-Fin Radiator Corp



## Slant/Fin hydronic baseboard sells homes faster

- offers more to buyer, builder, contractor •
- most desired heating • most economical to install • made by hot water heating specialists • known by those who know • fastest installing baseboard • industry's premium product •

**"The largest selling baseboard."**

Slant/Fin Radiator Corporation, 130-15 89 St, Richmond Hill, N. Y.

Smith A O Corp Permaglas Div  
Smith H B Co  
Spencer Heater Lycoming Div-Avco  
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  
Webster Warren & Co  
Well-McClain Co  
Williams Oil-O-Matic Heating Co Div  
Wood John Co Heater & Tank Div  
York-Shipley Inc  
Young Radiator Co

## Heating Systems, Radiant

Allied Precision Indus Inc  
Bell & Gossett Co  
Berko Electric Mfg Corp  
Burgess-Manning Co  
Burnham Boiler Corp  
Burnham Corp Warm Air & Cooling Div  
Byers A M Co  
Ceilheat Inc  
Continental Radiant Glass Heating  
Electromode Div Commercial Controls  
Embassy Steel Prods Inc  
Everwarm Inc  
Heatmore Inc  
Hunter Div-Robbins & Myers Inc  
Hydrotherm Inc  
Iron Fireman Mfg Co  
Kritzer Radiant Coils Inc  
Morrison Steel Products Inc  
National-U S Radiator Corp  
Panel Heat Inc  
Precision Parts Corp  
Reflectotherm Inc  
Rempe Co  
Stratton Terstegge Co  
Sunwarm Inc  
Taco Heaters Inc  
Thermador Elec Mfg Co  
Thrush H A & Co  
Utica Radiator Corp  
Viking Mfg Corp  
Wesix Electric Heater Co  
Wiegand Edwin L Co  
Woodside Engineering Co  
York-Shipley Inc



**Hemlock Lumber**  
(See Lumber, Hemlock)

**Hinges**

Ajax Hardware Corp  
Amerock Corporation

GENUINE  
**Amerock**  
HARDWARE  
**HINGES**

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

**ASK YOUR WHOLESALER**

AMEROCK CORPORATION

ROCKFORD, ILLINOIS

Austin & Eddy Inc  
Bommer Spring House Co Inc  
Brainerd Mfg Co  
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  
Miracle Hinge Co  
Morgan-Wightman Co  
National Lock Co  
National Mfg Co  
Pacific Brass & Hardware Mfg Co  
Parker S Hdwe Mfg Corp  
Richards-Wilcox Mfg Co  
Russell & Erwin Div Amer Hdwe Corp  
Safe Padlock & Hdwe Co  
Sharon Hardware Mfg Co  
Stanley Works  
Wright Prods Inc

**Hinges, Invisible**

Amerock Corporation  
National Lock Co  
Parker S Hdwe Mfg Corp  
Richards-Wilcox Mfg Co  
Soss Mfg Co  
Washington Steel Prods

**Hoists & Derricks**

**HENRY**  
LIFTS

Inexpensive to own  
and operate. No  
terrain too rough  
... no load too  
tough.

**YOU CAN DO  
IT BETTER  
WITH A  
HENRY**

Henry Mfg. Co. Topeka, Kansas

Allis Chalmers Mfg Const Mach Div  
American Engineering Co  
American Hoist & Derrick Co  
Beaver Advance Corp  
Bil-Jax Inc

C H & K Manufacturing Co  
Chicago Pneumatic Tool Co  
Clyde Iron Works Inc  
Construction Machinery Co  
Gardner-Desyer Co  
Grand Specialties Co  
Henry Mfg Co  
Hewitt-Robins Inc  
Hyster Co  
Ingersoll-Rand Co  
Jaeger Machine Co  
King Mfg Co

**KING HOISTS**  
Gasoline and Electric. Portable and material tower units. All sizes. 1, 2, 3 Drums. Also Derricks.

**KING MANUFACTURING CORP.**  
3130 W. Chicago Ave., Chicago 22, Ill.

Lewis-Shepard Products Inc  
Little Giant Prods Inc  
Louden Machinery Co  
Manning Maxwell & Moore Inc  
McCabe Powers Body Co  
Muller Machinery Co Inc  
Novo Pump & Engine Co  
Patent Scaffolding 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  
Universal Mfg Corp  
Yale & Towne Mfg Co Yale Materials

**Hoists, Truck**

Gallon Allsteel Body Co  
Gar Wood Industries Inc  
Hyster Co  
Little Giant Prods Inc  
Manning Maxwell & Moore Inc  
McCabe Powers Body Co  
Sasgen Derrick Co  
Schwartz Mfg Co  
Silent Hoist & Crane Co  
Uhrden Inc

**Hoods, Range**

Air Control Products Inc  
Aubrey Hardware Mfg Inc  
Berns Air King Corp  
Broan Mfg Co Inc  
Cal Vent Manufacturing Co  
Caloric Appliance Corp  
Carey Philip Mfg Co  
Chelsea Fan & Blower Co Inc  
Ductless Hood Co Inc  
Emerson-Pryne Co  
Fasco Industries Inc  
Gray & Dudley Co  
Gregg & Son Inc  
Jensen Industries  
Lau Blower Co  
Leigh Bldg Prods Div Air Con Prods Inc  
Major Industries Inc  
Miami Cabinet Div Philip Carey Mfg  
Morgan-Wightman Co

HOOD & FAN COMBINATION  
MIAMI-CAREY  
NUTONE

**MORGAN-WIGHTMAN**  
NATIONAL QUALITY SUPPLY HOUSE  
WRITE FOR  
NEW 188 PAGE CATALOG  
9910 PAGE - ST. LOUIS, MO.

National Stove Co  
Nutone Stove Co  
Pioneer Manufacturing Co  
Preway Inc  
Progress Mfg Co Inc  
Roberts Mfg Co  
Reynolds Aluminum Supply Co  
Stanthony Corp  
Stewart Industries Inc  
Swanson Mfg Co  
Tennessee Stove Works  
Trade-Wind Div Robbins & Myers Inc  
Universal Blower Co  
Vent-A-Head Co  
Ventrela Mfg Co  
West Wind Corp  
Zenith Metal Products Co

**Houses, Manufactured**  
(See Directory of Home Manufacturers)

**Humidifiers**

Abbeon Supply Co  
Skuttle Mfg Co  
Walton Laboratories Inc

**Walton** POSITIVE HUMIDIFICATION  
**HUMIDIFIERS**  
for every size home  
for every type of heating system  
WRITE WALTON LABORATORIES INC  
IRVINGTON, N. J.

**Incinerators**

Adams Co  
Alsto Co  
American Incinerator Corp  
Bowser Inc Supply Div  
Brule Incinerator Corp  
Calcinator Corp  
Caloric Appliance Corp  
Chicago Fire Brick Co  
Columbia Brick Works  
Donley Brothers Co  
Goder Joseph Inc  
Holland Furnace Co  
Incineration Div Bowser Inc  
Incinerator Products Co  
Industrial Iron Works  
Kerner Incinerator Div  
Lennox Industries Inc  
Locke Stove Co  
Majestic Co Inc  
Norman W F Sheet Metal Mfg Co  
Outdoor Oven Fireplace Co  
Roper Geo D Corp  
Suburban Propane Gas Corp  
Superflame Queen Prods Div  
Syrall Manufacturing Co  
Waste King Corp

**Instruments, Surveying**

Berger C L & Sons  
Bostrom-Brady Mfg Co  
Copperweld Steel Co Wire & Cable Div  
Dietzgen Eugene Co  
Geo-Optic Co  
Goldblatt Tool Co  
Hopkins Manufacturing Co  
Keuffel & Esser Co  
Starrett L S Co  
Warren-Knight Co  
White David Instrument 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 Sales Corp  
Flintkote Co  
Flintkote Co  
Insulite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Kaiser Gypsum Co Inc  
National Gypsum Co  
Pioneer Div Flintkote Co  
Plastergon Wall Board Co  
Protective Products Co  
Reynolds Aluminum Supply Co  
Rubatex Div of Great Amer Indus Inc  
Simpson Logging 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  
American Sisalkraft Corp  
Certain-Teed Sales Corp  
Corson G & W H Inc  
Delta Co  
Infra Insulation Inc  
Insulation Industries Inc  
Janesville Cotton Mills  
Kaiser Aluminum & Chemical Sales Inc  
Lehon Co  
Lifetime Industries Inc  
Lockport Mills Inc  
Logan-Long Co  
Ludlow Papers Inc  
Protective Paper Inc  
Quaker State Metals Co  
Reflectal Corp Sub Borg Warner  
Reynolds Aluminum Supply Co  
Reynolds Metals Co  
Ruberoid Co  
Silvercote Prods Inc  
Steelcote Manufacturing Co  
Thilmany Pulp & Paper Co  
Wilson Grant Inc

### **Insulation, Batt or Blanket, Cotton Fiber**

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

### **Insulation, Batt or Blanket, Fiber Glass**

Armstrong Cork Co  
Berger Insulation Co Inc  
Certain-Teed Sales Corp  
Flintkote Co  
Gustin-Bacon Mfg Co  
Insulite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Kochton Plywood & Veneer Co Inc  
Logan-Long Co  
Owens-Corning Fiberglass Corp  
Pioneer Div Flintkote Co  
Pittsburgh Plate Glass Co  
Reynolds Aluminum Supply Co  
Ruberoid Co  
Sealtite Insulation Mfg Corp  
Silvercote Prods Inc

Texas Vermiculite Co  
Tiger Brands Div 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  
Chicago Fire Brick Co  
Corson G & W H Inc  
Eagle-Picher Co  
Forty-Eight Insulations Inc  
Johns-Manville Corp  
Kaiser Gypsum Co Inc  
Lehon Co  
Logan-Long Co  
National Gypsum Co  
Reynolds Aluminum Supply Co  
Sealtite Insulation Mfg Corp  
Tiger Brands Div 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  
Reynolds Aluminum Supply Co  
Wood Conversion Co

### **Insulation, Board, Fiber**

Abitibi Corporation  
Air O-Cel  
Allied Chemical Corp Barrett Div  
Bird & Son Inc  
Carey Philip Mfg Co  
Celotex Corp  
Cemex of Arizona  
Certain-Teed Sales Corp  
Creo-Dipt Co Inc  
Dant & Russell Inc  
Flintkote Co  
Homasote Co  
Insulite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Keasbey & Mattison Co  
Logan-Long Co  
National Gypsum Co  
Pioneer Div Flintkote Co  
Plastergon Wall Board Co  
Reynolds Aluminum Supply Co  
Simpson Logging Co  
Southern Pine Lumber Co  
United States Gypsum Co  
Weatherbest Corp  
Wood Conversion Co

### **Insulation, Glass Cellular**

Palo-O-Pak Insulation Co Inc  
Pittsburgh Corning Corp  
Reynolds Aluminum Supply Co  
Ultra-Pane

### **Insulation, Granular Fill**

Acme Brick Co  
Armstrong Cork Co  
Berger Insulation Co Inc  
Certain-Teed Sales Corp  
Dodson Mfg Co Inc  
Graybeal C R & Sons  
Great Lakes Carbon Corp Perlite Dept  
Johns-Manville Corp  
Nelson B F Mfg Co  
Reynolds Aluminum Supply Co  
Ruberoid Co  
Texas Vermiculite Co  
Vermiculite-Northwest Inc  
Waylite Co

Wilson Grant Inc  
Zonolite Co

### **Insulation, Rigid Foamed Plastic**

Dow Chemical Co  
Gilman Bros Co  
Sterling Alderfer Co  
Uni-Crest Div United Cork

### **Insulation, Roof, Deck (See Decking, Insulating)**

### **Insulation, Slab Edge**

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

### **Insulation, Spray On**

Evercrete Corp  
Great Lakes Carbon Corp Perlite Dept  
Green A P Fire Brick Co  
Keasbey & Mattison Co  
Mortell J W Co  
Pioneer Div Flintkote Co  
Quigley Co Inc  
Sealtite Insulation Mfg Corp  
Texas Vermiculite Co  
U S Mineral Wool Co  
Vermiculite-Northwest Inc  
Zonolite Co

### **Intercoms & Radios**

Dukane Corp  
Executone Inc  
Fanon Electronic Industries Inc  
Flush Wall Radio Co  
Home Music Systems Inc  
Kaar Engineering Corp  
Mosley Electronics Inc  
Motorola Communications & Electronics  
Music & Sound Inc  
Musical Corp  
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  
Trade-Wind Div Robbins & Myers Inc  
Webster Electric Co

### **Iron, Ornamental (See Ornamental Iron)**

### **Ironers, Built-In**

Armstrong Products Corp  
Ironrite Inc

### **Jacks, Ceiling**

Gypsum Ceiling Jack Co

### **Jams, 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  
Cleveland Steel Specialty Co  
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 Armco Steel Corp  
Stran-Steel Corp Div Natl Steel Corp

## Kitchen Appliances (See Ranges & Ovens; also Refrigerators, Etc.)

## Kitchen Cabinets, Metal

Beautycraft Kitchens Div Miller Metal  
Dwyer Products Corp  
Earle Kitchen Unit Co  
Eijer Div Murray Corp of America  
Gen Elec Co Appliance & Television Div  
General Metalcraft Inc Olympa Div  
Geneva Modern Kitchens  
Kelvinator Div American Motors Co  
Kohler Co  
Kraus Walter S Co  
Marvel Metal Prods Co  
Morgan-Wightman Co  
Oakland Foundry Co  
Republic Steel Corp  
Republic Steel Corp Berger Div  
St Charles Mfg Co  
Shirley Corp  
Toledo Desk & Fixture Co  
Tracy-American Kitchens  
United Metal Cabinet Corp  
Walters Mfg Co  
Westinghouse Elec Appliances Div  
Youngtown Kitchens  
Zenith Metal Products Co

## Kitchen Cabinets, Wood

Adams Engineering Co  
Angel Co  
Askren J I Co  
Atkins Wood Products Corp  
Beautycraft Kitchens Div Miller Metal  
Belwood Industries Inc  
Boro Wood Prods Co Inc  
Brammer Mfg Co  
Caradeo Inc  
Colonial Products Co  
Coppes Inc  
Curtis Companies Inc  
Del-Mar Cabinet Co Inc  
Earle Kitchen Unit Co  
Farley & Loetscher Mfg Co  
Gregg & Son Inc  
Hyde-Murphy Co  
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  
Kraus Walter S Co  
Major Line Products Co Inc  
Marsh Furniture Co

Mengel Co  
Merillat Woodworking Co  
Morgan Company  
Morgan-Wightman Co



Mutschler Bros  
National Kitchens  
Nevamar Carefree Kitchens  
Pacific Mfg Co  
Peerless-Wood Products  
Precisionware Inc  
Royal Woodwork Inc  
Scheirich H J Co  
Schenck William & Co  
Spokane Sash & Door Co  
Texboro Cabinet Corp  
Western Pine Mfg Co  
Westinghouse Electric Appliance Div  
Wood Metal Industries  
Yeck Mfg Co

## Kitchens, Efficiency

Douglas Crestlyn International Inc

## Ladders & Accessories (See also Scaffolding & Shoring)

Abbeon Supply Co  
Adams Engineering Co  
Ajax Building Bracket Co  
Babcock W W Co Inc  
Ballymore Co  
Bauer Mfg Co  
Berg John Mfg Co  
Bradley Southern Div Potlatch Foresta  
Clark J R Co  
Clayton Mark & Co  
Dayton Safety Ladder Co  
Duo-Safety Ladder Corp  
Flint A W Co  
Goshen Churn & Ladder Inc  
Holland Ladder & Mfg Co  
Holms Mfg Co of Ohio  
Howard Mfg Co  
Larson Ladder Co  
Louisville Ladder Co  
Marlin Pool Equipment Co  
Mayes Bros Tool Mfg Co  
Michigan Ladder Co  
Moulton Ladder Mfg Co  
Newark Ladder & Bracket Co Inc  
Patent Scaffolding Co  
Philadelphia Screen Mfg Co  
Rich Howard B Inc  
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  
Jay Lighting Mfg Co Inc  
Kaiser Gypsum Co Inc

National Gypsum Co  
Reynolds Aluminum Supply Co  
Ruberoid Co  
United States Gypsum Co

## Lath, Insulating

Bestwall Gypsum Co  
Grand Rapids Gypsum Co  
National Gypsum Co  
Pioneer Div Flintkote Co  
Plastergon Wall Board Co  
Reynolds Aluminum Supply Co  
Simpson Logging Co  
United States Gypsum Co

## Lath, Metal & Accessories (See also Moldings, Metal)

Alabama Metal Lath Co Inc  
B & T Metals Co  
Benjamin Electric Co  
Bostwick Steel Lath Co  
Casings Inc & Drywall Trim Div  
Ceco Steel Prods Corp  
Goldsmith Metal Lath Co  
Inland Steel Products Co  
Kaiser Gypsum Co Inc  
Keystone Steel & Wire Co  
Klauer Mfg Co  
National Aluminum Co  
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  
Soule Steel Co  
Structoglas Inc  
United States Gypsum Co  
Wheeling Corrugating Co

## Laundry Tubs (See Tubs, Laundry)

## Levels, Carpenter & Masons

Berger C L & Sons  
Bostrom-Brady Mfg Co  
Columbia Brick Works  
Empire Level Mfg Co  
Engis Equipment Co  
Goldblatt Tool Co  
Graham John H & Co Inc  
Hall Level & Mfg Works  
Hydrolevel  
Levelall  
Macklanburg-Duncan Co  
Mayes Bros Tool Mfg Co  
Mayes R & Son Level Mfg Co  
Millers Falls Co  
Ox-Wall Tool Co Ltd  
Peerless Level & Tool Co  
Pickett Products Inc  
Port Austin Level & Tool Mfg Co  
Sands Level & Tool Co Div Harmon Inc  
Scharf J H Mfg Co  
Simplex Level Co  
Stanley Tools  
Starrett L S Co

## Lighting Controls (See Wiring Systems)

## Lighting Fixtures (See Fixtures, Electric Lighting)

## Lighting, Outdoor, Gas

Arkla Air Conditioning Corp  
General Gas Light Co  
Gasolier Co  
Roberts Gordon Appliance Corp

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## **Limestone** (See Stone, Limestone)

## **Liners, Concrete Form** (See Concrete Form Liners)

## **Linoleum, Roll & Tile**

Armstrong Cork Co  
Bird & Son Inc  
Bonafide Mills Inc  
Congo-leum-Nairn Inc  
Fiberboard Paper Prods Inc  
Flintkote Co

## **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, Heat- ing)

## **Lumber, Birch**

Aetna Plywood & Veneer Co  
Atlanta Oak Flooring Co  
Berger Insulation Co Inc  
Commonwealth Lumber Corp  
Connor Lumber & Land Co  
Diamond Lumber Co  
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  
Yawkey Bissell Hardwood Flooring Co  
Youngblood Lumber Co

## **Lumber, Cypress**

Arrow Tank Co Inc  
Atlanta Oak Flooring Co  
Berger Insulation Co Inc  
Crossett Lumber Co  
Georgia Pacific Corp  
Hardwood Corp of America  
Hillyer-Deutsch-Edwards Inc  
Hines Edward Lumber Co  
National Forest Prods Co  
Phillips Rhyne 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  
Brookings Plywood Corp  
Brooks-Scanlon Inc  
Cascade Lumber Co Div Boise-Cascade  
Comfort Geo N Lumber Co  
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  
Gray Lumber & Shingle Co  
Harbor Plywood Corp  
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  
Menasha Sales Corp  
Miller George E Lumber Co  
Neils J Lumber Co Div St Regis Paper  
Ostin David Moulding Corp  
Pacific Lumber Co  
Pacific Mutual Door Co  
Robinson Plywood & Timber Co  
Rosboro Lumber Co  
St Paul & Tacoma Lumber Co  
Simpson Logging Co  
Snellstrom Lumber Co  
Summit Sales Co  
Timber Products Co  
U S Plywood Corp California Div  
United States Plywood Corp  
Webster H E Lumber Co  
Western Pine Mfg Co  
Weyerhaeuser Co Lumber & Plywood Div  
Willamette Valley Lumber Co  
Winton Lumber Sales Co  
Youngblood Lumber Co

## **Lumber, Gum**

Angelina Hardwood Sales Co  
Crossett Lumber Co  
Fair D L Lumber Co  
Fordyce Lumber Co  
Georgia Pacific Corp  
Hardwood Corp of America  
Hines Edward Lumber Co  
International Paper Co Long-Bell Div  
Southern Pine Lumber Co  
Texoak Flooring Co  
Tibbals Flooring Co  
United States Plywood Corp  
Veach-May-Wilson Inc  
Williams J L & Sons

## **Lumber, Hemlock, Western**

Comfort Geo N Lumber Co  
Commonwealth Lumber Corp  
Connor Lumber & Land Co  
Diamond Lumber Co  
Georgia Pacific Corp  
Giustina Brothers Lumber Co  
Goodman Lumber Div Calumet & Hecla  
Gray Lumber & Shingle 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  
Pacific Mutual Door Co  
Robinson Plywood & Timber Co  
Rosboro Lumber Co  
St Paul & Tacoma Lumber Co  
Simpson Logging Co  
Southern Mill & Mfg Co  
Summit Sales Co  
United States Plywood Corp  
Veach-May-Wilson Inc  
Weyerhaeuser Co Lbr & Plywood Div  
Willamette Valley Lumber Co  
Winton Lumber Sales Co

## **Lumber, Mahogany**

Atlantic Oak Flooring Co  
Caloric Appliance Corp  
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  
Berger Insulation Co Inc  
Commonwealth Lumber Corp  
Connor Lumber & Land Co  
Cook F C & 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  
Phillips Rhyne Lumber Co Inc  
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**

Aetna Plywood & Veneer Co  
Angelina Hardwood Sales Co  
Arkansas Oak Flooring Co  
Arrow Tank Co Inc  
Atlanta Oak Flooring Co  
Berger Insulation Co Inc  
Commonwealth Lumber Corp  
Cook F C & Co  
Crossett Lumber Co  
Fair D L Lumber Co  
Fordyce Lumber Co  
Georgia Pacific Corp  
Goodman Lumber Div Calumet & Hecla  
Griffith 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  
Paxton Frank Lumber Co  
Phillips Rhyne Lumber Co Inc  
Robbins Flooring Co  
Southern Pine 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  
Bradley Southern Div Potlatch Forests  
Brooks-Scanlon Inc  
Bruce E L Co  
Cascade Lumber Co Div Boise-Cascade  
Comfort Geo N Lumber Co  
Commonwealth Lumber Corp  
Connor Lumber & Land Co  
Contact Lumber Co  
Cook A B Co  
Crawford Corp  
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  
Gray Lumber & Shingle Co  
Harbor Plywood Corp  
Hardwood Corp of America  
Hillyer-Deutsch-Edwards Inc

Hines Edward Lumber Co  
 International Paper Co Long-Bell Div  
 Koehnen Plywood & Veneer Co Inc  
 Mauk Seattle Lumber Co  
 National Forest Prods Co  
 Nells J Lumber Co Div St Regis Paper  
 Ostin David Moulding Corp  
 Ozan Lumber Co  
 Pacific Mutual Door Co  
 Paxton Frank Lumber Co  
 Phillips Rhyne Lumber Co Inc  
 Pickering Lumber Corp  
 Smith M R Shingle Co  
 Southern Mill & Mfg Co  
 Southern Pine Lumber Co  
 Timber Products Co  
 Tremont Lumber Co  
 Triplett Lumber Co Inc  
 US Plywood Corp California Div  
 United States Plywood Corp  
 Veach-May-Wilson Inc  
 Webster H E Lumber Co  
 Western Pine Mfg Co  
 Weyerhaeuser Co Lumber & Plywood Div  
 Winton Lumber Sales Co  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Lumber, Redwood

Arrow Tank Co Inc  
 Comfort Geo N Lumber Co  
 Georgia Pacific Corp  
 Gray Lumber & Shingle Co  
 Kochton Plywood & Veneer Co Inc  
 Mauk Seattle Lumber Co  
 Pacific Lumber Co  
 Paxton Frank Lumber Co  
 Redwood Sales Co  
 Simpson Redwood Co  
 Southern Mill & Mfg Co  
 Webster H E Lumber Co  
 Western Door & Plywood Corp  
 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)

### Maple Lumber (See Lumber, Maple)

### Marble (See Flooring & Wall Cover- ing, Marble; also Stone, Marble)

### Masonry Tools (See Tools, Masons, Plasterers)

### Mesh, Reinforcing (See Reinforcing Bars & Mesh)

### Metal Lath & Moldings (See Lath, Metal; also Mold- ings, Metal)

### Millwork & Moldings, Wood

Aetna Plywood & Veneer Co  
 Angelina Hardwood Sales Co

Anson & Gilkey Co  
 Arkansas Oak Flooring Co  
 Belwood Industries Inc  
 Bendix Mouldings Inc  
 Bradley Southern Div Potlatch Forests  
 Bruce E L Co  
 Cloud Oak Flooring Co  
 Connor Lumber & Land Co  
 Contact Lumber Co  
 Cook A B Co  
 Crestline Co  
 Curtis Companies Inc  
 Dierks Forests Inc  
 Elliott Bay Mill Co  
 Farley & Loetscher Mfg Co  
 Grinnell Sash & Door Co  
 Harbor Plywood Corp  
 Hardwood Corp of America  
 Heller W C & Co  
 Hines Edward Lumber Co  
 Hyde-Murphy 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  
 Roddis Plywood Corp  
 Schwerd A F Mfg Co  
 Southern Mill & Mfg Co  
 Spokane Sash & Door Co  
 Tye Lumber Mfg Co  
 United States Plywood Corp  
 Virginia Oak Flooring Co Inc  
 Western Pine Mfg Co  
 Weyerhaeuser Co Lumber & Plywood Div  
 Winton Lumber Sales Co

### Mixers, Concrete (See Concrete Mixers)

### Moldings, Hardboard

Marsh Wall Products Inc  
 Tex-A-Panel Mfg Co  
 Tremont Lumber Co

### Moldings, Metal

Afco Corp  
 Alabama Metal Lath Co Inc  
 Aluminum Co of America  
 American Brass Co  
 Ames Metal Moulding Co  
 B & T Metals Co  
 Barclay Mfg Co Inc  
 Bendix Mouldings Inc  
 Blum Julius & Co Inc  
 Bostwick Steel Lath Co  
 Casings Inc & Drywall Trim Div  
 Chamberlin Co of America  
 Chase Brass & Copper Inc  
 Colonial Moulding & Frame Co Inc  
 Consoweld Corp  
 Formetal Inc  
 Goldsmith Metal Lath Co  
 Inland Steel Products Co  
 Kawneer Co  
 Kewanee Mfg Co  
 Kinhead Industries Inc  
 Knapp Brothers Mfg Co  
 Loxit Systems Inc  
 Loxgreen Co Inc  
 Macklanburg-Duncan Co  
 Marsh Wall Products Inc  
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 National Aluminum Co  
 National Gypsum Co  
 National Metal Prods  
 National Window Corp  
 Nichols Wire & Aluminum Co  
 Parkers S Hdwe Mfg Corp  
 Penn Metal Co Inc  
 Penn Supply & Metal Corp  
 Pittsburgh Plate Glass Co  
 Prestile Mfg Co  
 Pyramid Mouldings Inc  
 Republic Steel Corp Truscon Div  
 Revere Copper & Brass Inc  
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 Selck Walter E & Co  
 Superior Industries Inc  
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 United Industries Inc  
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 United States Plywood Corp  
 Wallace Mfg Co  
 Wells Aluminum Corp  
 Werner B D Co Inc  
 Wheeling Corrugating Co  
 Woodside Engineering Co  
 Yeck Mfg Co  
 Youngstown Mfg Inc

### Moldings, Plastic

Ames Metal Moulding Co  
 Asphalt Corp of America  
 Azrock Floor Prods Div Uvalde Rock  
 Consoweld Corp  
 Hartglass Corp  
 Johnson Plastics Corp  
 Kentile Inc  
 Marsh Wall Products Inc  
 National Plastic Products Co  
 United States Rubber Co

### Moldings, Rubber

Asphalt Corp of America  
 Goodrich B F Co Flooring Products  
 Wright Mastic Tile Div Ruberoid Co

### Moldings, Wood (See Millwork & Moldings, Wood)

### Mortar Boxes

Adams Co  
 Anchor Mfg Co  
 Buch Co Div of Moto-Mower Inc  
 Columbia Brick Works  
 Donley Brothers Co  
 General Engines Co Inc  
 Goldblatt Tool Co  
 Harris Inc  
 Jackson Mfg Co  
 Kewanee Mfg Co  
 Newark Ladder & Bracket Co Inc  
 Vestal Mfg Co

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Auto-Nailer Co  
 Calnail Inc  
 Fastener Corp  
 Independent Nail & Packing Co  
 Morgan Machine Co  
 Power Line Sales Inc  
 Pownall Co  
 Safety Nail Driver Corp  
 Spotnails Inc

### Nails, Aluminum

Aluminum Co of America  
 Angell Nail & Chaplet Co  
 Chase Brass & Copper Inc  
 Hassall John Inc  
 Kaiser Aluminum & Chemical Sales Inc  
 Lifetime Industries Inc

Mackianburg-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

Amer Steel & Wire Div US Steel Corp  
Angell Nail & Chaplet Co  
Maze W H Co



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### Nails, Common

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  
Columbia Geneva Steel Div US Steel  
Continental Steel Corp  
Jones & Laughlin Steel Corp  
Keystone Steel & Wire Co  
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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  
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  
Continental Steel Corp  
Denison Co  
E G Building Fasteners Corp  
Hassall John Inc  
Hillwood Mfg Co  
Independent Nail & Packing Co  
Keystone Steel & Wire Co  
Maze W H Co



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Northwestern Steel & Wire Co  
Reynolds Aluminum Supply Co  
Sheffield Div Armco 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

### Nooks, Dining

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Dormalux Co Inc

### Oak Lumber (See Lumber, Oak)

### Office Machines & Equipment

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### Operators, Door (See Door Operators, Garage)

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Samcoe Wm J Iron Co  
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Tennessee Fabricating Co  
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### Ovens, Built-In (See Ranges & Ovens, Built-In)

### Paint Removers

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Pittsburgh Plate Glass Co  
Root-Lowell Corp  
Thomas Industries Inc Elec Sprayit Div

### 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 Marietta Co Valdura Div  
American Sta-Dri Co  
American Varnish Co  
Anti Hydro Waterproofing Co  
Arco Co  
Armstrong Cork Co  
Barreled Sunlight Paint Co  
Berry Bros Div of American Marietta Co  
Borden Chemical Co Div Borden Co  
Cabot Samuel Inc  
Calbar Paint & Varnish Co  
Camp Co Inc  
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Chicago Bronze & Color Works  
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Colorcrete Industries Inc  
Cook Paint & Varnish Co  
Cool Roof Inc  
Dasco Co Inc  
Devoe & Reynolds Co Inc  
Dixon Joseph Crucible Co  
DuPont de Nemours & Co Inc E I  
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Evercrete Corp  
Fiberboard Paper Prods Inc  
Flexrock Co  
Forman-Ford & Co  
Forrers Div Spray-O-Bond 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  
Lastik Paint Inc  
Lawrence W W & Co  
Linaeed Oil Products Co  
Lowe Bros

Lucas John & Co Inc  
 Maguire Walter Co Inc  
 Marietta Paint & Color Co  
 Martin-Senour Co  
 Masonry Waterproofing Co Inc  
 Minnesota Paints Inc  
 Minwax Co Inc  
 Mobile Paint Mfg Co  
 Monroe Co Inc  
 Moore Benjamin & Co  
 National Casein Co  
 National Chemical & Mfg Co  
 National Gypsum Co  
 National Lead Co  
 National Mfg Corp  
 O'Brien Corp  
 Parker Ira & Sons  
 Patterson-Sargent Co  
 Penn Crete Prods Co  
 Pennsalt Chemicals Corp  
 Permagile Corp of America  
 Permiteco Inc  
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 Phelan-Faust Paint Mfg Co  
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 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  
 Smooth-On Mfg Co  
 Sonneborn L Sons Inc  
 Standard Dry Wall Products Inc  
 Steelcote Manufacturing Co  
 Sullivan Co The  
 Super Concrete Emulsions  
 Surface Protection Co Inc  
 Tamms Industries Co  
 Toch Bros  
 Tremco Mfg Co  
 Truscon Labs Inc  
 Tufere Co Inc  
 Twentieth Century Paint & Varnish  
 United States Gypsum Co  
 US Protective Coatings Inc  
 Valspar Corp  
 Vita-Var Corp  
 Wadsworth Howland & Co  
 Watco-Dennis Corp  
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**Paints & Coatings, Roof**

Abesto Manufacturing Co  
 Allied Chemical Corp Barrett Div  
 American Asbestos Product Co  
 American Marietta Co Valdura Div  
 Arco Co  
 Barreled Sunlight Paint Co  
 Borden Chemical Co Div Borden Co  
 Cabot Samuel Inc  
 Carey Philip Mfg Co  
 Chicago Bronze & Color Works  
 Cook Paint & Varnish Co  
 Cool Roof Inc  
 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  
 Kyanize Paints Inc  
 Lastik Paint Inc  
 Lawrence W W & Co

Lucas John & Co Inc  
 Marietta Paint & Color Co  
 Meadows W R Inc  
 Minnesota Paints Inc  
 Monroe Co Inc  
 National Mfg Corp  
 Nelson B F Mfg Co  
 Permiteco Inc  
 Phelan-Faust Paint Mfg Co  
 Pioneer Div Flintkote Co  
 Pittsburgh Plate Glass Co  
 Quigley Co Inc  
 Seddon Co  
 Seidlitz Paint & Varnish Co  
 Sheffield Bronze Paint Corp  
 Sherwin-Williams Co  
 Sonneborn L Sons Inc  
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 Tufere Co Inc  
 Twentieth Century Paint & Varnish  
 United States Gypsum Co  
 Vita-Var Corp  
 Wadsworth Howland & Co  
 Wilbur & Williams Co  
 Yenkin-Majestic Paint Corp

**Paints & Coatings, Wood Treatment**

Abesto Manufacturing Co  
 Allied Chemical Corp Barrett Div  
 Anti Hydro Waterproofing Co  
 Cabot Samuel Inc  
 Carbolineum Wood Preserving Co  
 Chemical Products Div Darworth Inc  
 Cool Roof Inc  
 Cre-O-Tox Chemical Co  
 Dasco Co Inc  
 Desmond Bros Paint Co  
 DuPont de Nemours & Co Inc E I  
 Lucas John & Co Inc  
 Marietta Paint & Color Co  
 Osmose Wood Preserving Co of America  
 Plextone Corp of America  
 Reynolds Aluminum Supply Co  
 Shell Chemical Corp  
 Watco-Dennis Corp  
 Wilbur & Williams Co  
 Wood Treating Chemicals Co

**Paints, Interior & Exterior Plastic**

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 Devoe & Reynolds Co Inc  
 DuPont de Nemours & Co Inc E I  
 Fuller W P & Co  
 Glidden Co  
 Kyanize Paints Inc  
 Lowe Bros  
 Lucas John & Co Inc  
 Marietta Paint & Color Co  
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 Penn Crete Prods Co  
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 Quartz Mosaic Inc  
 Reardon Co  
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 Tamms Industries Co  
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 United States Gypsum Co  
 Vita-Var Corp  
 Wilbur & Williams Co  
 Wooster Sealkote Co

**Paints & Stains, Interior & Exterior, Oil**

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 American Varnish Co  
 Arco Co

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 Berry Bros Div of American Marietta Co  
 Bird & Son Inc  
 Bruce E L Co  
 Cabot Samuel Inc  
 Chicago Bronze & Color Works  
 Cook Paint & Varnish Co  
 Devoe & Reynolds Co Inc  
 Dixon Joseph Crucible Co  
 DuPont de Nemours & Co Inc E I  
 Elliott Paint & Varnish Co  
 Fle-rock Co  
 Forman-Ford & Co  
 Gelvatex Paint Div Shawinigan Resins  
 Glidden Co  
 Globe Paint Works Inc  
 Horn A C Companies Div Sun Chem Corp  
 Jewel Paint & Varnish Co  
 Kyanize Paints Inc  
 Lawrence W W & Co  
 Linseed Oil Products Co  
 Lowe Bros  
 Marietta Paint & Color Co  
 Martin-Senour Co  
 Minnesota Paints Inc  
 Mobile Paint Mfg Co  
 Monsanto Chem Co Organic Chem Div  
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 Pittsburgh Plate Glass Co  
 Pratt & Lambert Inc  
 Quartz Mosaic Inc  
 Quigley Co Inc  
 Re-Nu-It Corp  
 Rockcote Paint Co  
 Sapolin Paints Inc  
 Sargent-Gerke Co  
 Savogran Co  
 Seal Rite Caulking Co  
 Seidlitz Paint & Varnish Co  
 Sherwin-Williams Co  
 Sonneborn L Sons Inc  
 Standard-Toch Chemicals Inc  
 Steelcote Manufacturing Co  
 Sullivan Co The  
 Thompson E A Co Inc  
 Toch Bros  
 Tremco Mfg Co  
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 Martin-Senour Co  
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 National Chemical & Mfg Co  
 National Gypsum Co  
 Penn Crete Prods Co  
 Phelan-Faust Paint Mfg Co  
 Pittsburgh Plate Glass Co  
 Plextone Corp of America  
 Reardon Co  
 Re-Nu-It Corp  
 Rockcote Paint Co  
 Sapolin Paints Inc  
 Seddon Co  
 Seidlitz Paint & Varnish Co  
 Sherwin-Williams Co  
 Sonneborn L Sons Inc  
 Tamms Industries Co  
 Twentieth Century Paint & Varnish  
 United Gilsonite Laboratories  
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**Panelwork, Plastic**  
 (See Plastic Laminates; also  
 Plywood, Overlaid)

**Panelwork, Wallboard**  
 (See Wallboard; also  
 Plaster, Acoustical)

**Panelwork, Wood**

Aetna Plywood & Veneer Co  
 Bangkok Industries Inc  
 Bellwood Co of California  
 Bradley Southern Div Potlatch Forests  
 Bruce E L 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  
 Hyde-Murphy Co  
 Jones Harold R  
 Kochton Plywood & Veneer Co Inc  
 Marsh Wall Products Inc  
 Masonite Corp  
 McMinnville Mfg Co  
 Miller Bros Co  
 Miracle Hinge Co  
 Neils J Lumber Co Div St Regis Paper  
 Phillips Ryhne Lumber Co Inc  
 Plyfloor Inc  
 Plywall Prods Co  
 Plywood Co  
 Reynolds Aluminum Supply Co  
 Roddis Plywood Corp  
 Southern Mill & Mfg Co  
 Veach-May-Wilson Inc  
 Weyerhaeuser Co Lumber & Plywood Div  
 Williams J L & Sons  
 Youngblood Lumber Co

**Paper, Building**  
 (See also Insulation, Sheath-  
 ing; Vapor Barriers)

Allied Chemical Corp Barrett Div  
 American Sisalkraft Corp  
 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 Inc  
 National Mfg Corp  
 Pioneer Div Flintkote Co  
 Protective Papers Inc  
 Reynolds Metals Co  
 Richkraft Co  
 Ruberoid Co  
 Silvercote Prods Inc  
 Thilmay Pulp & Paper Co  
 Wilson Grant Inc

**Partitions, Aluminum**

Harvey Aluminum  
 Mills Co  
 Richards-Wilcox Mfg Co  
 Toledo Plate & Window Glass Co  
 Windowmaster Corp

**Partitions, Folding & Sliding**  
 (See Doors, Flexible &  
 Folding)

**Partitions, Non-Metallic**

Bestwall Gypsum Co  
 Cookson Co  
 Dubuque Products Inc  
 Evergreen States Forest Products  
 Filon Plastics Corp  
 Kaiser Gypsum Co Inc  
 Kimble Glass Co Sub Owens-Illinois  
 Petterson J C Corp  
 Richards-Wilcox Mfg Co  
 Three Centuries  
 United States Gypsum Co  
 Waco Transwall Folding Partition  
 Weber Showcase & Fixture Co Inc

**Partitions, Steel**

Aetna Steel Prods Corp  
 All Metal Partition Co Inc  
 Biersach & Neidermeyer Co  
 Flat Metal Mfg Co  
 Hauserman E F Co  
 Meyers Fred L Mfg Co  
 Miller Howard Clock Co  
 Mills Co  
 National Gypsum Co  
 Penn Metal Co Inc  
 Sanymetal Products Co Inc  
 Steel Partitions Inc  
 Unistrut Prods Co  
 United States Gypsum Co  
 Virginia Metal Products Inc  
 Weber Showcase & Fixture Co  
 Weber Showcase & Fixture Co Inc  
 Wheeling Corrugating Co

**Pine Lumber**  
 (See Lumber, Pine)

**Pipe, Asbestos Cement**

Johns-Manville Corp  
 Keasbey & Mattison Co

**Pipe, Bituminized Fiber**

Bowerton Shale Co  
 Brown Co  
 Central Foundry Co  
 Chicago Fire Brick 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  
 Crane Co

Industrial Iron Works  
 Reynolds Aluminum Supply Co  
 Victaulic Co of America  
 Weiskittel Co Inc

**Pipe, Sewer**

American Vitrified Prods Co  
 Bowerton Shale Co  
 Carey Philip Mfg Co  
 Clay City Pipe Co  
 Division Lead Co  
 Kaul Clay Co  
 Logan Clay Prods Co  
 Owensboro Sewer Pipe Co  
 Patton Clay Mfg Co  
 Pomona Terra-Cotta Co  
 Presstite Div American-Marietta Co  
 Robinson Clay Product Co  
 Sonoco Prods Co Construction Prod Div  
 Southwestern Plastic Pipe Co  
 Stillwater Clay Products Co  
 Streater 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  
 Clayton Mark & 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  
 Victaulic Co of America  
 Wheeling Steel Corp  
 Youngstown Sheet & Tube Co

**Pipe & Tubing, Aluminum**

Adams Engineering Co  
 Aluminum Co of America  
 B & T Metals Co  
 Blum Julius & Co Inc  
 Bridgeport Brass Co  
 Harvey Aluminum  
 Hosking John H Co  
 Kaiser Aluminum & Chemical Sales Inc  
 Lustrik Inc  
 National Aluminum Co  
 Penn Supply & Metal Corp  
 Revere Copper & Brass Inc  
 Reynolds Aluminum Supply Co  
 Reynolds Metals Co  
 Ryerson Joseph T & Son  
 Victaulic Co of America  
 Wells Aluminum Corp

**Pipe & Tubing, Brass & Copper**

American Brass Co  
 Blum Julius & Co Inc  
 Bridgeport Brass Co  
 Chase Brass & Copper Inc  
 Circle Wire & Cable Corp  
 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  
 Williamson Co  
 Wolverine Tube Calumet & Hecla Inc

**Pipe & Tubing, Plastic**

Anesite Co



Blum Julius & Co Inc  
 Byers A M Co  
 Cannelton Sewer Pipe Co  
 Carlon Products Corp  
 Dow Chemical Co  
 Eclipse Plastics Industries  
 Franklin Plastics Inc  
 General Plastics Corp  
 Goodall Rubber Co Inc  
 Goodrich B F Industrial Products Co  
 Johnson Plastics Corp  
 Line Material Industries McGraw-Edison  
 Lynch Asbestos Co  
 Minnesota Mining & Mfg Co  
 Mueller Brass Co  
 Orangeburg Mfg Co Div Flintkote Co  
 Raybestos-Manhattan Inc M R Div  
 Republic Steel Corp  
 Ryerson Joseph T & Son  
 Skyline Industries Sales Inc  
 Southwestern Plastic Pipe Co  
 Triangle Conduit & Cable Co Inc  
 United States Rubber Co  
 Victaulic Co of America  
 Youngstown Sheet & Tube Co

**Pipe, Ventilating & Furnace  
 (See Ducts, Metal)**

**Pipe, Wrought Iron**

Byers A M Co  
 Crane Co

**Planers & Jointers**

Atlas Press Co  
 Belsaw Machinery Co  
 Boice Crane Co  
 Buss Machine Works Inc  
 Comet Mfg Co Div Siegler Corp  
 Consolidated Mach & Supply Co Ltd  
 Dewalt Div AMF  
 Duro Metal Products Co  
 Goldblatt Tool Co  
 Master Woodworker Mfg Co Inc  
 Oliver Machinery Co  
 Rockwell Mfg Delta Power Tool Div  
 Shopmaster Div Energy Mfg Co  
 Stanley Electric Tools  
 Whitney Baxter D & Son Inc  
 Yates-American Machine Co

**Plans, Services & Books**

American Builder Book Service Dept  
 Architectural Plan Service Inc  
 Associated Plan Services Inc  
 Better Homes and Gardens  
 Construction Cost Institute  
 Craftsman Book Co of America  
 Dun & Bradstreet Inc  
 Garlinghouse L F Co Inc  
 Home Building Plan Service  
 Home Plan Book Co  
 Home Planners Inc

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**900 HOME DESIGNS . . . \$3.00**  
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 National Home Planning Service  
 National Plan Service Inc  
 National Pool Equipment Co  
 Nationwide House Plan Service  
 Nationwide Plan Book Co  
 Saturday Evening Post Curtis Pbig Co  
 Techbuilt Inc

Today's Home Fawcett Publishing Corp  
 Universal Plan Service  
 Weyerhaeuser Co Lumber & Plywood

**TITLE  
 INSURANCE  
 TO FILL EVERY  
 REQUIREMENT**

**Lawyers Title  
 Insurance Corporation**

Home Office - Richmond, Virginia

**Plaster, Acoustical**

Bestwall Gypsum Co  
 Builders Fireplace & Supply  
 Dodson Mfg Co Inc  
 Great Lakes Carbon Corp Perlite Dept  
 Johns-Manville Corp  
 National Gypsum Co  
 Nelson B F Mfg Co  
 Texas Vermiculite Co  
 Tiger Brands Div 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**

Allied Chemical Corp Birrett Div  
 Bestwall Gypsum Co  
 Celotex Corp  
 Chicago Fire Brick Co  
 Flintkote Co  
 Grand Rapids Gypsum Co  
 Kaiser Gypsum Co Inc  
 National Gypsum Co  
 Ruberoid Co  
 Tamms Industries Co  
 United States Gypsum Co

**Plaster, Insulating**

Camp Co Inc  
 Great Lakes Carbon Corp Perlite Dept  
 Johns-Manville Corp  
 National Gypsum Co  
 Texas Vermiculite Co  
 US Mineral Wool Co  
 Vermiculite-Northwest Inc  
 Zonolite Co

**Plaster & Stucco, Colored**

Grand Rapids Gypsum Co  
 National Gypsum Co  
 Ohio Lime Co  
 Penn Crete Prods Co  
 United States Gypsum Co

**Plasterboard  
 (See Lath, Gypsum)**

**Plastering Tools  
 (See Tools, Masons,  
 Plasterers)**

**Plastic Laminates  
 (See also Countertops)**

Aetna Plywood & Veneer Co  
 Alsynite Co of America  
 Chemold Co  
 Clad-Rex Div Simoniz Co  
 Consoweld Corp  
 Continental Can Co Conolite Dept  
 Evergreen States Forest Products  
 Fabricon Prods  
 Farley & Loetscher Mfg Co  
 Fiberesin Plastics Co  
 Filon Plastics Corp  
 Formica Corp  
 Gen Electric Co Laminated Prods Dept  
 Gen Tire & Rubber Co Bldg Materials  
 Haskellite Mfg Corp  
 Jones Shutter Products  
 Kochton Plywood & Veneer Co Inc  
 Ludlow Papers Inc  
 Masland Duraleather Co  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 National Plastic Products Co  
 Parkwood Laminates Inc  
 Paxton Frank Lumber Co  
 Pioneer Plastics Corp  
 Polyplastex United Inc  
 Ranier Plywood Co  
 Ray-O-Lite Corp of America  
 Regal Laminates Inc  
 Roddis Plywood Corp  
 Ryerson Joseph T & Son  
 Safetee Glass Co  
 St Regis Paper Co Panelyte Div  
 Selck Walter E & Co  
 Thilmany Pulp & Paper Co  
 Thomason Plywood Corp  
 United States Plywood Corp  
 Westinghouse Electric Corp  
 Woodall Industries Inc  
 Youngstown Kitchens

**Plastic Moldings  
 (See Moldings, Plastic)**

**Plastic Panels, Reinforced**

Allied Chemical Corp Barrett Div  
 Alsynite Co of America  
 Barclay Mfg Co Inc  
 Butler Mfg Co  
 Chamberlin Co of America  
 Farley & Loetscher Mfg Co  
 Fiberesin Plastics Co  
 Filon Plastics Corp  
 Haskellite Mfg Corp  
 Johns-Manville Corp  
 Lynch Asbestos Co  
 Miraplas Tile Co  
 Monostructure Inc  
 Pennsylvania Wire Glass Co  
 Plasteel Products Corp  
 Plymold Co  
 Polyplastex United Inc  
 Resolite Corp  
 Structoglas Inc  
 United States Plywood Corp  
 United States Rubber Co  
 Wasco Products Inc

**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 Radiator & Standard Sanitary  
 American-Standard Plumbing  
 B & T Metals Co  
 Borg-Warner Corp Ingersoll Humphreys  
 Briggs Manufacturing Co  
 Case Mfg Corp  
 Chicago Faucet Co  
 Chicago Pottery Co  
 Colonna Angelo Inc  
 Crane Co  
 Cutler Metal Prods Co  
 Delta Faucet Corp  
 Efron Theodore Mfg Co  
 Eljer Div Murray Corp of America  
 General Window Co  
 Gerber Plumbing Fixtures Corp  
 Glasade Inc  
 Gyro Brass Manufacturing Corp  
 Harvey Aluminum  
 Haws Drinking Faucet Co  
 Kohler Co

## KOHLER All-brass Fittings

- A brighter finish
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- First quality only

**KOHLER or KOHLER**  
 Kohler Co., Kohler, Wis.

Mansfield Sanitary Inc  
 McDonald A Y Mfg Co  
 McPherson Inc  
 Milwaukee Faucets Inc  
 Mirra-Cote Co Inc  
 Moen Faucet Div Standard Screw Co  
 National Plumbing Fixture Corp  
 Norris Thermador Corp  
 North East Metal Products Corp  
 Paramount Aluminum Prod Corp  
 Powers Regulator Co  
 Reed Cromex Corp  
 Richmond Plumbing Fixtures  
 Sherle-Wagner  
 Sloan Valve Co  
 Southern Pine Lumber Co  
 Speakman Co  
 Sterling Faucet Co  
 Sterling Precision Plastics Div  
 Taylor Halsey W Co  
 Union Machine Co  
 Universal-Rundle Corp  
 Wels Henry Mfg Co  
 Wessels Co  
 Youngstown Kitchens  
 Zurn Industries Inc Plumbing Prods

### Plumbing, Prefabricated, Assembly

Associated Plumbing Supply Co Inc  
 Colonna Angelo Inc  
 Sterling Faucet Co  
 Zurn Industries Inc Plumbing Prods

### Plywood, Douglas Fir

Aberdeen Plywood & Veneers Inc  
 Aetna Plywood & Veneer Co  
 Arcata Plywood Corp  
 Atlanta Oak Flooring Co  
 Baxter J H & Co  
 Brookings Plywood Corp  
 Cascades Plywood Corp

Centralia Plywood Inc  
 Comfort Geo N Lumber Co  
 Corvallis Plywood  
 Diamond Lumber Co  
 Douglas Fir Plywood Co  
 Drain Plywood Co  
 Durable Fir Lumber & Plywood Co  
 Evans Products Co  
 Fort Vancouver Plywood Co  
 Georgia Pacific Corp  
 Harbor Plywood Corp  
 Hardel Mutual Plywood Corp  
 Hines Edward Lumber Co  
 International Paper Company Long-Bell  
 Division  
 Kochton Plywood & Veneer Co Inc  
 Linn Plywood Corp  
 Mar-Lin Timber Corp  
 Martin Bros Cont & Timber Prods Corp  
 Mauk Seattle Lumber Co  
 Medford Veneer & Plywood Corp  
 Menasha Sales Corp  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 Mt Baker Plywood Inc  
 Multnomah Plywood Corp  
 Niagara Plywood Co Inc  
 North Pacific Plywood Inc  
 Northwest Door Co Sub St Regis Paper  
 Oregon Veneer Co  
 Oregon-Washington Plywood Co  
 Pacific Mutual Door Co  
 Paxton Frank Lumber Co  
 Peninsula Plywood Corp  
 Plywood Service Inc  
 Puget Sound Plywood Inc  
 Ranier Plywood Co  
 Robinson Plywood & Timber Co  
 Roddis Plywood Corp  
 Roddiscraft Inc  
 Roeboro Lumber Co  
 St Paul & Tacoma Lumber Co  
 Simpson Logging Co  
 Snelstrom Lumber Co  
 Standard Veneer & Timber Co  
 Summit Sales Co  
 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  
 Webster H E Lumber Co  
 West Coast Plywood Co  
 Western Door & Plywood Corp  
 Weyerhaeuser Co Lmbr & Plywood Div  
 Willamette Valley Lumber Co  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Plywood, Embossed

Aetna Plywood & Veneer Co  
 Georgia Pacific Corp  
 Harbor Plywood Corp  
 Kochton Plywood & Veneer Co Inc  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 Paxton Frank Lumber Co  
 Plywood Service Inc  
 US Plywood Corp California Div  
 United States Plywood Corp  
 Vancouver Plywood Co  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Plywood, Hardwood

Aetna Plywood & Veneer Co  
 AFCD Corp  
 Atlanta Oak Flooring Co  
 Bangkok Industries Inc  
 Braund Plywoods Inc  
 Connor Lumber & Land Co  
 Dulaney Plywood Corp  
 Elliott Bay Mill Co

Georgia Pacific Corp  
 Harbor Plywood Corp  
 Higgins Industries Inc  
 Ipik Door Co Inc  
 Jasper Wood Products Co Inc  
 Kennebec Inc  
 Kochton Plywood & Veneer Co Inc  
 Mauk Seattle Lumber Co  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 Niagara Plywood Co Inc  
 North Pacific Plywood Inc  
 Northwest Door Co Sub St Regis Paper  
 Pacific Mutual Door Co  
 Paxton Frank Lumber Co  
 Plyform Inc  
 Plywall Products Co Inc  
 Plywood Service Inc  
 Puget Sound Plywood Inc  
 Robinson Plywood & Timber Co  
 Roddis Plywood Corp  
 Simpson Logging Co  
 Thomason Plywood Corp  
 United States Plywood Corp  
 Vancouver Plywood Co  
 Weber Veneer & Plywood Co  
 Western Door & Plywood Corp  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Plywood, Hardwood Surfaced

Aberdeen Plywood & Veneers Inc  
 Aetna Plywood & Veneer Co  
 Cascades Plywood Corp  
 Diamond Lumber Co  
 General Plywood Corp  
 Harbor Plywood Corp  
 International Paper Co Long-Bell Div  
 Kimble Glass Co Sub Owens-Illinois  
 Mauk Seattle Lumber Co  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 Paxton Frank Lumber Co  
 Southwood Corp  
 Tex-A-Panel Mfg Co  
 US Plywood Corp California Div  
 United States Plywood Corp  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Plywood, Overlaid

Aetna Plywood & Veneer Co  
 Cascades Plywood Corp  
 Chemold Co  
 Crown Zellerbach Corp  
 Diamond Lumber Co  
 Farley & Loetscher Mfg Co  
 Georgia Pacific Corp  
 Harbor Plywood Corp  
 Haskellite Mfg Corp  
 Hines Edward Lumber Co  
 International Paper Co Long-Bell Div  
 Kochton Plywood & Veneer Co Inc  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 Paxton Frank Lumber Co  
 Plywood Service Inc  
 Ranier Plywood Co  
 Roddis Plywood Corp  
 St Paul & Tacoma Lumber Co  
 Simpson Logging Co  
 US Plywood Corp California Div  
 United States Plywood Corp  
 West Coast Plywood Co  
 Westinghouse Electric Corp  
 Woodward Lumber Co  
 Youngblood Lumber Co

### Porch Enclosure Panels (See Plastic Panels, Reinforced)

### Post-Hole Diggers

Ford Motor Co Tractor & Implement Div

Warren Tool Corp  
Wood Shovel & Tool Co

### Posts, Adjustable, Floor Leveling & Supporting

Adjusta Post Mfg Co  
Akron Products Co  
Baumgartner Gate Factory  
Clay Equipment Corp  
Cleveland Steel Specialty Co  
Copeo Steel & Engineering Co  
Donley Brothers Co  
Harris Inc  
Holms Mfg Co of Ohio  
Inland Steel Products Co  
Larson Ladder Co  
Perma-Jack Corp  
Sawhill Tubular Prods Inc  
Tel-O-Post Co  
Woodmack Products Inc

### Powder-Activated Tools

Omark Industries Inc  
Ramset Fastening System  
Remington Arms Co Inc

### Power Plants (See Generators, Portable)

### Prefabricated Carports (See Carports, Prefabricated)

### Prefabricated Chimneys (See Chimneys, Prefabricated)

### Prefabricated Closets (See Closets, Prefabricated)

### Prefabricated Fireplaces (See Fireplaces, Prefabricated)

### Prefabricated Garages (See Directory of Home Manufacturers)

### Prefabricated Greenhouses (See Greenhouses, Prefabricated)

### Prefabricated Houses (See Section 5 for Names and Addresses of Home Manufacturers)



#### AIR-LOCK

PRE-CUT  
LOG CABINS  
Patented ONE TO 60 ROOMS  
NATIONAL LOG CONST. CO.  
Manufacturers  
THOMPSON FALLS, MONT.

### Prefabricated Outbuildings (See Buildings, Metal)

### Prefabricated Panels, Roof & Wall

Barclay Mfg Co Inc  
Brown & Grist Inc

Carthage Marble Corp  
Fenestra Inc  
General Plastics Corp  
Hess Mfg Co  
Independent Lumber Co  
Inland Steel Products Co  
Knapp Brothers Mfg Co  
Mahon R C Co  
Monostructure Inc  
Panelfab Products Inc  
Paxton Frank Lumber Co  
Prefabricated Prods Co Inc  
United States Plywood Corp

### Pumps, Booster, Heating

American Coils Co  
Aurora Pump Div NY Air Brake Co  
Barnes Mfg Co  
Bell & Gossett Co  
Chicago Pump Co  
Dayton Electric Mfg Co  
Decatur Pump Co  
Deming Co  
Dunham-Bush Inc  
Dunkirk Radiator Corp  
Everite Pump & Mfg Co Inc  
Gardner-Denver Co  
Goulds Pumps Inc  
Hoffman Specialty Mfg Corp  
Hypro Engineering Inc  
Jacuzzi Bros Inc  
Lancaster Pump & Mfg Co Inc  
McDonald A Y Mfg Co  
Modern Swimming Pool Co Inc  
Myers F E & Bros Co  
National-US Radiator Corp  
Novo Pump & Engine Co  
Peerless Pump Div Food Machinery Corp  
Red Jacket Mfg Co  
Taco Heaters Inc  
Thrush H A & Co  
Universal Mfg Co  
Well Pump Co  
Worthington Corp

### Pumps, Contractors

Aurora Pump Div NY Air Brake Co  
Barnes Mfg Co  
Buffalo Forge Co  
C H & E Manufacturing 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  
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 Division  
Lancaster Pump & Mfg Co Inc  
Marlow Pumps Div Bell & Gossett Co  
Master Mechanic Mfg Co  
Midland Products Co  
Morgan-Wightman Co  
Morrison Co  
Novo Pump & Engine Co  
Pacific Mercury Marketing Div  
Peerless Pump Div Food Machinery Corp  
Red Jacket Mfg Co  
Rice Pump & Machine Co

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Full line low and high pressure pumps for  
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Robbins & Myers Inc  
Universal Mfg Co  
Worthington Corp

### Pumps, Domestic Water Supply

Aermotor Co  
Aurora Pump Div NY Air Brake Co  
Baker Mfg Co  
Barnes Mfg Co  
Clayton Mark & Co  
Continental Pump Co  
Crane Co  
Dayton Electric Mfg Co  
Decatur Pump Co  
Deming Co  
Dempster Mill Mfg Co  
Everite Pump & Mfg Co Inc  
Fairbanks Morse & Co  
Flint & Walling Mfg Co Inc  
Goulds Pumps Inc  
Hypro Engineering Inc  
Jacuzzi Bros Inc  
Lancaster Pump & Mfg Co Inc  
McDonald A Y Mfg Co  
Morrison Co  
Myers F E & Bros Co  
Red Jacket Mfg Co  
Robbins & Myers Inc  
Sumo Pumps Inc  
Tait Manufacturing Co  
Uniflow Mfg Co  
Universal Mfg Co  
Wayne Home Equipment Co Inc  
Well Pump Co

### Pumps, Heat

Acme Industries Inc  
American Coils Co  
Carrier Corp  
Gibson Refrigerator Co Div Hupp Corp  
Jacuzzi Bros Inc  
Lennox Industries Inc  
Mueller Climatrol Div Worthington Corp  
Peerless Corp  
Revco Inc  
Typhoon Heat Pump Co Div Hupp Corp  
York Corp Sub Borg-Warner

### Pumps, Sump

Aermotor Co  
Aurora Pump Div NY Air Brake Co  
Barnes Mfg Co  
Chicago Pneumatic Tool Co  
Chicago Pump Co  
Clayton Mark & Co  
Construction Machinery Co  
Dayton Electric Mfg Co  
Decatur Pump Co  
Deming Co  
Dempster Mill Mfg Co  
Everite Pump & Mfg Co Inc  
Fairbanks Morse & Co  
Flint & Walling Mfg Co Inc  
Gardner-Denver Co  
Gorman-Rupp Co  
Goulds Pumps Inc  
Hypro Engineering Inc  
Ingersoll-Rand Co  
Jacuzzi Bros Inc  
Kenco Pump Division  
Lancaster Pump & Mfg Co Inc  
Le Roi Div Westinghouse Air Brake Co  
Marlow Pumps Div Bell & Gossett Co  
Milwaukee Faucets Inc  
Myers F E & Bros Co  
Oro Mfg Co  
Peerless Pump Div Food Machinery Corp  
Penberthy Mfg Co  
Red Jacket Mfg Co  
Remington Arms Co Inc  
Sin-Jin Products Co  
Standard Electric Mfg Co Inc  
Tait Mfg Co  
Thor Power Tool Co

Triplex Heating Specialty Co Inc  
Uniflow Mfg Co  
Universal Mfg Co  
Wayne Home Equipment Co Inc  
Weil Pump Co

**Quarry Tile**  
(See Tile, Quarry)

**Raceways**  
(See Conduits & Raceways)

**Radial Saws**  
(See Saws, Radial)

**Radiators, Baseboard**

American-Standard Plumbing & Heating  
Berko Electric Mfg Corp  
Burnham Boiler Corp  
Burnham Corp Warm Air & Cooling Div  
Crane Co  
Dunkirk Radiator Corp  
Edwards Engineering Corp  
Ejay Mfg Co  
Electro Prods Mfg Co  
Fedders Corp  
Federal Boiler Co Inc  
Kresno-Stamm Mfg Co  
Kritzler Radiant Coils Inc  
National-U S Radiator Corp  
Nesbitt John J Inc  
Radiant-Ray Radiation Inc  
Rittling Corp  
Rome-Turney Radiator Co  
Slant-Fin Radiator Corp  
Stratton Terstegge Co  
Trane Co  
Utica Radiator Corp  
Vulcan Radiator Co  
Webster Warren & Co  
Well-McClain Co  
Wiegand Edwin L Co  
Young Radiator Co

**Radiators, Convactor**

American Air Filter Co  
American-Standard Plumbing & Heating  
Fedders Corp  
Kritzler Radiant Coils Inc  
Modine Mfg Co  
National-U S Radiator Corp  
Rittling Corp  
Rome-Turney Radiator Co  
Vulcan Radiator Co  
Webster Warren & Co  
Wiegand Edwin L Co  
Young Radiator Co

**Radios, Built-In**  
(See Intercoms & Radios)

**Rafters, Laminated**  
(See Beams, Wood, Laminated; also Trusses, Roof, Wood)

**Railings & Columns, Aluminum**

Keystone Alloys Co  
Kingsford Ornamental Building Prods  
Loxreen Co Inc  
Regal Products Corp

**Railings & Columns, Iron**  
(See Ornamental Iron)

**Ranges & Ovens, Built-In**

Admiral Corp  
Caloric Appliance Corp  
Chambers Built-Ins Inc

**Chambers® BUILT-INS**  
A COMPLETE "CUSTOM MATCHED" LINE  
Ovens and Ranges (gas and electric) . . .  
Refrigerator-Freezers . . . Dishwashers . . .  
Ventilating Hoods . . . Disposers  
**A DESIGN AND SIZE FOR ANY KITCHEN PLAN!**  
For specifications—Air Mail  
Chambers Built-ins Co., Dept. AB-460  
2012 N. Harlem Ave., Chicago 35, Ill.

Cribben & Sexton Co  
Dixie Products Inc  
Frigidaire Div General Motors Corp  
Gaffers & Sattler  
Gen Elec Co Appliance & Television Div  
Gray & Dudley Co  
Gregg & Son Inc  
Hotpoint Div  
Kelvinator Div American Motors Co  
Lindemann A J & Hoverson Co  
Magic Chef  
Monarch Range Co  
Morgan-Wightman Co  
Mt Vernon Furnace & Mfg Co  
National Stove Co  
Norge Div Borg-Warner Corp  
Oakland Foundry Co  
O'Keefe & Merritt Co  
Philco Corp  
Preway Inc  
Roper Geo D Corp  
Samuel Stamping & Enameling Co  
Stiglitz Corp  
Stove Works Inc  
Tappan Co  
Tennessee Stove Works  
Thermador Elec Mfg Co  
Tracy-American Kitchens  
Utility Appliance Corp  
Welbilt Stove Co  
Westinghouse Electric Appliance Div  
Westinghouse Electric Corp  
Whirlpool Corp

**Ranges & Ovens, Electric**

Admiral Corp  
Athens Stove Works Inc  
Chambers Built-Ins Inc  
Dixie Products Inc  
Frigidaire Div General Motors Corp  
Gen Elec Co Appliance & Television Div  
Gibson Refrigerator Co Div Hupp Corp  
Gray & Dudley Co  
Gregg & Son Inc  
Hotpoint Div  
Kelvinator Div American Motors Co  
Lindemann A J & Hoverson Co  
Monarch Range Co  
Mt Vernon Furnace & Mfg Co  
National Stove Co  
Norge Div Borg-Warner Corp  
Oakland Foundry Co  
Philco Corp  
Preway Inc  
Samuel Stamping & Enameling Co  
Stove Works Inc  
Tappan Co  
Tennessee Stove Works  
Thermador Elec Mfg Co  
Tracy-American Kitchens  
Waste King Corp  
Welbilt Stove Co  
Westinghouse Electric Appliance Div  
Westinghouse Electric Corp  
Whirlpool Corp

**Ranges & Ovens, Gas**

Athens Stove Works Inc  
Brown Stove Works Inc  
Caloric Appliance Corp  
Chambers Built-Ins Inc  
Cribben & Sexton Co  
Dixie Products Inc  
Gaffers & Sattler  
General Air Conditioning Corp  
Gray & Dudley Co  
Hardwick Stove Co

Magic Chef  
Monarch Range Co  
Mt Vernon Furnace & Mfg Co  
National Stove Co  
Norge Div Borg-Warner Corp  
Oakland Foundry Co  
O'Keefe & Merritt Co  
Preway Inc  
Rheem Mfg Co  
Roper Geo D Corp  
Samuel Stamping & Enameling Co  
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)

**Refrigerators, Built-In**

Admiral Corp  
Amana Refrigeration Inc  
Athens Stove Works Inc  
Chambers Built-Ins Inc

**Chambers® BUILT-INS**  
A COMPLETE "CUSTOM MATCHED" LINE  
Ovens and Ranges (gas and electric) . . .  
Refrigerator-Freezers . . . Dishwashers . . .  
Ventilating Hoods . . . Disposers  
**A DESIGN AND SIZE FOR ANY KITCHEN PLAN!**  
For specifications—Air Mail  
Chambers Built-ins Co., Dept. AB-460  
2012 N. Harlem Ave., Chicago 35, Ill.

Douglas Crestlyn International Inc  
Dwyer Products Corp  
Gray & Dudley Co  
Hotpoint Div  
Kelvinator Div American Motors Co  
Lindemann A J & Hoverson Co  
Manitowoc Equipment Works  
Philco Corp  
Preway Inc  
Quicfrez Inc  
Revco Inc  
Sub Zero Freezer Co Inc  
Thermador Elec Mfg Co  
Westinghouse Electric Appliance Div  
Westinghouse Electric Corp  
Whirlpool Corp

**Refrigerators & Freezers, Electric**

Acme National Refrigeration Co Inc  
Admiral Corp  
Amana Refrigeration Inc  
Barkow Aug G Mfg Co Inc  
Ben-Hur Mfg Co  
Chambers Built-Ins Inc  
Dwyer Products Corp  
Frigidaire Div General Motors Corp  
Gen Elec Co Appliance & Television Div  
Gibson Refrigerator Co Div Hupp Corp  
Hotpoint Div  
Insta-Matic Heater Co  
Kelvinator Div American Motors Co  
King Refrigerator Corp  
Manitowoc Equipment Works  
Maytag Co  
Norge Div Borg-Warner Corp  
Quicfrez Inc  
Revco Inc  
Sub Zero Freezer Co Inc  
Tappan Co  
Victor Prods Corp  
Westinghouse Electric Appliance Div

Westinghouse Electric Corp  
Whirlpool Corp

**Refrigerators & Freezers, Gas**

Acme National Refrigeration Co Inc  
Gray & Dudley Co  
Insta-Matic Heater Co  
Preway Inc  
Whirlpool Corp

**Registers, Heating & Ventilating**

A & A Register Co  
Air Control Products Inc  
Aluminum Co of America  
Auer Register Co  
Bennett-Ireland Inc  
Burnham Corp Warm Air & Cooling Div  
Coleman Co Inc  
Connor Engineering Corp  
Gerwin Industries Inc  
Hart & Cooley Mfg Co  
International Oil Burner Co  
Leigh Bldg Prods Div Air Con Prods Inc  
Lima Register Co  
Majestic Co Inc  
Mueller Climatrol Div Worthington Corp  
Parker S Hdw Mfg Corp  
Titus Mfg Corp  
United States Register Co  
Waterloo Register Co Inc  
York Corp Sub Borg-Warner

**Reinforcing Bars & Mesh  
(See also Steel, Masonry  
Wall Reinforcing)**

Amer Steel & Wire Div U S Steel Corp  
Bethlehem Steel Co  
Ceco Steel Prods Corp  
Cleveland Steel Specialty Co  
Colorado Fuel & Iron Corp  
Colorado Fuel & Iron Corp  
Continental Steel Corp  
Copperweld Steel Co Wire & Cable Div  
Dayton Sure-Grip & Shore Co  
Donley Brothers Co  
Forbes Steel Corp  
Jones & Laughlin Steel Corp  
Kaiser Aluminum & Chemical Sales Inc  
Kees F D Mfg Co  
Laclede Steel Co  
Mid-States Steel & Wire Co  
Northwestern Steel & Wire Co  
Republic Steel Corp Truscon Div  
Ryerson Joseph T & Son  
Signode Steel Strapping Co  
Soutle Steel Co  
United States Steel Corp  
Youngstown Sheet & Tube Co

**Roof Decks  
(See Decking)**

**Roofing Shingles  
(See Shingles)**

**Roofing, Aggregates For**

Black White Limestone Co

**Roofing, Asbestos Cement**

Abesto Manufacturing Co  
Allied Chemical Corp Barrett Div  
Carey Philip Mfg Co  
Ceresit Waterproofing 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  
Pioneer Div Flintkote Co  
Reynolds Aluminum Supply Co  
Ruberold Co  
Sonneborn L Sons Inc  
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 Philip Mfg Co  
Celotex Corp  
Certain-Teed Sales Corp  
Fiberboard Paper Prods Inc  
Flintkote Co  
Fry Lloyd A Roofing Co  
Globe Roofing Products Co Inc  
Johns-Manville Corp  
Keasbey & Mattison Co  
Lastik Paint Inc  
Lehon Co  
Logan-Long Co  
Monroe Co Inc  
National Mfg Corp  
Nelson B F Mfg Co  
Owens-Corning Fiberglas Corp  
Pioneer Div Flintkote Co  
Protective Papers Inc  
Reynolds Aluminum Supply Co  
Ruberold Co  
Sonneborn L Sons Inc  
United States Gypsum Co

**Roofing, Copper**

American Brass Co  
Bridgeport Brass Co  
Ceco Steel Prods Corp  
Chase Brass & Copper Inc  
Hussey C G & Co  
Revere Copper & Brass Inc  
Reynolds Aluminum Supply Co

**Roofing & Siding, Aluminum  
(See also Siding, Aluminum  
Clapboard)**

Aluminum Co of America  
Edco Products Inc  
Granite City Steel Co  
Hess Mfg Co Inc



Jones & Brown Inc  
Kaiser Aluminum & Chemical Sales Inc  
Loom Roof Corp of America  
Monroe Co Inc  
Nichols Wire & Aluminum Co  
Penn Supply & Metal Corp  
Quaker State Metals Co  
Revere Copper & Brass Inc  
Reynolds Aluminum Supply Co  
Reynolds Metals Co  
Ryerson Joseph T & Son  
Sonneborn L Sons Inc  
U S Aluminum Siding Corp

**Roofing, Steel**

Bethlehem Steel Co  
Inland Steel Products Co  
Reeves Steel & Mfg Co Div  
Republic Steel Corp Truscon Div

Reynolds Aluminum Supply Co  
Ryerson Joseph T & Son

**Roofing, Terne Metal**

Ceco Steel Prods Corp  
Follansbee Steel Corp  
Inland Steel Products Co  
Klauer Mfg Co  
Reeves Steel & Mfg Co Div  
Reynolds Aluminum Supply Co

**Roofing, Tile  
(See Tile, Roofing)**

**Room Dividers  
(See Partitions)**

**Routers & Shapers, Electric**

Beach Mfg Co  
Black & Decker Mfg Co  
Boice Crane Co  
Consolidated Mach & Supply Co Ltd  
Dewalt Div AMF  
Duro Metal Products Co  
Ekstrom Carlson & Co  
Oliver Machinery Co  
Porter-Cable Machine Co  
Rockwell Mfg Delta Power Tool Div  
Skil 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



Mosler Safe Co  
Remington Rand Div Sperry Rand

**Salamanders  
(See Heaters, Contractors,  
Portable)**

**Sanders**

Albertson & Company 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  
Chicago Pneumatic Tool Co  
Clarke Floor Machine Co  
Cummins Port Tools Div J Oster Mfg Co  
DeWalt Div AMF  
Dremel Mfg Co  
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)

All-Metal Weatherstrip Co  
 Caldwell Mfg Co  
 Chicago 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  
 Loek-Joint Window Co  
 Macklanburg-Duncan Co  
 Master Metal Strip Service Inc  
 Precision Weatherstrip Co  
 Pullman Mfg Corp  
 Sager Weatherstrip & Caulking  
 Turner & Seymour Mfg Co  
 Unique Window Balance Corp  
 Unique Balance  
 Weatherproof Products Corp  
 Zegers Inc

**Saws, Band**  
 (See Tools, Carpenter,  
 Hand)

**Saws, Chain, Tree-Felling**

Atkins Saw Div Borg-Warner  
 Cenatron Industries  
 General Engines Co Inc  
 Homelite Div Textron Inc  
 Lancaster Pump & Mfg Co Inc  
 Milwaukee Elec Tool Corp  
 Morgan-Wightman Co  
 Pioneer Saws Div Borg-Warner Corp  
 Porter-Cable Machine Co  
 Remington Arms Co Inc  
 Wright Power Saw & Tool Corp

**Saws, Circular**

Albertson & Co Inc  
 American Woodworking Machinery Co  
 Atkins Saw Div Borg-Warner  
 Atlas Press Co  
 Beach Mfg Co  
 Belsaw Machinery Co  
 Black & Decker Mfg Co  
 Blum Julius & Co Inc  
 Boice Crane Co  
 Comet Mfg Co Div Siegler Corp  
 Consolidated Mach & Supply Co Ltd  
 DeWalt Div AMF  
 Dinston Div H K Porter Co Inc  
 Duro Metal Products Co  
 Ekstrom Carlson & Co  
 Foley Mfg Co  
 Heinemann Saw Corp  
 Heller Tool Co  
 Hee R & Co Inc  
 Horton Manufacturing Co  
 Huther Brothers Saw Mfg Co Inc  
 Kalamazoo Tank & Silo Co

Lippmann Engineering Works Inc  
 Master Woodworker Mfg Co Inc  
 Mattison Machine Works  
 Milwaukee Elec Tool Corp  
 Oliver Machinery Co  
 Remington Arms Co Inc  
 Rockwell Mfg Delta Power Tool Div  
 Shopmaster Div Energy Mfg Co  
 Simonds Saw & Steel Co  
 Speedway Mfg Div Thor Power Tool Co  
 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  
 Jones Superior Machine Co  
 King Mfg Co  
 Master Woodworker Mfg Co Inc  
 Remington Arms Co Inc  
 Thomas Industries Inc  
 Wright Power Saw & Tool Corp

**Saws, Hack**  
 (See Tools, Carpenter,  
 Hand)

**Saws, Masonry**  
 (See Concrete Sawing  
 Equipment; also Cutters)

**Saws, Portable Electric**

Albertson & Co Inc  
 American Floor Machine Co  
 Black & Decker Mfg Co  
 Blum Julius & Co Inc  
 Burgess Vibrocrafters Inc  
 Chicago Pneumatic Tool Co  
 Cummins Port Tools Div J Oster Mfg Co  
 Dalton Mfg Co  
 DeWalt Div AMF  
 Fornberg 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  
 R C S Tool Corp  
 Remington Arms Co Inc  
 Ryerson Joseph T & Son  
 Skill Corp  
 Speedway Mfg Div Thor Power Tool Co  
 Syntron Co  
 Thor Power Co  
 Wen Products Inc

**Saws, Radial**

American Woodworking Machinery Co

Comet Mfg Co Div Siegler Corp  
 Consolidated Mach & Supply Co Ltd  
 DeWalt Div AMF  
 Master Woodworker Mfg Co Inc  
 McDonough Mfg Co  
 Rockwell Mfg Delta Power Tool Div  
 Skill Corp  
 Wallace J D Co Inc

**Saws, Sabre**

American Floor Machine Co  
 Peninsula Tool Co Inc

**Scaffolding & Shoring**  
 (See also Posts, Adjustable)

Ajax Building Bracket Co  
 Amidon Engineering Co  
 Baltimore Co  
 Bauer Mfg Co  
 Beaver Advance Corp  
 Berg John Mfg Co  
 Bil-Jax Inc  
 Charles Machine Works  
 Conner Steel & Wire Co  
 Du-All Scaffold Bracket Co  
 Farwell Metal Fabricating  
 Flint A W Co  
 Goldblatt Tool Co  
 Goshen Churn & Ladder Inc  
 Hico Corp of America  
 Hoitama Adjustable Scaffold Bracket Co  
 Holland Ladder & Mfg Co  
 Larson Ladder Co  
 Louisville Ladder Co  
 Marvel Equipment Co  
 Mauk Seattle Lumber Co  
 Michigan Ladder Co  
 Morgan Manufacturing Co  
 Moulton Ladder Mfg Co  
 Newark Ladder & Bracket Co Inc  
 Patent Scaffolding Co  
 Pittsburgh Plate Glass Co  
 Reiman & Georger Inc  
 Rich Howard B Inc  
 Richbilt Manufacturing Co  
 Safway Steel Products Inc  
 Sloan L J Scaffold Bracket Co  
 Steel Scaffolding Co  
 Superior Scaffold Co  
 Symons Clamp & Mfg Co  
 Tilley John S Ladders Co Inc  
 Tubular Structures Corp of America  
 Universal Mfg Corp  
 Waco Transwall Folding Partition  
 Wagner Mfg Co  
 Werner R D Co Inc

**SCR Brick**  
 (See Brick, SCR)

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

**Screen Hardware**  
 (See Hardware, Screen &  
 Storm Sash)

**Screening, Louver Type**

Kaiser Aluminum & Chemical Sales Inc  
 Tyler Arthur F Co

**Screening, Metal Wire**

Alabama Wire Co Inc  
 Aluminum Co of America  
 Chamberlin Co of America  
 Chase Brass & Copper Inc  
 Colorado Fuel & Iron Corp  
 Colorado Fuel & Iron Corp  
 Cyclone Fence Dept Am Steel & Wire Div  
 Gilbert & Bennett Mfg Co  
 Hanover Wire Cloth Div

Heilig Bros Co  
Keystone-Standard Wire Cloth Co  
Lato Prods Co  
New York Wire Cloth Co Inc  
Reynolds Aluminum Supply Co  
Royal Jalousie Co  
Seneca Wire & Mfg Co  
Wickwire Bros Inc

**Screening, Plastic**

Chicopee Mills Inc Lumite Div  
Evergreen States Forest Products  
Firestone Plastics Co  
Graham John H & Co Inc  
New York Wire Cloth Co Inc  
Owens-Corning Fiberglas Corp  
Plastic Woven Prods  
Reynolds Aluminum Supply Co  
Tavart Co

**Screens, Tension**

Columbia Mills Inc  
Dural Products Co  
Goshen Sash & Door Co  
Keystone-Standard Wire Cloth Co  
Lockhart Mfg Corp

**Screen-o-matic Roll Screens  
and Lock-Tite Tension Screens**  
*Write for catalog*

**LOCKHART MFG. CORP.**  
6350 E. Davison Ave. Detroit 12, Mich

Loxgreen Co Inc  
Reflectal Corp Sub Borg Warner  
Reynolds Aluminum Supply Co  
Rudiger-Lang 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  
Skil 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  
Gensco Tools  
Hercules Fastener Co  
Independent Nail & Packing Co  
Lamson & Sessions Co  
Macklanburg-Duncan Co  
National Lock Co  
Paine Co  
Parker S Hdwe Mfg Corp  
Ramset Fastening System  
Republic Steel Corp

Screw & Bolt Corp of America  
Southern Screw Co  
Stanscrew Fasteners Div Standard Screw

**Sealers, Concrete  
(See Concrete Hardeners &  
Sealers)**

**Sealers & Finishes  
(See Finishes & Sealers)**

**Septic Tanks, Clay**

American Vitrified Prods Co  
Cannelton Sewer Pipe Co  
Clay City Pipe Co  
Kaul Clay Co  
Logan Clay Prods Co  
Owensboro Sewer Pipe Co  
Pomona Terra-Cotta Co  
Robinson Clay Product Co  
Stillwater Clay Products Co  
Streator Drain Tile Co  
Superior Clay Corp

**Septic Tanks, Steel**

Kaustine Furnace & Tank Co  
Koven L O & Bro Inc  
Rheem Mfg Co  
Shadyside Foundry  
Vega Industries Inc

**Sewage Disposal Systems  
(See also Pumps, Sump;  
Septic Tanks)**

Chicago Pump Co  
Continental Pump Co  
McPherson Inc  
Pomona Terra-Cotta Co  
Smith & Loveless Inc  
Straitsville Brick Co  
Texas Vitrified Pipe Co  
Yeomans Bros Co

**Sewer Pipe  
(See Pipe, Sewer)**

**Shakes, Cedar, Stained  
(See Shingles & Shakes,  
Cedar, Red)**

**Shapers (See Routers &  
Shapers)**

**Sheathing, Board, Fiber  
(See Wallboard & Sheath-  
ing, 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 Corp  
Air O-Cel  
Allied Chemical Corp Barrett Div

Armstrong Cork Co  
Bird & Son Inc  
Bradley Southern Div Potlatch Forests  
Carey Philip Mfg Co  
Celotex Corp  
Certain-Teed Sales Corp  
Edco Products Inc  
Flintkote Co  
Insulite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Kaiser Gypsum Co Inc  
Keasbey & Mattison Co  
National Gypsum Co  
Pioneer Div Flintkote Co  
Simpson Logging Co  
Tiger Brands Div Basic Inc  
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

**GENUINE Amerock HARDWARE**

**HIDE-A-SHELF HARDWARE**



TWO-POSITION LOCKING for stand-up or sit-down jobs

EASY to use  
EASY to sell

**ASK YOUR WHOLESALER**

AMEROCK CORPORATION

ROCKFORD, ILLINOIS

Frick-Gallagher Mfg Co Inc

**Shingles, Asbestos Cement  
(See Roofing, Asbestos  
Cement)**

**Shingles, Asphalt  
(See Roofing, Asphalt)**

**Shingles & Shakes, Cedar,  
Red**

Aloha Lumber Corp  
American Stained Shingle Co  
Axford Prairie Shake Co  
Bestwood Cedar Shingle Co Ltd  
Canadian Forest Prods Ltd  
Capilano Timber Co Ltd  
Cedar Supply Co  
Cedarwood Timber Co  
Century Shake Mill  
Colonial Cedar Co  
Creo-Dipt Co Inc  
Cutrite Cedar Prods  
Davidson Shingle Co Ltd  
Duronso Bros Shake Mill

Forks Shingle Co Inc  
 Georgia Pacific Corp  
 Gray Lumber & Shingle Co  
 Grays River Shake Co  
 Harris L C Cedar Ltd  
 Haynes O E & Sons Inc  
 Hines Edward Lumber Co  
 Hoffee Cedar Prods  
 Hulbert Wm Mill Co  
 Humptulips Shingle Co  
 Huntington Shingle Co  
 Hum Shingle Co  
 International Paper Co Long-Bell Div  
 Jackson Shake Co  
 Johnson & Johnson Shake Co  
 Lake Lytle Shingle Co  
 Lewis J A Shingle Co  
 Longview 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  
 Ol' Settler Shake Co  
 Olympic Stained Prods Co  
 Parker & Sons Shake Mill  
 Powell W R Shake Co  
 Quality Wood Prods  
 R N H Shake Co  
 Saginaw Shingle Co  
 Seattle Cedar Lumber Mfg Co  
 Shakertown Corp  
 Smith M R Shingle Co  
 Sound Sidewall Shake Co  
 Summit Sales Co  
 Super Mill Co  
 Weatherbest Corp  
 Western Door & Plywood Corp  
 Weyerhaeuser Co Lumber & Plywood  
 White Creek Shingle Co

**Shoring, Horizontal**  
 (See also Scaffolding & Shoring)

Acrow Corp of America  
 Hico Corp of America  
 Jones & Laughlin Steel Corp  
 Spanall of the Americas Inc

**Shovels**  
 (See Cranes & Shovels)

**Shower Doors**  
 (See Doors, Shower & Bathtub)

**Shower Receptors**  
 (See also Plumbing Fixtures)

Cleveland Wash Tray Mfg Co  
 Cutler Metal Prods Co  
 Fiat Metal Mfg Co  
 Lehman Sprayshield Co  
 Milwaukee Stamping Co Bathe-Rite Div  
 Norman W F Sheet Metal Mfg Co  
 Pacific Pre-Cast Products Inc  
 Rehco Corp

**Shower Stalls**  
 (See also Plumbing Fixtures)

Efron Theodore Mfg Co  
 Gerber Plumbing Fixtures Corp  
 Rehco Corp  
 Reynolds Aluminum Supply Co  
 Weis Henry Mfg Co

**Shutters, Metal**

Acme Engineering & Mfg Co  
 Air Control Products Inc  
 Alside Inc

American Coolair Corp  
 Atco Aluminum Products  
 Coffman R G Co Inc  
 Edco Products Inc  
 Gordon Mfg Co  
 Jones Shutter Products  
 Leigh Bldg Prods Div Air Con Prods Inc  
 Morgan-Wightman Co  
 Reynolds Aluminum Supply Co  
 Victor Tool & Machine Corp

**Shutters, Wood**

Caradco Inc  
 Cole Mfg Co  
 Crestline Co  
 Curtis Companies Inc  
 Farley & Loetscher Mfg Co  
 Goshen Sash & Door Co  
 Gregg & Son Inc  
 Heinley Mastercraft Products  
 Hyde-Murphy Co  
 Ideal Co Mfg Div Wm Cameron & Co  
 Morgan Co  
 Morgan-Wightman Co  
 Rock Island Millwork Co Factory Div  
 Rockwell of Randolph Inc  
 Schumacher F E Co  
 Tyler Arthur F Co

**Siding**  
 (See Lumber)

**Siding, Asbestos Cement**

Allied Chemical Corp Barrett Div  
 Carey Philip Mfg Co  
 Certain-Teed Sales Corp  
 Fiberboard Paper Prods Inc  
 Flintkote Co  
 Fry Lloyd A Roofing Co  
 Johns-Manville Corp  
 Kearsbey & Mattison Co  
 Lehon Co  
 Logan-Long Co  
 National Gypsum Co  
 Pioneer Div Flintkote Co  
 Re-Nu-It Corp  
 Reynolds Aluminum Supply Co  
 Ruberoid Co  
 Supradur Corp of N Y  
 United States Gypsum Co

**Siding, Aluminum Clapboard**

Aeroshade Co  
 Alscio Inc

Chamberlin Co of America  
 Consolidated General Prod Inc  
 Edco Products Inc  
 Globe Roofing Products Co Inc  
 Hastings Aluminum Products Inc  
 Keystone Alloys Co  
 Lifetime Industries Inc  
 Lyf-Alum Inc  
 Morgan-Wightman Co  
 National Metal Prods  
 Quaker State Metals Co  
 Reynolds Aluminum Supply Co  
 Security Aluminum Co  
 Textron Metals Co  
 U S Aluminum Siding Corp  
 Wisco Inc

**Siding, Hardboard**  
 (See also Hardboard)

Aetna Plywood & Veneer Co  
 Armstrong Cork Co  
 Celotex Corp  
 Evans Products Co  
 Forest Fiber Products Co  
 Hines Edward Lumber Co  
 Insulite Div Minn & Ontario Paper Co  
 Masonite Corp  
 National Gypsum Co  
 Reynolds Aluminum Supply Co  
 United States Plywood Corp

**Siding, Plywood**  
 (See also Plywood, Douglas Fir)

Aetna Plywood & Veneer Co  
 Cascades Plywood Corp  
 Georgia Pacific Corp  
 Harbor Plywood Corp  
 Midwest Plywood Co  
 Milwaukee Plywood Co  
 Paxton Frank Lumber Co  
 Reynolds Aluminum Supply Co  
 Rosboro Lumber Co  
 St Paul & Tacoma 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  
 Tension Bros Inc

**Siding, Underliner, Insulating**  
 (See Sheathing, Insulating)

**Siding, Wood**  
 (See also Lumber; Shingles)

Aloha Lumber Corp  
 Arrow Tank Co Inc  
 Bradley Southern Div Potlatch Forests  
 Dierks Forests Inc  
 Georgia Pacific Corp  
 Goodman Lumber Div Calumet & Hecla  
 Hardwood Corp of America  
 Homasote Co  
 Jones Harold R  
 Mauk Seattle Lumber Co  
 McMinnville Mfg Co  
 Olympic Stained Prods Co  
 Ozan Lumber Co  
 Pacific Lumber Co  
 Paxton Frank Lumber Co  
 Rosboro Lumber Co  
 Saginaw Shingle Co  
 Seattle Cedar Lumber Mfg Co  
 Shake-A-Ply Co  
 Summit Sales Co  
 Upson Co  
 Weyerhaeuser Co Lumber & Plywood

**LOWER COSTS &  
 INSTALLATION TIME**

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**BAK-R-FOAM**  
 Aluminum Siding

*... applies directly to the studs, no underlay materials needed!*

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Alside Inc  
 Brixite Mfg Co Inc



## Sinks, Metal or Stainless Steel

Active Tool & Mfg Co  
Aerona Mfg Co Metal Products Div  
Amer-Standard Plumbing & Heating Div  
Caloric Appliance Corp  
Carrollton Mfg Co  
Coyymation Inc  
Ductless Hood Co Inc  
Ekco Prods Co  
Eljer Div Murray Corp of America  
Elkay Mfg Co  
Farwell Metal Fabricating  
Geneva Modern Kitchens  
Legion Stainless Sink Corp  
Lyon Inc  
Tracy-American Kitchens  
Universal-Rundle Corp  
Vance Industries Inc

## Sinks, Porcelain Enamel (See Plumbing Fixtures)

## S Skylights

Allied Chemical Corp Barrett Div  
Chemold Co  
Consolidated General Prod Inc  
Johns-Manville Corp  
Kimble Glass Co Sub Owens-Illinois  
Klise Mfg Co  
Owens-Illinois  
Pennsylvania Wire Glass Co  
Pittsburgh Corning Corp  
Plasteco Inc  
Resolite Corp  
Rohm & Haas Co  
Saint Paul Corrugating Co  
Structoglas 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; Windows, Horizontal Gliding)

## Spray Guns, Paint (See Paint Spray Guns)

## Stains (See Paints, Interior & Exterior, Oil)

## Stairs, Nosing for

Crown Rubber Co  
Moore Goodloe E Inc

## Stairs, Steel, Cellar (See Doors, Cellar, Bulkhead)

## Stairs, Treads For

American Abrasive Metals Co  
American Mat Corp  
Bradley Southern Div Potlatch Forests  
Cloud Oak Flooring Co  
Crown Rubber Co  
Dravo Corp  
Farley & Loetscher Mfg Co  
Goodrich B F Co Flooring Products  
Hardwood Corp of America  
Harris Mfg Co  
Jones & Laughlin Steel Corp  
Musson R C Rubber Co  
Norton Co  
Robbins Floor Products Inc  
Wooster Products Inc

## Stairways, Disappearing

Bessler Disappearing Stairway  
Craftwood Products  
Ez-Way Sales Inc  
Fabricon Co  
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 Co  
Wel-Bilt Products Co

## Stairways, Steel

Michel & Pfeffer Iron Works Inc  
Valley Metal Products

## Staplers, Tackers & Staples

Arrow Fastener Co Inc  
Bostitch  
Burgess Fastening Co  
Copperweld Steel Co Wire & Cable Div  
Everwarm Inc  
Fastener Corp

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Power Line Sales Inc  
Signode Steel Strapping Co  
Spotnails Inc  
Tennessee Coal & Iron Div U S Steel

## Steel, Masonry Wall Reinforcing (See also Reinforcing Bars & Mesh)

A A Wire Products Co  
Carter-Waters Corp  
Conver Steel & Wire Co  
Dur O Wal Div Cedar Rapids Block Co  
Keystone Steel & Wire Co  
Lenawee Peerless Inc

## Steel, Structural (See also Studdings & Channels, Steel)

Adams Co  
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 U S Steel  
Copco Steel & Engineering Co  
Cuckler Steel Span Co  
Flash Bridge Co  
Granco Steel Prods Co  
Haven-Busch Co  
Inland Steel Co  
International Steel Co  
Jackson & Church Div York-Shipley Inc  
Jones & Laughlin Steel Corp  
Junior-Pro Products Co  
Kaiser Steel Corp  
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Mahon R C Co  
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Morgan-Wightman Co  
Northwestern Steel & Wire Co  
Penn Metal Co Inc  
Pointer-Willamette Co Inc  
Republic Steel Corp  
Ryerson Joseph T & Son  
Sheffield Div Armco Steel Corp  
Sta-Tite Inc  
Stran-Steel Corp Div Natl Steel Corp  
Suro Steel Co  
Taber Bushnell Inc  
Tennessee Coal & Iron Div U S Steel  
Timber Engineering Co  
Union Asbestos & Rubber Co  
Unistrut Prods Co  
United States Steel Corp  
Versa Products Co  
Youngstown Sheet & Tube Co

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Shakertown Corp  
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Tamm Industries Co  
Vermont Marble Co

## Stone, Limestone

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Corson G & W H Inc  
Fond Du Lac Stone Co Inc  
Georgia Marble Co  
Indiana Limestone Co Inc  
Longview Lime Corp  
Mankato Stone Co  
San-Tex Stone Quarry Inc

Texas Quarries Inc  
Tiger Brands Div Basic Inc  
Woodville Lime Products Co  
Wooley Stone Co Inc



### Stone, Marble

Carthage Marble Corp  
Georgia Marble Co  
Mankato Stone Co  
Stone Products Co  
Tamma 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

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Stone Products Co

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Fentron Industries Inc  
Ingram-Richardson Mfg Co  
Kawneer Co  
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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

Colorcrete Industries Inc  
Penn Crete Prods Co  
United States Gypsum Co

### Studding & Channels, Steel

Alabama Metal Lath Co Inc  
Bostwick Steel Lath Co  
Casing Inc & Drywall Trim Div

Inland Steel Products Co  
National Gypsum Co  
Penn Metal Co Inc  
Republic Steel Corp Truscon Div

### Sump Pumps (See Pumps, Sump)

### Surveying Instruments (See Instruments, Surveying)

### Swimming Pool Equipment

Amercrete Corp  
Award Pools  
Birdair Structures Inc  
Bowser Inc Supply Div  
Capri Mfg Inc  
Cascade Pools  
Chester Products Inc  
Continental Pump 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  
Permutit Co Div Pfaudler Permutit Inc  
Poolquip Mfg Inc  
Quartz Mosaic Inc  
Romar Filter Corp  
Wahlstrom Bros Inc Natl Div  
Weissmuller Johnny Cienma Pools  
Zurn Industries Inc Plumbing Prods Div

### Swimming Pools

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Arrow Tank Co Inc  
Award Pools  
Capri Mfg Inc  
Cascade Pools  
Chester Products Inc  
Hoosier Tarpaulin & Canvas Goods Co  
International Swimming Pool Corp  
Koven L O & Bro Inc  
National Pool Equipment Co  
Paddock of California  
Wahlstrom Bros Inc Natl Div

### Tackers (See Staplers, Tackers & Staples)

### Tampers, Powered

Barco Mfg Co  
Chicago Pneumatic Tool Co  
Cleveland Trencher Co  
Gardner-Denver Co  
Ingersoll-Rand Co  
Jay Co Div Leukart Mach Co Inc  
Kelley Machine Div Wiesner-Rapp Co Inc  
Le Rol Div Westinghouse Air Brake Co  
Ottawa Steel Div Young Spring & Wire  
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

Gering Plastics Div  
Kewanee Mfg Co

### Tarpaulins

Arvey Corp  
Berg F O Co  
Delta Co  
Fulton Cotton Mills  
Gering Plastics Div  
Goodrich B F Industrial Prods Co  
Goss J C Co  
Hoosier Tarpaulin & Canvas Goods Co  
Industrial Canvas Prods Corp  
Koppers Co Inc Durethene Plant  
Kordite Corp  
Newark Ladder & Bracket Co Inc  
Richkraft Co  
Thilmany Pulp & Paper Co  
Tiger Brands Div Basic Inc  
Tucker Duck & Rubber Co  
Visking Co  
Werner Canvas Prods Co

### Television Antennas (See Antennas, TV)

### Tension Screens (See Screens, Tension)

### Termite Shields

Abesto Mfg Co  
Allied Chemical Corp Barrett Div  
Cabot Samuel Inc  
California Spray-Chemical Corp  
Chemical Products Div Darworth Inc  
Cre-O-Tex Chemical Co  
Daseo Co Inc  
Dow Chemical Co  
Monsanto Chem Co Organic Chem Div  
National Mfg Corp  
Penn Supply & Metal Corp  
Phelan-Faust Paint Mfg Co  
Protection Products Mfg Co  
Shell Chemical Corp  
Sonneborn L Sons Inc  
Sullivan Co The  
Velcol Chemical Corp  
Watco-Dennis Corp  
Wood Treating Chemicals Co

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Adams Engineering Co  
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Allmetal Weatherstrip Co  
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American Brass Co  
Ames Metal Moulding Co  
B & T Metals Co  
Baldwin Hardware Mfg Corp  
Blum Julius & Co Inc  
Bommer Spring Hinge Co Inc  
Bradley Southern Div Potlatch Forests  
Ceco Steel Prods Corp  
Chamberlin Co of America  
Chase Brass & Copper Inc  
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Cloud Oak Flooring Co  
Croft Metal Products Inc  
Curtis Companies Inc  
Dennis W J & Co  
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General Window Co  
Goodrich B F Co Flooring Products  
Harris Inc  
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Kawneer Co  
Macklanburg-Duncan Co  
Master Metal Strip Service Inc  
Metal Crafters  
Miraplex Tile Co  
Monarch Metal Weatherstrip Co  
Morgan-Wightman Co

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National Metal Prods  
National Window Corp  
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Pemko Mfg Co  
Reynolds Aluminum Supply Co  
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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**

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Azrock Floor Products Div

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Kentile Inc  
Mastic Tile Div Ruberoid Co  
Pioneer Div Flintkote Co  
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Wright Mastic Tile Div Ruberoid Co

**Tile, Ceramic, Floor & Wall**

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Architectural Tiling Co

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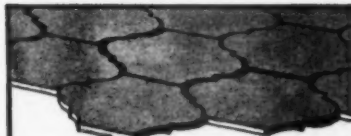
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Kentile Inc  
Robbins Floor Products Inc

**Tile, Drain**

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**Tile, Glazed**

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**Tile, Insulating  
(See Insulating Board)**

**Tile, Linoleum, Floor  
(See Linoleum Roll & Tile)**

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Columbia Brick Works  
Gladding McBean & Co  
Hanley Co  
Hood Mifflin B Co  
Interstate Brick Co  
Ludowici-Celadon Co  
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Summitville Tiles Inc  
United States Ceramic Tile Co

**Tile, Roofing**

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Gladding McBean & Co  
Ludowici-Celadon Co  
Wolverine Porcelain Enameling Co  
Zonolite Co

**Tile, Rubber**

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Armstrong Cork Co  
Congoleum-Nairn Co  
Danbury Rubber Co Inc

Flintkote Co  
Forman-Ford & Co  
Gen Tire & Rub Co Bldg Materials Div  
Goodrich B F Co Flooring Products  
Goodyear Tire & Rubber Co  
Kentile Inc  
Mastic Tile Div Ruberoid Co  
Mitchel Rubber Prods Inc  
Musson R C Rubber Co  
Robbins Floor Products Inc  
United States Rubber Co  
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**Tile, Structural**

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Acme Shale Brick Co Inc  
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Builders Brick Co  
Charleston Clay Prods Co  
Columbia Brick Works  
Design Technics  
Hanley Co  
Hope Brick Works  
Humboldt Brick & Tile Co  
Interstate Brick Co  
Jenkins Brick Co  
Mason City Brick & Tile  
Metropolitan Brick Inc  
Robinson Brick & Tile Co  
Summit Pressed Brick & Tile Co  
Texas Brick Co  
West Virginia Brick Co

**Tile, Vinyl**

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Armstrong Cork Co  
Azrock Floor Products Div  
Bird & Son  
Bonaide Mills Inc  
Congoleum-Nairn Inc  
Danbury Rubber Co Inc  
Dodge Cork Co Inc  
Flintkote Co  
Forman-Ford & Co  
Gen Tire & Rub Co Bldg Materials Div  
Goodrich B F Co Flooring Products  
Hachmeister-Inc  
Johns-Manville Corp  
Kentile Inc  
Mastic Tile Div Ruberoid Co  
Pioneer Div Flintkote Co  
Robbins Floor Products Inc  
Vinyl Plastics Inc  
Wright Mastic Tile Div Ruberoid Co

**Tile, Wall, Hardboard**

Barclay Mfg Co Inc  
Higgins Industries Inc  
Marsh Wall Products Inc  
Masonite Corp  
Wood Conversion Co

**Tile, Wall, Leather**

Kiefer International Products Co Div

**Tile, Wall Marble  
(See Flooring & Wall Cover-  
ing, 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**

Arterest Products Co Inc  
Bonaide Mills Inc

Cermak Tile Co Inc  
 Congoleum-Nairn Inc  
 Forman-Ford & Co  
 Formica Corp  
 Gen Tire & Rub Co Bldg Materials Div  
 Hachmeister-Inc  
 Jones & Brown Inc  
 Lustro Tile Mfg Co  
 Marsh Wall Products Inc  
 Mastic Tile Div Ruberoid Co  
 Mastro Plastics Corp  
 Miraplas Tile Co  
 Quartz Mosaic Inc  
 Selck Walter E & Co  
 Skyline Industries Sales Inc  
 Sunbeam Plastics Corp  
 Tilemaster Corp  
 Tile-Rite Co

### Tile, Wall, Porcelain Enamel

Interstate Brick Co  
 Vikon Tile Corp  
 Wolverine Porcelain Enameling Co

### Tileboard, Prefinished

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 AFCO Corp  
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 Prestile Mfg Co  
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 Timber Structures Inc

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 Cincinnati Tool Co  
 Cummins Portable Tools Div J Oster Mfg Co  
 Damascus Steel Products Corp  
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 Deuse E W Co  
 DeWalt Div AMF  
 Diston Div H K Porter Co Inc  
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 Empire Level Mfg Co  
 Federal Hardware Prods Inc  
 Fletcher-Terry Co  
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 Greenlee Tool Co

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 Hartmeister Mfg Inc  
 Hood Bros  
 Irwin Auger Bit Co  
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 Kedman Co  
 Kenco Mfg Co  
 Kimball Mfg Co  
 Leontina Tool Co  
 Mayhew Steel Products Inc  
 Millers Falls Co  
 Milwaukee Elec Tool Corp  
 Milwaukee Tool & Equipment Co  
 Nicholls Mfg Co  
 Nicholson File Co  
 Owatonna Tool Co  
 Ox-Wall Tool Co Ltd  
 Parker Mfg Co  
 Phillips Drill Co  
 Plumb Fayette R Inc  
 Pootatuck Corp  
 Portable Electric Tools Inc  
 Ramset Fastening System  
 Rockwell Mfg Delta Power Tool Div  
 Roe Justus & Sons  
 Safety Nail Driver Corp  
 Sargent & Co  
 Silver Bells Ltd  
 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  
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 Warren Tool Corp  
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 upright or laid flat,  
 locks automatically!

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 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

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 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  
 Karelius Albert & Sons Inc  
 Kent Air Tool Co  
 Mayes Bros Tool Mfg Co  
 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  
 Tru-Line Co  
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 Arps Corp  
 Case J I Co  
 Caterpillar Tractor Co  
 Clark Equip Co Const Machinery Div  
 Danuser Machine Co  
 Elmco Corp  
 Ford Motor Co Tractor & Implement Div  
 Gar Wood Industries Inc  
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 Massey-Ferguson Industrial Div  
 Minneapolis-Moline Co  
 Oliver Corp  
 Ottawa Steel Div  
 Pitman Manufacturing Co  
 Preco Inc  
 Roseman Tractor Equipment Co  
 Schwartz Mfg Co  
 Servis Equipment Co  
 Shawnee Mfg Co Dept of Parsons Co  
 Sherman Prods Inc  
 Toro Mfg Co  
 Tractomotive Corp  
 Turner Mfg Co  
 Universal Pulleys Co Inc  
 Wagner Iron Works

### Tractors

Allis Chalmers Mfg Const Machinery Div  
 Automatic Transportation Co  
 Barrett Cravens Co  
 Case J I Co  
 Caterpillar Tractor Co  
 Clark Equipment Co Indus Truck Div  
 Elmco Corp  
 Ford Motor Co Tractor & Implement Div  
 Hough Frank Co  
 International Harvester Co  
 John Deere Industrial Div  
 LeTourneau-Westinghouse Co  
 Lewis-Shepard Products Inc  
 Massey-Ferguson Industrial Div  
 Mead Specialties Co  
 Minneapolis-Moline Co  
 Oliver Corp  
 Toro Mfg Co

## Transits (See Instruments, Surveying)

Bostrom-Brady Mfg Co  
Goldblatt Tool Co  
Keuffel & Esser Co  
Starrett L S Co  
Warren-Knight Co  
White David Instrument Co

## Trenchers & Ditchers

American Hoist & Derrick Co  
Arps Corp  
Barber Greene Co  
Charles Machine Works  
Cleveland Trencher Co  
Danuser Machine Co  
Earth Equip Corp  
Ford Motor Co Tractor & Implement Div  
Gar Wood Industries Inc  
John Deere Industrial Div  
Kent Air Tool Co  
Koehring Co  
Massey-Ferguson Industrial Div  
Ottawa Steel Div Yng Sprng & Wire Corp  
Servis Equipment Co  
Shawnee Mfg Co Dept of Parsons Co  
Sherman Prods Inc  
Vermeer Mfg 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 Machinery Div  
Automatic Transportation Co  
Barrett Cravens Co  
Clark Equipment Co Indus Truck Div  
General Engines Co Inc  
Hyster Co  
John Deere Industrial Div  
Koehring Co  
Lewis-Shepard Products Inc  
Massey-Ferguson Industrial Div  
Mixermobile Manufacturers  
Oliver Corp  
Ottawa Steel Div Yng Sprng & Wire Corp  
Sherman Prods Inc  
Silent Hoist & Crane Co  
Uhrden Inc  
Yale & Towne Mfg Co Yale Materials

## Trucks, Hand & Platform

Colson Corp

## Trucks, Motor

Chevrolet Motor Div Gen Motors  
Diamond T Motor Truck Co  
Dodge Div  
Ford Motor Co  
Koehring Co  
LeTourneau-Westinghouse Co  
Mack Trucks Inc  
Marmon-Herrington Co Inc  
Prime Mover Co  
Reo Div White Motor Co  
Stahl Metal Prods  
Studebaker-Packard Corp  
Volkswagen of America Inc  
White Motor Co  
Willys Motors Inc

## Trusses, Roof, Steel

Belaon Mfg Co  
Bethlehem Steel Co  
Ceco Steel Prods Corp  
Cuckler Steel Span Co  
Haven-Busch Co  
International Steel Co  
Macomber Inc  
Mesker George L Steel Corp  
Republic Steel Corp Truscon Div  
Sheffield Div Armco Steel Corp

## Trusses, Roof, Wood

American Roof Truss  
H-Brace Inc  
Independent Lumber Co  
McKeown Bros Co  
Prefabricated Prods Co Inc  
Rileo Laminated Prods Inc  
Rosboro Lumber Co  
Sanford Gri-P-Late Co  
Super-Structures Inc  
Timber Fabricators Inc  
Timber Structures Inc  
Tim-Plate 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  
Crane Co  
Cutler Metal Prods Co  
Kohler Co  
Mustee E L & Sons Inc

### duratub

Appliance-Styled Fiber-Glas  
Laundry Tubs

E. L. Mustee & Sons, Inc.  
6911 Lorain Ave.  
Cleveland 2, Ohio

Reed Cromex Corp  
Reeves Steel & Mfg Co Div  
Richmond Plumbing Fixtures  
Viking Mfg Corp  
Voss Washer Co

## Tubs, Mixing

Chicago Pottery Co  
Cleveland Wash Tray Mfg Co  
Fortex Industries Inc

## Underlayment Flooring (See Flooring, Underlayment)

## Vanities, Lavatory



Atkins Wood Products Corp  
Borg-Warner Corp Ingersoll Humphries  
Boro Woods Prods Co Inc

Caradco Inc  
Case Mfg Corp  
Chicago Pottery Co  
Colonial Products Co  
Crane Co  
Eljer Div Murray Corp of America  
Farley & Loetscher Mfg Co  
Glissade Inc  
Great Northern Mfg Corp  
Gregg & Son Inc  
I-XL Furniture Co  
Morgan-Wightman Co  
National Vanity Co  
Norris Thermador Corp  
Precisionware Inc  
Reed Cromex Corp  
Regal Laminates Inc  
Sani-Top Inc  
Scheirich H J Co  
Schenk William & Co  
Standard Steel Cabinet Co  
Toledo Desk & Fixture Co  
Topcraft Inc  
United Metal Cabinet Corp  
Wels Henry Mfg Co

## Vapor Barriers (See also Paper, Building Sheathing)

Abesto Mfg Co  
Air-O-Cel  
Allied Chemical Corp Barrett Div  
American Sisalkraft Corp  
Arvey Corp  
Bird & Son Inc  
Carey Philip Mfg Co  
Delta Co  
Dow Chemical Co  
DuPont de Nemours & Co Inc E I  
Gering Plastics Div

Designed to meet FMA requirements

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**BARRIER FILM**  
under slabs • in sidewalls • rashing  
• closing in • more!  
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Corporation, Keokuk, Mo. J.

Goldblatt Tool Co  
Hoosier Tarpaulin & Canvas Goods Co  
Infra Insulation Inc  
Johns-Manville Corp  
Kimberly-Clark Corp  
Koppers Co Inc Durethene Plant  
Kordite Corp  
Ludlow Papers Inc  
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 L Sons Inc  
Thilmany Pulp & Paper Co  
Tiger Brands Div Basic Inc  
Viking 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 Control Products Inc  
Air Devices Inc  
Airlolite Co  
Aluminum Co of America  
American Coolair Corp  
American Standard American Blower Div  
Atkinson Mfg Co  
Aubrey Hardware Mfg Inc  
Berna Air King Corp  
Burnham Corp Warm Air & Cooling Div  
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  
Consolidated General Prod Inc  
Curtis Companies Inc  
Damp-Vent Co  
Dayton Electric Mfg Co  
Diehl Mfg Co  
Donley Brothers Co  
Emerson Electric Mfg Co  
Emerson-Pryne Co  
Farley & Loetscher Mfg Co  
Fasco Industries Inc  
Gregg & Son Inc  
Hamlin Prods Inc  
Harris Inc  
Home Comfort Co  
Hudson H D Mfg Co  
Ideal Vent Div Craig-Nevens  
ILG Electric Ventilating Co  
Inland Steel Products Co  
Jackson Mfg Co  
Klauser Mfg Co  
Leigh Bldg Prods Div Air Con Prods Inc  
Leslie Welding Co Inc  
Louden Machinery Co  
Louv-R-Pak Inc  
Macklanburg-Duncan Co  
Marvin Mfg Co  
Metalvent Corp  
Midget Louver Co  
National Gypsum Co  
Olson Mfg Co  
Parker S Hdwe Mfg Corp  
Peerless Elec Div H K Porter Co Inc  
Pennsylvania Wire Glass Co  
Perfect Line Mfg  
Reynolds Aluminum Supply Co  
Rudeen N H Co Inc  
Saint Paul Corrugating Co  
Sameco Wm J Iron Co  
Starline Inc  
Stewart Industries Inc  
Stewart S J Electric  
Swartwout Co  
Trane Co  
United States Gypsum Co  
Ventrola Mfg Co  
Vestal Mfg Co  
Wasco Products Inc  
Weather-Bloc Co Inc  
Webb Mfg Co Inc  
Westinghouse Electric Corp  
Wilke Metal Products Inc  
Yeck Mfg Co

**Vibrators, Concrete**  
(See Concrete Vibrators)

**Vinyl Tile**  
(See Tile, Vinyl)

**Wall Coverings, Metal**

Clad-Rex Div Smoniz Co

**Wall Coverings, Fabric**

Birge Co Inc  
Columbus Coated Fabrics Corp  
Curtiss Wright Corp Curon Div  
Deero-Wall Corp  
Fabrikona Inc  
Goodrich B F Industrial Products Co  
Imperial Color Chemical & Paper Corp  
Marsh Wall Products Inc  
New Castle Products Inc  
Standard Coated Prods Inc  
Suncraft Inc  
United States Plywood Corp  
Werner Canvas Prods Co

**Wall Coverings, Plastic**

Cermak Tile Co Inc  
Fabrikona Inc  
Polyplastex United Inc

**Wall Plates, Decorator**

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  
Flintkote Co  
Johns-Manville Corp  
Kearsby & Mattison Co  
Kochon Plywood & Veneer Co Inc  
Lehon Co  
Pioneer Div Flintkote Co  
Ruberoid Co  
United States Plywood Corp

**Wallboard, Gypsum**

Allied Chemical Corp Barrett Div  
Beadex Sales Inc  
Bestwall Gypsum Co  
Celotex Corp  
Chicago Fire Brick Co  
Fiberboard Paper Prods Inc  
Flintkote 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)

Allied Chemical Corp Barrett Div  
Armstrong Cork Co  
Celotex Corp  
Dant & Russell Inc  
Flintkote Co  
Forest Fiber Products Co  
Homason Co  
Insulite Div Minn & Ontario Paper Co  
Johns-Manville Corp  
Kaiser Gypsum Co Inc  
Lehman Co  
Pioneer Div Flintkote Co  
Plastergon Wall Board Co  
Reynolds Aluminum Supply Co  
Simpson Logging Co  
United States Gypsum Co  
Upan Co  
Wood Conventon Co

**Wallpaper**

Birge Co Inc  
Buffalo Wallcraft Co Inc  
Cook Paint & Varnish Co  
Devoo & Reynolds Co Inc  
Imperial Color Chemical & Paper Corp  
Peaslee-Gaubert Paint Varnish  
Pittsburgh Plate Glass Co  
Prager Co Inc  
Sherle-Wagner  
Stamford Wallpaper Co Inc  
United Wallpaper Co  
Wadsworth Howland & Co  
York Wall Paper Co

**Washers & Dryers, Clothes**

Blackstone Corp  
Dexter  
Easy Laundry Appliances Div  
Frigidaire Div General Motors Corp  
Gen Elec Co Appliance & Television Div  
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  
Voss Washer Co  
Westinghouse Elec Appliance Div  
Westinghouse Electric Corp  
Whirlpool Corp

**Water Closets**  
(See Plumbing Fixtures)

**Water Heaters, Electric**

American Radiator & Standard Sanitary  
American-Standard Plumbing  
Cleveland Heater Co  
Crane Co  
Cutler Hammer Inc  
Day & Night Mfg Co  
Eagle Electric Mfg Co  
Frigidaire Div General Motors Corp  
Gaffers & Sattler  
Gen Elec Co Appliance & Television Div  
Hedges M M Mfg Co Inc  
Hotpoint Div  
Hotstream Heater Co  
Kelvinator Div American Motors Co  
Koven L O & Bro Inc  
Lindemann A J & Hoverson Co  
Little H C Burner Co  
McGraw-Edison Co  
Monarch Range Co  
Morgan-Wightman Co  
National-US Radiator Corp  
Norge Div Borg Warner Corp  
Rheem 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  
Westix Electric Heater Co  
Westinghouse Elec 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  
Div  
Bryant Mfg Co  
Cleveland Heater Co  
Coleman Co Inc  
Crane Co  
Day & Night Mfg Co

Dearborn Stove Co  
 Delco Appliance Div General Motors  
 Federal Boiler Co Inc  
 Gaffers & Sattler  
 Handley-Brown Co  
 Hedges M M Mfg Co Inc  
 Holly-General Co Div Siegler Corp  
 Holstream Heater Co  
 Insta-Matic Heater Co  
 Koven L O & Bro Inc  
 Little H C Burner Co  
 McGraw-Edison Co  
 Monarch Range Co  
 Morgan-Wightman Co  
 Mustee E L & Sons Inc  
 National-US Radiator Corp  
 Norge Div Borg Warner Corp  
 Rheem Mfg Co  
 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  
 Crane Co  
 Delco Appliance Div General Motors  
 Federal Boiler Co Inc  
 Hotstream Heater Co  
 Iron Fireman Mfg Co  
 Koven L O & Bro Inc  
 Kresky Mfg Co Inc  
 Kresno-Stamm Mfg Co  
 Rheem Mfg Co  
 Toridheet Div Cleveland Steel Prods Corp  
 Waterfilm Boilers  
 Wayne Home Equipment Co Inc  
 Wood John Co Heater & Tank Div

### Water Softeners & Conditioners

Clayton Mark & Co  
 Crane Co  
 Culligan Inc  
 Elgin Softener Corp  
 Modern Swimming Pool Co Inc  
 Myers F E & Bros Co  
 Pennsalt Chemicals Corp  
 Permutit Co Div Pfaudler Permutit Inc  
 Red Jacket Mfg Co  
 Rheem Mfg Co  
 Scharf J H Mfg Co  
 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 Composit. Co Inc  
 American Bitumuls & Asphalt Co  
 American Sta-Dri Co  
 Anti Hydro Waterproofing Co  
 Areo Co  
 Borden Chemical Co Div Borden Co  
 Cabot Samuel Inc

Camp Co Inc  
 Carey Phillip Mfg Co  
 Ceresit Waterproofing Corp  
 Colorcrete Industries Inc  
 Concrete Weld Co  
 Coal Roof Ing  
 Dad & Lad Co  
 Dasco Co Inc  
 Devoe & Reynolds Co Inc  
 Douglas & Sturgess  
 Emco Cement Products Inc  
 Evercrete Corp  
 Flintkote Co  
 Henry W W Co  
 Horn A C Companies Div Sun Chem Corp  
 Johns-Manville Corp  
 Kaiser Mfg Inc  
 Kay-Tite Co  
 Koppers Co Inc Durethene Plant  
 Kordite Corp  
 Lastik Paint Inc  
 Logan-Long Co  
 Lumino Co  
 Marietta Paint & Color Co  
 Marsh Wall Products Inc  
 Masonry Waterproofing Co Inc  
 Master Builders Co  
 Meadows W R Inc  
 Medusa Portland Cement Co  
 Minwax Co Inc  
 Monroe Co Inc  
 National Gypsum Co  
 National Mfg Corp  
 Nova Sales Co  
 Pecora Inc  
 Penn Crete Prods Co  
 Permagite Corp of America  
 Phelan-Faust Paint Mfg Co  
 Pioneer Div Flintkote Co  
 Pittsburgh Plate Glass Co  
 Plextone Corp of America  
 Pressite Div American-Marietta Co  
 Price Fire & Water Proofing Co  
 Protection Products Mfg Co  
 Quartz Mosaic Inc  
 Ranette Mfg Co  
 Reardon Co  
 Re-Nu-It Corp  
 Seddon Co  
 Sika Chemical Corp  
 Sillicones Div Union Carbide  
 Smooth-On Mfg Co  
 Sonneborn L Sons Inc  
 Standard Dry Wall Products Inc  
 Steelcote Mfg Co  
 Sullivan Co The  
 Super Concrete Emulsions  
 Tamms Industries Co  
 Thompson E A Co Inc  
 Toch Bros  
 Truscon Labs Inc  
 Tuferefe Co Inc  
 U S Protective Coatings Inc  
 Upson Co  
 Wasco Products Inc  
 Wateo-Dennis Corp  
 Water-Boss  
 Wooster Sealkote Co  
 X-Pando Corp

### Weatherstripping

Air-Tite Products Inc  
 All-Metal Weatherstrip Co  
 Asphalt Corp of America  
 Baltz Robert N & Co Inc  
 Barland Weatherstrip Material Co  
 Caldwell Mfg 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  
 Johns-Manville Corp  
 Kessler Products Co

Lock-Joint Window Co  
 Macklanburg-Duncan Co  
 Master Metal Strip Service Inc  
 Miami Metal Weatherstrip Co  
 Monarch Metal Weatherstrip Co  
 Mortell J W Co  
 National Metal Prods  
 Penko 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  
 Unique Balance  
 United Industries Inc  
 United States Rubber Co  
 Weatherproof Products Corp  
 Western Pine Mfg Co  
 Zegers Inc

### Window Hardware (See Hardware, Window)

### Window Screens (See Windows & Doors, Combination)

### Window Sills

Fiberesin Plastics Co  
 Hartglass Corp

### Window Surrounds, Metal

Ceco Steel Prods Corp  
 Copeco Steel & Engineering Co  
 Croft Metal Products Inc  
 Fenestra Inc  
 Hopes Windows Inc  
 Kawneer Co  
 Kewanee Mfg Co  
 Knapp Brothers Mfg Co  
 Mesker Bros Iron Co  
 One-Der Frame Corp  
 Royal Jalousie Co  
 Russel F C Co  
 Soule Steel Co

### Windows, Awning Type, Metal

Adams Engineering Co  
 Air Vue Products Corp  
 Alcoa Inc  
 Anderson V E Mfg Co Inc  
 Arnold Altex Aluminum Co  
 Ateo Aluminum Products  
 Berg F O Co  
 Bourne Products  
 Brown & Grist Inc  
 Capitol Prods Corp  
 Ceco Steel Prods Corp  
 Continental Aluminum Products Co  
 Croft Metal Products Inc  
 Crossly Window Corp  
 Fenestra Inc  
 Fentron Industries Inc  
 Gate City Sash & Door Co  
 General Bronze Corp  
 General Window Co  
 Lenahan Aluminum Window Corp  
 Leonard R B Ing  
 Ludman Corp  
 Maco Corp  
 Marmet Corp  
 Mesker Bros Iron Co  
 Metal Trims Inc  
 Miami Window Corp  
 Michel & Pfeffer Iron Works Inc  
 National Aluminum Co

National Window Corp  
 One-Der Frame Corp  
 Republic Steel Corp Truscon Div  
 Reynolds Aluminum Supply Co  
 Reynolds Metals Co  
 Royal Jalousie Co  
 Rusco Windows Inc of Florida  
 Russel F C Co  
 Southern Sash Sales & Supply Co  
 Superior Window Co  
 Union Machine Co  
 Universal Fabricators  
 Universal Window Co  
 Valley Metal Prods Co  
 Vento Steel Products Co Inc  
 Ware Laboratories Inc  
 Windowmaster Corp

### Windows, Awning Type, Wood

Andersen Corp  
 Anderson V E Mfg Co Inc  
 Angel Co  
 Biltbest Corp  
 Caradco Inc  
 Cole Mfg Co  
 Crestline Co  
 Curtis Companies Inc  
 Etling Window  
 Fabrow Mfg Inc  
 Farley & Loetscher Mfg Co  
 Gate City Sash & Door Co  
 Goshen Sash & Door Co  
 Gregg & Son Inc  
 International Paper Co Long-Bell Div  
 Ludman Corp  
 Malta Mfg Co  
 Modenaire Corp  
 Morgan Company  
 Ohio Plate Glass Co  
 Paxton Frank Lumber Co  
 R O W Sales Co

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 Department ABQ 460

Reuten Fred Inc  
 Rock Island Millwork Co Factory Div

**RIMCO "VENT"**  
 WOOD WINDOW UNITS

See our insert in this issue or write . . .

ROCK ISLAND MILLWORK COMPANY  
 FACTORY DIVISION Rock Island, Illinois

Rockwell of Randolph Inc  
 Rolscreen Co  
 Southern Sash Sales & Supply Co  
 Wabash Screen Door Co  
 Wadsworth Millwork Corp  
 Western Pine Mfg Co  
 Woodco Corp

### Windows, Basement & Utility, Aluminum

Alumatic Corp of America  
 Anderson V E Mfg Co Inc

Cleveland Steel Specialty Co  
 Copco Steel & Engineering Co  
 Croft Metal Products Inc  
 Crossly Window Corp  
 Fenestra Inc  
 Fenron Industries Inc  
 Fleet of America Inc  
 Harris Inc  
 Inland Steel Products Co  
 Kewanee Mfg Co  
 Krueger Mfg Co  
 Ludman Corp  
 Marmet Corp  
 Mueller Brass Co  
 National Aluminum Co  
 Reynolds Aluminum Supply Co  
 Reynolds Metals Co  
 Rusco Windows Inc of Florida  
 Russel F C Co  
 Schumacher F E Co  
 Southern Sash Sales & Supply Co  
 Valley Metal Prods Co  
 Vento Steel Products Co Inc  
 Windalume Corp

### Windows, Basement & Utility, Steel

Adams Co  
 Ceco Steel Prods Corp  
 Colorado Metal Prod Corp  
 Croft Metal Products Inc  
 Donley Brothers Co  
 Federal Windows Mfg Co Inc  
 Fenestra Inc  
 Harris Inc  
 Hopes Windows Inc  
 Inland Steel Products Co  
 Jeffery Form Tie Co  
 Kewanee Mfg Co  
 Louden Machinery Co  
 Mesker Bros Iron Co  
 New Monarch Machine & Stamping  
 Republic Steel Corp Truscon Div  
 Russel F C Co  
 United States Gypsum Co  
 Vento Steel Products Co Inc

### Windows, Basement & Utility, Wood

Andersen Corp  
 Angel Co  
 Caradco Inc  
 Cole Mfg Co  
 Crestline Co  
 Curtis Companies Inc  
 Etling Window  
 Fabrow Mfg Inc  
 Farley & Loetscher Mfg Co  
 Goshen Sash & Door Co  
 Gregg & Son Inc  
 International Paper Co Long-Bell Div  
 Ludman Corp  
 Morgan Company  
 Morgan-Wightman Co  
 Pacific Mutual Door Co  
 Rock Island Millwork Co Factory Div

**RIMCO "BASEMENT"**  
 WOOD WINDOW UNITS

See our insert in this issue or write . . .

ROCK ISLAND MILLWORK COMPANY  
 FACTORY DIVISION Rock Island, Illinois

Rockwell of Randolph Inc  
 Schumacher F E Co  
 Wabash Screen Door Co  
 Western Pine Mfg Co  
 White Pine Sash Co

### Windows, Bow, Wood

Fabrow Mfg Inc

### Windows, Casement, Aluminum

Air Vue Products Corp  
 Bourne Products  
 Ceco Steel Prods Corp  
 Croft Metal Products Inc  
 Fuller W P & Co  
 Kawneer Co  
 Krueger Mfg Co  
 Maco Corp  
 Marmet Corp  
 Mesker Bros Iron Co  
 Michel & Pfeffer Iron Works Inc  
 Republic Steel Corp Truscon Div  
 Reynolds Aluminum Supply Co  
 Reynolds Metals Co  
 Soule Steel Co  
 Southern Sash Sales & Supply Co  
 Trimview Metal Products  
 Universal Fabricators  
 Universal Window Co  
 Valley Metal Prods Co  
 Ware Laboratories Inc  
 Wilke Metal Products Inc

### Windows, Casement, Steel

Ceco Steel Prods Corp  
 Croft Metal Products Inc  
 Mesker Bros Iron Co  
 Michel & Pfeffer Iron Works Inc  
 Republic Steel Corp Truscon Div

### Windows, Casement, Wood

Caradco Inc  
 Crestline Co  
 Curtis Companies Inc  
 Etling Window  
 Fabrow Mfg Inc  
 Farley & Loetscher Mfg Co  
 Ideal Co Mfg Div Wm Cameron & Co  
 International Paper Co Long-Bell Div  
 Pullum Window Corp  
 R O W Sales Co  
 Rock Island Millwork Co Factory Div

**RIMCO "CASEMENT"**  
 WOOD WINDOW UNITS

See our insert in this issue or write . . .

ROCK ISLAND MILLWORK COMPANY  
 FACTORY DIVISION Rock Island, Illinois

Rolscreen Co  
 Southern Sash Sales & Supply Co  
 Wabash Screen Door Co  
 Western Pine Mfg Co

### Windows & Doors, Combination Screen & Storm Sash, Aluminum



**Quincy CLEAN FACE**  
**CIRCLE TOP**  
 DOORS & WINDOWS  
**HESS MFG. CO.**  
 QUINCY 9, PA.

Adams Co  
 Alasco Inc  
 Alumatic Corp of America  
 Aluminum Industries  
 Anderson V E Mfg Co Inc  
 Bee Gee Window Co  
 Bourne Products  
 Burrowes Corp  
 Capitol Products Corp  
 Chamberlin Co of America  
 Copco Steel & Engineering Co



Croft Metal Products Inc  
Devac Inc  
Eagle-Picher Co  
Etling Window  
Fenestra Inc  
General Bronze Corp  
Hess Mfg Co  
Humphrey Products Inc  
Ida Products Co  
Jasco Aluminum Products  
Kane Mfg Corp  
Keystone Alloys Co  
Krueger Mfg Co  
Loxgreen Co Inc  
Metal Trims Inc  
Milco Specialties Inc  
Moloney Co  
Morgan-Wightman Co



National Aluminum Co  
National Window Corp  
North East Metal Products Corp  
Paramount Aluminum Prod Corp  
Paxton Frank Lumber Co  
Philadelphia Screen Mfg Co  
Regal Products Corp  
Republic Steel Corp Truscon Div  
Reynolds Aluminum Supply Co  
Rudiger-Lang Co  
Russel F C Co  
Sager Weatherstrip & Caulking  
Schumacher F E Co  
Screens & Fabric Metals Corp  
Security Aluminum Co

## SECURITY

### RFT\* ALUMINUM PRODUCTS

- COMBINATION STORM DOORS AND WINDOWS. Regular and White Baked Enamel.
- LAP SIDING — V-GROOVE PANELS "Stuck-On" and "Push-Up" siding. In white and colors.
- ALUMAROLL AWNINGS. Ready to install. K.D. and Lincol. Roll-Up and Stationary also Patio Covers

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State Metal Awnings Inc  
Storm King Corp  
Textron Metals Co  
Union Machine Co  
Visador Co  
W M Products Co  
Wabash Screen Door 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  
Leonard R B Inc  
Royal Jalouse Co  
Russel F C Co  
Vestal Mfg Co

## Windows & Doors, Combination Screen & Storm Sash, Wood

Andersen Corp  
Angel Co  
Bee Gee Window Co  
Caradco Inc  
Crestline Co  
Curtis Companies Inc  
Farley & Loetscher Mfg Co  
Goshen Sash & Door Co  
International Paper Co Long-Bell Div  
Morgan Company  
Phenix Mfg Co  
Rock Island Millwork Co Factory Div

## RIMCO "ALUMA-WOOD" COMBINATION DOORS & UNITS

The many advantages of WOOD,  
plus self-storing convenience.  
ROCK ISLAND MILLWORK COMPANY  
FACTORY DIVISION Rock Island, Illinois

Rockwell of Randolph Inc  
Schumacher F E Co  
Spokane Sash & Door Co  
Wabash Screen Door Co  
Woodco Corp

## Windows, Double Hung, Aluminum

Air Vue Products Corp  
Albritton Engineering Corp  
Alco Inc

## ALSCO ALUMINUM PRIME WINDOWS

Single Hung • Double Hung  
Slider • Awning  
Sliding Glass Doors, too.

For complete information on any or  
all AlSCO PRIME PRODUCTS . . . write  
AlSCO, Inc., Box AS-87, Akron 8, Ohio

Ceco Steel Prods Corp  
Cole Mfg Co  
Croft Metal Products Inc  
Fleet of America Inc  
General Bronze Corp  
Humphrey Products Inc  
Kawneer Co  
Krueger Mfg Co  
Pomeroy S H Co Inc  
Remington Alum Window Corp  
Reynolds Aluminum Supply Co  
Reynolds Metals Co  
Rusco Windows Inc of Florida  
Russel F C Co  
Southern Sash Sales & Supply Co  
Trim Slide Inc  
Windalume Corp

## Windows, Double Hung, Steel

Leonard R B Inc  
Pomeroy S H Co Inc  
Russel F C Co

## Windows, Double Hung, Wood

A R B Window Sales Co

The finest in metals for removable wood windows.

**ARB WINDOW SALES COMPANY**  
19435 JOHN R STREET  
DETROIT 3, MICHIGAN

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  
Malta Mfg Co  
Missoula White Pine Sash Co  
Morgan-Wightman Co



Pullum Window Corp  
R O W Sales Co  
Rock Island Millwork Co Factory Div

RIMCO "SIX-TEN" WOOD WINDOW UNITS

See our insert in this issue or write . . .

ROCK ISLAND MILLWORK COMPANY  
FACTORY DIVISION Rock Island, Illinois

Western Pine Mfg Co

## Windows, Hopper Vent, Metal

Kawneer Co  
Kewaneer Mfg Co  
Marmet Corp  
Mesker Bros Iron Co  
Metal Trims Inc  
Michel & Pfeffer Iron Works Inc  
National Window Corp  
Wilke Metal Products Inc  
Windalume Corp

## Windows, Hopper Vent, Wood

Caradco Inc  
Curtis Companies Inc  
Dierks Forests Inc  
Fabrow Mfg Inc  
Farley & Loetscher Mfg Co  
International Paper Co Long-Bell Div  
Malta Mfg Co  
Rock Island Millwork Co Factory Div

## Windows, Horizontal Gliding, Metal (See also Doors, Sliding Glass)

Albritton Engineering Corp  
Alco Inc  
Alumatic Corp of America  
Arcadia Metal Products  
Capitol Products Corp  
Copeo Steel & Engineering Co  
Croft Metal Products Inc  
Cresaly Window Corp

Fleet of America Inc  
 General Bronze Corp  
 Hollyview Aluminum Rolling Glass  
 Humphrey Products Inc  
 Kewanee Mfg Co  
 Kreuger Mfg Co  
 Leonard H B Inc  
 Mesker Bros Iron Co  
 Metal Trims Inc  
 Michel & Pfeffer Iron Works Inc  
 National Window Corp  
 Reynolds Aluminum Supply Co  
 Rusco Windows Inc of Florida  
 Southern Sash Sales & Supply Co  
 Steelbilt Inc  
 Storm King Corp  
 Sun Valley Industries Inc  
 Trim Slide Inc  
 Trimview Metal Products  
 Whizzer Industries Inc

**Windows, Horizontal Gliding, Wood**  
 (See also Doors, Sliding Glass)

A R B Window Sales Co  
 Curtis Companies Inc  
 Etling Window  
 Farley & Loetacher Mfg Co  
 Horizon Door Co  
 International Paper Co Long-Bell Div  
 Malta Mfg Co  
 Miller Sliding Glass Door Co Inc  
 Pullum Window Corp  
 R O W Sales Co  
 Rock Island Millwork Co Factory Div



**Windows, Jalousie**

Adams Engineering Co  
 Air Vue Products Corp  
 Alumatic Corp of America  
 Bourne Products  
 Chamberlin Co of America  
 Continental Aluminum Products Co  
 Croft Metal Products Inc  
 Fleet of America Inc  
 Kelco Div Wells Aluminum Corp  
 Leonard R B Inc  
 North East Metal Products Corp  
 Regal Products Corp  
 Regulux Sash & Door Co  
 Reynolds Aluminum Supply Co  
 Royal Jalousie Co  
 Rusco Windows Inc of Florida  
 Southern Sash Sales & Supply Co  
 Sun Valley Industries Inc  
 Universal Fabricators  
 Wells Aluminum Corp

**Windows, Metal, Louver-Based**

Atco Aluminum Products  
 Philadelphia Screen Mfg Co  
 Reynolds Aluminum Supply Co

**Windows, Plastic**

American Siskraft Corp  
 Arvey Corp  
 Chemold Co  
 Heinley Mastercraft Products  
 Koppers Co Inc Durethane Plant  
 Plyco Corp

**Windows, Projected, Aluminum**

Bliss Steel Prods Corp  
 Federal Windows Mfg Co Inc  
 Fenestra Inc  
 Metal Trims Inc  
 National Window Corp

**ALUMINUM WINDOWS • DOORS**  
 For Every Type of Construction—Paragon Projected Windows, Penguin, Sapphire Rolling Windows, Panel & Curtain Wall Construction, Daisy Sliding Patio-Type Doors.  
**PETERSON WINDOW CORPORATION**  
 722 Liverpool • Farmdale 28, Michigan

Peterson Window Corp  
 Southern Sash Sales & Supply Co  
 Vento Steel Products Co Inc

**Windows, Security, Steel**

Bliss Steel Prods Corp  
 Mesker Bros Iron Co  
 Michel & Pfeffer Iron Works Inc

**Windows, Single Hung, Aluminum & Steel**

Air Vue Products Corp  
 Albritton Engineering Corp  
 Ceco Steel Prods Corp  
 Croft Metal Products Inc  
 Crossly Window Corp  
 General Bronze Corp  
 Kawneer Co  
 Leonard R B Inc  
 Metal Trims Inc  
 National Window Corp  
 Reynolds Aluminum Supply Co  
 Reynolds Metals Co  
 Russel F C Co  
 Southern Sash Sales & Supply Co  
 Windalume Corp

**Windows, Single Hung, Wood**

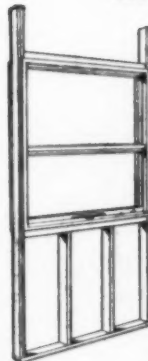
Air Vue Products Corp

**Windows, Storm (See Windows & Doors, Combination)**

**Windows, Structural, Wood**

Andersen Corp

**NEW Andersen Strutwall**



Cuts window installation steps 2/3rds. Provides strongest, most trouble-free fit

New component comes with structural wall members and Andersen Beauty-Line or Flexivent Window factory-assembled. To install, you simply cut two load-bearing side struts to fit under header. Nail in place for the strongest, most trouble-free joining of window and wall. For complete facts, write:

Andersen Corporation, Bayport, Minn.

Crestline Co  
 Fabrow Mfg Inc  
 Reuten Fred Inc

**Windows, Wood, Louver-Based**

Wadsworth Millwork Corp

**Wire**

Bethlehem Steel Co  
 Chase Brass & Copper Inc  
 Continental Steel Corp  
 General Cable Corp  
 Jones & Laughlin Steel Corp  
 Natl Elec Div H K Porter Co Inc  
 Northwestern Steel & Wire Co  
 Phelps Dodge Copper Prods Corp  
 Sheffield Div Aranco Steel Corp  
 Touch Plate Mfg Corp  
 Triangle Conduit & Cable Co Inc

**Wiring, Concealed Telephone**

American Telephone & Telegraph Co

**Wiring Devices, Electrical**

Bryant Electrical Co  
 Cable Electric Products Inc  
 Circle F Mfg Co  
 Electra Protection Co Inc  
 General Electric Co Wiring Device Dept  
 Jerrold Electronics Corp  
 Keystone Mfg Co  
 Leviton Mfg Co Inc  
 Mosley Electronics Inc  
 Murray Mfg Corp  
 Pass & Seymour Inc  
 Wakefield Co  
 Westinghouse Electric Corp

**Wiring, Electrical, Multi Outlet**

Bryant Electrical Co  
 Cable Electric Products Inc  
 Circle Wire & Cable Corp Sub  
 Cleveland Steel Specialty Co  
 General Electric Co Wiring Device Dept  
 Merwin Mfg Co  
 Murray Mfg Corp  
 Wakefield Co  
 Wiremold Co

**Wiring Systems, Remote Control**

Arrow Hart & Hegeman Elec Co  
 Bryant Electrical Co  
 General Electric Co Wiring Device Dept  
 Jerrold Electronics Corp  
 Murray Mfg Corp  
 Remcon Div Pyramid Instrument Corp  
 Superior Electric Co  
 Touch Plate Mfg Corp  
 Wakefield Co

**Wood (See Lumber)**

**Wood Paneling (See Panelwork, Wood)**

**Wood Sealers**

Cabot Samuel Inc  
 Dasco Co Inc  
 Johnson's Wax  
 Lucas John & Co Inc  
 Marietta Paint & Color Co  
 Minnesota Paints Inc  
 Minwax Co Inc  
 Monroe Co Inc  
 United States Plywood Corp

**Woodworking Machines (See Planers, Routers, Etc.)**

# BRAND NAMES DIRECTORY

Every well-known brand-named product is listed in this Directory, together with its manufacturer. Section 2 will give you complete addresses of manufacturers. Brands start here, continue for 21 pages.

4

AAA-WIN Arnold Altex Aluminum Co  
 A B C Adams Engineering Co  
 A B ARISTOCRAT Weibilt Stove Co  
 ABATEX Trucon Labs Inc  
 ABBEON Abbeon Supply Co  
 ABESTO CHEMICAL TERMITES CONTROL Abesto Manufacturing Co  
 ABESTO FIBERATED Abesto Mfg Co  
 ABESTO LIQUID Abesto Mfg Co  
 ABESTO LUMICLAD Abesto Mfg Co  
 ABESTO PLASTER BOND Abesto Mfg  
 ABESTO QUICK SET PLASTIC Abesto Manufacturing Co  
 ABESTO SEALER Abesto Mfg Co  
 ABESTO SEMI-PLASTIC Abesto Mfg Co  
 ACCOLON Armstrong Cork Co  
 ACCORDOFOLD American Accordion-Fold Doors Inc  
 ACCRO-LITE Mayes Bros Tool Mfg Co  
 A-C-E Arro Expansion Bolt Co  
 ACE Eagle Rule Mfg Corp  
 ACME Acme Appliance Mfg Co  
 ACME Acme Natl Refrigeration Co Inc  
 ACOUSTI-CELOTEX Celotex Corp  
 ACOUSTICAL FIREGUARD Armstrong Cork Company  
 ACOUSTICAL-PENCO McGuffie Co  
 ACOUSTILITE Insulite Div  
 ACOUSTOLIGHT Barreled Sunlight Paint  
 A-COUST-PUMP ELECTRIC Karelius Albert & Sons Inc  
 ACOUSTONE United States Gypsum Co  
 ACRILUX United States Plywood Corp  
 ACRISATIN American Sta-Dri Co  
 ACRISATIN Seidlitz Paint & Varnish Co  
 ACRYLITE Wasco Products Inc  
 ACTANE Hedges M M Mfg Co Inc  
 ACT-EASY Speakman Co  
 ACTINIC Pennsylvania Wire Glass Co  
 ACTIVE QUALITY WARE Active Tool & Manufacturing Company  
 ACT-O-MATIC Sloan Valve Co  
 ACUSTI-LUMINUS CEILING Luminous Ceilings Incorporated  
 AD-AIRE Carter-Waters Corp  
 ADALOX Behr-Manning Co  
 ADAMANT United States Gypsum Co  
 ADAPTABLE Edwards Co Inc  
 ADAPTAHORN Edwards Co Inc  
 ADJUST-A-BILT FIXTURES Masonite Corporation  
 ADJUSTA COLUMNS Adjusta Post Mfg  
 ADJUSTA-HITE Chain Belt Co  
 ADJUST-A-PITCH LOUVERS Leslie Welding Company Incorporated  
 ADJUSTA POSTS Adjusta Post Mfg Co  
 ADJUSTA-SPRAY Speakman Co  
 ADJUSTA-WATE Chain Belt Co  
 ADJUSTITE Ives H B Co  
 ADJUSTO Milwaukee Faucets Inc  
 ADJUSTO (Ironing Board) Rieter Wood-work Specialty Company  
 ADMIRAL Fiat Metal Mfg Co  
 ADMIRAL Great Northern Mfg Corp  
 ADMIRAL General Bathroom Prods Corp  
 ADVANCE Beaver Advance Corp

ADVENTURER Mansfield Sanitary Inc  
 AERO National-US Radiator Corp  
 AEROCOR Owens-Corning Fiberglas Corp  
 AEROFAN Emerson-Pryne Co  
 AERO-FLEX Auer Register Co  
 AEROLITH Sonneborn L Sons Inc  
 AEROLUX Aeroshade Co  
 AEROLUX Consolidated Gen Prod Inc  
 AEROLUX Johnson S T Co  
 AEROWRAP Owens-Corning Fiberglas  
 AETNA Samson Cordage Works  
 A F C Labrie Mfg Co Inc  
 AFCO American Furnace Co  
 AGATINE Goodrich B F Co  
 AGITAIR Air Devices Inc  
 AGRASEAL Tammis Industries Co  
 AIR ACE Dotmar Industries Inc  
 AIR FOIL Titus Mfg Corp  
 AIR PLUS Jaeger Machine Co  
 AIRACOUSTIC Johns-Manville Corp  
 AIRCON McQuay Inc  
 AIR-CRETE Sullivan Co  
 AIRDITIONER Modine Mfg Co  
 AIRDOME Wasco Products Inc  
 AIRDOME (Roof Louver) Rudeen N H Company Inc  
 AIREFRIGERATION COOLING Williamson Company  
 AIRJECTOR Swartwout Co  
 AIR-JET General Products Co  
 AIRLINE Ingersoll Prod Div  
 AIR-LITE BRAND Graybeal C R & Sons  
 AIR-LITE FIBERGLAS Plastic Woven  
 AIR-LITE SARAN Plastic Woven Prods  
 AIR-LOC Unique Window Balance Corp  
 AIRLOUVER Swartwout Co  
 AIRLUME Eastern Machine Products Co  
 AIRMOVER Swartwout Co  
 AIROFLEX Auer Register Co  
 AIROLITE Ahrolite Co  
 AIR-O-MATIC Williams Oil-O-Matic Heating Co  
 AIRRAD Penn Boiler & Burner Mfg Co  
 AIRPATH Goodrich B F Co  
 AIR-SPEED Louisville Cement Co  
 AIRSTRIP Mitchel Rubber Prods Inc  
 AIRTRIM Vulcan Radiator Co  
 AIRTROL Allied Compositions Co Inc  
 AIRTROL (Heating) Holly-General Co  
 AIRWEIGHT Barrett Cravens Co  
 AIRWEIGHT Newark Ladder & Bracket  
 AJAX Chicago Spring Hinge Co  
 AJAX (Heating Cable) Ceilheat Inc  
 AKBAR Kinnear Mfg Co  
 AL SEAL Reese Metal Weatherstrip Co  
 ALABASTINE Chicago Bronze & Color Works  
 ALABAX Pass & Seymour Inc  
 ALCAZAR Lindemann A J & Hoversaen  
 ALCOTE Precision Weatherstrip Co  
 ALDRIN Shell Chemical Corp  
 ALENCO Albritton Engineering Corp  
 ALFOL Reflectal Corp Sub Borg Warner  
 ALGEM Modern Swimming Pool Co Inc  
 ALIGNALOCK Sargent & Co  
 ALIN CREST Aluminum Industries

ALIN TILT Aluminum Industries  
 ALINO Bowerston Shale Co  
 ALKATITE Pratt & Lambert Inc  
 ALL AMERICAN Eagle Rule Mfg Corp  
 ALL TUB Gerber Plumbing Fixtures  
 ALL WALL Gerber Plumbing Fixtures  
 ALEGHENY STAINLESS Allegheny Ludlum Steel Company  
 ALLIGATOR GRIP Wagner Mfg Co  
 ALLISTER ALL-O-MATIC Allister Manufacturing Company Incorporated  
 ALLITH Allith-Prouty Inc  
 ALLWEATHER LOUVERS Rudeen N H Company Incorporated  
 ALLWOOD Hines Edward Lumber Co  
 ALLWOOD'S Oregon Lumber Co  
 ALOHA BRAND Smith M R Shingle Co  
 ALOXITE Carborundum Co  
 ALPRIDE ALUMINUM Russo Windows Incorporated of Florida  
 ALSTO Alsto Co  
 ALTICO Alloy Tile Corp  
 ALUM IN-AIR Air Control Products  
 ALUM-A-COAT Protectub Inc  
 ALUMALUN American Abrasive Metals  
 ALUMAPORTE Orehard Bros Inc Alumarroll Products Co  
 ALUMAROLL Orchard Bros Inc Alumarroll Products Co  
 A-LUMI-CAULK Sterling Quality Products Incorporated  
 ALUMI-COUSTIC Cupples Products Corp  
 A-LUMI-GLAZE Sterling Quality Products Incorporated  
 ALUMIKOTE Vita-Var Corp  
 ALUMILADDER Werner R D Co Inc  
 ALUMILASTIC Parr Paint & Color Co  
 ALUMIN-LEIGH Leigh Building Products  
 ALUMINUM-CHAMP Ludlow Papers Inc  
 ALUMINUM SNAP-ON Wisco Inc  
 ALUMISEAL Parr Paint & Color Co  
 ALUM-O-TOP Chase Brass & Copper Inc  
 ALUNDUM Behr-Manning Co  
 ALUNDUM Norton Co  
 AL-WEL-DOOR Superior Industries Inc  
 ALWINTITE General Bronze Corp  
 A-M WOOD PRESERVATIVE Marietta Paint  
 AMAGLASE American Asbestos  
 AMALITE American Asbestos Product Co  
 AMANIZE American Asbestos Product Co  
 AMARLITE American Art Metals Co  
 AMASPRO American Asbestos Prod Co  
 AMBALLOY Byers A M Co  
 AMBASS-A-DOR Ambassa Dor Co  
 AMERFLEX American Flexible Conduit  
 AMER-GLAS American Air Filter Co  
 AMERIBOW American Roof Truss  
 AMERICAN Columbia Geneva Steel  
 AMERICAN Tennessee Coal & Iron Div  
 AMERICAN American Hoist & Derrick  
 AMERICAN BRAND Builders Fireplace & Supply  
 AMERICAN CRANES American Hoist & Derrick Company

AMERICAN DUA-LAPS American  
Stained Shingle Co  
AMERICAN SOLID Curtis Companies Inc  
AMERICAN SUPER 8 Am Floor Machine  
AMERICAN THATCH Ruberoid Co  
AMERICAN TUBULAR Universal Mfg  
AMERICANA TRIPLE-TRACK-TILT  
WINDOWS AlSCO Inc  
AMER-PLY-WOOD Lehman Co  
AMER-PLY-WOOD Southwood Corp  
AMERSFUND Fabrikona Inc  
AMERWOOD Lehman Co  
AMERWOOD Southwood Corp  
AMHERST SANDSTONE Cleveland Quar-  
ries Company  
AMIDON FITTINGS Amidon Engr Co  
AMTICO American Biltrite Rubber Co  
AMURSEAL Anti Hydro Waterproofing  
AMVAD Edwards Co Inc  
AMWELD Amweld Building Products  
ANACONDA American Brass Co  
ANCHOR Allied Chemical Corp  
ANCHOR Lufkin Rule Co  
ANCHOR Maze W H Co  
ANCHOR Merwin Mfg Co  
ANCHORBOND Allied Chemical Corp  
ANCHORFAST NAILS Independent Nail  
& Packing Co  
ANCHORITE Wall Plugs Inc  
ANCHOR-LOK Allied Chemical Corp  
Barrett Division  
ANCHORS Devices Div Miracle Adhesive  
ANCOR-EEZ Woodmack Products Inc  
ANDROC PENTA Androc Chemical Co  
ANDROCK Washburn Co  
ANDRUS Hoe R & Co Inc  
ANNUNCIETTE Edwards Co Inc  
ANTI-HYDRO Anti Hydro Waterproofing  
ANTIQUÉ WALNUT Masonite Corp  
ANVILCRETE Allied Compositions Co  
ANTY-CHEK Rockcote Paint Co  
ANSTREAM Speakman Co  
APCO Aluminum & Glass Products Co  
APCO PUMP Aurora Pump Div New  
York Air Brake Co  
APECO American Photocopy Equipment  
APRILAIRE Research Products Corp  
APSCO Associated Plumbing Supply Co  
AQUADAM Johns-Manville Corp  
AQUA-FLO Morrison Co  
AQUA-SEAL Sullivan Co The  
AQUASEAL General Cable Corp  
AQUA-SHIELD Camp Co Inc  
AQUATHENE General Cable Corp  
AQUATHERM Circle Wire & Cable Corp  
AQUA-VAC Modern Swimming Pool Co  
AQUT Pennsalt Chemicals Corp  
AQLUX Johnson S T Co  
A R B FEATHER-LIFT A R B Window  
Sales Company  
A R B REMOV-A-GLIDE A R B Win-  
dow Sales Company  
A R B 400 WINDOWS A R B Window  
Sales Company  
ARCADIA Cole Mfg Co  
ARCHITECT Bird & Son Inc  
ARDEE Werner R D Co Inc  
ARIDCLEAR Anti Hydro Waterproofing  
ARID-KOTE Masonry Waterproofing Co  
ARID-MIX Masonry Waterproofing Co  
ARIDSIL Anti Hydro Waterproofing Co  
ARIDTITE Anti Hydro Waterproofing Co  
ARIDTONE Anti Hydro Waterproofing  
ARISLIDE Michel & Pfeffer Iron Works  
ARISTO Fiat Metal Mfg Co  
ARISTOCRAT Air Control Products Inc  
ARISTOCRAT Ohio Stamping Prods Co  
ARISTOCRAT HEATING CABLE Cell-  
heat Incorporated  
ARISTOFLEX-CONFETTI Mastic Tile  
Div Ruberoid Co  
ARISTOPAVE Thomas Moulding Floor  
Company  
ARKANSAS SOFT PINE Fordyce Lum-  
ber Company  
ARLINGTON Gerber Plumbing Fixtures  
ARM-GLAZE Dicks Armstrong Pontius  
ARM-GLAZE TYPE M Dicks Armstrong  
Pontius Inc

ARMOLAC Sonneborn L Sons Inc  
ARMORPLY CHALKBOARD United  
States Plywood Corp  
ARMORTOP Anti Hydro Waterproofing  
ARMPLEX Chicago Spring Hinge Co  
ARRESTONE Armstrong Cork Co  
ARRO-CORE Arro Expansion Bolt Co  
ARROFLUTE Arro Expansion Bolt Co  
ARRO-LOCK United States Gypsum Co  
ARROW Copymation Inc  
ARROW Eagle Rule Mfg Corp  
ARROW DELUXE Eagle Rule Mfg Corp  
ARROW STAPLERS Arrow Fastener Co  
ARROW-HART Arrow Hart & Hegeman  
Electric Company  
ARROW SUPREME Eagle Rule Mfg Corp  
ART National-U S Radiator Corp  
ART LINE Calder Mfg Co  
ARTRIM Superior Industries Inc  
ART-ROC Truscon Labs Inc  
ASBESTALUX United States Plywood  
ASBESTILE Johns-Manville Corp  
ASBESTOS MASONRY WATER REPEL-  
LENT Abesto Mfg Co  
ASBESTO SEMI-PLASTIC Abesto Mfg  
ASH-PIT Handley-Brown Co  
ASHTONE Bloomington Limestone Corp  
ASPHALCRETE Thomas Moulding Floor  
Company  
ATHA Stanley Tools  
ATLAS CEMENT Universal Atlas Cement  
Div U S Steel Corp  
ATLAS (Tools) Atlas Press Co  
ATLAS COMPO FORMS Irvington Form  
& Tank Co  
ATLAS SPEED FORMS Irvington Form  
& Tank Co  
ATLITE Atlas Electric Prods Co  
ATMOS-THERM Rempe Co  
ATTIC-AIR Acme Engrg & Mfg Corp  
ATTI-C-OOLER Damp-Vent Co  
AUBREY Aubrey Hardware Mfg Inc  
AUDICOTE United States Gypsum Co  
AUDITONE United States Gypsum Co  
AURORA PUMP Aurora Pump Div New  
York Air Brake Co  
AUTO-BLOC Round David & Son Inc  
AUTO-CUBER Besser Co  
AUTOFLO Speakman Co  
AUTO LOCK Superior Scaffold Co  
AUTO-LOK Ludman Corp  
AUTOMATIC HOUSEKEEPER Trion Inc  
AUTO-NAILER Auto-Nailer Co  
AUTOSHIFT Hamilton Mfg Co  
AUTO-SEAT American Photocopy Equip-  
ment Company  
AUTOYRE Ekco Products Co  
AXIAL FLOW Trade-Wind Div  
AXIAL FLO-FANS Emerson-Pryne Co  
AZPHLEX Azrock Floor Products  
AZROCK Azrock Floor Products  
AZTEC Sullivan Co  
BG 2 Bay State Abrasive Products Co  
B & H ANGLE-RITE Butcher & Hart  
B SPINNER American Floor Machine Co  
B L P Mobile Paint Mfg Co  
BACKER BOARD Air O-Cel  
BAK-E-FOAM AlSCO  
BALANCED-FLOW Goulds Pumps Inc  
BALL-RITE Cummins Portable Tools  
BALSAM-WOOL Wood Conversion Co  
BAMA BRAND Alabama Oak Flooring  
BAMBOOFOLD American Accordion-  
Fold Doors Inc  
BANDLITE Mississippi Glass Co  
BANTAM Grant Pulley & Hardware  
BANTAM Remington Arms Co Inc  
BAR BROOK BREEZE BUILDER Bar-  
Brook Mfg Co  
BARCO DRILL Barco Mfg Co  
BARCO HAMMER Barco Mfg Co  
BARCO RAMMER Barco Mfg Co  
BARCO VIBRA-TAMP Barco Mfg Co  
BARCOL Barber Colman Co  
BAR-CORODE Mobile Paint Mfg Co  
BAR D-K Cabot Samuel Inc  
BARNES Temperature Appliance Mfg Co  
BARRELED SUNLIGHT Allied Chemical  
BARRELED SUNLIGHT Barreled Sun-  
light Paint Co

BARRETT-HOLT Allied Chemical Corp  
BASE-RAY Burnham Boiler Corp  
BATHE-RITE Milwaukee Stamping Co  
BATHKING Norman W F Sheet Metal  
BATH MAID Kitchen Maid Corp  
BAXCO Baxter J H & Co  
BAYFLEX Bay State Abrasive Prods Co  
BAY HARBOR Luxor Carpet Co  
BAYLAUN-BRAND Elliott Bay Mill Co  
BAY STATE Devco & Raynolds Co Inc  
BEADEX CORNERS Beadex Sales Inc  
BEADEX JOINT TAPE Beadex Sales Inc  
BEAM-HUGGER Round David & Son Inc  
BEAR Behr-Manning Co  
BEAUTI-BATH National Aluminum Co  
BEAUTI-DOR Beati-Dor Inc  
BEAUTI-WOOD Lehman Co  
BEAUTY BARROW Northwest Metal  
BEAUTYCRAFT CURV LINE Beauty-  
craft Kitchens Div  
BEAUTY-GLO Vita-Var Corp  
BEAUTYKOTE Vita-Var Corp  
BEAUTYLINE Andersen Corp  
BEAUTYLINE Holcomb & Hoke Mfg Co  
BEAUTY QUEEN Toledo Desk & Fixture  
BEAUTY-TONE Vita-Var Corp  
BEAUTY WALL SHAKES Western Door  
& Plywood Corp  
BEAUTYWARE Briggs Mfg Co  
BEAUTYWOOD Beautycraft Kitchens  
Div Miller Metal Products Inc  
BEAVER Mansfield Sanitary Inc  
BEAVER Samson Cordage Works  
BEE GEE WINDOWS Bee Gee Window  
BEHR-LAC Linseed Oil Products Co  
BEL-AIR Air Control Products Inc  
BEL-AIR Leigh Building Products  
BELAIRE Emerson-Pryne Co  
BELLWOOD DOORS Bellwood Co of Cal  
BELMAR Hough Mfg Corp  
BELTEVATOR Buschman E W Co Inc  
BEN FRANKLIN United States Gypsum  
BENDICK SELF-LEVELING LADD  
Richbilt Mfg Co  
BENDIX-FRIEZ Abbeon Supply Co  
BENEFACOR Hess Co  
BENEFIRE Bennett-Ireland Inc  
BENEFORM Bennett-Ireland Inc  
BEN-HUR FREEZERS Ben-Hur Mfg Co  
BENJAMIN Thomas Industries Inc  
BENNETT BILT Bennett Mfg Co  
BENWOOD FINISHES Moore Benjamin  
BERKELEY Allied Metals Inc  
BERKITE Modern Swimming Pool Co  
BERKO UH SERIES Berko Electric Mfg  
BERMICO Brown Co  
BERMIDRAIN Brown Co  
BERMIGATION Brown Co  
BERMIROAD Brown Co  
BERMISEPTIC Brown Co  
BERRY DOORS Berry Door Corp  
BESSER-MATIC Besser Co  
BESSER PRE CASTER Besser Co  
BEST WALL Bestwall Gypsum Co  
BETSY ROSS Carey-McFall Co  
BEVELITE Mississippi Glass Co  
BEVIL-DEVIL Kimball Mfg Co  
B H & ROTARY Johnson S T Co  
BIDDLES ELASTIC Biddle Co  
BIG G BOOSTER General Water Heater  
BIG MUSCLE Ottawa Steel Div  
BIG 7 JALOUSIE Superior Window Co  
BIG TIMBER-BRAND Elliott Bay Mill  
BILDTRITE Insulite Div  
BILT-WELL Caradco Inc  
BIN-PAK Ives H B Co  
BIN-VEYOR Bosworth Mfg Co  
BI-RAIL Acme Appliance Mfg Co  
BIRGE MEDALLION Birge Co Inc  
B-K POWDER Pennsalt Chemicals Corp  
BLACK DIAMOND Allied Chemical Corp  
BLACK DIAMOND (Files) Nicholson File  
BLACKHAWK Tilley John S Ladders Co  
BLACK SHIELD Allied Chemical Corp  
BLACK TEMPERED PRESWOOD Ma-  
sonite Corporation  
BLAZECRETE Johns-Manville Corp  
BLEND-AIR Coleman Co Inc  
BLENDTEX United States Gypsum Co

BLOC-SEAL Surface Protection Co Inc  
 BLO-FAN Emerson-Pryne Co  
 BLOK-JOINT Carter-Waters Co  
 BLOK-LOK A A Wire Products Co  
 BLOK-MESH Carter-Waters Corp  
 BLO-VAC Atlas Floor Surfacing Machinery Corp  
 BLUBAG Woodville Lime Products 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 Abrasive Prods  
 BLUE LINE Gates & Sons Inc  
 BLUE RIBBON Thatcher Furnace Co  
 BLUE RIDGE American-Saint Gobain  
 BLUSH BUFFS Bowerton Shale Co  
 B N C O PARTITIONS Biersach & Neidermeyer Company  
 BOISE CASCADE TRU-GRADE Cascade Lumber Company  
 BOLTA FLOOR General Tire & Lumber Co Building Materials Div  
 BOLTA-TOP General Tire & Rubber  
 BOLTA WALL General Tire & Rubber  
 BOL-TITE Pyramid Mouldings Inc  
 BONANZA Wooster Brush Co  
 BONDACTOR Air Placement Equip Co  
 BONDALL Allied Compositions Co Inc  
 BONDCRETE United States Gypsum Co  
 BONDEX Reardon Co  
 BONDKOTE National Mfg Corp  
 BONDRITE Standard Paste & Glue Co  
 BONDSTONE Emco Cement Products Inc  
 BONDWOOD Harris Mfg Co  
 BONNIE PLASTIC TILE Jones & Brown  
 BONTEX Columbus Coated Fabrics Corp  
 BO PEEP Carey-McFall Co  
 BORD-JAK Maco Corp  
 BOROLON Simmonds Abrasive Co  
 BOSCO Bowerton Shale Co  
 BOWBAY Woodeo Corp  
 B P S Patterson-Sargent Co  
 BOX-FIN Edwards Engineering Corp  
 BOX SHOOK U S Plywood Corp  
 BRAMMER LIVING KITCHENS Brammer Manufacturing Company  
 BREEZEMASTER Acme Engineering & Manufacturing Corporation  
 BREEZEMASTER Angel Co  
 BRESSLER Kol-Master Corp  
 BRIAR EDGE True Temper Corp  
 BRICK-LOK Standard Lime & Cement  
 BRIDGEPORT Bridgeport Hardware Manufacturing Corporation  
 BRIDJOINT United States Gypsum Co  
 BRIGADIER General Bathroom Products  
 BRIGHT-GLAZE Mosaic Tile Co  
 BRIKARIER Fuller Mfg Co  
 BRIKSULITE Certain-Teed Sales Corp  
 BRILLIANT FIRE Ohio Foundry & Mfg  
 BRISTOL DOOR General Doors Corp  
 BRIXMENT Louisville Cement Co  
 BROADLITE Mississippi Glass Co  
 BROAD SHADOW Allied Chem Corp Barrett Division  
 BROADVIEW Miami Cabinet Div Philip Carey Manufacturing  
 BRONCO Woodward Lumber Co  
 BRONZALUM American Abrasive Metals  
 BRONZEGLOW BIRCH H J Scheirich Co  
 BROOKPLY Brookings Plywood Corp  
 BROWN-LABEL Johnsons Wax  
 BROWNSKIN FOIL BARRIER Ludlow Papers Incorporated  
 BROWNSKIN VAPORSEAL Ludlow Papers Incorporated  
 BROWN-X Pass & Seymour Inc  
 BRULE Brule Incinerator Corp  
 BRUSHWOOD Congoleum-Nairn Inc  
 BUCKEYE Gar Wood Industries Inc  
 BUCKEYE Youngstown Sheet & Tube Co  
 BUDGET INTERLOCK Jones & Brown  
 BUDGIT Manning Maxwell & Moore  
 BUILT-IN Standard Building Prods Co  
 BUILT-UP ROOF Ther-Mo Roof Inc  
 BULKBINDER Gerrard A J & Co  
 BULLCLAM Drott Mfg Corp  
 BULLDOG Bulldog Div Gregory Ind

BULLDOZER Atlas Floor Surfacing Machinery Corporation  
 BULL DOG FLOOR CLIPS New Monarch Machine & Stamping  
 BULLS EYE BLACK GLOSS Zinsser William & Co Inc  
 BULLS EYE SHELLAC Zinsser William  
 BURKAY Smith A O Corp Fernaglas Div  
 BURKS Decatur Pump Co  
 BURT FREE FLOW GRAVITY VENTILATOR Burt Mfg Co  
 BURT MONITOR GRAVITY VENTILATOR Burt Mfg Co  
 BURT MONOVENT Burt Mfg Co  
 BURT STANDARD GRAVITY VENTILATOR Burt Mfg Co  
 BURT THERMAVENT Burt Mfg Co  
 BUSHMAN Genseo Tools  
 BUSTER CRABBE Cascade Pools  
 BUTLERIB Butler Mfg Co  
 BUTLER SR Finchbaugh-Murray Corp  
 BUTLER JR Finchbaugh-Murray Corp  
 BYERS 4-D Byers A M Co  
 BYZANTILE Mosaic Tile Co  
 CID Goulds Pumps Inc  
 C M C Construction Machinery Co  
 CABLE HEAT Electromod Div Commercial Controls  
 CADET Flat Metal Mfg Co  
 CADET General Bathroom Products Corp  
 CAFCO BLAZE-SHIELD U S Mineral Wool Company  
 CAFCO HEAT-SHIELD U S Mineral Wool Company  
 CAFCO SOUND-SHIELD U S Mineral Wool Company  
 CALCINATOR Calcinator Corp  
 CALDWELL LAVATORY Universal-Rundle Corporation  
 CALK-INS Rawplug Co Inc  
 CALK-O-TUBE Seal Rite Caulking Co  
 CALK-SCREW Maze W H Co  
 CAMASTIC C Cambridge Tile Mfg Co  
 CAMDEN LAVATORY Universal-Rundle  
 CAMEO Shower Door Co of America  
 CAMPCO National Metal Prods  
 CAMPCRETE Camp Co Inc  
 CAMP-O-LITE Camp Co Inc  
 CAM-TITE Ives H B Co  
 CANDLECTRIC Trade-Wind Div Robbins & Myers Inc  
 CANDYCOTE Crown Rubber Co  
 CANEC Pioneer Div Flintkote Co  
 CANNON BALL Starline Inc  
 CANNON PLUGS Cannon Electric Co  
 CAPE CANAVERAL Gerber Plumbing Fixtures Corp  
 CAPITALAIRE National U S Radiator  
 CAPITOL Standard Lime & Cement Co  
 CAPTAIN General Water Heater Corp  
 CAPRI DOORS Capri Sales Inc  
 CARBI-TWIST U S Expansion Bolt Co  
 CARBOFLEX Carborundum Co  
 CARBOLINEUM Carbolineum Wood Preserving Company  
 CARBONATIC Standard Register Co  
 CARBORA Cortland Grinding Wheels  
 CARBOSOTA Allied Chemical Corp Barrett Division  
 CARDENAS Evergreen States Forest  
 CAREYSPUN Carey Philip Mfg Co  
 CARLSON Diston Div H K Porter Co Inc  
 CARLTON Carrollton Mfg Co  
 CARNEY BRITE-WALL Carney Co Inc  
 CARNEY CUBE-FILL Carney Co Inc  
 CARNEY GOLDEN FLEECE Carney Co  
 CAROLINA Arnold Altex Aluminum Co  
 CARRARA Pittsburgh Plate Glass Co  
 CASCADE Flat Metal Mfg Co  
 CASE Case J I Co  
 CASEIN GLUE Borden Chemical Co Div Borden Company  
 CASEKING Vulcan Metal Prods Inc  
 CASE-TITE National Metal Prods  
 CAT Caterpillar Tractor Co  
 CATALINA Tectron Metals Co  
 CATALINA SCREEN DOOR Rudiger-Lang Co  
 CATCH-ALL Cyclone Fence Dept

CATERPILLAR Caterpillar Tractor Co  
 CATHEDRAL American Roof Truss  
 CAULK-FLO PUMP Force-Flo Inc  
 CAUXEAL X-Pando Corp  
 CAVITY-LOK A A Wire Products Co  
 CECOFRAME Ceco Steel Prods Corp  
 CECONOMY Ceco Steel Prods Corp  
 CECOROLL Ceco Steel Prods Corp  
 CEDARCO Giles & Kendall  
 CEDA-SPRAE Plexstone Corp of America  
 CEFCO Central Foundry Co  
 CEIL-DEK Pioneer Div Flintkote Co  
 CEIL-N-VENTOR Universal Blower Co  
 CEILTILE Arrow Fastener Co Inc  
 CELL-U-BLANKET Wood Conversion Co  
 CELLUDECK Inland Steel Products Co  
 CELUFOR Inland Steel Products Co  
 CELL-U-FORM Wood Conversion Co  
 CELULITE Gilman Bros Co  
 CELLU-TONE Pratt & Lambert Inc  
 CELOBRIC Celotex Corp  
 CELOCRETE Celotex Corp  
 CELO-O-GLASS Arvey Corp  
 CELO-ROK Celotex Corp  
 CELO-SEAL Celotex Corp  
 CELOTONE Celotex Corp  
 CEMCOAT Sonneborn L Sons Inc  
 CEMENTICO United States Gypsum Co  
 CEMENTONE Serviced Prods Corp  
 CEMENT PLUG Coddington E D Mfg Co  
 CEMESTO Celotex Corp  
 CEMENT STONE Cleveland Wash Tray  
 CENTRAVAC Trane Co  
 CENTRI-THRIFT Myers F E & Bros Co  
 CENTURY Tilley John S Ladders Co Inc  
 CERAMIDUCT Straitsville Brick Co  
 CERAMIFILTER Straitsville Brick Co  
 CERAMI-TAPE Straitsville Brick Co  
 CERAMITONE Sunbeam Plastics Corp  
 CERAMO Carey Philip Mfg Co  
 CERATILE Cambridge Tile Mfg Co  
 CERCO Ceresit Waterproofing Corp  
 CERTA GLAS Certain-Teed Sales Corp  
 CERTAIN-TEED Certain-Teed Sales Corp  
 CERTI-SPLIT Haynes O E & Sons Inc  
 CERTI-SPLIT Jackson Shake Co  
 CHALLENGER Boice Crane Co  
 CHALLENGER Coffing Holst Div Duff-Norton Corporation  
 CHALLENGER Kol-Master Corp  
 CHAMCO Chamberlin Co of America  
 CHAMP #4 32W2 Ludlow Papers Inc  
 CHAMPAGNE WALNUT Masonite Corp  
 CHAMPION Dunn W E Co  
 CHAMPION Heinemann Saw Corp  
 CHAMPION Miami Window Corp  
 CHAMPION Safe Padlock & Hdwe Co  
 CHAMPION Tilley John S Ladders Co  
 CHAMPION United States Gypsum Co  
 CHAMPION Vento Steel Products Co Inc  
 CHAMPION (Stairs) Tenn Fabricating  
 CHAMPION DEARMENT Champion Dearthment Tool Co  
 CHAMPLINE Ludlow Papers Inc  
 CHAMP #264 Ludlow Papers Inc  
 CHAN-L-CROS Junior-Pro Products Co  
 CHANNEL-LAP Celotex Corp  
 CHANNELLOCK Champion Dearthment Tool Company  
 CHAR-B-Q Majestic Co Inc  
 CHARGRILL Majestic Co Inc  
 CHATTANOOGA Chattanooga Royal Co  
 CHECK-CORD & JUNIOR Lanebro Mfg  
 CHECKERBOARD United States Plywood Corp  
 CHECKPEST Wood Treating Chemicals  
 CHELDUOGEAR Chelsea Elevator Co  
 CHELGEAR Chelsea Elevator Co  
 CHELNOGEAR Chelsea Elevator Co  
 CHEMGARD 100 United States Plywood  
 CHEM-O-GLAS Chemold Co  
 CHEM-WELD Southwestern Plastic Pipe  
 CHEROKEE Mosaic Tile Co  
 CHESLENE MVB Chester Pkg Prods  
 CHESLER Chesler J & Sons Inc  
 CHES-MULCH Chester Pkg Prods  
 CHEXWEAR Moore Benjamin & Co  
 CHICAGO Chicago Spring Hinge Co  
 CHICOPEE Chicopee Mills Inc  
 CHIEF Northwest Metal Products Inc

CHINALINE Barreled Sunlight Paint Co  
 CHIP-A-SAW Cenatron Industries  
 CHLORDANE Veliscol Chemical Corp  
 CHORE BOY Incinerator Products Co  
 CHROMALITE B & T Metals Co  
 CHROMALOX Wiegand Edwin L Co  
 CHROMEBSITE United Industries Inc  
 CHROME CLAD Lufkin Rule Co  
 CHROMEDGE B & T Metals Co  
 CHROME-X Pass & Seymour Inc  
 CHROMOPAK Miller Howard Clock Co  
 CHROMOULD National Aluminum Co  
 CHROMTRIM Werner H D Co Inc  
 CINCH Biddle Co  
 CINCH National Lead Co  
 CINDERELLA Angel Co  
 CIRCLE MOLD Circle Wire & Cable Corp  
 CIRCLE SHEATH Circle Wire & Cable  
 CIRCLE SUPER Circle Wire & Cable  
 CIRCULATOR Majestic Co Inc  
 CIRESIN Circle Wire & Cable Corp  
 CIRESIN-75 Circle Wire & Cable Corp  
 CIRCLEX Circle Wire & Cable Corp  
 CIRO RECESS TUB Universal-Rundle  
 CIRTEX Circle Wire & Cable Corp  
 CIRTUPE Circle Wire & Cable Corp  
 CIRTUF Circle Wire & Cable Corp  
 CITATION Birge Co Inc  
 CLARITONE Baldwin-Ehret-Hill Inc  
 CLARKETTE Clark Equipment Co  
 CLARKLIFT Clark Equipment Co  
 CLAYMONT Colorado Fuel & Iron  
 CLAYTON LAVATORY Universal-Rundle  
 CLEAR-AIRE Sin-Jin Products Co  
 CLEAR-COAT American Sta-Dri Co  
 CLEARCUSHION Congoleum-Nairn Inc  
 CLEAR-DRAIN Sin-Jin Products Co  
 CLEARLITE Fourco Glass Co  
 CLEAR PANEL Unit Structures Inc  
 CLEAR SITE Pickett Products Inc  
 CLEARTOX Abesto Manufacturing Co  
 CLERESPAN Republic Steel Corp  
 CLIMATE CHANGER Trane Co  
 CLIMATE MASTER Hess Co  
 CLIPPER Clark Equipment Co  
 CLIPPER Temperature Appliance Mfg  
 CLIPPER Trade-Wind Div Robbins & Myers Incorporated  
 CLIPPERETTE Temperature Appliance  
 CLIPTFAST Rubberoid Co  
 CLOR-TABS Pennsalt Chemicals Corp  
 CLOUROPOOL Modern Swimming Pool  
 CLOSUR-DOR Closures Sales Corp  
 CLOS-O ROD Mirro Chrome Co Inc  
 CLOS-O-SHELF Mirro Chrome Co Inc  
 CLOSUR-DOR Closures Sales Corp  
 CLUSTER SQUARE Wood-Mosaic Corp  
 COAL SUPER Williamson Co  
 COATATUB Protectub Inc  
 COAT CRETE Penn Crete Prods Co  
 COBURN Colorado Fuel & Iron Corp  
 COFAR Granco Steel Prods Co  
 COIL-WAL Dubuque Products Inc  
 COLD-BAR Calbar Paint & Varnish Co  
 COLD GENERATOR Trane Co  
 COLD-SHELF Barkow Aug G Mfg Co Inc  
 COLLOPAKES Cabot Samuel Inc  
 COLONEL LOGAN Logan Co  
 COLONIAL Birge Co Inc  
 COLORCRETE Lumino Co  
 COLORBESTOS Johns-Manville Corp  
 COLORCRON Master Builders Co  
 COLORGLAZE Colorcrete Industries Inc  
 COLORMIX Master Builders Co  
 COLORSOL Martin-Senour Co  
 COLORS-PAN Mondial United Corp  
 COLORTOP Ceresit Waterproofing Corp  
 COLORUNDUM Horn A C Companies  
 COLOR-TEX Kawneer Co  
 COLOR-TEX Rubberoid Co  
 COLUMBIA Eagle Rule Mfg Corp  
 COLUMBIA National Metal Prods  
 COLUMBIA-MATIC Columbia Mills Inc  
 COMASCO Consolidated Mach & Supply  
 COMBOMATIC Easy Laundry Appliances  
 Div Murray Corp of America  
 COMBWOOD United States Plywood  
 COMET 2-TRACK TILT WINDOW Alum-  
 atic Corp of America  
 COMET Consolidated Mach & Supply Co

COMET General Water Heater Corp  
 COMET (Window) Alumatic Corp  
 COMFORTEMP Comfort Products Inc  
 COMFORTLINE National-U S Radiator  
 COMFORTMASTER Thatcher Furnace Co  
 COMFORTROL Weather Seal Inc  
 COMFY Bemis Mfg Co  
 COMINCO U S Mineral Wool Co  
 COMMANDER National-U S Radiator  
 COMMANDER Speakman Co  
 COMMANDO Ottawa Steel Div Young  
 Spring & Wire Corp  
 COMMANDO (W C) Universal-Rundle  
 COMMODORE Fiat Metal Mfg  
 COMMODORE (Light) Wakefield Co  
 COMO Universal-Rundle Corp  
 COMPACTIC Engis Equipment Co  
 COMPANION Music & Sound Inc  
 COMPO-STACK Hamilton Mfg Co  
 COMPOUND M Camp Co Inc  
 COMPRESS Met-Cro Specialties Co Inc  
 CONCEPT 70 Congoleum-Nairn Inc  
 CONCRETE FORM PRESWOOD Ma-  
 sonite Corporation  
 CONCRETE PLACERS Air Placement  
 Equipment Co  
 CONCRETE-TERMITE DRILLS Relton  
 CONCRETEX Elliott Paint & Varnish Co  
 CONDAIRE Williamson Co  
 CONDOR Raybestos-Manhattan Inc  
 CONDUIT WEATHERMASTER SYSTEM  
 Carrier Corporation  
 CONGOLEUM Congoleum-Nairn Inc  
 CONIC Hilti Rapid Fastening Systems  
 CONNOR TYPE Gairing Tool Co  
 CONOLITE Continental Can Co  
 CONQ-R-DUST Johnsons Wax  
 CON SAW MATIC Clipper Mfg Co  
 CONSERVO Cabot Samuel Inc  
 CONSO Consolidated General Prod Inc  
 CONSOWELD EDGE TRIM Conso-  
 weld Corporation  
 CONSOWELD 6 Consoweld Corp  
 CONSOWELD 10 Consoweld Corp  
 CONSOWELD TWIN TRIM Conso-  
 weld Corporation  
 CONSO WINDMASTER Consolidated  
 General Prod Inc  
 CONSO WINDMASTER Aeroshade Co  
 CONSUMER Norman W F Sheet Metal  
 CONTEMPO Decro-Wall Corp  
 CONTINENTAL Continental Aluminum  
 CONTINENTAL Wabash Screen Door Co  
 CONTINUOUS STRIP Robbins Flooring  
 CONTINUFLO Egry Register Co  
 CONTINULOK Egry Register Co  
 CONTOURAMIC Swartwout Co  
 CONTOUR-MATIC Besser Co  
 CONTREAT Wood Treating Chemicals  
 CONTROLENS Holophane Co Inc  
 CONTROLLER Silver Bells Ltd  
 CON TROWLER Champion Mfg Co  
 CON-VAY-IT CONCRETE SPECIAL  
 American Conveyor Co  
 CON-VAY-IT MODEL R B American  
 Conveyor Company  
 CONVENIENT LIVING Home Planners  
 CONVERT-TO-COOL Typhoon Air Con-  
 ditioning Co Div Hupp Corp  
 CONVEYALL Bosworth Mfg Co  
 COOKMASTER Stove Works Inc  
 COOLAIR American Coolair Corp  
 COOLERATOR Coolerator McGraw-Edi-  
 son  
 COOLMATE Weil-McLain Co  
 COOL-SPOT Signal Elec Div King-Seeley  
 CO-PLY North Pacific Plywood Inc  
 COP-O-TOP Chase Brass & Copper Inc  
 COPPER ARMORED SISALKRAFT  
 American Sisalkraft Corp  
 COPPER-CHAMP Ludlow Papers Inc  
 COPPER-PAK Slant-Fin Radiator Corp  
 COPPERWELD Copperweld Steel Co  
 COPPES NAPANEE KITCHENS Cop-  
 pes Incorporated  
 COPR-FIBRE Forty-Eight Insulations Inc  
 COP-R-LOY Wheeling Steel Corp  
 COP-R-NAP Osmose Wood Preserving  
 COP-R-TOX Mobile Paint Mfg Co  
 CORAL Lehman Sprayshield Co

CORALUX Builders Fireplace & Supply  
 CORALUX Johns-Manville Corp  
 CORDOVA LIMESTONE Texas Quarries  
 CORINTHIAN KOROSEAL Goodrich B F  
 CORK BRICK Dodge Cork Co Inc  
 CORKBOARD Armstrong Cork Co  
 CORKTITE Meadows W R Inc  
 CORLON Armstrong Cork Co  
 CORNER-EX Inland Steel Products Co  
 CORNER GUARD Casings Inc  
 CORNICE VENTILATOR Damp-Vent Co  
 COROMAT Owens-Corning Fiberglas  
 CORONET (Shower) Norman W F Sheet  
 CORONET Walters Mfg Co  
 CORONIZED Owens-Corning Fiberglas  
 COROTOP Owens-Corning Fiberglas Corp  
 CORRUFORM Granco Steel Prods Co  
 CORRULUX Devices Division of Miracle  
 Adhesives Corporation  
 CORRULUX Johns-Manville Corp  
 CORTEX Cortland Grinding Wheels Corp  
 CORTLAND BRAND Wickwire Bros Inc  
 CORTLAND EMERY AGGREGATE Ma-  
 guire Walter Co Inc  
 COSALCO Colonial Moulding & Frame  
 COSMOPOLITAN Congoleum-Nairn Inc  
 COST CUTTER New London Engineering  
 COTSWOLD Hopes Windows Inc  
 COUNTERFLO Dravo Corp  
 COVENTRY Mobile Paint Mfg Co  
 COVERALL Macklanburg-Duncan Co  
 COVERALL Warp Brothers  
 COVERANGE Carey Philip Mfg Co  
 CRAFTWALL PANELING Roddis Corp  
 CRE-O-TOX Cre-O-Tox Chemical Co  
 CRESCENT (Drawers) Walters Mfg Co  
 CRESCENT Mustee E L & Sons Inc  
 CRESCRETE Ceresit Waterproofing Corp  
 CREST Lithbar Co  
 CREST ACIDITEE Kaiser Mfg Inc  
 CREST BOND-CRETE Kaiser Mfg Inc  
 CREST BOND-TITE Kaiser Mfg Inc  
 CRESTLINE Crestline Co  
 CRESTONE Reardon Co  
 CRESTONE Armstrong Cork Co  
 CRESTWOOD Mengel Co  
 CREST TILE-SET Kaiser Mfg Inc  
 CREST WATER-TITE Kaiser Mfg Inc  
 CRETE-FIX Horn A C Co Div Sun Chem  
 CRETEHARD Amer Asbestos Prod Co  
 CRETITE Calbar Paint & Varnish Co  
 CREZON Crown Zellerbach Corp  
 CRIS CROS STEEL BRIDGING Rudeem  
 N H Co Inc  
 CRITALL One-Der Frame Corp  
 CROCUS Samson Cordage Works  
 CROSSLITE Mississippi Glass Co  
 CROSSLY SURESEAL JALOUSIE Crossly  
 Window Corporation  
 CROWN Sloan Valve Co  
 CROWN Miller Co  
 CROWN BRAND Gensco Tools  
 CROWN CONTOUR Lustro Tile Mfg Co  
 CROWN DELUXE Lustro Tile Mfg Co  
 CROWN (Flooring) Crown Rubber Co  
 CROWN-MASTER New Castle Prod Inc  
 CRYSTAL Allied Chem Corp Barrett Div  
 CRYSTALITE Black White Limestone Co  
 CRYSTAL SILICONE Wurdack Chem Co  
 CRYSTAL TIPS McQuay Inc  
 CRYSTOLON Behr-Manning Co  
 CRYSTOLON Norton Co  
 CUB Master Lock Co  
 CUCKOO Wooster Brush Co  
 CUDO Mondial United Corp  
 CUISINE CENTRE Eikay Mfg Co  
 CU-PO-VENT Home Comfort Co  
 CUPRINOL Chemical Prod Div Darworth  
 CURON Curtis Wright Corp Curon Div  
 CURTIS Southern Mill & Mfg Co  
 CURTIS-ALLBRITE Curtis-Allbrite Inc  
 CURVFORM Schenck William & Co  
 CUSHION GRIP Bridgeport Hdwe Mfg  
 CUSHION SEAL Kessler Products Co  
 CUSHIONED POWER White-Rodgers Co  
 CUSHIONEX Allied Compositions Co Inc  
 CUSHIONSTONE Armstrong Cork Co  
 CUSTOM 80 Logan-Long Co  
 CUSTOM FOLD American Accordion-  
 Fold

CUSTOM MAGIC FOLD Clopay Corp  
 CYCLO Fasco Industries Inc  
 CYCLO-CORE New England Carbide Tool Co Inc  
 CYCLO-TWIST New England Carbide Tool Co Inc  
 CYCLONE Cyclone Fence Department  
 CYL-O-LATCH Chesler J & Sons Inc  
 D COR Nudor Mfg Corp  
 DAD & LAD Dad & Lad Co  
 DAISY Wagner Mfg Co  
 DALL Modern Swimming Pool Co Inc  
 DAMIT Quigley Co Inc  
 DAMPCOAT Wilbur & Williams Co  
 DANDIE MIXERS Koehring Co  
 DAP KWIK-SEAL Dicks Armstrong  
 DAP ROPE-CAULK Dicks Armstrong  
 DARACONE Dewey & Almy Chemical  
 DARA FILM Dewey & Almy Chemical  
 DARATARD Dewey & Almy Chemical  
 DARAWELD Dewey & Almy Chemical  
 DAREX AEA Dewey & Almy Chemical  
 DART Copymaton Inc  
 DASBOND Dasco Co Inc  
 DASCO Dasco Co Inc  
 DASCO TARGETHEAD Damascus Steel  
 DASCREE Dasco Co Inc  
 DASH PATCH Allied Compositions Co  
 DASTEX-X Dasco Co Inc  
 DASTEX Dasco Co Inc  
 DAS-TOP Dasco Co Inc  
 DAVID ROUND Round David & Son Inc  
 DAVIS Massey-Ferguson Industrial Div  
 DAVIS & WELLS Consolidated Machinery  
 DAVIS & WELLS Comet Mfg Co  
 DAYNA Progress Mfg Co Inc  
 DEBONAIR Acme Natl Refrigeration Co  
 DECI-MAGIC Marchant Smith-Corona  
 DECORPANEL North Pacific Plywood Inc  
 DECOR-A-LITE Miller Co  
 DECORATOR Tilley John S Ladders Co  
 DECORATOR KNOBS Engineered Prods  
 DECORFOLD Curtitton Corp  
 DECOTILE Mosaic Tile Co  
 DECRO BORD Johns-Manville Corp  
 DECROTONE Johns-Manville Corp  
 DECRO-WALL Decro-Wall Corp  
 DEEPFREEZE Amana Refrigeration Inc  
 DEFENDER Corbin P & F Div  
 DEFT WOOD FINISH Desmond Bros Co  
 DEGLOSSER Savogran Co  
 DEHYDRATINE Horn A C Companies  
 DEKADOOR United States Plywood Corp  
 DEKALEATHER U S Plywood Corp  
 DEKALUX United States Plywood Corp  
 DEKAPLY United States Plywood Corp  
 DEKATILE United States Plywood Corp  
 DELCO CONDITIONAIR Delco Appliance  
 DELCO-HEAT Deleo Appliance Div G M  
 DELCO-MATIC Crawford Door Co  
 DELFAIR Fair D L Lumber Co  
 DELTAFILM Delta Co  
 DELTA-SEAL Texas Vitrified Pipe Co  
 DELTASTRAL Delta Co  
 DELTOX Armstrong Cork Co  
 DE LUXE General Water Heater Corp  
 DELUXE 300 Globe Roofing Prod Co Inc  
 DELUXE Goodyear Tire & Rubber Co  
 DENCO Denison Co  
 DENISON KWIK-LAY Mason City Brick  
 DENSULITE Insulite Division  
 DESIGN X Congoleum-Nairn Inc  
 DESMOND SIMPLEX Desmond-Stephan  
 DESPARD Pass & Seymour Inc  
 DETOPAK Mondial United Corp  
 DETROIT JEWEL Weibull Stove Co  
 DEVILBISS Devilbiss Co  
 DEVL-LEVEL Pickett Products Inc  
 DEVOE Devoe & Reynolds Co Inc  
 DEKLOCK Dexter Lock Div Dexter Indus  
 DEXTER Dexter Lock Div Dexter Indus  
 DEXTRA-LITES Swiveller Co Inc  
 DIAL-A-FLO General Controls Co  
 DIALMATIC Dexter Lock Div Dexter  
 DIAL-SET Kol-Master Corp  
 DIAMIDE Diamond Expansion Belt Co  
 DIAMOND Speakman Co  
 DIAMOND HARD Wells J W Lumber Co  
 DIAMOND-LITE DOOR Morgan Co

DIAMOND T Diamond T Motor Truck Co  
 DIAVAC Chester Products Inc  
 DIE-CUT STRAP Gerrard A J & Co  
 DIFFUSAIRE Hart & Cooley Mfg Co  
 DIVIDER-ETTE CUBICLES Cutler Metal  
 DIXIE Rich Howard B Inc  
 DONNELLY Donnelly-Kelley Glass Co  
 DOOR BOTTOMS Schlegel Mfg Co  
 DOOR CHIMES International Register Co  
 DOORMAN Barber Colman Company  
 DOORSCOPE Doorscope Co  
 DORGUARD Lockwood Hdwe Mfg Co  
 DOR-O-MATIC Dor-O-Matic Div Republic Industries Inc  
 DOSCH CUSTOM CUTTER Dosch Mfg Co  
 DOUBLE-HUNG Wisco Inc  
 DOOR-N-WALL General Electric Co  
 DOOR-N-WALL Goder Joseph Inc  
 DOOR-N-WALL Hirsh S A Mfg Co  
 DITCH WITCH Charles Machine Works  
 DIVCO Division Lead Co  
 DOMCO Ostin David Moulding Corp  
 DOORMASTER Crawford Door Co  
 DORFLO Ez-Way Sales Inc  
 DOR-TITE Durkee-Atwood Co  
 DOUBLE-TILT Midwest Wholesale Hdwe  
 DOUBLE-WHITE Cabot Samuel Inc  
 DOUBLE X Schaik Chemical Co  
 DOUBLE XX Simmonds Abrasive Co  
 DOUBLEX Blue Ridge Glass Corp  
 DOUGLAS CRESTLYN Douglas Crestlyn  
 DOUGLAS HEARTHFORM Douglas Mfg  
 DOWN FLOW McQuay Inc  
 DO-X Schaik Chemical Co  
 DRAFSTOP Roberts Co  
 DRAFT-O-STAT Hotstream Heater Co  
 DRAIN-LINE Skyline Industries  
 DRAMEX Reardon Co  
 DRAVO Dravo Corp  
 DRAWER-KIT Firpine Products Co  
 DREAMLINE Angel Co  
 DRESDEN Mansfield Sanitary Inc  
 DRESSATORY Reflectotherm Inc  
 DRIFSTONE Baldwin-Ehret-Hill Inc  
 DRIFTWOOD Strait & Richards Inc  
 DRILFAST ANCHORS US Expansion Co  
 DRI-N-TITE Horn A C Div Sun Chemical  
 DRI-CEIL Ceilheat Inc  
 DRI-SPEEDWALL Natco Corp  
 DRI TEX Wayne Chemical Prods Co  
 DRI-VAC Robbins Flooring Co  
 DRIVE-RITE ALUMINUM NAILS Independent Nail & Packing Company  
 DROPTOP Sturdilite Products Inc  
 DRY-AIRE Roper Geo D Corp  
 DRYLOK United Gilsonite Laboratories  
 DRYLON Allied Compositions Co Inc  
 DRYOMATIC Abbeon Supply Co  
 DRY-LUX Coddington E D Mfg Co  
 DRYSEAL Revere Copper & Brass Inc  
 DU-AL-CLIP Timber Engineering Co  
 DUAL-LAP Edeco Products Inc  
 DUAL-PRIME Construction Mach Co  
 DUAL-TONE Edeco Products Inc  
 DUALVECTOR Kritzer Radiant Coils Inc  
 DUBLECOTE Allied Chemical Corp  
 DUBL-BILT Upon Co  
 DUB-L-TITE Mobile Paint Mfg Co  
 DUCTLESS AIR PURIFIER Ductless Co  
 DUETTE Miami Cabinet Div Phillip Carey  
 DU-KANE Lawrence W W & Co  
 DULAMEL Moore Benjamin & Co  
 DUMPCRETE Maxon Construction Co Inc  
 DUMPTOR Koehring Co  
 DUNBEAM Dunn W E Co  
 DUNBRIK Dunn W E Co  
 DUNTILE Dunn W E Co  
 DUOCREX Horn A C Div Sun Chemical  
 DUO-FAST Fastener Corp  
 DU-O-JECT Smith & Loveless Inc  
 DUO-GUARD FUSHMATICS Bulldog Electric Prod Div I-T-E Circuit Breaker  
 DUO-JOBMASTER Ramset Fastening System Winchester-Western Division  
 DUO-SAFETY Duo-Safety Ladder Corp  
 DUO-RAD Penn Boiler & Burner Mfg  
 DUO-TROL HEATING Holly-General Co  
 DUPLEX Congoleum-Nairn Inc  
 DUPLEX Johns-Manville Corp

DUPLEX United States Gypsum Co  
 DUR-ABRITE B & T Metals Co  
 DURABILT Auer Register Co  
 DURACUT Bay State Abrasive Prod Co  
 DURA-DEK Allied Compositions Co Inc  
 DURA-DIKE Allied Compositions Co Inc  
 DURAFAX Horn A C Div Sun Chemical  
 DURAFLO Acme Appliance Mfg Co  
 DURAFLO Horn A C Div Sun Chemical  
 DURA-GLIDE Durell Products Inc  
 DURA-GLIDE Zegers Inc  
 DURA-LAP Edeco Products Inc  
 DURALIFE DOOR Jasco Aluminum Prod  
 DURALITE American Duralite Corp  
 DURA-LOK Allied Chem Barrett Div  
 DURALON Allied Compositions Co Inc  
 DURALOX Allied Compositions Co Inc  
 DURAMESH Johns-Manville Corp  
 DURAMIC Hanley Co  
 DURA-PLUG Penn Crete Prods Co  
 DURAPLY United States Plywood Corp  
 DURA-PROOF Penn Crete Prods Co  
 DURA-SEAL Zegers Inc  
 DURA SEAL International Chemical Co  
 DURATUB Mustee E L & Sons Inc  
 DURAVAL United States Gypsum Co  
 DUR-O-PANE Warp Brothers  
 DURA-WELD Penn Crete Prods Co  
 DUREX Chicago Spring Hinge Co  
 DURITE Behr-Manning Co  
 DURMOSEAL Seidlitz Paint & Varnish  
 DUROPIPE Sonoco Prods Co  
 DURELL Durell Products Inc  
 DURETHENE Koppers Co Inc Durethene  
 DUREX Richbilt Manufacturing Co  
 DU RITE Scharf J H Mfg Co  
 DURMO SEAL Seidlitz Paint & Varnish  
 DURMO THE FINISH ETHERNAL Seidlitz Paint & Varnish Company  
 DURO Flat Metal Mfg Co  
 DUROGLAS General Water Heater Corp  
 DUROLITE Insulite Division  
 DURON United States Gypsum Co  
 DUR-X Franklin Plastics Inc  
 DUSKILITE Pittsburgh Plate Glass Co  
 DUSTRONIC Radex Corp  
 DUST-STOP Owens-Corning Fiberglass  
 DUTCH BOY National Lead Co  
 DUTCH BRAND Johns-Manville Corp  
 DUVAL Lenahan Alum Window Corp  
 DUXBAC Logan-Long Co  
 DUX SULATION Wilson Grant Inc  
 DX-100L POWER ASSIST Hilti Rapid Fastening Systems Inc  
 DYMORBIT Milwaukee Elec Tool Corp  
 DYMORHILL Milwaukee Elec Tool Corp  
 DYMORIG Milwaukee Elec Tool Corp  
 DYNA-AIRE C & H Air Conditioning Co  
 DYNAMIC True Temper Corp  
 DYNASTY Congoleum-Nairn Inc  
 DYNION Scharf J H Mfg Co  
 DYNO-MITE Millers Falls Co  
 EAGALINE Eagle Electric Mfg Co  
 EAGALOCK Eagle Electric Mfg Co  
 EAGLE-FICHER Eagle-Ficher Co  
 EARTHCO DOZER Earth Equip Corp  
 EASIMOUNT Edwards Co Inc  
 EASTERN Rich Howard B Inc  
 EASTERN FOLDING DOOR Eastern Machine Products Company  
 EASTERNWEAVE FOLDING DOORS Eastern Machine Products Company  
 EASY National-Detroit Inc  
 EASY-CALL Music & Sound Inc  
 EAVESEAL Tension Brothers Inc  
 EBBTONE Johns-Manville Corp  
 ECCO Ekstrom Carlson & Co  
 ECONOCOVE Johnson Plastics Corp  
 ECONO-CAVITY-LOK AA Wire Prod Co  
 ECONO-LOK AA Wire Products Co  
 E-CON-O-MILL Gairing Tool Co  
 ECONOMY Harris Mfg Co  
 ECONOMY (Forms) Economy Forms  
 ECON-O-POST Tel-O-Pest Co  
 ECONOSOFT Red Jacket Mfg Co  
 ECONO-TAKEOUT Grand Rapids Hdwe  
 ECONOVENT Rockwell of Randolph Inc  
 ECON-O-WALL Ware Laboratories Inc  
 ECON-O-WARE Ware Laboratories Inc

EDGE GUARD Casings Inc Drywall Trim  
 EE-ZE-DO Allied Metals Inc  
 EFCC FORMS Economy Forms  
 EFFECTO Pratt & Lambert Inc  
 EKONOMY Peterson Prods Co  
 ELASTICA Standard-Toch Chemicals Inc  
 ELASTIGUM Allied Chem Barrett Div  
 ELASTITTE Carey Philip Mfg Co  
 ELECTOFIN Berko Electric Mfg Corp  
 ELECTRA-CAL Calcinator Corp  
 ELECTRAMIC BROILER Stanthony Corp  
 ELECTR-CAL Calcinator Corp  
 ELECTREND Electrend Products Corp  
 ELECTRI-CARS Victor Adding Mach Co  
 ELECTRIC TRIMLINE Vulcan Radiator  
 ELECTRICIAN Tilley John S Ladders Co  
 ELECTROLON Simmonds Abrasive Co  
 ELECTRONIC SERVICEMAN McKee Door Company  
 ELECTRO-RAY INFRAFLO Electro Prods  
 ELECTROSTRIP Bulldog Electric  
 ELECTRUNITE Republic Steel Truscon  
 ELEVEITTE Inclinator Co of America  
 ELGIN Elgin Softener Corp  
 ELITE COMPAK Egr Register Co  
 ELMERS GLUE-ALL Borden Chem Co  
 EL REY Celotex Corp  
 EMCO Emco Cement Products Inc  
 EMEREL Johnson's Wax  
 EMERI-BOND Maguire Walter Co Inc  
 EMERI-BRICK Maguire Walter Co Inc  
 EMERI-CRETE KURE Maguire Walter Co  
 EMERI-CRETE FLOORING Maguire Walter Company Incorporated  
 EMERI-EPOX Maguire Walter Co Inc  
 EMERI-TONE Allied Compositions Co Inc  
 EMERI-TOPCRETE Maguire Walter Co  
 EMERSON IMPERIAL Emerson Electric  
 EMERSON PRYNE Emerson Electric Co  
 EMPIRE Tilley John S Ladders Co Inc  
 EMPIRE (Tools) Empire Level Mfg Co  
 EMPIRE-STONE Protective Products Co  
 ENAMELINE Ruud Mfg Co  
 ENCHANTE Thomas Industries Inc  
 ENDURA Lustru Tile Mfg Co  
 ENSIGN Fiat Metal Mfg Co  
 ENTERITE General Cable Corp  
 ENTRY-SENTRY Fanon Electronic Ind  
 EPOXALL Allied Compositions Co Inc  
 EQUATEMP Safetee Glass Co  
 ESCALIFT Shepard Elevator Co  
 ESKAY-LITE American Siskraft Corp  
 ES-NAIL E/S Products Inc  
 ESSO Gilbert & Barker Mfg Co  
 ESTHER WILLIAMS POOLS International Swimming Pool Corp  
 ETERNIUM Allied Chemical Corporation  
 ETLING Etling Window  
 EUREKALITE TROWELS Nicholls Mfg  
 EVANEER Evans Products Co  
 EVANITE Evans Products Co  
 EVANS Evans Rule Co  
 EVEN-TEMP Northwest Metal Prod Inc  
 EVERDUR American Brass Co  
 EVERETT TRENCHER Earth Equip Corp  
 EVER-FAST Allied Chemical Corporation  
 EVERFAST Ambroid Co  
 EVERGLAZE Mosaic Tile Co  
 EVERGLEAM Goodyear Tire & Rubber  
 EVERJET Allied Chemical Corp  
 EVERLAST Acme Brick Co  
 EVERLASTIC Acme Brick Co  
 EVERLASTIC Allied Chemical Corp  
 EVERLOX Allied Chemical Corp Barrett  
 EVERLUM U S Aluminum Siding Corp  
 EVERSET Acme Brick Co  
 EVERSTIK-HERO Hayes Adhesives Co  
 EVERTEX Mosaic Tile Co  
 EVER-TIGHT Wagner Mfg Co  
 EVERWEAR LOUVERS Rudeen N H Co  
 EVERWARM HEATERS Everwarm Inc  
 EXECUTONE Executone Inc  
 EXPAND-R-STRAP Gerrard A J & Co  
 EXPEDITE Pratt & Lambert Inc  
 EXPLODED TIP Wooster Brush Co  
 EXTERCOTE National Chemical Mfg Co  
 EX-WOOD Lehman Co  
 E Z DU Imperial Color Chemical & Paper  
 EZEBILT Universal Mfg Corp  
 E-ZEE LOC Woodco Corp

E-ZEELOC Rockwell of Randolph Inc  
 EZELIFT BRACKETS Universal Mfg  
 E-Z-FLOAT ATTACHMENT Plastering  
 Development Center Incorporated  
 E-Z GLAZE Calbar Paint & Varnish Co  
 E-Z-ON Baltz Robert N & Co Inc  
 E-Z-ON CAULKING COMPOUND Baltz Robert N & Company Inc  
 E-Z-ON GLAZING COMPOUND Baltz Robert N & Company Inc  
 E-Z PATCH Sullivan Co The  
 E-Z ROLL Engineered Products Co  
 E-Z POST Inland Steel Products Co  
 E-Z POUR Inland Steel Products Co  
 E-Z SHELVING HARDWARE Standard Steel Works Incorporated  
 E-Z-TEX Plastering Development Inc  
 E-Z-TEX SPRAY UNIT Plastering Development Center Incorporated  
 E-Z-TROWEL Plastering Development  
 E-Z-WAY Ez-Way Sales Inc  
 EZY-BEAD Steel Corner Tape Corp  
 F L Farley & Loetscher Mfg Co  
 FPF Reese Metal Weatherstrip Co  
 F & W Flint & Walling Mfg Co Inc  
 FAB-FORM Pittsburgh Steel Products  
 FABRICO Woodco Corp  
 FABRIQUE Birge Co Inc  
 FABRICOTE Wasco Products Inc  
 FABRIKONA Fabrikona Inc  
 FABROW Fabrow Mfg Co  
 FACTROLITE Mississippi Glass Co  
 FAIENTEX Mosaic Tile Co  
 FAIRFIELD Ekco Products Co  
 FALLS CITY True Temper Corp  
 FAMOUS Goshen Churn & Ladder Inc  
 FAN-AIR Premier Furnace Co  
 FANAIRE Auer Register Co  
 FANON FONE Fanon Electronic Indus  
 FARLBORD Farley & Loetscher Mfg Co  
 FARLITE Farley & Loetscher Mfg Co  
 FARLORDOR Farley & Loetscher Mfg Co  
 FASCO Fasco Industries Inc  
 FASCO Ludlow Papers Inc  
 FASHION COLORS Sapolin Paints Inc  
 FASHION White-Rodgers Co  
 FASHIONEITE Sani-Top Inc  
 FASHION FAB Tetrick Bros Mfg Co Inc  
 FASHION-FAB WARDROBES Evergreen States Forest Products  
 FASHIONFOLD Hough Mfg Corp  
 FASHION PLATE Bryant Electrical Co  
 FASHIONWOOD Curtis Companies Inc  
 FASTINGE Leeds Edward & Co  
 FASTINGE NO-MORTISE Leeds Edward  
 FASTERIP United Gilsonite Laboratories  
 F C P LIQUID BOND Tamms Indus Co  
 FEATHERLITE Flint A W Co  
 FEATHER ROD Superior Scaffold Co  
 FEATHERWEIGHT Keasbey & Mattison  
 FEATHERWEIGHT (Ladders) Larson Ladder Company  
 FENESTA Fenestra Inc  
 FENMARK Fenestra Inc  
 FENWALL Fenestra Inc  
 FERALUN American Abrasive Metals Co  
 FERROBORD Republic Steel Corp  
 FERRO-FAX Horn A C Div Sun Chemical  
 FERROLITH Sonneborn L Sons Inc  
 FERRUBRON Carbolineum Wood Preserving Co  
 FESCO BOARD Johns-Manville Corp  
 FIBER-AIRE Swartwout Co  
 FIBERCAST Youngstown Sheet & Tube  
 FIBERESIN Fibresin Plastics Co  
 FIBERGLAS Owens-Corning Fiberglass  
 FIBERLITE Inalutite Division  
 FIBRA-TUB Cleveland Wash Tray Mfg  
 FIBRE FLEECE Insulation Industries Inc  
 FIBREKOTE National Mfg Corp  
 FIBRETONE Johns-Manville Corp  
 50-50 PUSH OVER Allith-Prouty Inc  
 52 CALCODA Calbar Paint & Varnish Co  
 FIGUREMASTER Marchant Division  
 FIGUREMATIC Marchant Smith-Corona  
 FILMEX Selby Batterby & Co  
 FILM-OFF Seidlitz Paint & Varnish Co  
 FILON Filon Plastics Corp

FILTER-FLO General Electric Appliance & Television Div  
 FILTER-PAK Sunroc Corp  
 FILZIT ZT Lux Co Inc  
 FINE/LINE Slant-Fin Radiator Alum Co  
 FIN-AWN-WIN Arnold Altex Alum Co  
 FINLAND HOUSE Litecraft Mfg Corp  
 FINGER-STRAP Gerrard A J & Co  
 FIRE-CHEX Carey Philip Mfg Co  
 FIRECRETE Johns-Manville Corp  
 FIRE-FOE Price Fire & Water Proofing  
 FIREFOIL Carey Philip Mfg Co  
 FIREHOOD Condon-King Co  
 FIREITE Johns-Manville Corp  
 FIRE-LOCK Kaul Clay Co  
 FIRE-SNUFF Resolite Corp  
 FIRESTONE VELON Plastic Woven Prods  
 FIRE STOP Bestwall Gypsum Co  
 FI ROK Celotex Corp  
 FIRTEX Kaiser Gypsum Co Inc  
 FIRZITE United States Plywood Corp  
 FITS-ALL Macklanburg-Duncan Co  
 FIVE STAR PLANS Better Homes and Gardens  
 FIXIT National Mfg Corp  
 FIXT-AIRE Hart & Cooley Mfg Co  
 FLAGCRETE General Concrete Prod Inc  
 FLAIR Buffalo Wallcraft Co Inc  
 FLAMEX Suburban Propane Gas Corp  
 FLEETLITE Fleet of America Inc  
 FLEETWOOD Crawford Door Co  
 FLEETWOOD Toledo Desk & Fixture Co  
 FLETCHER Fletcher-Terry Co  
 FLEXACHROME Pioneer Div Flintkote  
 FLEX-A-LITE Arnold Altex Alum Co  
 FLEXALUM Bridgeport Brass Co  
 FLEX A SWITCH Metzgar Conveyor Co  
 FLEXAZONE Drayton-Hanson Division  
 FLEXBOARD Johns-Manville Corp  
 FLEXCELL Celotex Corp  
 FLEX-CORNER Steel Corner Tape Corp  
 FLEXI-BILT FRAME KIT Firpine Prod  
 FLEXICO O'Brien Corp  
 FLEXICORE Flexicore Co Inc  
 FLEXI DUCT TAPE Wilson Grant Inc  
 FLEXIFONE Dukane Corp  
 FLEXIGUM Allied Chemical Corp  
 FLEX-O-GLASS Warp Brothers  
 FLEX-O-PANE Warp Brothers  
 FLEKO-SEAL Reese Metal Weatherstrip  
 FLEXROLLER Hypro Engineering Inc  
 FLEXROTOR Hypro Engineering Inc  
 FLEXSCREEN Bennett-Ireland Inc  
 FLEXSTONE Johns-Manville Corp  
 FLEX-SULATION Wilson Grant Inc  
 FLEXWOOD United States Plywood Corp  
 FLIGHT-VEYOR American Conveyor Co  
 FLINT EDGE True Temper Corp  
 FLINT LADDERS Flint A W Co  
 FLINTLITE Flint A W Co  
 FLIP-SEAL Rodale Manufacturing Co Inc  
 FLITE-CHEK Ramset Fastening System Winchester-Western Division  
 FLO-MASTER Acme Engineering & Mfg  
 FLOOR-KING American Floor Mach Co  
 FLOORLEVEL General Automatic Prod  
 FLOORLINE National-U S Radiator Corp  
 FLOORMASTER Atlas Floor Surfacing  
 FLOORSTONE Tamms Industries Co  
 FLOR-BLOX Tibbals Flooring Co  
 FLORDUCT Natl Elec Div H K Porter Co  
 FLOR-EVER Congoleum-Nairn Inc  
 FLOR-NU Coddington E D Mfg Co  
 FLOR-PATCH American Asbestos Prod  
 FLEXIVENT Andersen Corp  
 FLOW-GOLD Acme Industries Inc  
 FLOW-ON Barreled Sunlight Paint Co  
 FLOW PAC Acme Industries Inc  
 FLOW RACK Rapids-Standard Co Inc  
 FLOW-TEMP Acme Industries Inc  
 FLUID-TITE Keasbey & Mattison Co  
 FLUSHCALL Edwards Co Inc  
 FLUTEX Blue Ridge Glass Corp  
 FOAMASTER Atlas Floor Surfacing Corp  
 FOAMCOTE Crown Rubber Co  
 FOAMEDGE Sterling Alderfer Co  
 FOAMPLEX Mortel J W Co  
 FOAMGLAS Pittsburgh Corning Corp  
 FOAMSIL Pittsburgh Corning Corp



FOIL-CHAMP Ludlow Papers Inc  
 FOIL-GLASS Resolite Corp  
 FOL-BAK Holcomb & Hoke Mfg Co Inc  
 FOLD-ASIDE Acme Appliance Mfg Co  
 FOLD-A-WAY Patent Scaffolding Co  
 FOLD-A-WEIGH Standard Bldg Prds  
 FOLD-BACK Macklanburg-Duncan Co  
 FOLDET Gates Mfg Co Inc  
 FOLDOR Holcomb & Hoke Mfg Co Inc  
 FOOHOLD Behr-Manning Co  
 FOR-AIR Forrers Div Spray-O-Bond Co  
 FORCE-FLO Trane Co  
 FORDYCE ROYAL OAK Fordyce Lumber  
 FORECAST Congoleum-Nairn Inc  
 FORELINE Yoder Manufacturing Co  
 FORESTONE Simpson Logging Co  
 FORGE CRAFT Penn-Akron Corp  
 FORGEWELD Colson Corp  
 FORMBINDER Gerrard A J & Co  
 FORMCO Form Co  
 FORM FLO Standard Register Co  
 FORMFREE Mosaic Tile Co  
 FORMITY Form Co  
 FORTEX Fortex Industries Inc  
 FORUM Mirapolis Tile Co  
 FORWAY US Expansion Bolt Co  
 FOUR A Alabama Metal Lath Co Inc  
 400 LINE Masonite Corp  
 FOUR-IN-ONE SKID SHOVEL Drott  
 Manufacturing Corporation  
 FOUR POINT Wilbur & Williams Co  
 4-SQUARE Weyerhaeuser Co  
 4-WAY SAFETY PLATE Inland Steel Co  
 4-WAY WINDOWS Farley & Loetscher  
 FRAM Safe Padlock & Hdwe Co  
 FRATE-GATE Gar Wood Industries Inc  
 FRE-FLO Sequoia Manufacturing Co  
 FRENCH LOCK Certain-Teed Sales Corp  
 FRESH'ND-AIRE Cory Corp  
 FRICTEX Sonneborn L Sons Inc  
 FRICTION-MATIC Boice Crane Co  
 FRIGIDAIRE Frigidaire Div G M Corp  
 FRONT END Allied Chemical Corp  
 FROST BRAND Frost Forest Products  
 FUEL-DOOR Handley-Brown Co  
 FULLER BRIKARIER Fuller Mfg Co  
 FULLER TILE CARRIERS Fuller Mfg Co  
 FULL-VU Leigh Building Products  
 FULTEX Fulton Cotton Mills  
 FULTON TARPS Fulton Cotton Mills  
 FURLATH Inland Steel Products Co  
 FUSE-O-LINK Clark Door Co Inc  
 FUSIONBRAZED Higbie Mfg Co  
 FUSIONWELD Higbie Mfg Co Avon Tube  
 FUTURA Penn-Akron Corp  
 FUTURA Beauti-Dor Inc  
 FUTURA (Cabinets) Mirro Chrome Co  
 FUTURA (Tile) Mirapolis Tile Co  
 FYNAL-KOLOR Weatherbest Corp  
 FYNAL-KOTE Creo-Dipt Co Inc  
 FYNAL-KOTE Weatherbest Corp  
 FYRGARD Richmond Fireproof Door Co  
 G & P Grinding & Polishing Mach Corp  
 GE General Electric Co Apparatus Sales  
 GACOR WINKERS Eagle Electric Mfg Co  
 GAIR-LOCK Gairing Tool Co  
 GALVANUM Vita-Var Corp  
 GALVA-TEX Rockcote Paint Co  
 GALVA TWIST Jeffery Form Tie Co  
 GALVINOLEUM Rust-Oleum Corp  
 GARAGE DOR-MAN Dor-O-Matic Div  
 GARDENCRETE Colorcrete Industries  
 GARD-N-BEAUTY Gilbert & Bennett Co  
 GARLAND Welbilt Stove Co  
 GARNET Behr-Manning Co  
 GASAVER Williamson Co  
 GAS DE LUXE Williamson Co  
 GASLITES Arkla Air Conditioning Corp  
 GAS-O-MATIC Williams Oil-O-Matic Co  
 GAS SPECIAL Williamson Co  
 GAS SUPER Williamson Co  
 G-B DUCT Gustin-Bacon Mfg Co  
 GEE-VEE-LINE Gee Vee Line  
 GEMCO Moore Goodloe E Inc  
 GEM-SET Bay State Abrasive Products  
 GENASCO Fry Lloyd A Roofing Co  
 GENCASEAL General Cable Corp  
 GENCATROL General Cable Corp

GENERAL Great Northern Mfg Corp  
 GENERAL General Bathroom Prod Corp  
 GENERAL (Tools) General Hdwe Mfg Co  
 GENERAL GIBRALTAR General Ply-  
 wood Corp  
 GENIE Alliance Manufacturing Co Inc  
 GENERALAC Sapolin Paints Inc  
 GENUWOOD Parkwood Laminates Inc  
 GERITY Hoover Bathroom Accessories  
 GER-PAK Gering Plastics  
 GETTY Getty H S & Co Inc  
 GIBRALTAR Flat Metal Mfg Co  
 GILBARCO Gilbert & Barker Mfg Co  
 GLAMADOR Northern Industries Inc  
 GLAMOUR Farley & Loetscher Mfg Co  
 GLASBARS Owens-Illinois  
 GLASFLEX Horn A C Div Sun Chemical  
 GLAS-GLAZ American Vitrified Prods  
 GLAS-GLAZ United Gilsonite Lab  
 GLASIRON Wolverine Porcelain Co  
 GLASSHEAT Continental Radiant Glass  
 GLASS-O-NET Warp Brothers  
 GLASSURFAC Kirin Co  
 GLASTITE Ludlow Papers Inc  
 GLASWELD United States Plywood Corp  
 GLATEX United States Gypsum Co  
 GLAZECOAT Johns-Manville Corp  
 GLAZING FLATS Resolite Corp  
 GLAZOL United Gilsonite Laboratories  
 GLAZON Triangle Conduit & Cable Co  
 GLENDURA SOIL-PROOF WALL-COV-  
 ERINGS Imperial Color Chemical Corp  
 GLIDE Frantz Mfg Co  
 GLIDE-ALL Woodall Industries Inc  
 GLIDE-AWAY Farley & Loetscher Mfg  
 GLIDEMASTER Arthur Cox & Sons Inc  
 GLIDE-O-MIR Great Northern Mfg Corp  
 GLIDE-O-MIR General Bathroom Prod  
 GLIDEOVER Wagner Mfg Co  
 GLIDEX Caldwell Mfg Co  
 GLIDER Momar Industries  
 GLID-TONE Glidden Co  
 GLIDORAMA Whizzer Industries Inc  
 GLISTO Sapolin Paints Inc  
 GLITTER Congoleum-Nairn Inc  
 GLOBE-ALUME Globe Roofing Prod Co  
 GLOBEROID Globe Paint Works Inc  
 GLO-FLEX Globe Paint Works Inc  
 GLOGOG Strait & Richards Inc  
 GLONAMEL Globe Paint Works Inc  
 GLOS-TONE Martin-Senour Co  
 GLULAM-BEAMS Jones Industries  
 GLYDE-WIN Arnold Altex Aluminum  
 GOLD BAK Alisco Inc  
 GOLD BOND National Gypsum Co  
 GOLD CROWN Pioneer Gen E Motor  
 GOLD MEDAL Patent Scaffolding Co  
 GOLD-METAL STAIRS Tenn Fabricating  
 GOLD SEAL Reese Metal Weatherstrip  
 GOLD-SEAL Textron Metals Co  
 GOLD STRAND Colorado Fuel & Iron  
 GOLD SEAL (Tools) Dalton Mfg Co  
 GOLD TIP Fletcher-Terry Co  
 GORDON DOOR Gordon Mfg Co  
 GOSSETT Kees F D Mfg Co  
 G P X Georgia Pacific Corp  
 GRAIN SHAKE Jones & Brown Inc  
 GRAIN-TEX Jones & Brown Inc  
 GRAINGLO Puget Sound Plywood Inc  
 GRAND PRIZE United States Gypsum Co  
 GRANDVIEW Miami Cabinet Div  
 GRANITEX Mosaic Tile Co  
 GRANITEX Truscon Labs Inc  
 GRANOLITH Barreled Sunlight Paint Co  
 GRAVEL-SPREADER Air Placement Co  
 GRAYLITE Insulite Division  
 GRAYS HARBOR Mackie Mill Co  
 GRAYSTONE Graystone Inc  
 GREASEPTOR Zurn Industries Inc  
 GREENCON Clipper Mfg Co  
 GREEN-LABEL Johnsons Wax  
 GREEN TWEED Slaymaker Lock Co  
 GRENADIER Wakefield Co  
 GRIDTONE Armstrong Cork Co  
 GRIDVUE Air Vue Products Corp  
 GRIFFIN Griffin Mfg Co  
 GRILLADIER Bennett-Ireland Inc  
 GRIND-O-FLEX Merit Products Inc

GRIP-O-MATIC Owatonna Tool Co  
 GRIP-ON Allied Compositions Co Inc  
 GRIP-SNIP Sargent & Co  
 GRIPFAC B & T Metals Co  
 GRIP TRED Flexstone Corp of America  
 GRITCLOTH Bay State Abrasive Prods  
 G S D Glass Shower Door Co Inc  
 GUARD Columbus Coated Fabrics Corp  
 GUARDIAN (Lockset) Corbin P & F Div  
 GUARDIAN Pittsburgh Plate Glass Co  
 GUARDIAN General Cable Corp  
 GUARDIAN (Wire) General Cable Corp  
 GUIDE-O-MATIC Barrett Cravens Co  
 GULFSPRAY Binswander Glass Co  
 GULFSTAR Binswander Glass Co  
 GULF STREAM Aldrich Co  
 GUM-BESTOS Wilson Grant Inc  
 GYP C DOODLE Gypsum Ceiling Jack  
 GYP C HORSE 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 Hunter Douglas  
 H & H Arrow Hart & Hegeman Elec Co  
 HACKMASTER American Saw & Mfg Co  
 HADDON HALL Wood-Mosaic Corp  
 HAKO PRODUCTS Hoechstmeister-Inc  
 HALSEY TAYLOR Taylor Halsey W Co  
 HAMILTON Remington Alum Window  
 HAMMER-SETS Rawplug Co Inc  
 HAM-R-TOOLS Fastway Fasteners Inc  
 HANDI-COIL B & T Metals Co  
 H & P BRAND Hassell & Parkes Inc  
 HANDIE TALKIE Motorola Communica-  
 tions & Electronics Co  
 HANDY PLASTER Coddington E D Mfg  
 HAN-D-POST Sawhill Tubular Products  
 HANMOLE Molco Drilling Machines Inc  
 HARBOR DOR Harbor Plywood Corp  
 HARBORITE Harbor Plywood Corp  
 HARBOR KRAFTWOOD Harbor Plywood  
 HARBOR PARCORE Harbor Plywood  
 HARBOR WAVE Harbor Plywood Corp  
 HARCO Veach-May-Wilson Inc  
 HARCO BRAND Hardwood Corp of Am  
 HARCOL Sonneborn L Sons Inc  
 HARD-GLOSS Johnson's Wax  
 HARDLAP Insulite Div  
 HARD-TIP Heinemann Saw Corp  
 HARGRAVE Cincinnati Tool Co  
 HARMONITONE Mosaic Tile Co  
 HARRIS BRAND Harris Hardwood Co  
 HART COLLECTION Donnelly-Kelley  
 Glass Company  
 HARTGLAS Hartglass Corp  
 HAR-VEY American Screen Products Co  
 HASKO Hascelite Mfg Corp  
 HASTINGS Hastings Alum Prods Inc  
 HAWK SPREAD Ohio Lime Co  
 HAWS-KRAMER Haws Drinking Faucet  
 HAYES Gerber Plumbing Fixtures Corp  
 HEADERDUCT National Electric Div  
 HEATFORM Superior Fireplace Co  
 HEATLATOR Vega Industries Inc  
 HEATLUX Johnson S T Co  
 HEAT-PAK Aldrich Co  
 HEATRITRUE Auer Register Co  
 HEAT VALVE Swartwout Co  
 HEETAIRES Markel Electric Prods Inc  
 HEP-T-POST Sawhill Tubular Prods Inc  
 HELIX Caldwell Mfg Co  
 HELYX Hillwood Mfg Co  
 HERCULES Mellink Steel Safe Co  
 HERCULES Newark Ladder & Bracket  
 HERCULES Sargent & Co  
 HERCULITE Pittsburgh Plate Glass Co  
 HERCULLOY Revere Copper & Brass Inc  
 HERMAN NELSON American Air Filter  
 HERMIDIFIERS Abbeon Supply Co  
 HERMITAGE Leathers A H Mfg Co  
 HERMOSA Gladding McBean & Co  
 HERRINGBONE Merwin Mfg Co  
 HERRINGBONE DOUBLE MESH Repub-  
 lic Steel Corp Truscon Div  
 HEXCAST U S Expansion Bolt Co  
 H H 500 HANDY HORSE Federal Hdwe  
 H H 530 HANDY HORSE Federal Hdwe

HI-BOY Airtemp Div Chrysler Corp  
 HICO Hico Corp of America  
 HI-CAP Rempe Co  
 HIDALIFT Turner & Seymour Mfg Co  
 HIDE-A-SHELF Amerock Corp  
 HIDE-A-WAY Acme Natl Refrig Co Inc  
 HIDEWAY Newark Ladder & Bracket  
 HI-DUTY Chicago Spring Hinge Co  
 HI-ELECTRIC Maginnis Power Tool Co  
 HI-ELECTRIC Independent Lock Co  
 HIGHLANDER Miami Window Corp  
 HI-LINE Lufkin Rule Co  
 HI-LINE Weatherproof Prods Corp  
 HI-LITE Farley & Loetscher Mfg Co  
 HI-LITE United States Gypsum Co  
 HILO Frantz Mfg Co  
 HILO Nudor Mfg Corp  
 HI LO Peninsula Tool Co Inc  
 HI-LOAD Independent Nail & Packing  
 HI & LO Utica Radiator Corp  
 HILTI Hilti Rapid Fastening Systems Inc  
 HI-RATE General Water Heater Corp  
 HI-RED Holub Industries Inc  
 HI-SPEED Baughman Mfg Co Inc  
 HI-SPEED Louisville Cement Co  
 HI-STYLE Jones & Brown Inc  
 HOE-BOY Construction Machinery Co  
 HOIST-ALL Coffing Hoist Duff-Norton  
 HOIST MASTER Smith Hoist Mfg Co  
 HOL ANCHOR Hollaender Mfg Co  
 HOLESHOOTERS Milwaukee Elec Tool  
 HOLD-IT Arro Expansion Bolt Co  
 HOLFORD Hopes Windows Inc  
 HOLLGUN Black & Decker Mfg Co  
 HOLIDAY Burnham Boiler Corp  
 HOLIDAY Winter Seal Corp  
 HOLIDAY (Storm Window) Textron  
 Metals Company  
 HOLOFLUX Holophane Co Inc  
 HOME-CRETE Corson G & W H Inc  
 HOMEGARD Russell & Erwin Div  
 HOMEGUARD Pal-O-Pak Insulation Co  
 HOMELIFT Shepard Elevator Co  
 HOMELITE Homelite Div Textron Inc  
 HOMES FOR LIVING INC Architectural  
 Plan Service Inc  
 HOMOFLEX Raybestos-Manhattan Inc  
 HOODAIRE Hearthaire Conditioning Co  
 HOOK-TOOTH American Saw & Mfg Co  
 HOPPY TRANSIT Hopkins Mfg Co  
 HOPTO Badger Div Warner & Swasey  
 HORIZON TILE Cambridge Tile Mfg Co  
 HORNFLX Horn A C Companies  
 HORN OF PLENTY Ajax Hardware Corp  
 HORTON UNIVERSAL Horton Mfg Co  
 HOUR SEAL O'Brien Corp  
 HOUSEMART Roddis Plywood Corp  
 HOWELL Kol-Master Corp  
 HOWELL-DOR Howell Mfg Co  
 HOWELL-TITE Howell Mfg Co  
 HPC SOUND INSULATING DOORS  
 Hardwood Products Corp  
 HUBBELLOCK Hubbell Harvey Inc  
 HUDEE Selck Walter E & Co  
 HUDSON Tilley John S Ladders Co Inc  
 HUETEX American-Saint Gobain Corp  
 HUEWHITE American-Saint Gobain Corp  
 HUF CORP Hough Mfg Corp  
 HUGADOR B & T Metals Co  
 HUMPHREY GAS LIGHTS General Gas  
 Light Co  
 HUNT PROCESS Carter-Waters Corp  
 HUSH-MATIC Swanson Mfg Co  
 HUSH-TONE Celotex Corp  
 HUSKY Zoss Ladder & Mfg Co  
 HV-CENTRIFUGAL Decatur Pump Co  
 HYDRA-HAMMER Ottawa Steel Div  
 HYDRANOID General Controls Co  
 HYDRAPATCH Seddon Co  
 HYDRASPLIT Park Tool Co  
 HYDRAULIC ACTION White-Rodgers Co  
 HYDRA-WAY Ottawa Steel Div  
 HYDROCIDÉ Sonneborn L Sons Inc  
 HYDROCIDÉ COLORCOAT Sonneborn  
 L Sons Inc  
 HYDRO-FLO Bell & Gossett Co  
 HYDRO-LINE Skyline Industries Sales  
 HYDROGUARD Powers Regulator Co

HYDROPEL American Bitumuls & As-  
 phalt  
 HYDRO-PLUG Camp Co Inc  
 HYDROTHERM Hydrotherm Inc  
 HYDRO-TITE Slant-Fin Radiator Corp  
 HYPRO Hypro Engineering Inc  
 HYSTAWAY Hyster Co  
 HYDROXOLATOR Outdoor Oven Fire-  
 place Co  
 I-BEAM Farley & Loetscher Mfg Co  
 IDA-DOOR Ida Products Co  
 IDAMATIC Ida Products Co  
 IDA-TILT Allied Chem Corp Barrett Div  
 IDA-TILT Ida Products Co  
 IDEAL Extension Drawer Support Co  
 IDEAL Ideal Vent Div Craig-Nevens  
 IDENTI-GRAIN Bellwood Co of Calif  
 IDOR Ador Corp  
 IGAS Sika Chemical Corp  
 ILCO Independent Lock Co  
 ILCO Indiana Limestone Co Inc  
 IMPERIAL Air Control Products Inc  
 IMPERIAL (Block Machines) Lithbar Co  
 IMPERIAL Miller Co  
 IMPERIALITES Emerson-Imperial Lig Co  
 IMPERIAL SPEEDMASTER Handley-  
 Brown Company  
 IMPERIAL WEATHERWALL Sun Val-  
 ley Industries Inc  
 IMPERVO Hanley Co  
 IMPERVO ENAMEL Moore Benjamin  
 INADOR DOOR CLOSER Norton Door  
 IN-A-WALL CLOCK Wisconsin Clock Co  
 INCINOR Incineration Div Bowser Inc  
 INCLINE TRACK King Mfg Co  
 INCLINETTE Inclinator Co of America  
 INCLIN-ATOR Inclinator Co of America  
 INCOR Lone Star Cement Corp  
 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 Co  
 INLAND TI-NAMEL Inland Steel Co  
 INSELBRIC Jones & Brown Inc  
 INSELSTONE Jones & Brown Inc  
 INSELUM Jones & Brown Inc  
 INSELUM SHAKE Jones & Brown Inc  
 INSELWOOD Jones & Brown Inc  
 INSL-COTTON Taylor Bedding Mfg Co  
 INSPECTOR Zurn Industries Inc  
 INSTANT-FIT Universal Fabricators  
 INSTANT HEAT Emerson-Pryne Co  
 INSTO-GAS Insto-Gas Corp  
 INSTO-HOT Insto-Gas Corp  
 INSULAYMENT BOARD Camp Co Inc  
 INSULFIL Miracle Adhesives Corp  
 INSULKOTE Johns-Manville Corp  
 INSULPRENE Hubbell Harvey Inc  
 INSULROCK Pioneer Div Flintkote Co  
 INTEGRALOCK Sargent & Co  
 INTER-CALL Music & Sound Inc  
 INTERCOTE National Chem & Mfg Co  
 INTER-LINK Cable Electric Prods Inc  
 INTERMATIC International Register Co  
 INVINCIBLE DOOR Jasco Alum Prods  
 INVINCIBLE Fry Lloyd A Roofing Co  
 INVISIBLE DOR-MAN Dor-O-Matic Div  
 IRONBOUND Robbins Flooring Co  
 IRON-COTE Sullivan Co The  
 IRONRITE Ironrite Inc  
 IVANHOE Miller Co  
 IVORY United States Gypsum Co  
 IVORY-X Pass & Seymour Inc  
 I-XL LAVANITIES I-XL Furniture Co  
 J-M Johns-Manville Corp  
 J M Burnham Corp Warm Air & Cooling  
 J N BRAND Cook F C & Co  
 JACK FROST Allied Chem Barrett Div  
 JACKLIFT Lewis-Shepard Products Inc  
 JACK RABBIT Hubbell Harvey Inc  
 JACKSON Gerber Plumbing Fixtures  
 JACKSON Vulcan Electric Co  
 JACKTRACTOR Lewis-Shepard Prods  
 JACQ Luxor Carpet Co

JACUZZI Jacuzzi Bros Inc  
 JALOUSIE Vulcan Metal Prods Inc  
 JAL ZINC Jones & Laughlin Steel Corp  
 JAMBEX Beadex Sales Inc  
 JAMB-UP Macklanburg-Duncan Co  
 JAYCANDESCENT Jay Lighting Mfg Co  
 JAY-LITES Jay Lighting Mfg Co Inc  
 JAYS ANZAC Jay Lighting Mfg Co Inc  
 JAYS CORONET Jay Lighting Mfg Co  
 JAYS PARASOL Jay Lighting Mfg Co  
 JAYS VISORLITE Jay Lighting Mfg Co  
 JEEP Willys Motors Inc  
 JELCO Jenkins Lumber & Mfg Co  
 JET-AGE McPherson Inc  
 JETBLAK Ruberoid Co  
 JET-BLASTERS Air Placement Equip Co  
 JET E-Z Jet Tool Inc  
 JET-LINE Wilson Grant Inc  
 JET LITE Wood Shovel & Tool Co  
 JET-O-MATIC Goulds Pumps Inc  
 JETO Lake Shore Inc  
 JET ROCKET True Temper Corp  
 JET-TOWER Youngstown Kitchens  
 JEWEL Master Lock Co  
 JEWEL (Paint) Jewel Paint & Varnish  
 JIFFY-E-PLUGS Ackerman Johnson Co  
 JIFFY-SOAK Tiger Brands Div Basic Inc  
 JIFFY Angel Co  
 JIFFY Grand Haven Stamped Products  
 JIFFY 2 WAY Zoss Ladder & Mfg Co  
 JIFFY JACKS Superior Scaffold Co  
 JIFFY JOINT Cannelton Sewer Pipe Co  
 JIFFY-JOINT Texas Vitrified Pipe Co  
 JIM DANDY True Temper Corp  
 JMJ CUTTER J M J Industries Inc  
 JOHN DAY Hines Edward Lumber Co  
 JOINTSAVER Texas Vitrified Pipe Co  
 JUBILEE Burnham Boiler Corp  
 JUNIOR Sun Valley Industries Inc  
 JUNIOR BEAMS Jones & Laughlin Steel  
 JUNIOR CHANNELS Jones & Laughlin  
 K & M Keasbey & Mattison Co  
 K-V Knappe & Vogt Mfg Co  
 KAAR IMP Kaar Engineering Corp  
 KAB KOOLER Onan D W & Sons Inc  
 KAIBAB STONE Western States Stone  
 KAISER Permanente Cement Co  
 KAISERCOUSTIC Kaiser Gypsum Co Inc  
 KALISTRON United States Plywood  
 KALITEX United States Plywood Corp  
 KALOK Kaul Clay Co  
 KANT-LEAK Sullivan Co  
 KANT-SAG United Steel Products Co  
 KANT-SLAM Kant-Slam Door Check Co  
 KANT-SLIP Standard Register Co  
 KARRY KRANE Hyster Co  
 KAUKIT Sonneborn L Sons Inc  
 KAY LEE Ductless Hood Co Inc  
 KEILSON Bommer Spring Hinge Co Inc  
 KELCO Kelco Div Wells Aluminum Corp  
 KELLEY BANTAM Kelley Machine Div  
 KELLEY BOX Kelley Machine Div  
 KELLEY CHIEF Kelley Machine Div  
 KELLEY HYDRA-TOWEL Kelley Ma-  
 chine Div Wiesner-Rapp Co Inc  
 KELLY PERFECT True Temper Corp  
 KEMI-KAL Sullivan Co The  
 KENCO Kenco Mfg Co  
 KENCORV Kentile Inc  
 KENCORV Kentile Inc  
 KENFLEX Kentile Inc  
 KENFLOR Kentile Inc  
 KENGRADE Kentile Inc  
 KENNAFRAME Kennatrack Corp  
 KENNAGUIDE Kennatrack Corp  
 KENNALATCH Kennatrack Corp  
 KENNALOCK Kennatrack Corp  
 KENNA-PAK Kennatrack Corp  
 KENNA-RAMA Kennatrack Corp  
 KENNOLOY Kennatrack Corp  
 KENRUBBER Kentile Inc  
 KENT Speakman Co  
 KENTILE Kentile Inc  
 KENTUCKY Rich Howard B Inc  
 KENTUCKY COLONEL General Plywood  
 KERNERATOR Kerner Incinerator Div  
 KETCHAM Kessler Products Co

(Brand names are continued  
on page 118)

Services, models, financial set-ups of all prefab manufacturers are included here. Firms are listed alphabetically, by state. For further information or literature, turn to the reply card on page 19 and circle matching numbers.

## ALABAMA

**KINGSBURY HOMES CORP.**, Fort Payne, Alabama.

Firm distributes in 350 mi. radius. Has 38 basic plans. Sells through builder-dealers at prices from \$1,995 to \$8,272 f.o.b. Offers own financing plan. Thick catalog and separate model guide give detailed floor plans, color drawings, facsimile of blueprint. Circle No. A460 on page 19.

## CONNECTICUT

**FEDERAL HOMES CORPORATION**, Canaan, Conn.

Firm distributes in 250 mi. radius. Has 20 basic plans. Sells to builders at prices from \$3,000 to \$9,000 f.o.b. Delivers in two to three weeks.

## 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. For more details: Circle No. A461, page 19.

## FLORIDA

**PANELFAB PRODUCTS, INC.**, 2000 N. E. 146th St., N. Miami, Fla.

Firm distributes nationally, has "no limit" on number of basic plans. Sells through dealers or to builders at prices from \$2,000 to \$15,000 f.o.b. Delivers from one week to one month. Type of financing is arranged. Catalog describes package as featuring stressed-skin, structural sandwich panels. For complete information contained in catalog: Circle No. A462, page 19.

**TRENDLINE COMPONENTS**, 700 43rd St. S., St. Petersburg, Fla.

Firm distributes throughout Florida. Has 25 basic plans. Sells to builders at prices from \$1,850 to \$4,450 f.o.b. Delivers in one week. Offers own financing plan. Literature describes package as complete, exclusive of plumbing and electrical, and adaptable to masonry construction. For more complete information: Circle No. A463, page 19.

## ILLINOIS

**CRAFT WAY, INC.**, 850 Rathbone Ave., 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. Basic package features wall panels with doors hung, windows in, partitions and trusses assembled.

**W. G. BEST HOMES CO.**, U.S. Rt. 45 S., Effingham, Ill.

Firm distributes in 350 mi. radius, has 20 basic plans. Sells through authorized builder-dealers at prices from \$2,100 to \$9,000 f.o.b. Delivers in approximately ten days. Offers own financing plan. Literature describes package that consists of exterior panels conventionally framed, with windows and doors installed. Optional items. Circle No. A464, page 19.

**CMC HOMES INC.**, 6306 N. Cicero Ave., Chicago 46, 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 regular financing methods. Catalog sheets shows wide variety of models, floor plans. Lab report on roof panels comes under separate cover. Circle No. A465, page 19.

**GOLD STAR HOMES, INC.**, Rome, Ill.

Firm distributes in 400 mi. radius. Has 75 basic plans. Sells through dealers or to builders at prices from \$2,700 to \$10,000 f.o.b. Delivers in ten days. Offers own financing plan. Thick catalog gives color drawings, floor plans, picture story of house erection. Circle No. A466, page 19.

**THURO BILT HOMES, THURO BILT PRODS INC.**, Fairbury, Ill.

Firm distributes in 350 mi. radius, has 25 basic plans. Sells through dealers or to builders at prices from \$1,900 to \$3,700 f.o.b. Delivers in 10 to 14 days. Offers own financing plan. Catalog describes material specifications of package, gives drawings, floor plans, sketches of models. Circle No. A467, page 19.

## INDIANA

**ALLEN INDUSTRIES, INC.**, Bldg. 107 Baer Field, Fort Wayne, Ind.

Firm distributes in four states. Has 15 basic plans. Sells to builders at prices from \$2,306 to \$5,400 f.o.b. Delivers in seven days. Helps arrange financing through brokers, insurance firms. Catalog describes package of aluminum windows, screens and storm sash installed. Ex-

terior doors and stormdoors are installed, with insulating sheathing applied. Circle No. A468, page 19.

**BROOKS HOMES CORP.**, Chandler, Ind.

Firm distributes in 200 mi. radius, has 75 basic plans. Sells through builders at prices from \$2,700 to \$9,500 f.o.b. Delivers in two weeks. Literature describes package as completely framed, wiring roughed in, and dry wall factory applied. Circle No. A469, page 19.

**COLPAERT HOMES, INC.**, 445 N. Sheridan, South Bend 19, Ind.

Firm distributes in 150 mi. radius. Has 13 basic plans. Sells through franchised builders at prices from \$2,440 to \$3,545 f.o.b. Delivers in two weeks. Offers own financing plan. Catalog describes package which is combination of panelized wall sections, gives floor plans, elevations. Circle No. A470, page 19.

**GENERAL HOMES, DIVISION OF GENERAL INDUSTRIES, INC.**, 3033 Wayne Terrace, Fort Wayne, Ind.

Firm distributes in 450 mi. radius. Has eight basic plans. Sells through dealers at prices from \$4,350 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 and elevations. Circle No. A471 on page 19.

**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. A472 on page 19.

**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. A473, page 19.

**PLACE HOMES, INC.**, 1212 S. Walnut St., South Bend, Ind.

Firm distributes in nine states, has six basic plans. Sells to franchised builders at prices from \$2,795 to \$3,495 f.o.b. Offers own financing plan. Literature describes newest package featuring large family room, two storage rooms and full overhead storage. Circle No. A474 on page 19.

**PRECISION HOMES, DIVISION OF ACME BUILDING MATERIALS, INC.,** 5235 Winthrop Ave., Indianapolis, Ind.

Firm distributes in five states. Has 14 different plans. Sells to builder-dealers at prices from \$2,599 up, f.o.b. Delivers in three to eight days. Regular methods of financing. Literature elaborates on package with pre-cut floor framing, paneled walls, partitions, gables, siding. Circle No. A475, page 19.

**RICHMOND HOMES, INC.,** Sheridan & N.W. L St., Richmond, Ind.

Firm distributes in 250 mi. radius. Has 26 basic plans. Sells through dealers at prices from \$2,780 to \$4,715 f.o.b. Delivers in one to two weeks. Offers own financing plan. Literature features 14 design variations, in color, of latest model, floor plans, outlines of storage wall units. Circle No. A476 on page 19.

**UNITED STATES STEEL HOMES DIVISION,** Charlestown Rd., New Albany, Ind.

Firm distributes east of Omaha, north of Mason-Dixon line. Sells through dealers at prices from \$2,600 up, f.o.b. Delivers "immediately." Offers own financing plan. Literature elaborates on package that includes all components in house. Circle No. A477, page 19.

## IOWA

**KOZY MFG. CO.,** Exira, Iowa

Firm distributes in 450 mi. radius. Has 43 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. House package consists of exterior walls in sections, insulation sheathing applied, trussed rafters on gabled hip roofs. No. A478 on page 19.

## KANSAS

**WADSWORTH HOMES INC.,** 2949 Chrysler Rd., Kansas City 15, Kan.

Firm distributes in 500 mi. radius. Has 24 basic plans. Sells to builders at prices from \$2,000 to \$8,000 f.o.b. Delivers in ten days. Uses regular financing methods. Catalog sheets show drawings, floor plans of various models. Package consists of exterior sections made up with either plywood or insulation board boxing. Circle No. A479 on page 19.

## LOUISIANA

**CRAWFORD CORPORATION,** P.O. Drawer 2551, Baton Rouge, La.

Firm distributes in South and Southeast. Has 27 basic plans. Sells to builder-dealers at prices from \$1,999 to \$9,395 f.o.b. Delivers in ten days. Offers own financing plan. Literature covers housing package which is complete except for plumbing, wiring. No. A480, page 19.

## MAINE

**MORGAN C. ELMER, INC.,** Rockland, Me.

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. No. A481, page 19.

## MARYLAND

**DIXIE HOMES, Rt. 1, Box 339-A,** Upper Marlboro, Md.

Firm distributes in 300 mi. radius. Has 14 basic plans. Sells through dealers or to builders at prices from \$2,400 to \$5,500 f.o.b. Delivers 20 days from receipt of order. Uses regular financing methods. Literature consists of folders on models, with floor plans. No. A482, p. 19.

**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 eight basic plans. Sells to builders at prices from \$2,500 to \$5,500 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, etc. Circle No. A483, p. 19

**PRECISION QUALITY BUILT HOMES, INC.,** Milford Mill Rd. & W. Md. RR, 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. No. A484, page 19.

## MASSACHUSETTS

**ASSEMBLED HOMES, INC.,** 40 Holton St., Winchester, Mass.

Firm distributes in seven states. Has 15 basic plans. Sells through dealers and to builders at prices from \$3,500 to \$5,500. Delivers in three to six weeks. Offers own financing plan. Literature illustrates nine models, gives floor plans. Wall panels, gable ends, interior partitions are pre-assembled. Circle No. A485, page 19.

**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 \$1,800 to \$7,000 up, f.o.b. Delivers in three weeks. Bank does financing. Literature is available on package that consists of pre-cut joists and sub flooring, roof trusses, gables and interior partitions, etc. Circle No. A486 on page 19.

**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. A487 on page 19.

**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 45 days. Literature is available on package which consists of room-size exterior panels complete with siding. Circle No. A488 on page 19.

**TECHBUILT, INC.,** 127 Mt. Auburn St., Cambridge, Mass

Firm distributes east of Mississippi. Has 19 basic plans. Sells through dealers or to builders at prices from \$1,980 to \$11,425 f.o.b. Delivers in three weeks. Uses regular financing methods. Literature describes package that includes exterior walls, roofs, floors, laminated beams, aluminum windows, prehung doors. Circle No. A489, page 19.

## 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. No. A490, p. 19.

**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. Circle No. A491, p. 19.

**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 \$4,500 f.o.b. Delivers in two weeks. Assists in obtaining financing. Catalog sheets show models in color, floor plans, special features. Basic package consists of prefab wall panels, with siding, insulation and windows installed. Circle No. A492, p. 19.

**MANUFACTURED HOMES INC.,** 330 S. Kalamazoo Ave., Marshall, Mich.

Firm distributes in 500 mile 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. Circle No. A493, p. 19.

**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. Circle No. A494 on page 19.

**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. Circle No. A495, p. 19.

**SERVICE HOME MFG. CO.,** 395 54th St., S.W., Grand Rapids 8, Mich.

Firm distributes in two states. Has 30 basic plans. Sells through builder-dealers at prices from \$2,900 to \$15,000 f.o.b. Delivers in ten days. Offers own financing plan. Catalog includes many sheets giving drawings and floor plans. Circle No. A496, p. 19.

**UNIVERSAL HOMES, INC.,** 271 First St., Milan, Mich.

Firm distributes in six states, has ten basic plans. Sells through dealers or to builders at prices from \$3,500 up, f.o.b. Delivers in two weeks. Catalog gives

specifications and prices of basic package. Also features floor plans, drawings, variety of models. Circle No. A497 on page 19

## MINNESOTA

**NORTHERN HOMES MFG. CO.**, 6200 Wayzata Blvd., Minneapolis 16, Minn.

Firm distributes in 500 mi. radius. Has 30 basic plans. Sells to builders at prices from \$2,500 to \$5,000 f.o.b. Delivers in five days.

**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. Circle No. A498 on page 19.

**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 \$1,800 to \$9,500 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. No. A499, p. 19.

## 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. Firm also does all plumbing, heating, wiring above foundation. Circle No. A500 on page 19.

**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. A501, p. 19.

**STANDARD HOMES CO.**, 4400 Roe Blvd., Kansas City 3, Mo.

Firm distributes in 500 mi. radius. Has 12 basic plans. Sells to builders at prices from \$3,000 to \$8,000 f.o.b. Delivers in 10 to 14 days. Uses regular financing methods. Catalog contains drawings, floor plans, photos of models. Complete specifications. No. A502, p. 19.

**WILSON HOMES, INC.**, Box 6206, Lambert Field, Mo.

Firm distributes in 400 mi. radius. Has ten basic plans. Sells through builder-dealers at prices from \$8,000 to \$30,000 f.o.b. Delivers in 15 days. Offers construction financing plan. Catalog details specifications of package, all models, floor plans. Circle No. A503, p. 19.

## 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. De-

livers 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. No. A504, p. 19.

## NEBRASKA

**PERMCO MFG. COMPANY**, Peru, Neb.

Firm distributes in 500 mi. radius, has 24 basic plans. Sells through dealers at prices from \$5,000 to \$7,500 f.o.b. Delivers in three weeks. Uses regular financing methods. 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 \$3,800 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. A505 on page 19.

## NEW YORK

**ALLEGHANY HOMES CORPORATION**, 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. No. A506, p. 19.

**BUSH HOMES, INC.**, Second St. & Lenox Rd., Huntington Station, L.I., N.Y.

Firm distributes in 350 mi. radius. Has 47 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 deck framing, sheathed walls, doors and windows installed. Drawings, floor plans of models. No. A507, p. 19.

**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. A508 on page 19.

**NORTHERN HOMES, INC.**, Hudson Falls, N.Y.

Firm distributes in New York and New England states. Has 40 basic plans. Sells through dealers or to builders at prices from \$3,000 to \$7,000 f.o.b. Delivers in two to three weeks. Uses regular financing methods. Catalog gives wide variety of models, floor plans, drawings, specifications. No. A509, p. 19.

## 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. Circle No. A510, p. 19.

**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. Circle No. A511, p. 19.

**INLAND HOMES CORP.**, Box 915, Piqua, Ohio.

Firm distributes in 24 states. Has 48 basic plans. Sells through dealers at prices from \$1,700 to \$4,000 f.o.b. Delivers in seven days. Offers own financing plan. Catalog describes package, gives color drawings of many models, drawings, specifications. No. A512, p. 19.

**METROPOLITAN HOMES, INC.**, 721 W. Columbia St., Springfield, Ohio.

Firm distributes in four states. Has eight basic plans. Sells to builders at prices from \$2,500 to \$6,500 f.o.b. Uses conventional financing methods. Literature describes package of full wall panels, insulating sheathing or stressed skin panels. Circle No. A513 on page 19.

**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. No. A514 on page 19.

**PEASE WOODWORK CO. INC.**, 900 Forest Ave., Hamilton, Ohio.

Firm distributes in 400 mi. radius. Has 10 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. No. A515, p. 19.

**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. A516 on page 19.

**THE PANA HOUSE**, 3716 W. 143rd St., Cleveland 11, Ohio.

Firm distributes in 300 mi. radius. Has 20 basic plans. Sells through dealers at prices from \$2,300 to \$7,200 f.o.b. Delivers in ten days. Offers own financing plan. Catalog gives drawings, floor plans, a look at many models, specifications. Circle No. A517 on page 19.

**THYER MFG. CORP.**, 2857 Wayne St., Toledo, Ohio.

Firm distributes in three states. Has 22 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 stresses designs that accept almost any skins. No. A518, p. 19.

**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. Circle No. A519 on page 19.

## OKLAHOMA

**SOUTHERN MILL HOMES CO.**, P.O. Box 1087, Tulsa, Okla.

Firm distributes in 300 mi. radius. Has 16 basic plans. Sells through dealers or to builders at prices from \$3,600 to \$8,900 f.o.b. Delivers in two weeks. Uses regular financing. Catalog shows designs, floor plans, drawings of models, gives a look at many houses. No. A529, p. 19.

## 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. No. A521, p. 19.

**COTTMAN PLANNED HOMES**, 820 Cottman St., Philadelphia, Pa.

Firm distributes in 300 mi. radius. Has 31 basic plans. Sells through dealers or to builders at prices from \$2,200 to \$12,000 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog gives sizes, floor plans of many models. Also features specifications for interiors. Circle No. A522 on page 19.

**CRESTWOOD HOMES CO.**, P.O. Box 311, Greenville, Pa.

Firm distributes in 150 mi. radius. Has 14 basic plans. Sells through dealers or to builders at prices from \$3,500 to \$10,000 f.o.b. Delivers in two weeks or less. Offers own financing plan. Catalog features color photos of models, pictures of interiors, floor plans, drawings, construction methods. For more information: Circle No. A523, p. 19.

**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 optional, specifications. Circle No. A524, p. 19.

**IRON CITY SASH & DOOR CO.**, Mansfield Ave., Pittsburgh 5, Pa.

Firm distributes in 300 mi. radius. Sells through dealers at prices from \$9,900 to \$27,500 f.o.b. Delivers in two to three weeks. Uses regular financing methods. Catalog gives color drawings and floor plans of models, plus sketches of millwork used for interiors. Circle No. A525 on page 19.

**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. No. A526, p. 19.

**SWIFT HOMES, INC.**, 1 Chicago Ave., Elizabeth, Pa.

Firm distributes in 450 mi. radius. Has 80 basic plans. Sells through dealers at prices from \$1,675 to \$4,995 f.o.b. Delivers in one day. Offers own financing plan. Literature describes package of exterior materials, subfloor and interior partitions, roof, windows, doors. Circle No. A527 on page 19.

## SOUTH DAKOTA

**MIDWESTERN HOMES DIVISION OF BUCKINGHAM WOOD PRODUCTS, INC.**, 931 E. North St., Rapid City, S.D.

Firm distributes in 11 states, including Alaska. Has 50 basic plans. Sells through dealers or to builders at prices from \$3,750 to \$10,000 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog gives floor plans, drawings, roof construction details, a list of specifications. For more information: Circle No. A528, p. 19.

## TENNESSEE

**UNIQUE HOMES, INC.**, 2915 Eighth Ave., Chattanooga 7, Tenn.

Firm distributes in two states. Has 80 basic plans. Sells to builders at prices from \$2,300 to \$12,500 f.o.b. Delivers in ten days. Uses regular financing methods. Package consists of everything for the house except heating, plumbing, electrical.

## TEXAS

**HOLIDAY HOUSE MANUFACTURERS CORP.**, P.O. Box 8097, Fort Worth, Tex.

Firm distributes in 400 mi. radius. Has 100 basic plans. Sells to builders. Delivers in ten days.

## VIRGINIA

**CONTINENTAL HOMES INC.**, Boone Mills, Va.

Firm distributes in 350 mi. radius. Sells to builder-dealers. Prices: from \$4,300 to \$14,000 f.o.b. Uses regular financing methods. Delivers in ten days. Catalog gives floor plans, drawings of various models, color photos of houses. Package includes everything from termite shield up, except for masonry, caulking, flashing. More information: Circle No. A529 on page 19.

## 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. Gives description of services. Circle No. A530, p. 19.

**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. For more information: Circle No. A531 on page 19.

**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. For complete information contained in catalog: Circle No. 532 on page 19.

**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. For more complete information: Circle No. A533 on page 19.

## 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. No. A534 on page 19.

## WISCONSIN

**MARSHALL ERDMAN & ASSOCIATES, INC.**, 5117 University Ave., Madison, Wis.

Firm distributes in 400 mi. radius. Has 12 basic plans. Sells through dealers or to builders at prices from \$4,000 to \$18,000 f.o.b. Delivers in four weeks. Uses regular financing methods. Literature describes complete package which includes floor package if desired. Circle No. A535 on page 19.

**GREAT LAKES HOMES, INC.**, Box D, Sheboygan Falls, Wis.

Firm distributes in 300 mi. radius. Has 76 basic plans. Sells through dealers at prices from \$2,795 to \$9,565 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog shows models, floor plans, give outstanding features of homes. Circle No. A536 on page 19.

**HARNISCHFEGGER HOMES, INC.**, 500 N. Spring St., Port Washington, Wis.

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. A537, p. 19.

**UNIT STRUCTURES, INC.**, 477 Peck Ave., S., Peshtigo, Wis.

Firm distributes in 300 mi. radius. Has 15 basic plans. Sells to builders at prices from \$3,000 to \$15,000 f.o.b. Delivers in ten days. Uses regular financing methods. Package consists of exterior wall sections complete with sheathing, insulation, windows, doors, siding and exterior trim applied. For more information: Circle No. A538 on page 19.

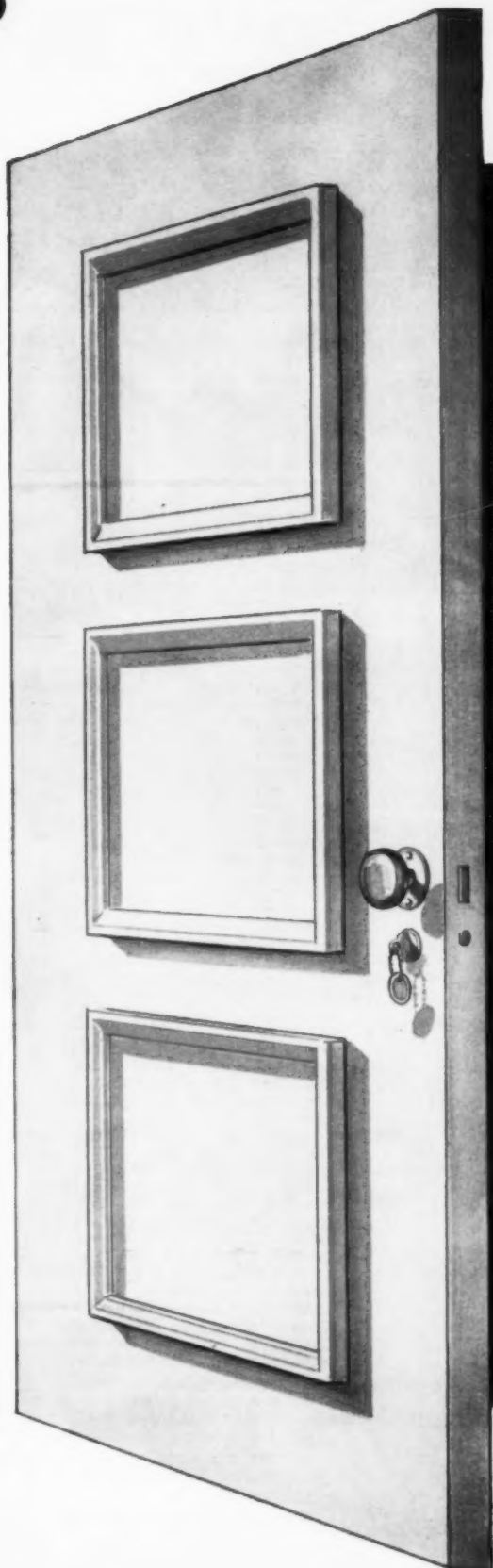
## CANADA

**COLONIAL HOMES LTD.**, 6 Malley Rd., Scarborough, Ontario, Canada.

Firm distributes in Ontario, along the East coast. Has 55 basic plans. Sells through dealers or to builders at prices from \$1,800 to \$10,000 f.o.b. Delivers in ten days. Offers own financing plan. Catalog includes price list, specification sheets, gives color drawings, floor plans. Circle No. A539 on page 19.

**HALLIDAY CO. LTD.**, 551 Maple Ave., Burlington, Ontario, Canada.

Firm distributes in 250 mi. radius. Has 45 basic plans. Sells through dealers or to builders at prices from \$3,500 to \$8,000 f.o.b. Delivers in three weeks. Uses regular financing methods. Catalog gives floor plans, color drawings, elevations. Circle No. A540 on page 19.



# GET THE INSIDE STORY...



## TOTAL PREFABRICATION

This is what total prefabrication could mean to you:

- More than twice the volume on the same amount of working capital
- Less than half the bookkeeping and paper work
- Less than half the interest on borrowed capital
- Less than half the crew for the same volume
- Less than one-third the building time
- Four times the direct labor control
- Less than one-fourth dependence on weather
- Year around building efficiency

## TOTAL FINANCING

General Homes has always fulfilled its mortgage commitments! Our sources are well established. Here is our Total Financing program:

- Guaranteed permanent mortgage money
- 5% simple interest construction loans
- Land development financing tailored to builder's needs
- S.B.I.C. business loans to increase working capital

We offer builders of popular priced homes a complete, efficient program. Let us give you the real "Inside Story!"

## CALL, WIRE OR WRITE NOW!

If you're a qualified builder with 25 or more lots within 450 miles of Ft. Wayne, get complete information from General Homes Builder-Dealer Manager or Wm. B. F. Hall, President, General Homes Division of General Industries, Inc., Ft. Wayne, Ind. PHONE: Kenmore 6221.

# General Homes

DIVISION OF GENERAL INDUSTRIES, INC.

FORT WAYNE, INDIANA

**MR. BUILDER: Maybe you  
can't afford not to**



**use HOUSE PACKAGES...**

\*Recent scene in Atlanta of opening of a new subdivision using house packages.

## THE HMA PROFIT TEST WILL TELL!

Every year, more and so-called "conventional" builders turn to the use of component parts, prefabrication and complete house packages. Last year more than 130,000 house packages alone were sold! Why the upsurge in building with parts instead of pieces? The answer: builders can make more money, faster, easier, with fewer headaches. Just how, and how much, depends on how you operate today as a builder. If you'll take just 100 seconds and jot down the answers to the questions below, home manufacturing experts can tell in less than a minute if you can profit by switching to house packages.

YES NO

- I keep a skilled architect on my staff who produces fast-selling designs.
- We build homes in the FHA-VA market and sometimes run into plan or engineering objections from local VA and FHA officials.
- There is a shortage of mortgage funds in my city.
- As president of my company, I have plenty of time to handle estimating, scheduling, merchandising, financing, engineering and still attend all necessary local, state and national home builder association meetings.
- Under my present construction system we can build all winter long.
- Under my present construction system we can erect a home in one day.

Now tear out just the test portion of this page and mail it—with your name, title, company and address—to:  
Home Manufacturers Association, 1117 Barr Building,  
Washington 6, D. C.

We'll send you complete information about "Profits in Packaged Homes," as well as the names of leading home manufacturers shipping into your city (U.S. and Canada). It just makes sense to build with parts—not pieces!



### BRAND NAMES DIRECTORY

(Continued from page 112)

KEWANEE Lake Shore Inc  
K 5 X Rutland Fire Clay Co  
KEYBEAD Keystone Steel & Wire Co  
KEYCORNER Keystone Steel & Wire Co  
KEYDOR Dina-Pak Corp  
KEY-HAK Producers & Distributors Inc  
KEYLINE Calder Mfg Co  
KEYMESH Keystone Steel & Wire Co  
KEYNOTE Edwards Co Inc  
KEYSTONE Keystone-Standard Wire Cloth Co  
KEYSTONE Revere Copper & Brass Inc  
KEYSTONE Seneca Wire & Mfg Co  
KEYSTONE (Bolts) Diamond Expansion  
KEYWALL Keystone Steel & Wire Co  
KEYWELD Keystone Steel & Wire Co  
KILNOISE Tiger Brands Div Basic Inc  
KIMAX Owens-Illinois  
KIMWOOD DOOR Hardwood Prods Corp  
KING SHILL Kingston Mills Inc  
KING-SIZE Logan Clay Prods Co  
KINGS FAIRWAY Kingston Mills Inc  
KINGSHURST Kingston Mills Inc  
KINGS PLUSH Kingston Mills Inc  
KINGSQUEEN Kingston Mills Inc  
KINGSTREND Kingston Mills Inc  
KINTRIM Kinkead Industries Inc  
KIRK TAX CALCULATOR Kirk Plastics  
KITCHENAID Hobart Mfg Co  
KITCHEN-AIRE Stewart Industries Inc  
KITCHEN MAID Kitchen Maid Corp  
KITCH N-HANDY Washington Steel Prds  
KITCH-N-VENTOR Universal Blower Co  
KLEARTONE Standard-Toch Chem Inc  
KLEEN-AIRE Hudson H D Mfg Co  
KLEENEDGE Sunbeam Plastics Corp  
KLEENOLENE Thomas Moulding Floor  
KLEFTONE Johns-Manville Corp  
KLIPBILT Frick-Gallagher Mfg Co Inc  
K-LITE Kessler Products Co  
KLIP-LOK Globe Roofing Prods Co Inc  
KLIP-TIP Rutland Fire Clay Co  
KNIGHT Barland Weatherstrip Material  
KNO-DRAFT Connor Engineering Corp  
KNOX-OUT Pennsalt Chemicals Corp  
KOKOMO KORNER'S Bugher Mfg Co  
KOL-MASTER Kol-Master Corp  
KOLOR-BRITE Martin-Senour Co  
KOLORPINS Independent Nail & Packing Co  
KOMUL Selby Battersby & Co  
KONSEAL Sullivan Co  
KONSET Sullivan Co  
KONTITE Sullivan Co  
KOOLVENT Koolvent Metal Awning  
KOOLSHADE Reflectal Sub Borg Warner  
KORALUM Lyf-Alum Inc  
KORD Sterling Quality Products Inc  
KORDITE Kordite Corp  
KORDUCT Johns-Manville Corp  
KORINA United States Plywood Corp  
KORKER Mobile Paint Mfg Co  
KORKER U S Expansion Bolt Co  
KORK-PAK Serviced Prods Corp  
KORNER KING RCS Tool Corp  
KOROSEAL Goodrich B F Co  
KORPAK Dunn W E Co  
KOSMORTAR Kosmos Portland Cement  
KOSMOS Kosmos Portland Cement Co  
KOVELOCK Parker S Hdwe Mfg Corp  
KOVEN VENKO Waterfilm Boilers  
KOVEN Koven L O & Bro Inc  
KOVERFLOOR Standard-Toch Chem Inc  
KOVERLUM U S Aluminum Siding Corp  
KOVERSTONE U S Aluminum Siding  
KOVERTEX U S Aluminum Siding Corp  
KRAK-TITE Sterling Quality Prods Inc  
KRETE-KUT Bay State Abrasive Prods  
KUROKROME Master Builders Co

(Continued on page 120)



# Sell in the \$11,000 MASS MARKET

WITH THE

# Mustang

BY INLAND



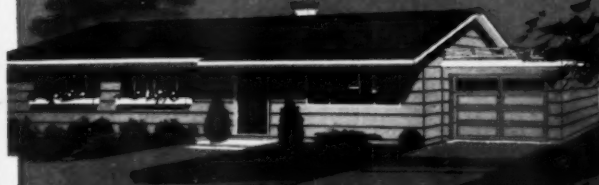
COLONIAL



CONTEMPORARY



FRENCH PROVINCIAL



RANCH







NEW ORLEANS COLONIAL

## PACKAGE PRICE

# \$2691

*(less quantity discounts)*

### includes

-  Attached Garage.
-  12 Colonial, Contemporary, French Provincial, Ranch and New Orleans Colonial designs.
-  Birch wood kitchen cabinets.
-  And much more we want to tell you about.

Model home financing furnished. Inland Mortgage Corporation will supply complete construction financing for a Model Home in your subdivision... at no cost to Builder-Dealers.

### GO MUSTANG IN '60! GET THE FACTS!

Today! Write, wire or phone (PR 3-7550). Neal B. Welch, Jr., Vice President, Sales, Department A-4, Piqua, Ohio.

# INLAND HOMES



INLAND HOMES CORPORATION

Plants in Piqua, Ohio; Hanover, Pa.; and NOW CLINTON, IOWA

MANUFACTURER OF AMERICA'S FINEST HOMES

**Ford** HOMES ARE  
READY FOR DECORATING

**24 hours after delivery!**

THAT'S RIGHT, BECAUSE . . .

- FORD LAYS THE FINISH FLOORING
- FORD APPLIES THE DRYWALL
- FORD DOES THE WIRING
- FORD APPLIES THE TRIM



Other models available in  
**MODERN CAPE COD  
RANCH  
SPLIT LEVEL**

For full details, write on your  
own letterhead to Dept. AB



R-09-0-090 40' x 52'

**Ford** factory-built **HOMES**  
Manufactured by IVON R. FORD, INC., McDonough, N. Y.

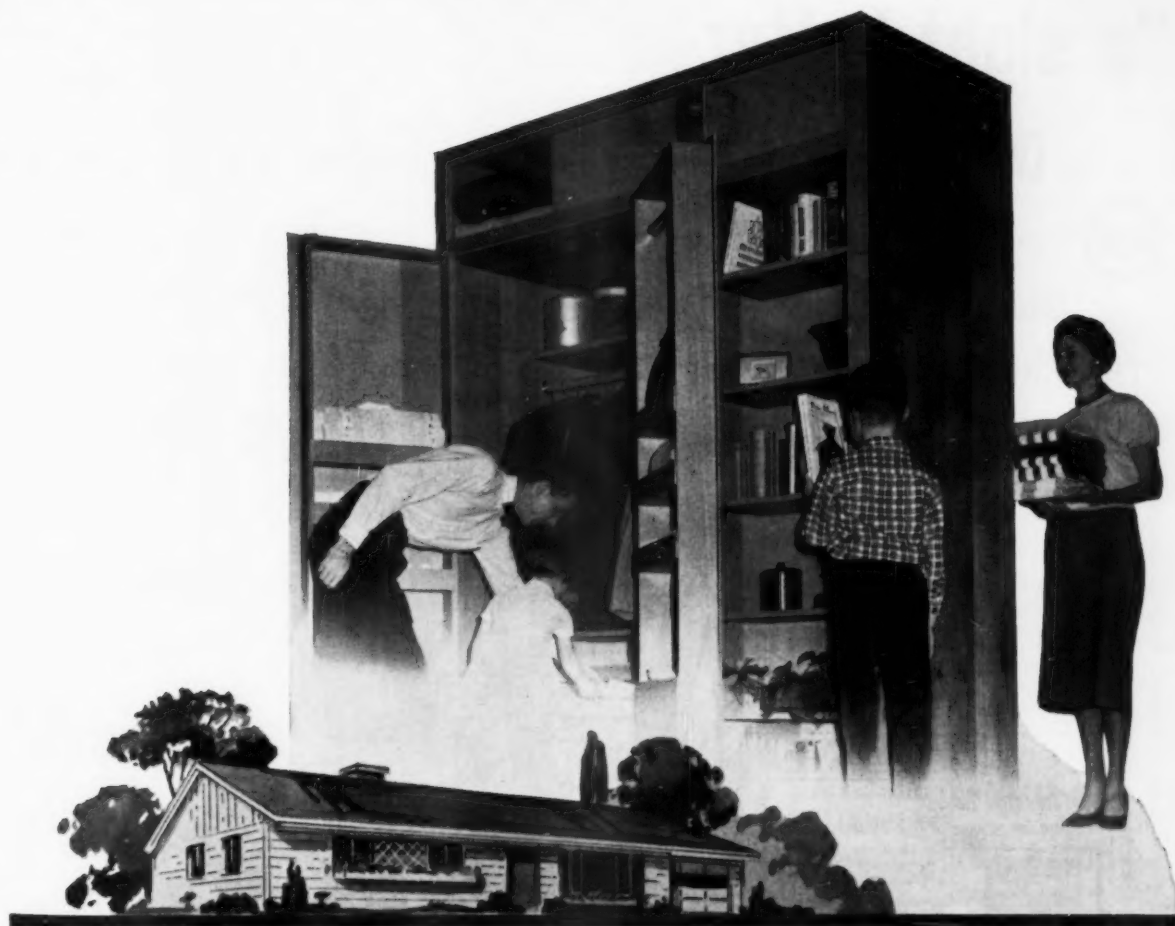
**BRAND NAMES  
DIRECTORY**

(Continued from page 118)

KUSHIONED Extension Drawer Support  
KUTZIT Savogran Co  
K-VENIENCE Knap & Vogt Mfg Co  
KWENCH-KOTE American Asbestos Prd  
KWIKCHANGE Leviton Mfg Co Inc  
KWIKEEZE Savogran Co  
KWIK-WAY Hart & Cooley Mfg Co  
KWIK-ROC Horn A C Companies  
KWIKSET Kwikset Div Am Hdwe Corp  
KWIK-WAY Hart & Cooley Mfg Co  
KYANIZE Kyanize Paints Inc  
L K General Air Conditioning Corp  
L & H Lindemann A J & Hoverson Co  
L & H LECTRO-HOST Norris Thermador  
LADIES CHOICE Yoder Mfg Co  
LADSCAF Universal Mfg Corp  
LAFAYETTE Irmanton Products Co  
LAG-LOCKS Rawplug Co Inc  
LAG-SHIELDS Rawplug Co Inc  
LAMIDALL Woodall Industries Inc  
LAMINART Fabricon Prods  
LAMP-LYTER International Register Co  
LANCER Copymation Inc  
LANDMARK Lennox Industries Inc  
LANES 3-TY Lanebro Mfg Co  
LANGDON-ACME Millers Falls Co  
LANSCO Landers Segal Color Co  
LA PERLA Acme Brick Co  
LAPIDOLITH Sonneborn L Sons Inc  
LARSEN-MIX Larsen Products Corp  
LASCOLITE Lynch Asbestos Co  
LASCOPEPE Lynch Asbestos Co  
LASTIKALK Lastik Paint Inc  
LATEX CONCRETE TOPPING Camp Co  
LATEX FILL-CRETE Penn Crete Prods  
LATEX LIQUID FELT Camp Co Inc  
LAUNDROMAT Westinghouse Electric  
LAVANETTE Toledo Desk & Fixture Co  
LAVAX Pittsburgh Plate Glass Co  
LAYKOLD American Bitumuls & Aspht  
LAYRITE Standard Paste & Glue Co Inc  
LAYTITE Connor Lumber & Land Co  
LEAD-SEAL Deniston Co  
L C N L C N Closers Inc  
LEADER Burnham Corp Warm Air Div  
LEADER Lufkin Rule Co  
LEADTEX Revere Copper & Brass Inc  
LEATHERITE Insulite Div  
LEATHERWOOD Masonite Corp  
LEBANEX Cascades Plywood Corp  
LEBANEX United States Plywood Corp  
LEBANITE Cascades Plywood Corp  
LECO LATCH Laboratory Equip Corp  
LECTRIC-AIRE Radex Corp  
LEDLOCK U S Expansion Bolt  
LEKTRIK-AIR Hudson H D Mfg Co  
LEKTRIK-SPRAY Hudson H D Mfg Co  
LEMCO Croft Metal Products Inc  
LENOX American Saw & Mfg Co  
LENROC Finger Lakes Stone Co Inc  
LESLIE LOUVERS Leslie Welding Co Inc  
LESTO Krieg Victor J Inc  
LEVELBEST Savogran Co  
LEVELEASY Hydrolevel  
LEVELEZE Jones & Brown Inc  
LEVELER Colson Corp  
LEVELITE-LATEX Selby Battersby & Co  
LEVELINE Calder Mfg Co  
LEVERLIFT Colson Corp  
LEV-L-ASTIC Allied Compositions Co  
LEV-O-LITE Leviton Mfg Co Inc  
LEV-O-LOCK Leviton Mfg Co Inc  
LEV-R LATCHES Soss Mfg Co  
LEX-CRETE Rutland Fire Clay Co  
LEXINGTON Miller Co  
LIBERTY Tilley John S Ladders Co Inc  
LIDO Carey-McFall Co  
LIFE BOND Horner Flooring Co  
LIFETIME Atco Aluminum Products  
LIFETIME (Cabinets) Mirro Chrome Co

(Continued on page 144)

**AMERICAN BUILDER**



*Only* RICHMOND HOMES OFFER THESE  
FAMOUS **KLOSET-WALLS**

Read this... Planned storage... Increased valuation...  
Factory finished mahogany... Eliminates closet framing,  
sheetrock, door, shelving, trim and painting... And the  
ladies love them!

To see these in your nearest model Richmond Home,  
call Ray Imperial at Richmond 8-1636.

 ***Richmond Homes*** • *inc.*  
RICHMOND, INDIANA

# "a sight better

# on any site"...

that's the theme of the big, new **USS** Homes 1960 promotion designed to help you sell more Steelstyle Homes this spring. In a big, four-color ad in "The Saturday Evening Post," readers are told they'll find quality housing where they see this sign.



To make this promotion produce sales, USS Homes is providing to all its dealers a complete new Spring Promotion Kit. Here's what it offers: a colorful site sign for use at the job site; newspaper repro art, copy suggestions and radio commercials for "custom-made" advertising campaigns; and a complete "Saturday Evening Post" promotion package consisting of ad mats, a 4-color mailer of the consumer ad, and an eye-catching easel display poster—PLUS everything else needed to make this Spring promotion the best of all USS Homes promotions. To learn how U.S. Steel Homes Dealers can sell more Steelstyle Homes by promoting the theme, "A sight better on any site," send in the coupon.

United States Steel Homes  
Division of  
United States Steel



Sales Promotion Manager  
United States Steel Homes  
525 William Penn Place  
Pittsburgh 30, Pennsylvania

Yes, I'd like more information on how to sell USS Steelstyle Homes.

Name \_\_\_\_\_

Address \_\_\_\_\_

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

# TECHNICAL DATA SECTION

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<b>Hardware, building specialties</b>	<b>16</b>
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<b>Paints, finishes, waterproofing</b>	<b>18</b>
<b>Tools, equipment</b>	<b>19</b>

# 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:  
high ..... medium..... low.....  
Distance from central business district .....  
via ..... street  
Distance from major employment centers .....  
Public Transportation: type .....  
good ..... fair..... poor.....  
Fare to employment and center .....  
Travel Time .....  
Automobile access:  
good ..... fair..... poor.....  
Travel time to employment and center .....  
Type of highway approaches:  
good ..... fair..... poor.....

#### Presence of Community Facilities

Existing shopping center or stores:  
Size and type .....  
Distance .....  
New center feasible: yes.....no.....  
Size of supporting area .....

Schools:  
Elementary .....distance .....  
High School .....distance .....  
Nursery Schools .....distance .....

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 .....  
good ..... fair..... poor.....  
Tract abuts heavily traveled thoroughfare:  
Yes ..... No.....

Prevailing wind .....  
Industrial smoke: Yes ..... No.....  
Airports:  
Distance .....  
Relation to approaches .....  
Airparks:  
Distance .....  
Relation to approaches .....

#### Site Factors

Raw Land Price .....per 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 grade .....below grade.....  
Heavy grading needed:  
for streets .....for lots.....  
Swamp areas .....pockets.....  
Type of soil .....  
Rock outcrop or depth of soil cap .....  
Heavy woods .....scrub.....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 Lay Out a Building

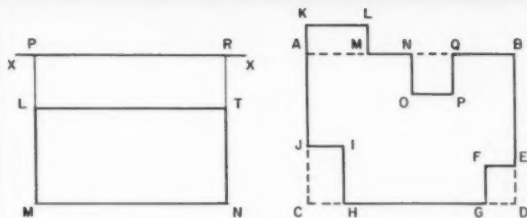
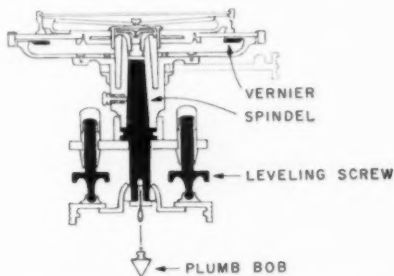


FIG. 1

FIG. 2

HOW TO USE A TRANSIT

(Fig. 1): Using the plumb bob, suspended from the hook under the spindle, locate the station mark or corner of the lot or building to be laid out. Center the instrument directly over this point by shifting the legs of the tripod so that the plumb bob hangs directly over the station point. To bring plumb bob to this position, loosen leveling screws and shift instrument until the plumb bob points to center. Level up the instrument by tightening the leveling screws.



Street line in the illustration is XX. The corner of the proposed building is L, distance from the street line PL. Then a distance RT should be measured from the street, equal to PL, at a point determining the length of the proposed building. Now the line LT is parallel with the street. And LT represents the two front corners of the building.

To get the line at right angles to LT, leave the sights on the stake at T and turn the eyepiece end of the telescope to the left until the vernier has turned a right angle, or 90°. A sight along this new position will give the line LM, on which the necessary distance is measured off to determine the corner M. Now move level to T, and go through same operation to determine corner N.

To prove the correctness of the survey, check the distance MN, to see that it is the same as the distance LT.



FIG. 3

WHEN A BUILDING IS NOT A RECTANGLE (Fig. 2): In such a case, proceed as previously explained. However, additional points must be arranged for, and in that respect small errors are likely to creep in. In all cases, first lay out a large rectangle, along the outside extremities of the proposed building. This is represented by ABCD. These points established, the remaining portion of the layout will consist of small rectangles. Each of these can be laid out and proved separately. In the illustration (Fig. 2) these other rectangles are represented by EFGD, HIJC, KLMA and NOPQ.

ESTABLISHING LEVELS WITH A TRANSIT: Set up the instrument where points may be seen through the telescope. Level up the transit and take a reading where cross-hair cuts on the measuring rod. The rod is then moved to the second point to be established. Then rod is raised or lowered until the original reading is located. The bottom of the rod is then on the same level with the original point.

MEASURING DIFFERENCE IN ELEVATION (Figs. 3 and 4): If the instrument has been properly leveled and is not out of adjustment, the line of sight set up by the telescope when locked in the level position is horizontal in any direction. To obtain the difference in elevation between two points, such as points A and B, (Fig. 3) set up and level the instrument at an intermediate point, adjusting the tripod to any convenient height. Sight on a rod held over point A, note the reading where the horizontal cross-hair of the telescope cuts the graduation on the rod. Then, with the rod held on point B, rotate the telescope in a horizontal plane, again sight on the rod and note where the horizontal cross-hair cuts the graduation on the rod. The difference between the reading at A (8 ft.) and the reading at B (6 1/2 ft.) will give the difference in elevation between the two points. Point B is 1 1/2 ft. lower than point A. In making these readings, the telescope must be carefully focused on the rod or other object on which it is sighted.

When, for any reason such as irregularity of the ground or a large difference in elevation, the two points whose difference in elevation is to be determined cannot be sighted from a single point, "intermediate points" must be used, as shown in Fig. 4.

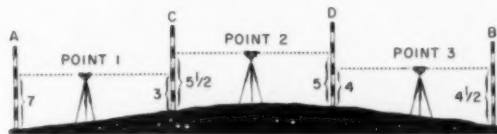
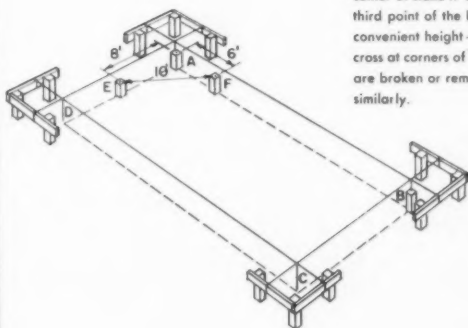


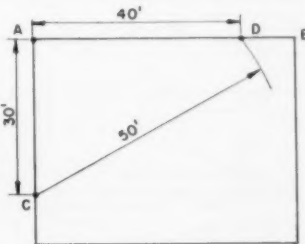
FIG. 4

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 8' 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.

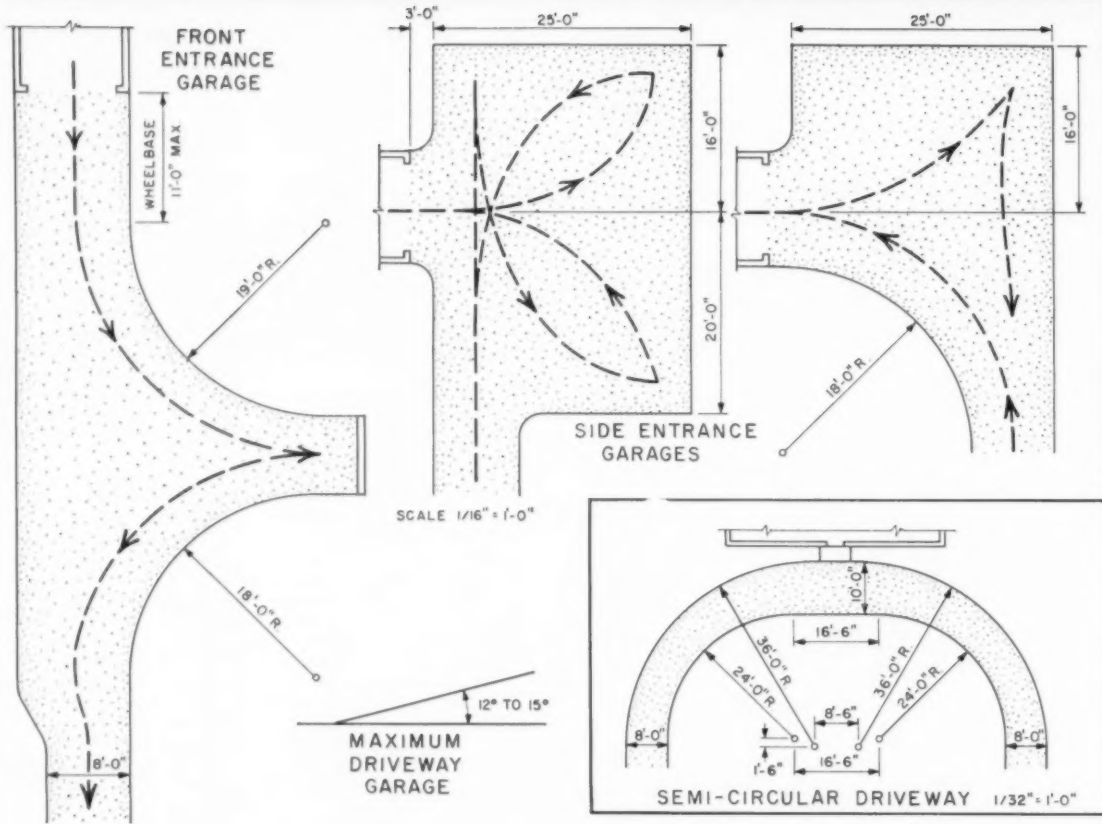


A and B can be any corners of a building. Along AB measure a distance of 40' with a steel tape. Approximately at right angles to A, measure a distance of 30' to a point C. From C, measure a distance of 50'. When points C and D are exactly 50' apart, angle CAD becomes a right angle.

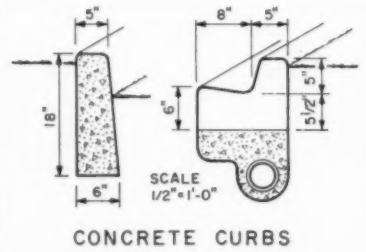
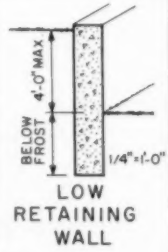
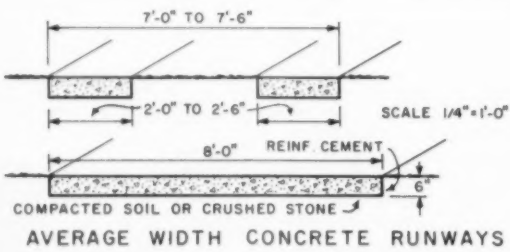
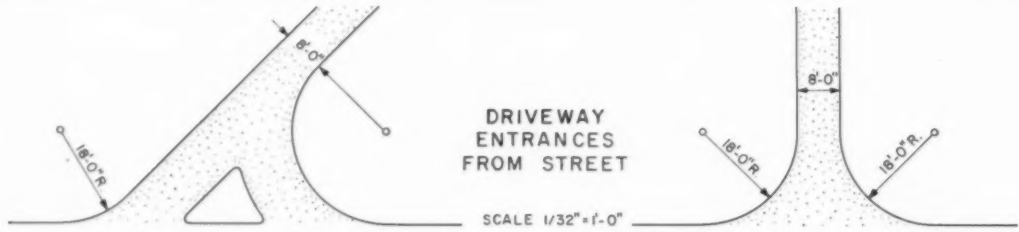


# SITE PLANNING

## 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"

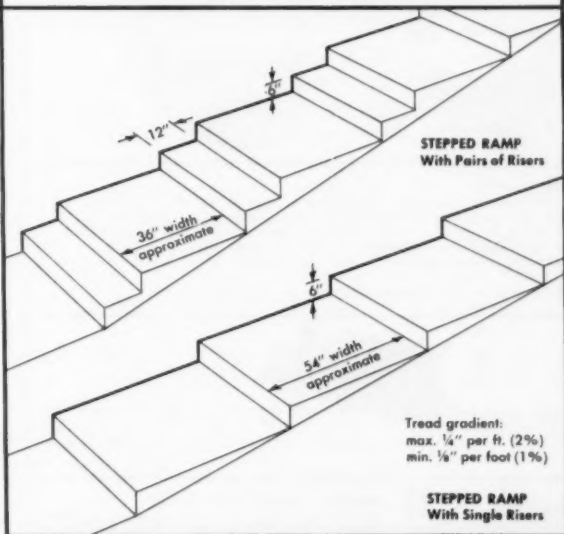
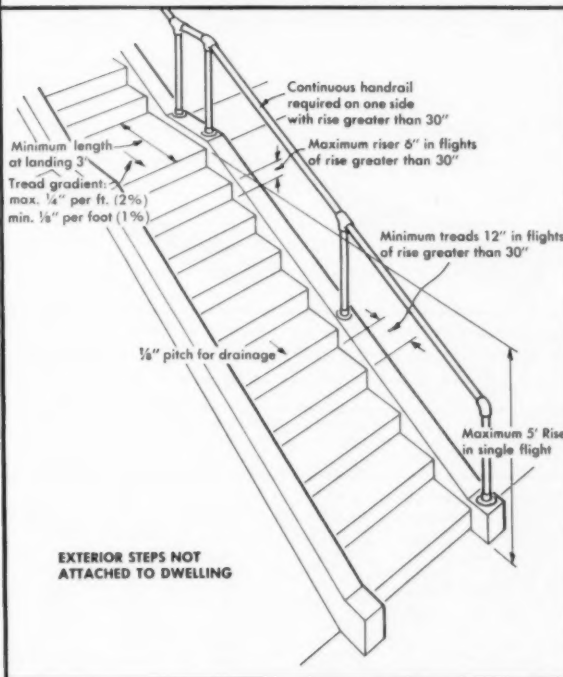
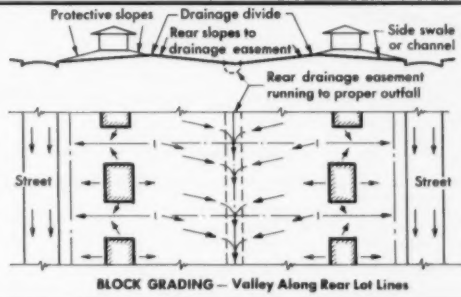
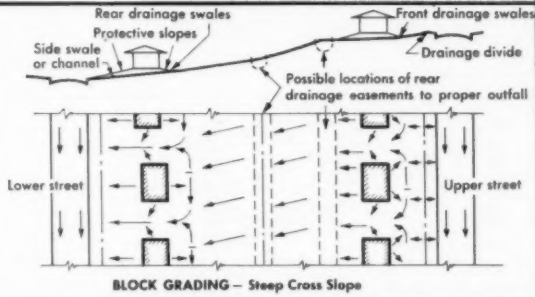
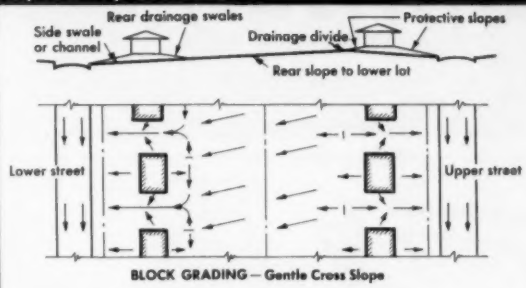
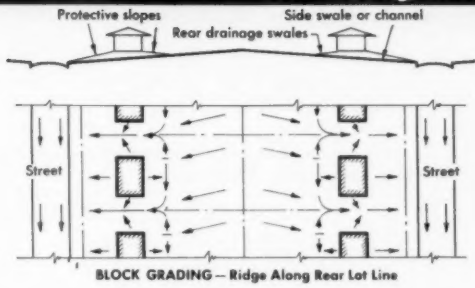


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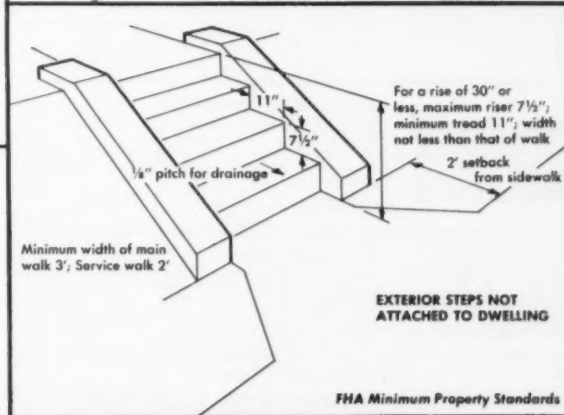
# SITE PLANNING

## Block Grading; Exterior Steps, Ramps; Soil Data



### Percentage of Difficulty of Excavation

Maximum output figure assumes ideal conditions with skilled operator, no loading delays, in moist loam or light sandy clay. For other soils reduce calculations as follows: sand, gravel: 95%; ordinary earth: 80-85%; hard clay: 50-70%; well blasted rock: 45-55%; earth with roots and rocks: 35-45%; wet sticky clay: 30-40%; poorly blasted rock: 15-30%.



FHA Minimum Property Standards

6

# MILCOR®

## Masonry Building Products

### Newest Additions to the Milcor Building Products Line

Prompt deliveries from your local Milcor dealer's stock. One call orders all — saves you time and paperwork.



2-light Basement Window



No. 44 DV,  
4-light  
Utility  
Window

#### MILCOR BASEMENT AND UTILITY WINDOWS

**BASEMENT WINDOWS** — Easy to install. Large flanges on frame insure secure, draftless connection in wall opening. Nailing holes in top flange for attaching to wood plate. Available in Steel or Aluminum — with one or two lights. Two light can be furnished with cork gaskets for puttyless glazing.

**MASONRY OPENINGS:** 32½" x 14⅞" to 36½" x 22⅞"

**GLASS SIZES:** 2 light — 15" x 12" to 17" x 20";

1 light — 30½" x 12" to 30½" x 20".

**PACKING:** Steel — 6 per bundle; Aluminum — 6 per carton.

**UTILITY WINDOWS** — Available in Steel or Aluminum — in single vent styles with four or six lights, or double-vent style with four lights.

**MASONRY OPENINGS:** 32½" x 42¾" to 48¾" x 42¾"

**GLASS SIZES:** 12" x 20" and 15" x 20".

**PACKING:** Steel — 4 per bundle; Aluminum — 4 per carton.

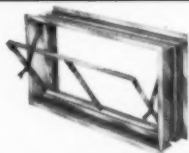
#### MILCOR E-Z POUR BASEMENT WINDOWS

For installation in poured concrete walls from 5½" through 10" thick. Creates a permanent, steel framed opening — eliminates need for window bucks. One man can install.

**WINDOW TYPES:** 2-light and 1-light types. 2-light type can be furnished with cork gaskets for puttyless glazing.

**GLASS SIZES:** 15" x 12", 15" x 16", 15" x 20";  
30½" x 12", 30½" x 16", 30½" x 20".

**PACKING:** 2 per bundle.



2-light  
E-Z Pour  
Basement Window



Round  
Areawall



Straight  
Areawall

#### MILCOR AREAWALLS

Round and Straight styles. Deep corrugated design and bright galvanized finish provide rigidity and maximum light reflection into basement. Made from Ti-Co Galvanized Steel for maximum corrosion resistance with formed rounded bead at top edge.

**DIMENSIONS:** 37" wide; 12" to 48" high in 6" increments. Round style has 16" projection; Straight style has 12" projection.

**PACKING:** 12", 18" and 24" — 6 per bundle; 30" and 36" — 4 per bundle; 42" and 48" — 3 per bundle.

Foundation Grille Areawalls also available — 17" wide x 12" high x 4" projection — not corrugated. Packed 6 per bundle.

#### MILCOR LINTELS

Roll-formed, ribbed design provides engineered strength, allows proper space for uniform, solid bed of mortar. No tuck-pointing required, no deep-grouting of cement block. Lintels lie flat — no twisting, bending, or warping. Prime roll-formed steel. Baked-on, rust-inhibitive prime paint coating.

**LENGTHS:** Brick lintels — 2'-0" to 7'-6". Block lintels for 6" and 8" block — 2'-6" to 5'-0".

**PACKING:** 6, 4 or 3 per bundle, dependent on size.



Brick Lintel



Block Lintel



Fireplace Dome Damper

#### MILCOR FIREPLACE DOME DAMPERS

Simple design provides lasting, trouble-free operation. Ample masonry flange facilitates laying of brick. Damper equipped with either chain or poker control. Made of rust-resistant, heat-resistant Steel — damper leaf won't warp. Baked-on, rust-inhibitive paint coating.

**SIZES:** For fireplace-opening widths of 30", 32", 36", 42", and 48". Overall width of damper is 3" more than fireplace opening; overall depth, 11"; overall height, 8½".

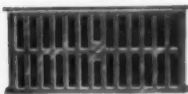
**PACKING:** 2 per bundle.



#### MILCOR CRAWL SPACE DOORS

Provide ready access to crawl spaces under basementless houses. Heavy-gauge Steel with ample flanges for secure installation.

**NOMINAL SIZES:** 32" x 12"; 32" x 16"; 32" x 20".  
**PACKING:** 32" x 20" — 3 per carton. Others — 6 per carton.

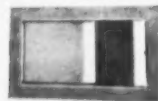


#### MILCOR FOUNDATION GRILLES

For any type of masonry construction. Fit openings the size of one concrete block. With screen and adjustable shutter, or with screen only. Available in Ti-Co Galvanized Steel or heavy gauge Aluminum.

**SIZE:** 16" x 8".

**PACKING:** 12 per carton.



#### MILCOR ASH DUMPS

Installed in bottom of fireplace to facilitate ash removal. Extra-wide flanges simplify installation. Stamped from hot-rolled steel.

**SIZE:** Double-leaf unit with 4" x 8" opening.

**PACKING:** 12 per carton.

#### MILCOR STEEL POSTS

**VARI-POST** — A telescoping, adjustable steel post, with jack screw, for extra support or elimination of floor sag.

**SIZES:** No. 84 (adjusts from 5'-0" to 8'-4"); No. 79 (4'-9" to 7'-9"); No. 73 (5'-0" to 7'-3"); No. 46 (2'-9" to 4'-6"); No. 29 (1'-10" to 2'-9"); No. 22 (16" to 22").

**PACKING:** One per carton.

**E-Z POST** — For permanent steel post installation. One man sets it up — no need to shim or fit by trial and error. Cap plate and adjusting unit integral with post. Base plate furnished.

**SIZES:** From 6'-6" to 8'-0" in 3" increments. Each post has a 3" adjustable range. Size shown is maximum.

**PACKING:** Four per bundle.

**STUR-D-POST** — Engineered for heavy loads — structurally acceptable and approved by local building codes.

**SIZES:** 3" O.D. x 11 ga., 3½" O.D. x 13 ga., 3½" O.D. x 11 ga., 4" O.D. x 13 ga., 4" O.D. x 11 ga.

**LENGTHS:** 6'-0" to 8'-0".

**PACKING:** Eight per bundle. Cap and base plates optional accessories.



Vari-Post

E-Z Post

Stur-D-Post

Write for price list and Catalog No. 260.

**INLAND STEEL PRODUCTS COMPANY**

Member of the Steel Family

DEPT. D, 4025 WEST BURNHAM STREET • MILWAUKEE 1, WISCONSIN  
BALTIMORE, BUFFALO, CHICAGO, CINCINNATI, CLEVELAND  
DETROIT, KANSAS CITY, LOS ANGELES, MILWAUKEE, MINNEAPOLIS,  
NEW ORLEANS, NEW YORK, ST. LOUIS.

# 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

### 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' x 30' - 11 courses high.

2 x 24-30 = 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.)

$$\text{Multiply } .0462 \times 108 = 4.989 \text{ cu. yds. concrete required}$$

$$\text{or } .462 \times 10.8 = 4.989 \text{ cu. yds.}$$

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.

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# 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

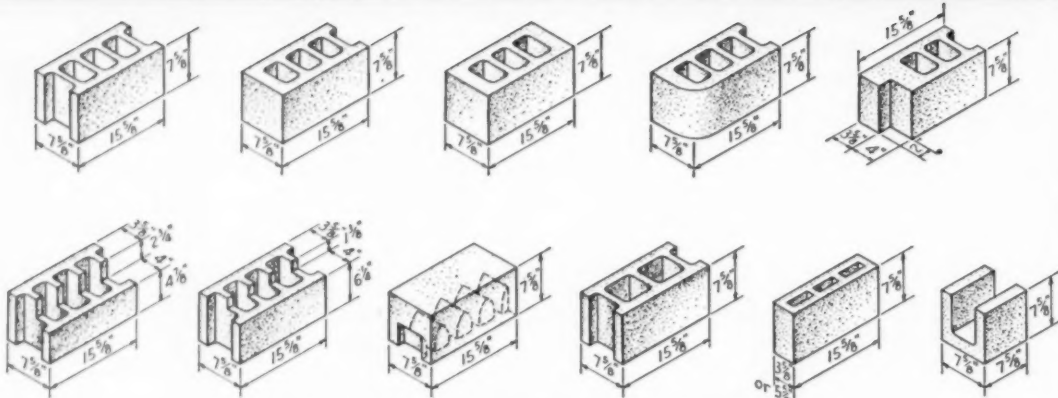
NOTE: 1/2" joints completely filled, including vertical interior joints of 8-in., 12-in. and 16-in. walls. For estimating number of facing and backup brick in any particular type of bonds use correction factor Table 4.

**TABLE 4**  
**CORRECTION FACTORS TO BE APPLIED TO 4-INCH WALL QUANTITIES FOR ESTIMATING**  
**THE REQUIRED NUMBER OF FACING BRICK IN VARIOUS BONDS**

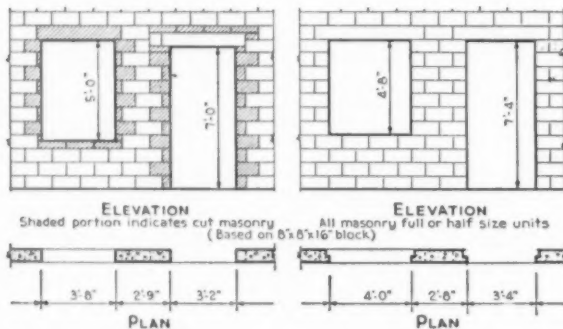
TYPE OF BOND	CORRECTION FACTOR
Common bond with full header every 5th course.....	20% or 1/5
Common bond with full header every 6th course.....	16.7% or 1/6
Common bond with full header every 7th course.....	14.3% or 1/7
English bond, alternate courses full headers.....	50% or 1/2
English or Dutch bond 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

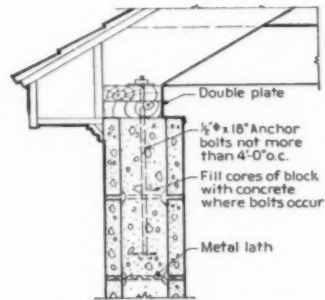


**TYPICAL SHAPES AND SIZES OF CONCRETE MASONRY UNITS**

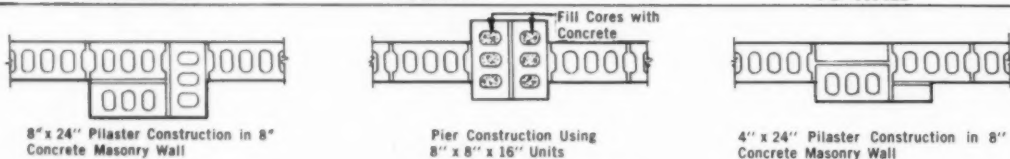


**INCORRECT**

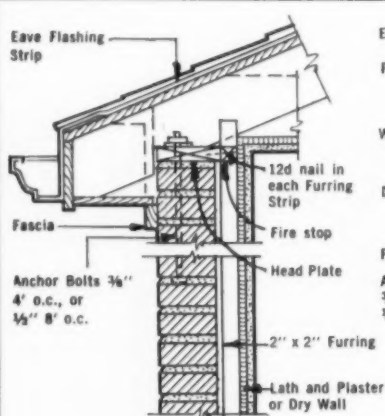
**CORRECT**



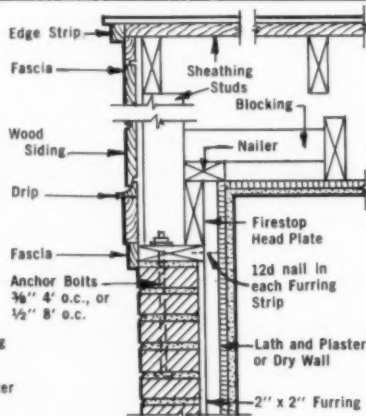
**FASTENING TOP PLATE TO WALL**



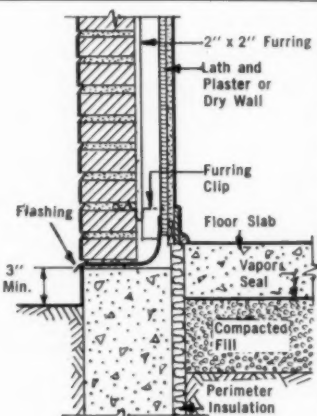
**PILASTERS AND PIERS**



**EAVE**



**WOOD GABLE**



**SLAB ON GRADE**

Courtesy Portland Cement Association; Structural Clay Products Institute

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# 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 & coarse agg.	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	2¼	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.
  - Maintain temperature of high-early-strength concrete at 70° or above for two days or 50° or above for three days.
  - 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

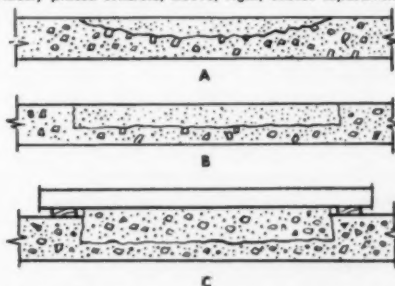
Balance of material courtesy Portland Cement Association.



**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 not 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:

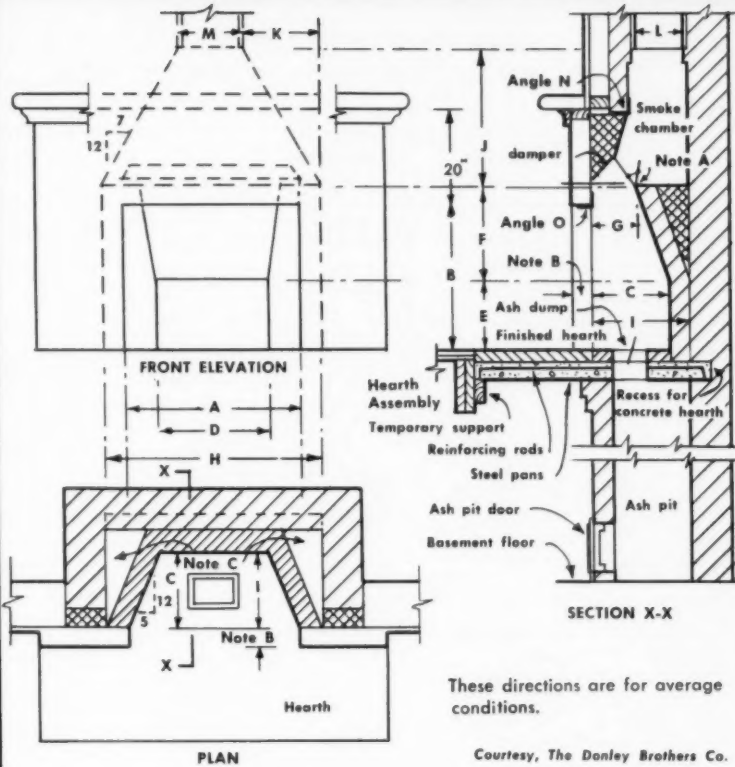
A variety of admixtures on the market will improve concrete's wear resistance, make it harder or softer (asphalt), foam it, make it easy to saw, and add color. Lumber yards and building material supply stores carry virtual chemical plants on their shelves.

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# CONCRETE, MASONRY, TILE, BRICK

## Fireplace Design



### DIRECTIONS

In the fireplace illustrations the open hatching indicates the materials installed when the chimney is built and the close and cross hatching shows that part installed with the finished fireplace. The generally accepted practice is to complete the rough brickwork of the fireplace from ash pit footings to chimney top before undertaking the installation of the finished interior and front. There is an alternate method by which both rough masonry and the finished front and interior are built up together. The second is presumed to save some of the cost, but it also results in more faulty fireplaces, and corrective work is more difficult and costly.

The illustrations of Plan, Elevation and Section have letters shown in the dimension spaces. These letters will be found at top of the columns in the Table of Dimensions below, where figures are given for the parts, corresponding to the letters, of 12 typical sizes of fireplaces.

First select the width of your fireplace opening, found in the left-hand column. The next column to the right gives an appropriate height. Following to the right are the dimensions of the other parts and also the necessary equipment.

These directions are for average conditions.

Courtesy, The Donley Brothers Co.

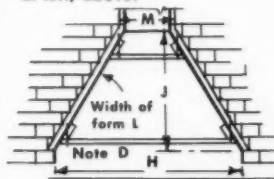
### NOTES

A — The back flange of the damper must be protected from intense heat by being fully supported and shielded by the back wall masonry. Also, the damper and lintel angles should not be built in solidly at the ends but given freedom to expand with heat, as shown in the front elevation view at left, above.

B — The drawing indicates thickness of brick fireplace front as 4". No dimensions can be given for this because of various materials used, such as marble, stone, tile, etc., all of which have varying thicknesses.

C — These hollow spaces should be filled to form solid backing. If desirable to include a furnace flue in either space, outside dimensions should be increased. The illustration above shows a rotary control damper installed.

**Smoke Chamber** — At damper level, the enclosure narrows to form the smoke chamber. It is important that the slope of its two sides be identical, the flue taking off from the center. Where the upright flue is not directly over the center make the upward sloping connection with no reduction in area and not more than 7" sideways to each 12" of rise. A form consisting of two boards with connecting braces helps to give the brick a proper slope and assists in providing the important smooth surface which assists in discharge of smoke.



### TABLE OF FIREPLACE DIMENSIONS

Finished Fireplace Opening											Rough Brick Work and Flue Size						Equipment		
A	B	C	D	E	F	G	H	I	J		New Flue Sizes**			Old Flue Sizes			Ash Dump	Steel Angles*	
											K	L	M	Round	K	L		M	N
24	24	16	11	14	15	8 3/4	32	20	19	10	8x12	8	11 3/4	8 1/2x8 1/2	8 1/2	58	A-36	A-36	
26	24	16	13	14	15	8 3/4	34	20	21	11	8x12	8	12 3/4	8 1/2x8 1/2	8 1/2	58	A-36	A-36	
28	24	16	15	14	15	8 3/4	36	20	21	12	8x12	10	11 1/2	8 1/2x13	58	A-36	A-36		
30	29	16	17	14	21	8 3/4	38	20	24	13	12x12	10	12 1/2	8 1/2x13	58	A-42	A-36		
32	29	16	19	14	21	8 3/4	40	20	24	14	12x12	10	13 1/2	8 1/2x13	58	A-42	A-42		
36	29	16	23	14	21	8 3/4	44	20	27	16	12x12	12	15 1/2	13 x13	70	A-48	A-42		
40	29	16	27	14	21	8 3/4	48	20	29	16	12x16	12	17 1/2	13 x13	70	A-48	A-48		
42	32	16	29	14	23	8 3/4	50	20	32	17	16x16	12	18 1/2	13 x13	70	B-54	A-48		
48	32	18	33	14	23	8 3/4	56	22	37	20	16x16	15	21 1/2	13 x13	70	B-60	B-54		
54	37	20	37	16	27	13	68	24	45	26	16x16	15	25	13 x18	70	B-72	B-60		
60	37	22	42	16	27	13	72	27	45	26	16x20	15	27	13 x18	70	B-72	B-66		
60	40	22	42	16	29	13	72	27	45	26	16x20	18	27	18 x18	70	B-72	B-66		

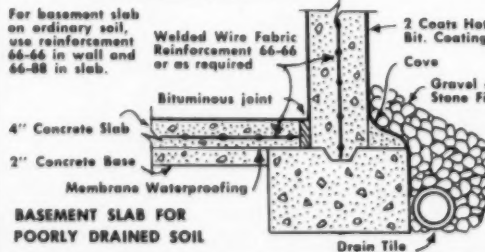
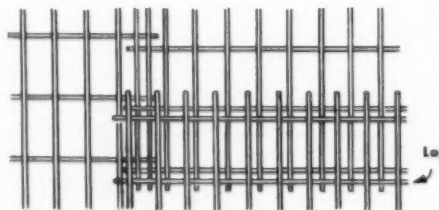
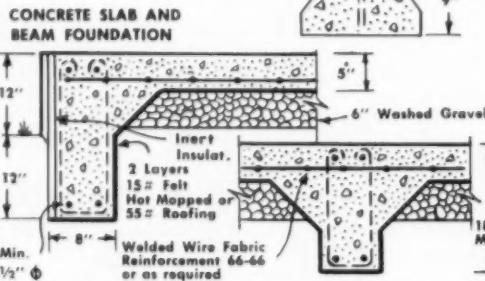
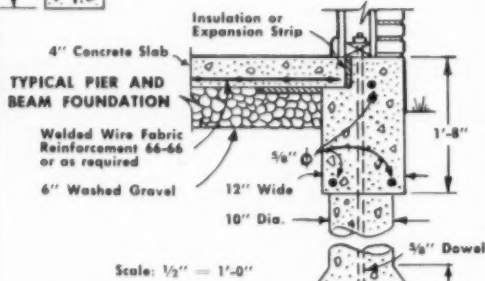
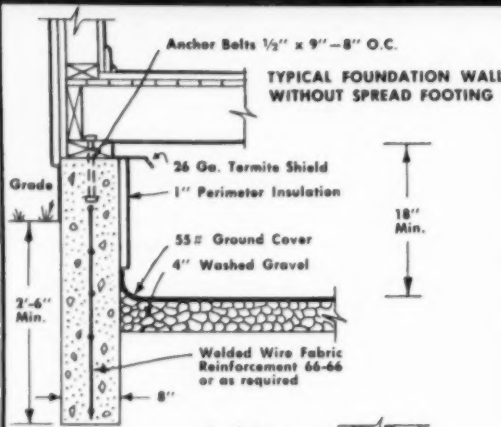
NOTES: \*Angle Sizes: A — 3x3x3/8, B — 3 1/2x3 1/2  
 \*\*New Flue Sizes—Conform to new modular dimensional system. Sizes shown are nominal. Actual size is 1/8 in. less each dimension.  
 Ash pit door—12x8 in all cases.

Two sets of flue lining dimensions appear in the table above, one for the old standard sizes and another for the nominal sizes of those conforming to the new, modular standard. Round sizes are also shown. By "nominal" size

is meant actual size plus half an inch for each dimension as joint space. The modular movement seeks to reduce all sizes of installed materials to multiples or derivatives of a four inch "module".

# CONCRETE, MASONRY, TILE, BRICK

## Selected Wire Reinforcement Details



### RECOMMENDED STYLES OF WELDED WIRE FABRIC FOR VARIOUS REINFORCED CONCRETE PROJECTS

TYPE OF CONSTRUCTION	RECOMMENDED STYLE	REMARKS
BARBECUE FOUNDATION SLAB	6x6-6/6 to 4x4-6/6	Use heavier fabric for heavier, more massive fireplaces or barbecue pits.
BASEMENT FLOORS	6x6-10/10 or 6x6-6/6	For small areas (15' maximum dimension) use 6x6-10/10. As a rule of thumb, the larger the area, the poorer the sub-soil, the heavier the gauge. Fabric must not pass through joints.
DRIVEWAYS	6x6-6/6	Continuous reinforcement between 25 to 30 foot contraction joints, 1 1/2-3 inch clearance at sides and joints.
FOUNDATION SLABS (Residential only)	6x6-10/10	Use heavier gauge over poorly drained sub-soil, when maximum dimension is greater than 15 feet, or when heating ducts are embedded.
GARAGE FLOORS	6x6-6/6	Fabric must not pass through joints.
PATIOS & TERRACES	6x6-10/10	Use 6x6-6/6 if sub-soil is poorly drained.
PORCH FLOOR	a. 6" thick slab up to 6' span b. 6" thick slab up to 8' span	Position on nails or blocks one inch from bottom form to resist tensile stresses.
SIDEWALKS	6x6-10/10	Use heavier gauge over poorly drained sub-soil. Construct 25 to 30 foot slabs as for driveways, but form "dummy" joints for appearance. For narrow walk, cut lengths of fabric in half longitudinally.
STEPS (Free span)	6x6-6/6	Use heavier style if more than 5 risers. Position fabric 1 inch from bottom form.
STEPS (On the ground)	6x6-6/6	

Courtesy Wire Reinforcement Institute, Inc.

# CONCRETE, MASONRY, TILE, BRICK

## 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
<p>Zone 1. roughly includes design temps. of -20°F. &amp; lower Zone 2. from 0°F. to -10°. Zone 3. areas warmer than 0°F.</p>	Unheated	FLAT ROOF Slope less than $\frac{3}{12}$ (ctr.)	1/300 Uniformly distributed at eaves. Free circulation through all spaces required	Required on warm side in top story ceiling.		
	Unheated	CABLE ROOF Slope over $\frac{3}{12}$	1/300 At least 2 louvers on opposite sides near ridge.	Required on warm side in top story cell.	Considered unnecessary.	
	Unheated	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.	
	Heated	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.	

\*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
<b>● Sheathing and Roofing Products</b>			30-85-30 untreated, reinforced	.296	.654
15-lb. sheathing paper	2.555	3.847	30-120-30 untreated, reinforced	.346	.389
15-lb. tar felt	1.560	4.055	60-30-60 1 covering sheet saturated with asphalt	.935	1.037
30-lb. tar felt	33.304	.....	Duplex paper-coated both sides with reflector's material	.226	.....
15-lb. asphalt felt	.560	2.007	Duplex paper-coated both sides with reflector's material reinforced	.304	.347
30-lb. asphalt felt	.498	3.022	Duplex paper-covered with aluminum foil one side	.001	.107
Asphalt-coated paper	.146	.287	<b>● Single Sheet Kraft, Double-Infused</b>		
55-lb. roll roofing	.030	.081	Asphalt-saturated Kraft	7.447 to 7.987	..... to 11.656
<b>● Polyethylene Film</b>			Asphalt-saturated Kraft, 30% asphalt	30.764	.....
0.002 in. thick	.....	.270	<b>● Miscellaneous</b>		
0.004 in. thick	.097	.108	¾-in. fiberboard sheathing with light asphalt coat	6.320	8.460
<b>● Insulation Back-up Paper</b>			½-in. gypsum sheathing	18.200	21.950
Paraffin coating, 1 side	.133	.237	¾-in. gypsum lath with aluminum foil backing	.061	.277
Single infused	.433	.583	Aluminum foil mounted on paper backing	.003	.005
Single infused, ribbed	.162	.232	Premoulded membrane	.0066	.....
Asphalt saturated, one side glossy	.327	.377			
<b>● Duplex or Laminated Products, Asphalt Laminae</b>					
30-30-30 untreated	.447	1.081			
30-60-30 untreated	.527	.....			
30-100-30 untreated	.280	.....			
30-30-30 untreated, creped	.583	1.812			
30-30-30 untreated, reinforced	.305	.....			

# NEW ADDITION

TO THE FABULOUS FONTAINEBLEAU



## **Addition to Fontainebleau Hotel, Miami Beach, Florida**

*Architect:* A. Herbert Mathes, Miami, Fla.

*General Contractor:* Taylor Construction Co., Miami, Fla.

*Masonry Contractor:* Kirkland Masonry Co., Hialeah, Fla.

## **FACTS ABOUT THE FONTAINEBLEAU ADDITION**

The proportions of the new addition to the Fontainebleau are immense. For example, a ballroom that is 200 x 140 feet, the largest in the world. A theater-banquet room that will seat 4,000 at a dinner. Set up for a performance, it will seat 6,000. A new building with 400 hotel rooms is going up right alongside. A little over three miles of Keywall is being used as a masonry reinforcement in the new addition.

*BUILT TO STAY YOUNG WITH*

# KEYWALL

**galvanized masonry reinforcement**

You can't be leaning over the shoulder of each mason all the time to make sure he uses the reinforcement right. Yet proper use of the reinforcement makes the difference between a building that stays young and one that ages fast. But what can you do?

Here's one man's answer. Masonry Contractor Hugh Kirkland says, "Lapping is the key to proper masonry reinforcement. Here's what I mean. Some masonry reinforcement is hard to lap. Too thick. By thick I mean an  $\frac{1}{8}$  inch in diameter. Lapped, that's a quarter inch. So, with a  $\frac{5}{8}$  inch mortar joint, you get little mortar around the wire. That means poor bond, poor embedment. So what happens? Most of the time reinforcement is butted, not lapped. That's even worse.

"We simply avoid the problem. We use Keywall. It comes in 200 foot rolls, not short lengths. So you very seldom have to lap it. And when you do, it's easy . . . easier than butting it. So of course, my men lap it. And when Keywall is lapped, there's still plenty of room for mortar.

"Keywall is a lot easier for my men to handle because it comes in rolls. It's easier to cut, too.

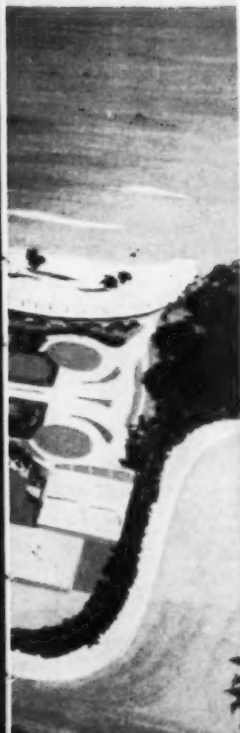
"But it's not only a matter of my men liking it. Keywall reduces shrinkage very effectively. And it's economical. What could be better than Keywall?"

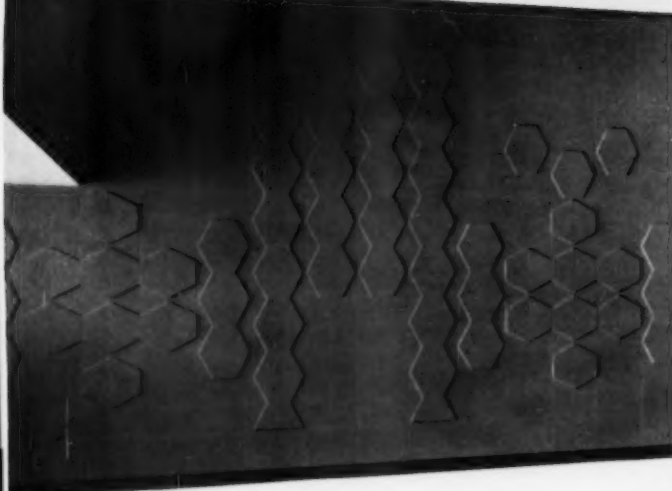
## KEYSTONE STEEL & WIRE COMPANY

Peoria 7, Illinois

KEYWALL • KEYMESH® • KEYCORNER • KEYDECK • WELDED WIRE FABRIC • NAILS

Just unroll it and you're ready to go. Joe Kuntz, Superintendent for the Masonry Contractor, Hugh Kirkland, shows how easy Keywall is to work with for the benefit of mason Fred Kinnaird. Keywall is made for wall thicknesses of 4", 6", 8", 10", and 12".



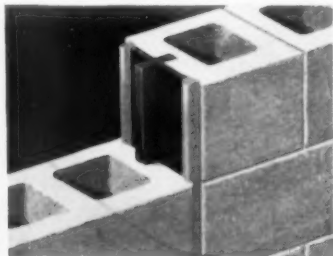


Long live the beauty of block!  
**—with Dur-o-wal to make it  
 more than twice as strong!**

When reinforced every second course with Standard Dur-o-wal, the flexural strength of a masonry wall increases 71 per cent—comparable to other types of reinforcement used every course. But Dur-o-wal can do even better. When Extra Heavy Dur-o-wal is used every course with Class A mortar, flexural strength increases a mighty 261 per cent!

Those are solid facts, established by independent engineering tests and research.

Builders everywhere are relying on Dur-o-wal's trussed design, butt-welded construction, scientific ally deformed rods, to give good-looking modern masonry extra years of life. Nationally wanted, Dur-o-wal is nationally distributed. Wherever you build a masonry wall, you can get Dur-o-wal. See us in Sweet's Catalog.



Two engineered products that meet a need. Dur-o-wal reinforcement, shown at left, and Rapid Control Joint, right. Weatherproof neoprene flanges on the latter flex with the joint, simplify the caulking problem.

# DUR-O-WAL®

Masonry Wall Reinforcement and Rapid Control Joint

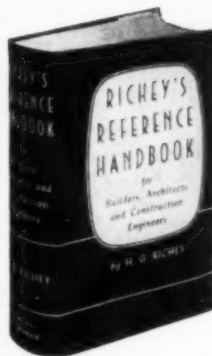
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# BRIXMENT

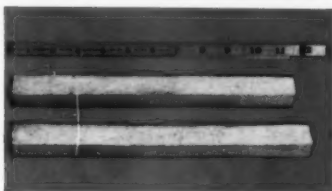
provides the ideal balance  
of **9** essential characteristics

**S**OME mortars may be very strong, but lack other important properties such as workability, etc. Other mortars may be very plastic, yet lack necessary qualities such as durability, etc. *For good masonry construction at lowest cost, mortar must have a proper balance of ALL the essential characteristics shown below.*

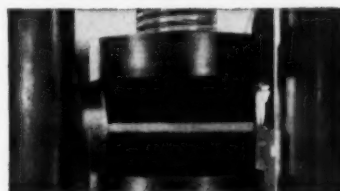
Brixment mortar *does* combine these characteristics, to a higher degree than any other mortar. It is this *combination* of advantages that makes Brixment superior to any mixture of portland cement and lime—and which also accounts for the fact that Brixment has been the leading masonry cement for over 40 years.



**PLASTICITY.** Mix a batch of Brixment mortar, and a batch of 1-1-6 portland cement-and-lime mortar. Test each mortar by bedding a few bricks. You will find that the Brixment mortar is much more workable.



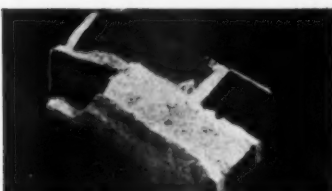
**SOUNDNESS.** Brixment meets the requirements of the ASTM and Federal specifications for autoclave soundness. This test proves that Brixment mortar does not expand after long exposure to weather.



**STRENGTH.** Brixment exceeds the requirements of the ASTM and Federal specifications for Type II masonry cement. Brixment mortar also meets the requirements of the ASTM specifications for Type N mortar.



**LOW EFFLORESCENCE.** Cap one brick with Brixment mortar, and another with cement-and-lime mortar. Let cure, then place in pan of shallow water. After a few days you will see that Brixment helps prevent efflorescence.



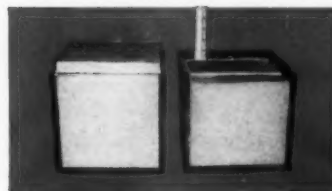
**BOND.** Brixment mortar's great plasticity and high water retaining capacity permit a more complete bedding of the brick, with greater area of contact between brick and mortar—hence tighter bond.



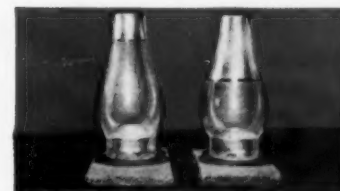
**WATER RETENTION.** Place a dab of Brixment mortar and a dab of 50-50 cement-and-lime mortar on a brick or concrete block. Wait a minute, then feel each mortar. High water retention makes Brixment mortar stay plastic longer.



**DURABILITY.** Make a cylinder of Brixment mortar and a cylinder of 50-50 cement-and-lime mortar—cure for 30 days—place cylinders in pan with  $\frac{1}{4}$ " of water and freeze and thaw. After a number of cycles, you will see that Brixment mortar is far more durable.



**YIELD.** Measure out 1 cu. ft. of sand (80 lbs.) and  $\frac{1}{2}$  bag of Brixment (23 $\frac{1}{2}$  lbs.). Also measure out the same amount of sand and  $\frac{1}{2}$  bag of hydrated lime (8 $\frac{1}{2}$  lbs.) and  $\frac{1}{2}$  bag of portland cement (15 $\frac{1}{2}$  lbs.). Make a workable mortar from each batch, then place each batch into a box holding 1 cu. ft. You will find that Brixment mortar gives from 5% to 15% greater yield.



**IMPERMEABILITY.** Prepare a slab of Brixment mortar, and one with ordinary cement-and-lime mortar. After they have hardened, wax-seal a lamp chimney to each slab, and fill with water. After 24 hours you will see that much less water has gone into or through the Brixment slab.

**LOUISVILLE CEMENT COMPANY, LOUISVILLE 2, KENTUCKY**  
Cement Manufacturers Since 1830



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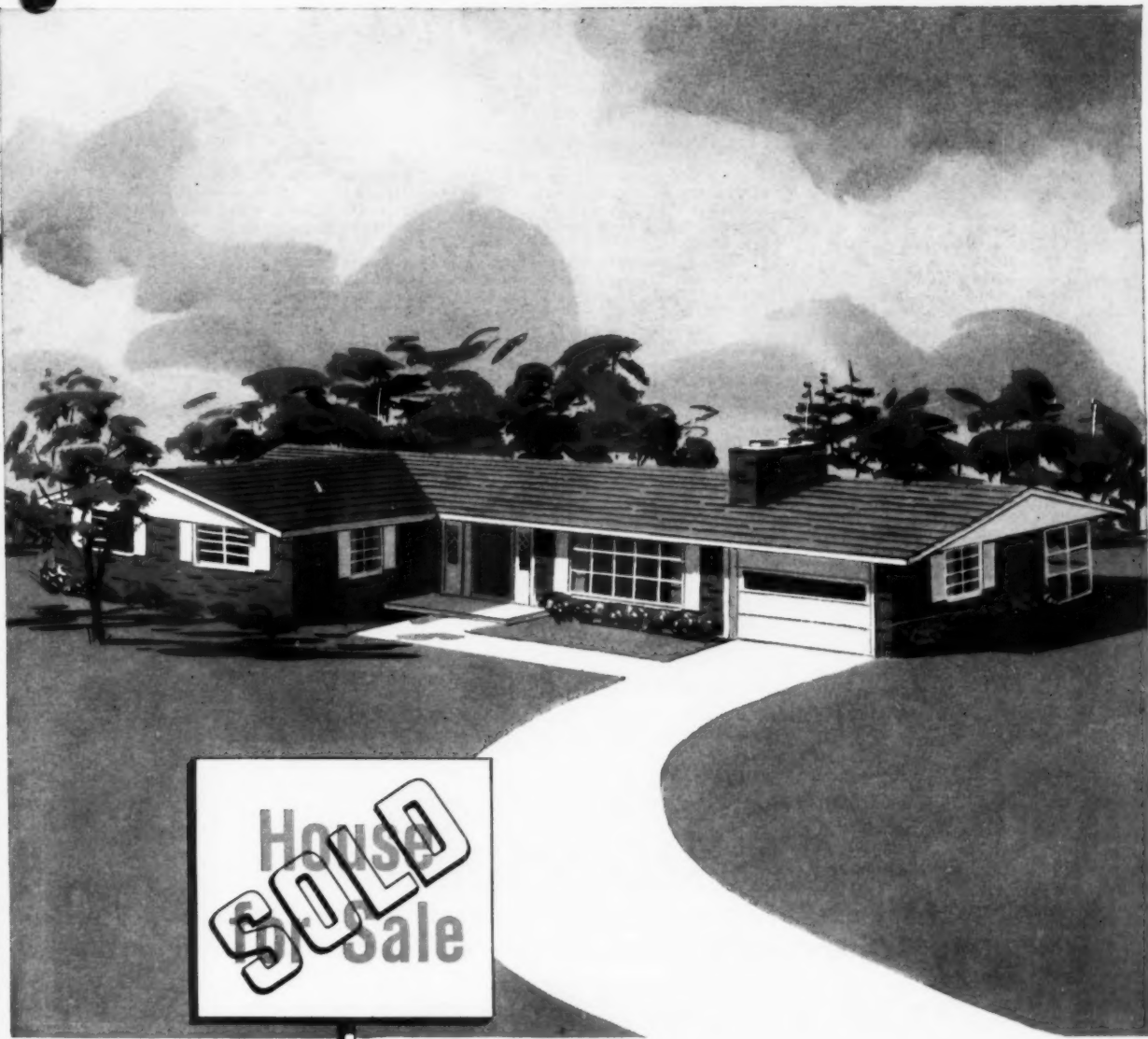
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## BRAND NAMES DIRECTORY

(Continued from page 120)

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LIFTAMATIC Sasgen Derrick Co  
LIFT-A-SHELF Acme Appliance Mfg Co  
LIGHTSTEEL Penn Metal Co Inc  
LIGNOPHOL Sonneborn L Sons Inc  
LIMPET Keasbey & Mattison Co  
LINDBECK Wooster Brush Co  
LINE-O-LAMPS Wiremold Co  
LINK American Sta-Dri Co  
LIN-O-LITE Frink Corp  
LION-BOND Cambridge Tile Mfg Co  
LION MITER MASTER Pootatuck Corp  
LION UNIVERSAL TRIMMER Pootatuck Corporation  
LIQUICURE Allied Compositions Co Inc  
LIQUID ALUMINUM Chicago Bronze & Color Works  
LIQUID 8 Wurdack Chemical Co  
LIQUID LITE O'Brien Corp  
LIQUID RAWHIDE Linseed Oil Prods Co  
LIQUID STAINLESS STEEL Lockrey Co  
LIQUID VELVET O'Brien Corp  
LITE ACOUSTIC Bestwall Gypsum Co  
LITE-MIX Bestwall Gypsum Co  
LITEN-AIRE Swartwout Co  
LITTLE AMERICAN Am Floor Machine  
LITTLE GIANT Master Lock Co  
LITTLE HUMMER Wagner Mfg Co  
LITTLE MAJOR Arro Expansion Bolt Co  
LITTLE WIZARD Round David & Son  
LIVING-AIR Mayflower Air-Conditioners  
L KITCHEN CABINETS Earle Kitchen Unit Co

LOAD LIFTER Manning Maxwell & Moore Inc Shaw-Box Crane & Hst Div  
LO-BOY Airtemp Div Chrysler Corp  
LOCKE HOUSETIME GUARANTEED Locke Manufacturing Co  
LOCKPRIME Pennsalt Chemicals Corp  
LOCK-TITE Lockhart Mfg Corp  
LOCK-TITE Oregon-Washington Plywood  
LOCKWOOD Cloud Oak Flooring Co  
LODE-STAR Klise Mfg Co  
LOGAN Logan Clay Prods Co  
LOGAN-LOCK Logan Clay Prods Co  
LOGMASTER Remington Arms Co Inc  
LO-HED American Engineering Co  
LOKATOR Edwards Co Inc  
LOKD BAR Hopes Windows Inc  
LOK-FLANGE Reed Cromex Corp  
LOK-FRAME Inland Steel Products Co  
LO-K INSULATION Lockport Mills Inc  
LUK-ON Certain-Teed Sales Corp  
LOK-RIB Inland Steel Products Co  
LOK-TAB Leigh Building Products Div  
LOK-TAB Ruberoid Co  
LOKTITE U S Expansion Bolt Co  
LO-LOSS National Electric Div  
LONE STAR Lone Star Cement Corp  
LONE-STAR Binswander Glass Co  
LONG BOY Wooster Brush Co  
LONG LIFE Goodall Rubber Co Inc  
LOOK-ALUMINUM Russel F C Co  
LOS RANCHOS Midland Brick & Tile Co  
LOUVER-DOR Allied Metals Inc  
LOUVER-GLASS Kirlin Co  
LOUVREX Blue Ridge Glass Corp  
LOWLINE Swartwout Co  
LOXFRAME Loxscreen Co Inc

LOXON Sherwin-Williams Co  
LOXSCREEN Loxscreen Co Inc  
LOXTRIM Loxscreen Co Inc  
LOZENGE ANTIQUE Mondial United  
LUBRI-TASCON Cabot Samuel Inc  
LUMASKIN Ludlow Papers Inc  
LUMI-PLASTIC Luminous Ceilings Inc  
LUMINALL National Chemical & Mfg Co  
LUMITE Chicopee Mills Inc Lumite Div  
LUNGEN Edwards Co Inc  
LUPTON Flynn Michael Mfg Co  
LUSTARITE Mobile Paint Mfg Co  
LUSTERLITE Insulite Div  
LUSTERTONE Elkay Mfg Co  
LUSTRA GRAY American-Saint Gobain  
LUSTRACRYSTAL Amer-Saint Gobain  
LUSTRAGLASS American-Saint Gobain  
LUSTRAVIEW Miami Cabinet Div  
LUSTRAWHITE American-Saint Gobain  
LUSTRE TONE O'Brien Corp  
LUSTRELINE Zegers Inc  
LUSTRE-UP O'Brien Corp  
LUSTRO-O-LITE Lustro Tile Mfg Co  
LUSTRO-WARE Columbus Plastic Prods  
LUXAIRE Olsen C A Mfg Co  
LUXALL National Mfg Corp  
LUXETTE Luxor Carpet Co  
LUXLITE COOLITE Mississippi Glass Co  
LUX-RIGHT Saint Paul Corrugating Co  
LUXSTAR Ceresit Waterproofing Corp  
LUXSTONE Minnesota Paints Inc  
LUXTROL LIGHT CONTROL Superior Electric Company  
LYDIAN Luxor Carpet Co

(Continued on page 146)

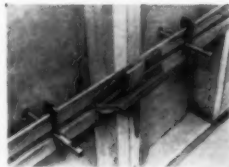
You can pour better walls  
**FASTER** and **CHEAPER** with...

**ROCFORM  
SYSTEMS**

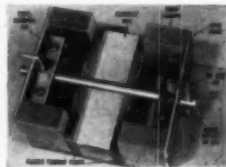
Now ROCFORM offers two great systems to meet every contractor's wall form needs in residential, industrial, commercial and institutional work.

**THE ORIGINAL ROCFORM SYSTEM**—Metal walers are permanently built into forms. Sections lock together with wedge-action clamps which eliminate nailing and make possible 200 to 400 pours. Tapered steel tie rods automatically give desired wall thickness and can be used continuously. Inside round corner form and adjustable outside corner clamps allow for 3-inch variable and eliminate filler strips.

**NEW ROCFORM ADAPT-A-CLAMP SYSTEM**—Offers extreme flexibility of application. Use the complete Adapt-A-Clamp System or convert your present panels. Use permanent tie-rods or snap-ties as you prefer. With Adapt-A-Clamp hardware you can "tailor-make" a system suited to the exact requirements of any job and at the same time benefit from all the advantages of time-tested Rocform methods.



WEDGE-ACTION CLAMPS



RE-USABLE TAPERED TIE-ROD



OUTSIDE CORNER CLAMPS



SLIP ON ADAPT-A-CLAMP



INSERT TIE-ROD



SECURE TIE-ROD PIN

Only ROCFORM systems offer all the features, all the advantages wanted by concrete wall contractors today!

- **ELIMINATES WOOD WALERS** and 90% of bracing
- **FASTER SET-UP TIME**, because of simplification
- **FASTER STRIPPING TIME**, proven against the clock
- **LONGER FORM LIFE**, eliminates nailing

STRAIGHT OR CUT-UP . . . ROCFORM ALWAYS FORMS A BETTER WALL, FASTER!

SEND FOR FULL INFORMATION ON ROCFORM TODAY!

**Rocform** CORPORATION  
DEPARTMENT AB460  
15160 W. EIGHT MILE ROAD • DETROIT 35, MICH.

NEW-TYPE  
**living concrete**



## modern concrete

**gives homes the special features that really spark sales!**

There's practically no limit to the ways concrete can stimulate home-buyer interest and excitement. Cast-in-place, shaped, assembled, colored, polished—concrete fits the most imaginative ideas.

From striking masonry walls to unusual patios and yard accents, concrete adds that vital fresh appeal.

Today magazines and newspapers are giving increasing editorial emphasis to this versatile material. Special PCA advertising in top "home" publications—*Better Homes & Gardens*, *House Beautiful*, and *Living for Young Homemakers*—is adding to public interest in concrete and concrete masonry . . . in new-type *living concrete*!

Of course, concrete is your sure way to say "quality." Low on care, long on life, it promises sound investment. Idea literature is free to you on request. (U.S. and Canada only.)

### **PORTLAND CEMENT ASSOCIATION**

Dept. 4-3, 33 W. Grand Ave., Chicago 10, Ill.

*A national organization to improve and extend the uses of concrete*

#### **A FEW WAYS CONCRETE CAN CREATE EXTRA BUYER APPEAL**

1. Concrete slab floor of gleaming terrazzo.
2. Patio of cast-in-place concrete with exposed aggregate.
3. Driveway in bright, clean concrete.
4. Swimming pool of lifetime concrete.
5. Garden wall of concrete masonry grille block.
6. Tree curbing of concrete masonry split block.
7. Carport screen of 3-D concrete masonry units.

# POURING BASEMENTS CAN BRING EXTRA PROFITS and STRONGER FOUNDATIONS

**SIMPLEX makes it easy...it is a fast and flexible forming system**

## SET FASTER

Now finish a complete foundation in 16-24 man hours with only 3 men! Simplex Forms go up with ease. Inner and outer forms are "keyed" for speed... are set simultaneously. Tie rods are quickly positioned... patented locking levers are tapped in place; exclusive cam action draws panels tight.



## POUR FASTER

Simplex Forms are strong! Their rigid assembly permits fast pouring. Pour at one corner or four corners at a time. Vibrating concrete won't shift or loosen forms as they are locked firmly in place. Each panel automatically adjusts to the condition of the footing.



## STRIP AND MOVE FASTER

Simplex Forms are 1 1/4" plastic-impregnated (9-ply) plyglaze. This insulates in winter... easier to handle than steel in summer. Forms are unlocked by tapping levers upward... forms are easy to lift (2' x 8' forms weigh only about 65 lbs.). Because locking hardware is bolted to each form there are fewer man-hours required to strip and move. A complete set of forms and accessories can be moved on a 12-foot bed truck! One trip between jobs.



## SMOOTH, ACCURATE WALLS

Simplex Forms produce walls with the look of architectural concrete. Because panels are drawn together snugly, seam marks are minimized... positive wall dimension is assured! This means accuracy that counts in customer-satisfaction, home salability, and surer erecting—especially of pre-fabs.



Send for Complete Details  
Enclose your foundation sketches for estimate!  
**SIMPLEX FORMS SYSTEM, INC.**  
5619 Industrial Avenue  
Rockford (Loves Park) Illinois

## BRAND NAMES DIRECTORY

(Continued from page 144)

LYFALUM Lyf-Alum Inc  
LYNRUS Price Fire & Water Proofing Co  
LYNRUS FR-1 Price Fire & Water Proofing Co  
LYNTON Fabrikona Inc  
LYT-ALL Pratt & Lambert Inc  
M-D Macklanburg-Duncan Co  
M-DECK Mahon R C Co  
M-1000 DOOR Morgan Company  
MACK Mack Trucks Inc  
MACO-CRAFT Maco Corp  
MADE-RITE Anson & Gilkey Co  
MADUCO Macklanburg-Duncan Co  
MAESTRO COLORS Pittsburgh Plate Glass Co  
MAGIC LINK Modenaire Corp  
MAGIC-FOLD Closures Sales Corp  
MAGIC-FOLD DOOR Clopay Corp  
MAGI-GREEN Lockrey Co  
MAGIKOTER Wooster Brush Co  
MAGNA-LINE Skyline Industries Sales  
MAGNALITE (Level) Graham John H  
MAGNELITE Scharf J H Mfg Co  
MAGNESITE UNDERLAYMENT Thomas Moulding Floor Co Inc  
MAGNOLIA Southern Cement Co  
MAGNOLIA (Carpet) Luxor Carpet Co  
MAG-O-CRETE Camp Co Inc  
MAID-MATIC DISHWASHER James Manufacturing Company Inc  
MAID OF ATHENS Athens Stove Works  
MAINLINER Aurora Pump Div  
MAJOR LINE Major Line Prods Co Inc  
MAKE YOUR OWN Larson Chas O Co  
MAL-LEAD BOLT ANCHOR Arro Expansion Bolt Co  
MALT-A-GLIDE Malta Mfg Co  
MALT-A-MATIC Malta Mfg Co  
MALTA TOWN AND COUNTRY Malta Manufacturing Co  
MALT-A-VENT Malta Mfg Co  
MALTESE CROSS BRAND Seattle Cedar Lumber Mfg Co  
MANHATTAN Raybestos-Manhattan Inc  
MARAUDER Ottawa Steel Div  
MAR-GON United Gilsonite Laboratories  
MARB-L-COTE National Chemical & Mfg  
MARBLE FLAIR Wallace Mfg Co  
MARBLETRED Thomas Moulding Floor  
MARCO FOLDING STAIRWAYS Fabricon Company  
MARDI-GRAS United States Plywood  
MARGOLD Heilig Bros Co  
MARINITE Johns-Manville Corp  
MARKWA Vermont Marble Co  
MARLITE BLOCK Marsh Wall Prods Inc  
MARLITE CELESTIAL Marsh Wall Prods  
MARLITE HI GLOSS Marsh Wall Prods  
MARLITE KORELOCK Marsh Wall  
MARLITE MARBLE PANEL Marsh Wall  
MARLITE PEG-BOARD Marsh Wall  
MARLITE PLANK Marsh Wall Prods Inc  
MARLITE POLISH Marsh Wall Prods Inc  
MARLITE RANDOM PLANK Marsh Wall  
MARLITE TRENDWOODS Marsh Wall  
MAR-NOT Rayco Products Inc  
MARSCHKE Grinding & Polishing Mach  
MARSH MOULDINGS Marsh Wall Prods  
MARTHA WASHINGTON Gray & Dudley  
MARVAIR Muncie Gear Co  
MARVAN TAPE Marvan Corp  
MARVEL Marvel Equipment Co  
MARVEL ADJUSTABLE TRESTLE Marvel Equipment Co  
MARVEL A-JUSTO FRAME Marvel Equipment Company  
MARVEL JR LIGHT-WEIGHT Marvel Equipment Company  
MARVEL-LIFT Crawford Door Co  
MARVELWITE Sonneborn L Sons Inc

(Continued on page 180)

# PERMALITE CONCRETE

## in Light Construction

### ● INSULATING

20 times the insulation of ordinary concrete. 2" of insulating concrete offers more insulation than 1" of most insulation boards. Slope to drain and insulate in one operation.

### ● LIGHT IN WEIGHT

Concrete mixed with Permalite expanded perlite aggregate weighs from 22 to 36 lbs/cu.ft., with compressive strengths of 95 to 440 psi. Permalite-sand blends offer strengths in excess of 1,000 psi.

### ● COST SAVING

Permalite concrete combines roof deck and insulation in one easy-to-place slab. Low deadload permits lighter beams and joists, incombustible deck offers insurance savings.

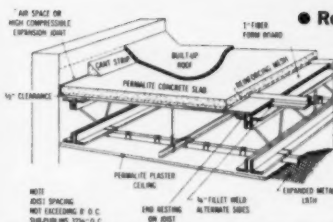
### ● OTHER ADVANTAGES

Fire safe. Can't rot or decay. Termite-proof and vermin-proof. Not damaged by water. Can be job-mixed, transit-mixed or precast. Easy placement on flat, curved or pitched surfaces. Drill, nail or saw with carpenter's tools.

Permalite expanded perlite offers many advantages in insulating core fill, in acoustical plaster and in lightweight plaster. See your franchisee.

- Permalite expanded perlite aggregate is produced only by licensed franchisees from ore supplied by Great Lakes Carbon Corporation.

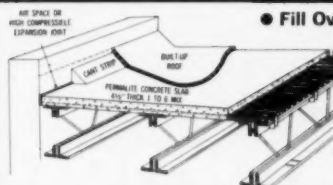
### ● Roof Deck Over Formboard



Offers weight savings up to 4 lbs/sq. ft. over many other poured-in-place decks of comparable insulating value.

Permalite Thickness	1" fiber board		1" glass fiber board		1" asbestos-cement board	
	"U" value	Wt. psf	"U" value	Wt. psf	"U" value	Wt. psf
2 1/2"	0.121	7.00	0.106	6.60	0.182	8.25
3"	0.109	8.10	0.097	7.75	0.158	9.35
3 1/2"	0.100	9.25	0.090	8.90	0.139	10.50
4"	0.092	10.35	0.083	10.00	0.124	11.60

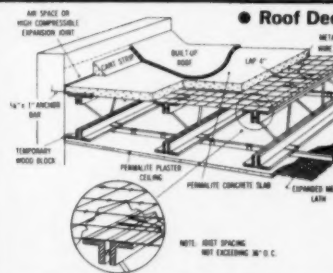
### ● Fill Over Corrugated Steel Deck



Permalite insulating concrete, poured monolithically over galvanized corrugated steel sheet welded to structural supports. Low in cost, exceptionally strong and well-insulated. Suitable where wide spans or high load carrying capacity are required.

Thickness over Corrugations	Depth of Corrugations					
	1/2"		3/4"		1 1/4"	
	"U" value	Wt. *	"U" value	Wt. *	"U" value	Wt. *
2"	.200	6.00	.192	6.50	.177	7.45
3"	.149	8.25	.144	8.85	.136	9.70
4"	.118	10.25	.115	11.10	.110	11.95

### ● Roof Deck Over Metal or Wire Lath



Low cost solutions combining light structural strength, insulation and permanence, where joist or sub-purlin spacing does not exceed 36" on centers.

#### NOTE:

Weights shown are lbs/sq. ft. for 1:6 mix and include dry weight of Permalite concrete and permanent form. Add 6.00 lbs/sq. ft. for 4-ply built-up roof.

Thickness over Joists	Paperbacked Wire Mesh		Ribbed Metal Lath	
	"U" value	Wt. *	"U" value	Wt. *
2"	0.185	5.98	0.219	5.25
3"	0.140	8.23	0.159	7.50
4"	0.112	10.48	0.125	9.75

### ● Floor and Slab Construction

Sub-slab of Permalite insulating concrete under radiant heating systems can reduce heat loss by 25%.

COLORADO Persolite Products, Inc., Denver 4 FLORIDA Airlite Processing Corp. of Florida, Vero Beach ILLINOIS Silbrico Corp., Chicago 38. Ryolox Corp., Champaign INDIANA Airlite Processing Corp., Scottsburg MASSACHUSETTS The Whittemore Co., Cambridge MICHIGAN Gregg Products Co., Grand Rapids MINNESOTA Minnesota Perlite Corp., Minneapolis MISSOURI J. J. Brouk & Co., St. Louis 10 NEW JERSEY Certified Industrial Products, Inc., Hillside NEW YORK Buffalo Perlite Corp., Buffalo 25 (Cheektowaga) PENNSYLVANIA Pennsylvania Perlite Corp., Allentown, Pennsylvania Perlite Corp. of York, York. Perlite Manufacturing Co., Carnegie TEXAS Perlite of Houston, Inc., Houston. Texas Lightweight Products Co., Irving VIRGINIA Perlite Corp., Hopewell. CANADA Western Perlite Co. Ltd., Calgary, Alberta. Perlite Products, Ltd., Winnipeg, Manitoba. Perlite Industries, Reg'd., Ville St. Pierre, Quebec. CUBA West Indies Perlite Manufacturing Corp. S.A., Havana. MEXICO Materiales Carr, S.A., Mexico 5, D.F.

Call your nearest Permalite Franchisee  
or send coupon to

# Permalite

Perlite Dept.,  
GREAT LAKES CARBON CORPORATION  
612 So. Flower Street, Los Angeles 17, Calif

I would like information on Permalite in:

- Roof Decks       Insulating Floor Fill       Acoustical Plaster  
 Fireproofing       Core Fill Insulation       Lightweight Plaster  
 Lightweight Concrete       Ready-Mix Concrete

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

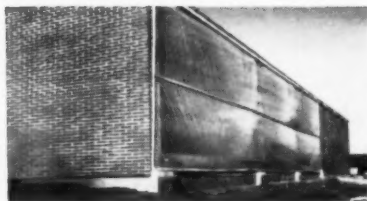
Promote the benefits of a GER-PAK TIGHT HOUSE!

**PAYS OFF IN  
BUYER  
SATISFACTION—  
AND  
BUILDER  
PROTECTION**

Banish cellar floor dampness complaints. Use GER-PAK Polyethylene Sheeting—the low cost water vapor barrier that provides positive protection under concrete slabs. Meets, by a wide margin, the requirements of F.H.A., Corps of Engineers standards, and complies with U.S. Dept. of Commerce CS-227-59 standards. GER-PAK eliminates splices and overlaps because it comes in SEAMLESS widths up to 40 feet! GER-PAK's easy-to-work-with nature lets you do your job exactly as specified on your blueprints—quickly, efficiently, perfectly!

Low-cost GER-PAK's versatility works with you many other ways. Gives superior dust and water vapor sealing between floors; protects materials and equipment from weather; in side walls prevents water vapor damage; plus dozens of other on-the-job uses.

You'll find tough, lightweight, dependable GER-PAK available in CLEAR, BLACK or opaque WHITE in the broadest range of seamless widths and stock thicknesses up to 10 mil. For truly superior polyethylene sheeting, specify GER-PAK to your dealer! Send for free samples.



**CLOSING-IN** framed structures or unfinished windows and doors lets you stick to your schedule right through bad weather.

The short way to say superior polyethylene sheeting

**GER-PAK**<sup>®</sup>

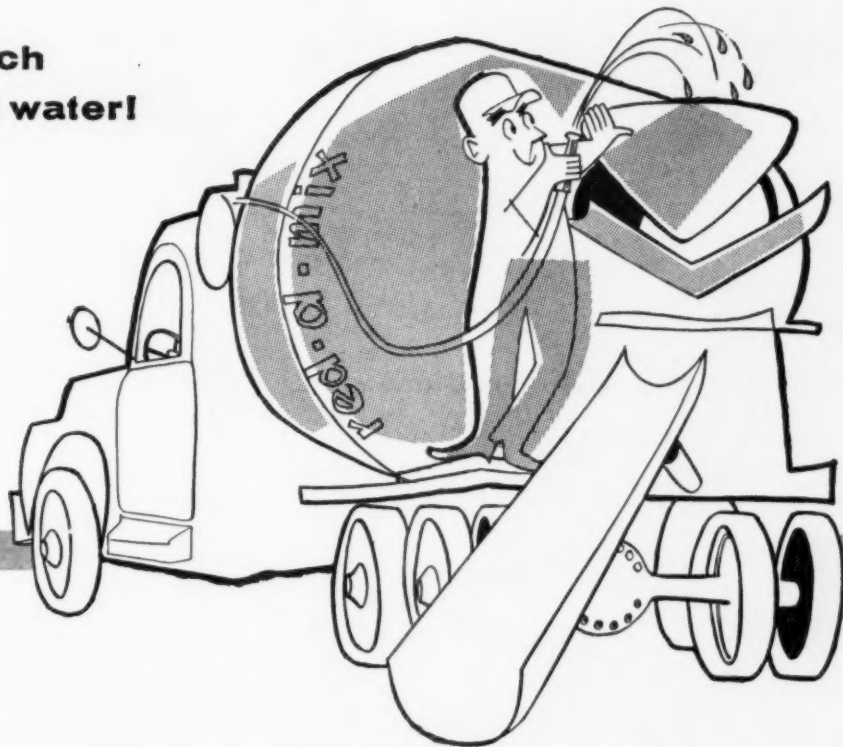
GERING PLASTICS division of STUDEBAKER-PACKARD CORP.,  
Kenilworth, N. J.

Conveniently warehoused in: Kenilworth, N.J. • Dallas, Texas • Memphis, Tennessee • Chicago, Illinois • Los Angeles, California • Oakland, California

For your local GER-PAK distributor ...



**watch  
that water!**

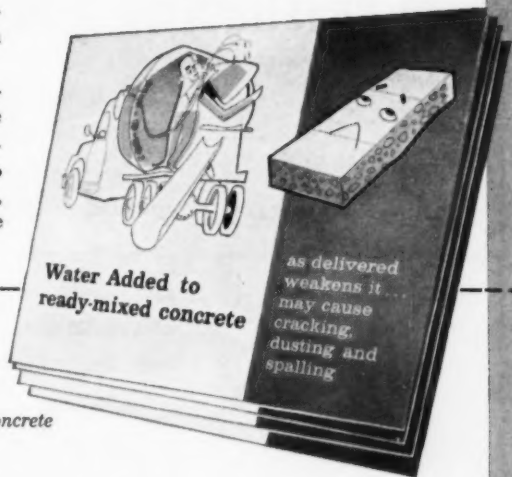


**For quality concrete . . .  
don't add extra water!**

Ready-mixed concrete is designed for the job and delivered with all the water needed. Adding more can only cause trouble—cracking, spalling, dusting.

Reminding crews of this is important to your reputation for quality work. Do it easily by displaying the special poster (pictured at right) prepared by PCA.

It's one of a set of 4 posters reminding workers to safeguard quality by protecting concrete against heat, wind and freezing. A set is yours for the asking. (Free in U.S. and Canada only.) Just send the coupon.



**FREE . . . SEND FOR YOUR POSTERS TODAY!**

**PORTLAND CEMENT ASSOCIATION**

Dept. 4-3, 33 W. Grand Ave., Chicago 10, Illinois

*A national organization to improve and extend the uses of concrete*

Please send a free set of Quality Reminder posters.  
I could also make use of ( ) additional sets.

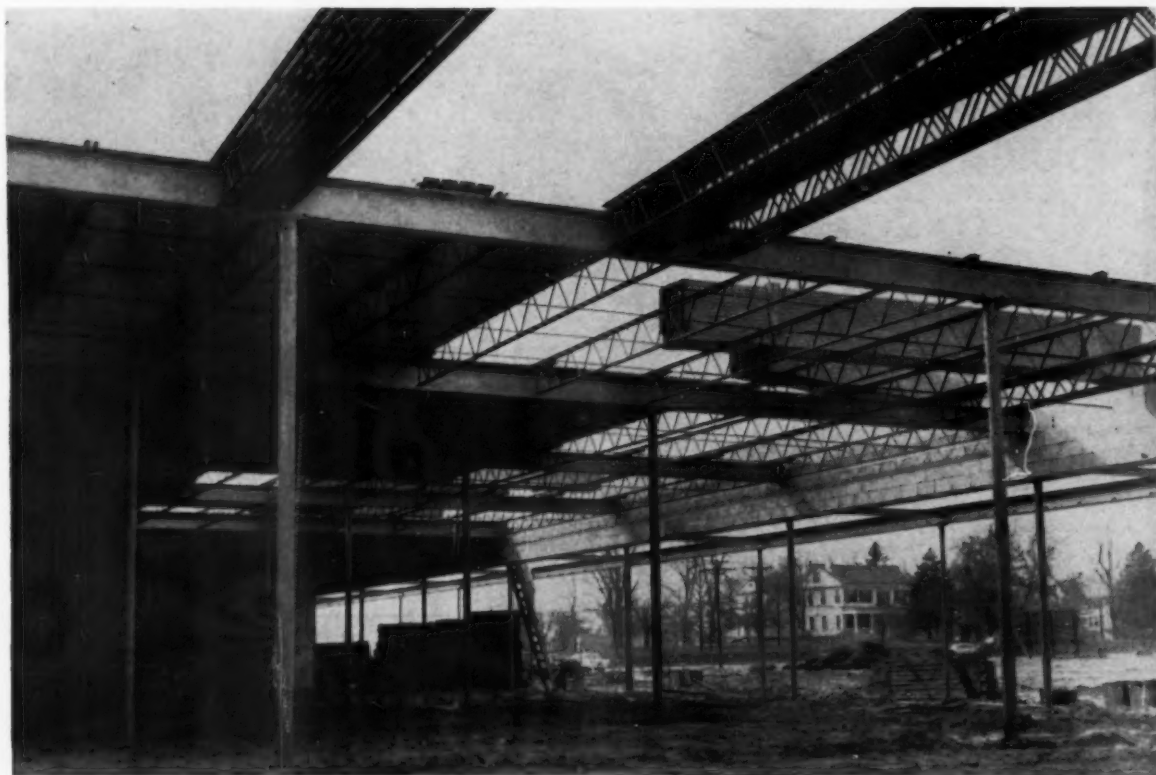
COMPANY NAME \_\_\_\_\_

YOUR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

**Quality Reminder posters,  
22" x 17", 3 colors.  
Sets of 4 are free.**



# LACLEDE STEEL JOISTS

## speed construction time for a modern shopping center

Here's another example of fast, economical construction with Laclede Open Web Steel Joists. In the new Monticello Plaza Shopping Center, Godfrey, Ill., more than 60,000 square feet of roof area is spanned efficiently with 65 tons of Laclede joists.

These lightweight, high strength structural members are quickly and easily set in place . . . bolted . . . stabilized horizontally with continuous horizontal bridging . . . and covered with steel deck . . . a fast, simple form of modern construction.

Architects and engineers for the Monticello Plaza Shopping Center are S. T. Pabst and Associates. General contractor is Wolff Construction Co.



**LACLEDE STEEL COMPANY**

SAINT LOUIS, MISSOURI



Producers of Steel for Industry and Construction



# 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.....	10 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	16	18 <sup>3</sup> / <sub>4</sub>	21 <sup>3</sup> / <sub>4</sub>	24	26 <sup>3</sup> / <sub>4</sub>	29 <sup>3</sup> / <sub>4</sub>	32	34 <sup>3</sup> / <sub>4</sub>	37 <sup>3</sup> / <sub>4</sub>	40	42 <sup>3</sup> / <sub>4</sub>	45 <sup>3</sup> / <sub>4</sub>	48	50 <sup>3</sup> / <sub>4</sub>	53 <sup>3</sup> / <sub>4</sub>
4 x 6.....	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
4 x 8.....	21 <sup>3</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>4</sub>	32	37 <sup>3</sup> / <sub>4</sub>	42 <sup>3</sup> / <sub>4</sub>	48	53 <sup>3</sup> / <sub>4</sub>	58 <sup>3</sup> / <sub>4</sub>	64	69 <sup>3</sup> / <sub>4</sub>	74 <sup>3</sup> / <sub>4</sub>	80	85 <sup>3</sup> / <sub>4</sub>	90 <sup>3</sup> / <sub>4</sub>	96	101 <sup>3</sup> / <sub>4</sub>	106 <sup>3</sup> / <sub>4</sub>
4 x 10.....	26 <sup>3</sup> / <sub>4</sub>	33 <sup>3</sup> / <sub>4</sub>	40	46 <sup>3</sup> / <sub>4</sub>	53 <sup>3</sup> / <sub>4</sub>	60	66 <sup>3</sup> / <sub>4</sub>	73 <sup>3</sup> / <sub>4</sub>	80	86 <sup>3</sup> / <sub>4</sub>	93 <sup>3</sup> / <sub>4</sub>	100	106 <sup>3</sup> / <sub>4</sub>	113 <sup>3</sup> / <sub>4</sub>	120	126 <sup>3</sup> / <sub>4</sub>	133 <sup>3</sup> / <sub>4</sub>
4 x 12.....	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
4 x 14.....	37 <sup>3</sup> / <sub>4</sub>	46 <sup>3</sup> / <sub>4</sub>	56	65 <sup>3</sup> / <sub>4</sub>	74 <sup>3</sup> / <sub>4</sub>	84	93 <sup>3</sup> / <sub>4</sub>	102 <sup>3</sup> / <sub>4</sub>	112	121 <sup>3</sup> / <sub>4</sub>	130 <sup>3</sup> / <sub>4</sub>	140	149 <sup>3</sup> / <sub>4</sub>	158 <sup>3</sup> / <sub>4</sub>	168	177 <sup>3</sup> / <sub>4</sub>	186 <sup>3</sup> / <sub>4</sub>
4 x 16.....	42 <sup>3</sup> / <sub>4</sub>	53 <sup>3</sup> / <sub>4</sub>	64	74 <sup>3</sup> / <sub>4</sub>	85 <sup>3</sup> / <sub>4</sub>	96	106 <sup>3</sup> / <sub>4</sub>	117 <sup>3</sup> / <sub>4</sub>	128	138 <sup>3</sup> / <sub>4</sub>	149 <sup>3</sup> / <sub>4</sub>	160	170 <sup>3</sup> / <sub>4</sub>	181 <sup>3</sup> / <sub>4</sub>	192	202 <sup>3</sup> / <sub>4</sub>	213 <sup>3</sup> / <sub>4</sub>
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.....	42 <sup>3</sup> / <sub>4</sub>	53 <sup>3</sup> / <sub>4</sub>	64	74 <sup>3</sup> / <sub>4</sub>	85 <sup>3</sup> / <sub>4</sub>	96	106 <sup>3</sup> / <sub>4</sub>	117 <sup>3</sup> / <sub>4</sub>	128	138 <sup>3</sup> / <sub>4</sub>	149 <sup>3</sup> / <sub>4</sub>	160	170 <sup>3</sup> / <sub>4</sub>	181 <sup>3</sup> / <sub>4</sub>	192	202 <sup>3</sup> / <sub>4</sub>	213 <sup>3</sup> / <sub>4</sub>
8 x 10.....	53 <sup>3</sup> / <sub>4</sub>	66 <sup>3</sup> / <sub>4</sub>	80	93 <sup>3</sup> / <sub>4</sub>	106 <sup>3</sup> / <sub>4</sub>	120	133 <sup>3</sup> / <sub>4</sub>	146 <sup>3</sup> / <sub>4</sub>	160	173 <sup>3</sup> / <sub>4</sub>	186 <sup>3</sup> / <sub>4</sub>	200	213 <sup>3</sup> / <sub>4</sub>	226 <sup>3</sup> / <sub>4</sub>	240	253 <sup>3</sup> / <sub>4</sub>	266 <sup>3</sup> / <sub>4</sub>
8 x 12.....	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320
8 x 14.....	74 <sup>3</sup> / <sub>4</sub>	93 <sup>3</sup> / <sub>4</sub>	112	130 <sup>3</sup> / <sub>4</sub>	149 <sup>3</sup> / <sub>4</sub>	168	186 <sup>3</sup> / <sub>4</sub>	205 <sup>3</sup> / <sub>4</sub>	224	242 <sup>3</sup> / <sub>4</sub>	261 <sup>3</sup> / <sub>4</sub>	280	298 <sup>3</sup> / <sub>4</sub>	317 <sup>3</sup> / <sub>4</sub>	336	354 <sup>3</sup> / <sub>4</sub>	373 <sup>3</sup> / <sub>4</sub>
8 x 16.....	85 <sup>3</sup> / <sub>4</sub>	106 <sup>3</sup> / <sub>4</sub>	128	149 <sup>3</sup> / <sub>4</sub>	170 <sup>3</sup> / <sub>4</sub>	192	213 <sup>3</sup> / <sub>4</sub>	234 <sup>3</sup> / <sub>4</sub>	256	277 <sup>3</sup> / <sub>4</sub>	298 <sup>3</sup> / <sub>4</sub>	320	341 <sup>3</sup> / <sub>4</sub>	362 <sup>3</sup> / <sub>4</sub>	384	405 <sup>3</sup> / <sub>4</sub>	426 <sup>3</sup> / <sub>4</sub>
10 x 10.....	66 <sup>3</sup> / <sub>4</sub>	83 <sup>3</sup> / <sub>4</sub>	100	116 <sup>3</sup> / <sub>4</sub>	133 <sup>3</sup> / <sub>4</sub>	150	166 <sup>3</sup> / <sub>4</sub>	183 <sup>3</sup> / <sub>4</sub>	200	216 <sup>3</sup> / <sub>4</sub>	233 <sup>3</sup> / <sub>4</sub>	250	266 <sup>3</sup> / <sub>4</sub>	283 <sup>3</sup> / <sub>4</sub>	300	316 <sup>3</sup> / <sub>4</sub>	333 <sup>3</sup> / <sub>4</sub>
10 x 12.....	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400
10 x 14.....	93 <sup>3</sup> / <sub>4</sub>	116 <sup>3</sup> / <sub>4</sub>	140	163 <sup>3</sup> / <sub>4</sub>	186 <sup>3</sup> / <sub>4</sub>	210	233 <sup>3</sup> / <sub>4</sub>	256 <sup>3</sup> / <sub>4</sub>	280	303 <sup>3</sup> / <sub>4</sub>	326 <sup>3</sup> / <sub>4</sub>	350	373 <sup>3</sup> / <sub>4</sub>	396 <sup>3</sup> / <sub>4</sub>	420	443 <sup>3</sup> / <sub>4</sub>	466 <sup>3</sup> / <sub>4</sub>
10 x 16.....	106 <sup>3</sup> / <sub>4</sub>	133 <sup>3</sup> / <sub>4</sub>	160	186 <sup>3</sup> / <sub>4</sub>	213 <sup>3</sup> / <sub>4</sub>	240	266 <sup>3</sup> / <sub>4</sub>	293 <sup>3</sup> / <sub>4</sub>	320	346 <sup>3</sup> / <sub>4</sub>	373 <sup>3</sup> / <sub>4</sub>	400	426 <sup>3</sup> / <sub>4</sub>	453 <sup>3</sup> / <sub>4</sub>	480	506 <sup>3</sup> / <sub>4</sub>	533 <sup>3</sup> / <sub>4</sub>
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.....	1 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	2	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	3	3 <sup>3</sup> / <sub>4</sub>	5/4 x 2.....	1 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>
1 x 3.....	2	2 <sup>3</sup> / <sub>4</sub>	3	3 <sup>3</sup> / <sub>4</sub>	4	4 <sup>3</sup> / <sub>4</sub>	5	5/4 x 3.....	2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	5	5 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>
1 x 4.....	2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4	4 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>4</sub>	6	6 <sup>3</sup> / <sub>4</sub>	5/4 x 4.....	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	5	5 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>
1 x 5.....	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	5	5 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	5/4 x 5.....	4 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>
1 x 6.....	4	5	6	7	8	9	10	5/4 x 6.....	5	6 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	10	11 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>
1 x 8.....	5 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	8	9 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>	12	13 <sup>3</sup> / <sub>4</sub>	5/4 x 8.....	6 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	10	11 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	15	16 <sup>3</sup> / <sub>4</sub>
1 x 10.....	6 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	10	11 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	15	16 <sup>3</sup> / <sub>4</sub>	5/4 x 10.....	8 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>4</sub>
1 x 12.....	8	10	12	14	16	18	20	5/4 x 12.....	10	12 <sup>3</sup> / <sub>4</sub>	15	17 <sup>3</sup> / <sub>4</sub>	20	22 <sup>3</sup> / <sub>4</sub>	25
1 x 14.....	9 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	14	16 <sup>3</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>4</sub>	21	23 <sup>3</sup> / <sub>4</sub>	6/4 x 2.....	2	2 <sup>3</sup> / <sub>4</sub>	3	3 <sup>3</sup> / <sub>4</sub>	4	4 <sup>3</sup> / <sub>4</sub>	5
1 x 16.....	10 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	16	18 <sup>3</sup> / <sub>4</sub>	21 <sup>3</sup> / <sub>4</sub>	24	26 <sup>3</sup> / <sub>4</sub>	6/4 x 3.....	3	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>4</sub>	6	6 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>
1 x 18.....	12	15	18	21	24	27	30	6/4 x 4.....	4	5	6	7	8	9	10
1 x 20.....	13 <sup>3</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>4</sub>	20	23 <sup>3</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>4</sub>	30	33 <sup>3</sup> / <sub>4</sub>	6/4 x 5.....	5	6 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	10	11 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>
								6/4 x 6.....	6	7 <sup>3</sup> / <sub>4</sub>	9	10 <sup>3</sup> / <sub>4</sub>	12	13 <sup>3</sup> / <sub>4</sub>	15
								6/4 x 8.....	8	10	12	14	16	18	20
								6/4 x 10.....	10	12 <sup>3</sup> / <sub>4</sub>	15	17 <sup>3</sup> / <sub>4</sub>	20	22 <sup>3</sup> / <sub>4</sub>	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.....	5 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	8	9 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>	12	13 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub>	16	17 <sup>3</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>4</sub>	20	.....	.....	.....	.....	.....
2 x 6.....	8	10	12	14	16	18	20	22	24	26	28	30	32	.....	.....	.....	.....
2 x 8.....	10 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	16	18 <sup>3</sup> / <sub>4</sub>	21 <sup>3</sup> / <sub>4</sub>	24	26 <sup>3</sup> / <sub>4</sub>	29 <sup>3</sup> / <sub>4</sub>	32	34 <sup>3</sup> / <sub>4</sub>	37 <sup>3</sup> / <sub>4</sub>	40	42 <sup>3</sup> / <sub>4</sub>	45 <sup>3</sup> / <sub>4</sub>	48	50 <sup>3</sup> / <sub>4</sub>	53 <sup>3</sup> / <sub>4</sub>
2 x 10.....	13 <sup>3</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>4</sub>	20	23 <sup>3</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>4</sub>	30	33 <sup>3</sup> / <sub>4</sub>	36 <sup>3</sup> / <sub>4</sub>	40	43 <sup>3</sup> / <sub>4</sub>	46 <sup>3</sup> / <sub>4</sub>	50	53 <sup>3</sup> / <sub>4</sub>	56 <sup>3</sup> / <sub>4</sub>	60	63 <sup>3</sup> / <sub>4</sub>	66 <sup>3</sup> / <sub>4</sub>
2 x 12.....	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
2 x 14.....	18 <sup>3</sup> / <sub>4</sub>	23 <sup>3</sup> / <sub>4</sub>	28	32 <sup>3</sup> / <sub>4</sub>	37 <sup>3</sup> / <sub>4</sub>	42	46 <sup>3</sup> / <sub>4</sub>	51 <sup>3</sup> / <sub>4</sub>	56	60 <sup>3</sup> / <sub>4</sub>	65 <sup>3</sup> / <sub>4</sub>	70	74 <sup>3</sup> / <sub>4</sub>	79 <sup>3</sup> / <sub>4</sub>	84	88 <sup>3</sup> / <sub>4</sub>	93 <sup>3</sup> / <sub>4</sub>
2 x 16.....	21 <sup>3</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>4</sub>	32	37 <sup>3</sup> / <sub>4</sub>	42 <sup>3</sup> / <sub>4</sub>	48	53 <sup>3</sup> / <sub>4</sub>	58 <sup>3</sup> / <sub>4</sub>	64	69 <sup>3</sup> / <sub>4</sub>	74 <sup>3</sup> / <sub>4</sub>	80	85 <sup>3</sup> / <sub>4</sub>	90 <sup>3</sup> / <sub>4</sub>	96	101 <sup>3</sup> / <sub>4</sub>	106 <sup>3</sup> / <sub>4</sub>
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

# 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 1/4	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 1/4	14.62	55.9	55.9	55.9	55.9	55.9	54.2	51.5	48.7	46.0	43.2						
6	6 1/4	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:

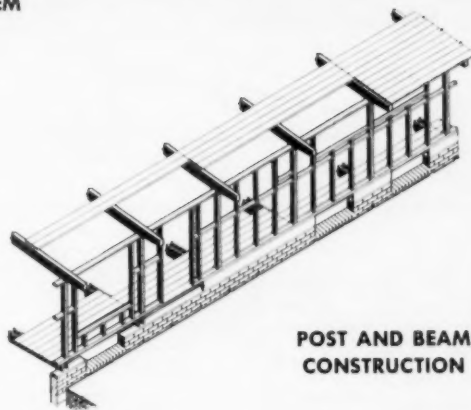
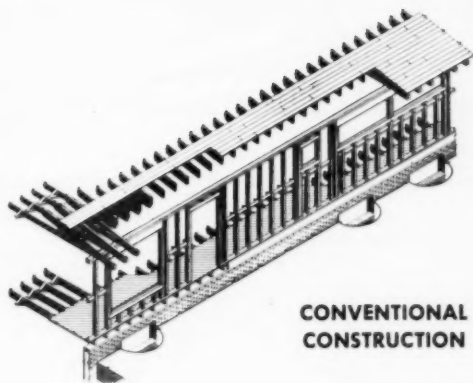
1. Determine load in kips. If column is to support center of beam supported at ends divide load in half.
2. Locate nearest load figure in column under required length.
3. Read size of pipe required in column at extreme left.

To find I-beam column size:

Follow same procedure as outlined for pipe columns.

## Post and Beam Construction

### THE SYSTEM



### SOME NOTES ON THE SYSTEM

The plank or post and beam system for the construction of floors and roofs in today's houses is uniquely adaptable to the modern design trends toward one-story structures, large glass areas, modular coordination, open-space planning, and, if desired, "natural finish" materials.

It is characterized by the concentration of structural loads on fewer and larger sized pieces than in conventional construction, resulting in rapid site assembly with fewer man-hours. Dual function of materials and the use of planks continuous over two or more spans result in further economy.

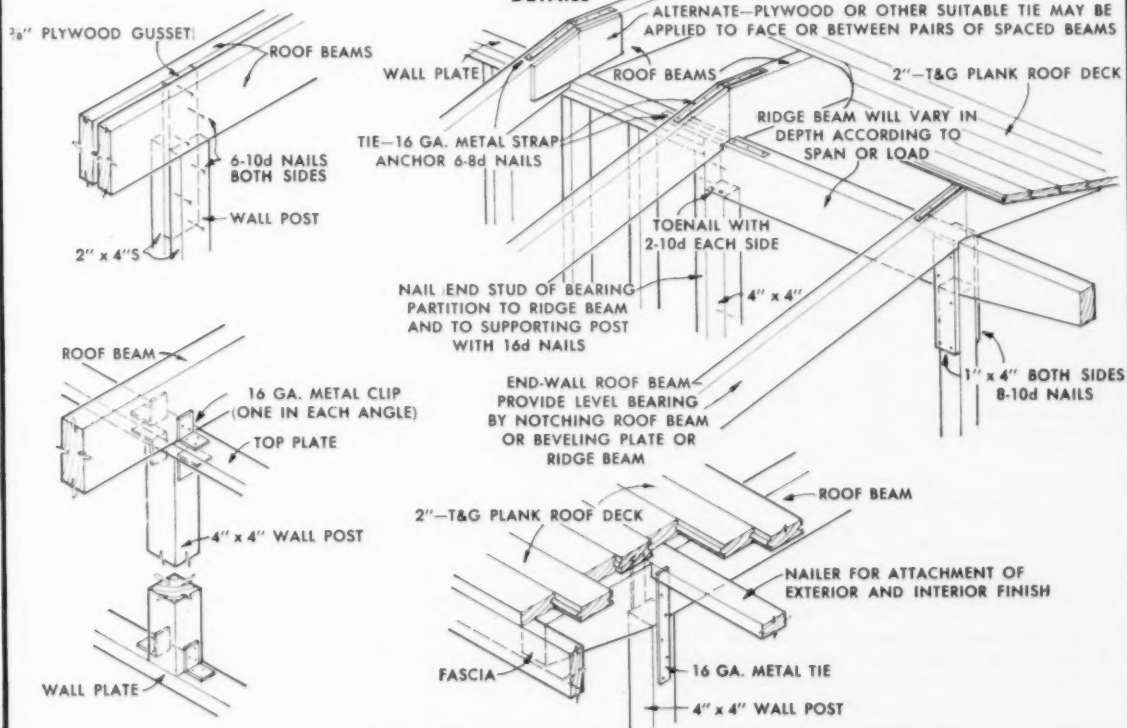
Adapted from heavy timber construction, the system is used for floors and roofs in combination with ordinary wood stud or masonry walls, or curtain wall construction with skeleton frame.

There are limitations to the system. There is less freedom in placing interior partitions. Insulation may be slightly more expensive, and wiring will have to be planned differently than in conventional construction.

Don't be unduly disturbed by these problems. Usually they can be solved without too much trouble. Nevertheless, because of the load concentration and the exposed structural members, a well-engineered design, good material, and good workmanship are vitally important in a post and beam house.

If you are planning to build a post and beam house and want design information, or if you are simply curious about the system, a fine manual has been published by the Housing and Home Finance Agency, Washington 25, D.C., called *Plank-and-Beam System for Residential Construction*.

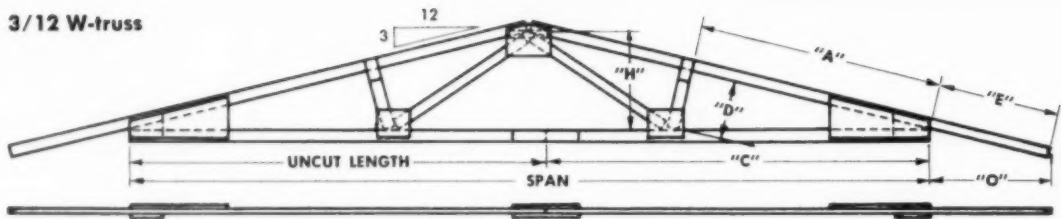
### DETAILS



# FRAMING

## Typical glue-nail truss specifications

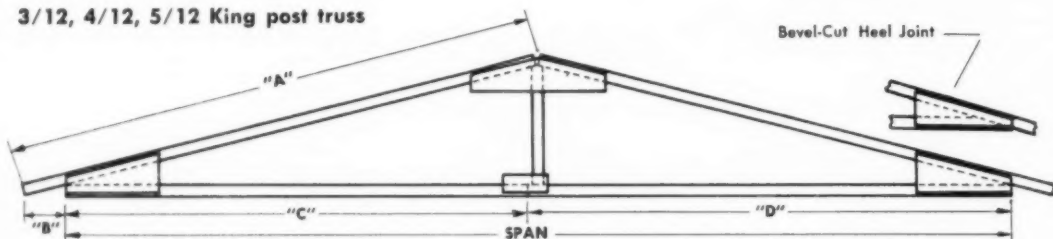
### 3/12 W-truss



#### CUTTING SCHEDULE

SPAN	CUTTING SCHEDULE								
	24'			26'			28'		
	0"	4"	8"	0"	4"	8"	0"	4"	8"
BOTTOM CHORDS	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"			
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"	39¾"	31¼"	29½"	27"	42¾"	40¾"	38¾"
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"

### 3/12, 4/12, 5/12 King post truss

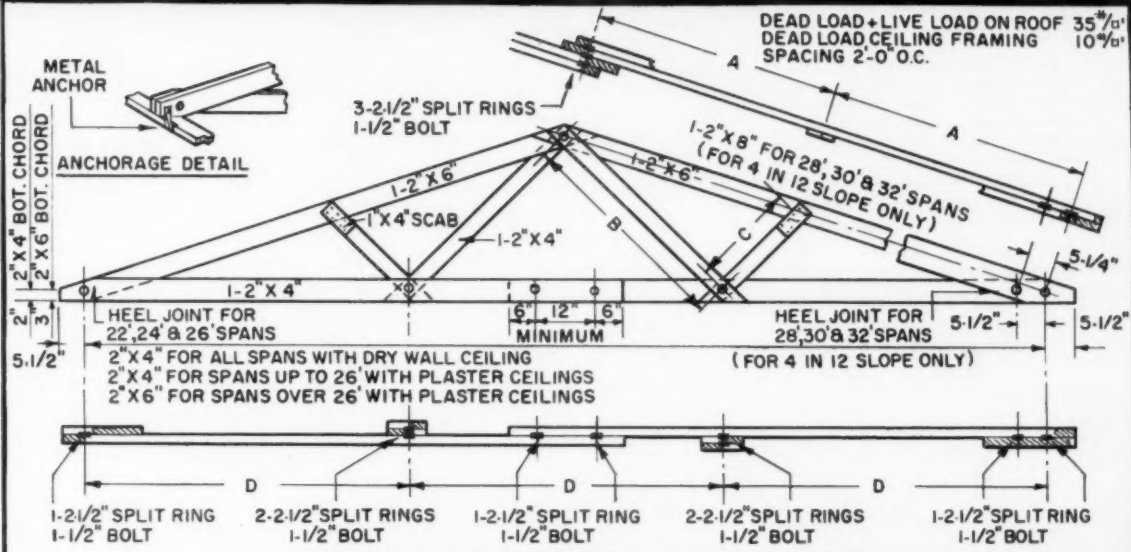


SPAN	CUTTING SCHEDULE													
	26'			28'			30'			32'				
	0"	4"	8"	0"	4"	8"	0"	4"	8"	0"	4"	8"		
TOP CHORDS	Length "A"	16'-0"						20'-0"						
	Overhang "B"	2/12	33½"	31½"	29½"	45½"	43½"	41½"	33½"	31½"	29½"	45½"	43½"	41½"
		3/12	30¼"	28¼"	26¼"	42¼"	40¼"	38¼"	30¼"	28¼"	26¼"	42¼"	40¼"	38¼"
4/12	26½"	24½"	22½"	36¾"	34¾"	32¾"	24¾"	22¾"	20¾"	34¾"	32¾"	30¾"		
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"	
SPICE PLATES — LENGTH		28"	24"	20"	20"	20"	20"	28"	24"	20"	20"	20"	20"	
POST LENGTH	Square-Cut on Bottom Chord	2/12	25¾"	26"	26¾"	27¾"	28"	28¾"	29¾"	30"	30¾"	31¾"	32"	32¾"
		3/12	38½"	39"	39½"	41½"	42"	42½"	44½"	45"	45½"	47½"	48"	48½"
		4/12	51¾"	52"	52¾"	55¾"	56"	56¾"	59¾"	60"	60¾"	63¾"	64"	64¾"
Beveled Cut on Bottom Chord		Reduce all post lengths above by 5½ inches.												

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# 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 											
	20	5'-3 3/4"	4'-8 3/8"	2'-3 3/8"	6'-8"						
	22	5'-9 9/16"	5'-1 7/8"	2'-6 3/4"	7'-4"			2	2	51	51
	24	6'-3 3/4"	5'-7 1/2"	2'-9 9/16"	8'-0"			2	2	61	61
	26	6'-10 3/8"	6'-1 3/8"	3'-0 1/8"	8'-8"			2	2	68	68
	28	7'-4 3/8"	6'-6 3/8"	3'-3 3/4"	9'-4"		2	(2)	2	80	91
	30	7'-10 3/8"	7'-0 1/2"	3'-6 3/8"	10'-0"		2	(2)	2	88	100
	32	8'-5 3/8"	7'-6 3/8"	3'-8 3/8"	10'-8"		2	(2)	2	88	100
5 											
	20	5'-5"	5'-3 3/8"	2'-7 3/8"	6'-8"						
	22	5'-11 1/2"	5'-10 3/8"	2'-10 3/8"	7'-4"			2	2	53	53
	24	6'-6"	6'-4 3/8"	3'-2"	8'-0"			2	2	60	60
	26	7'-0 1/2"	6'-10 7/8"	3'-5 1/4"	8'-8"			2	2	63	63
	28	7'-7"	7'-5 1/4"	3'-8 3/8"	9'-4"		2	(2)	2	70	70
	30	8'-1 1/2"	7'-11 3/8"	3'-11 3/8"	10'-0"		2	(2)	2	73	80
	32	8'-8"	8'-6 3/8"	4'-2 3/8"	10'-8"		2	(2)	2	79	91
6 											
	20	5'-7 3/8"	5'-11 1/8"	2'-11 3/8"	6'-8"						
	22	6'-1 3/8"	6'-6 3/8"	3'-3 3/4"	7'-4"			2	2	53	53
	24	6'-8 3/8"	7'-2 3/8"	3'-6 3/4"	8'-0"			2	2	63	63
	26	7'-3 3/8"	7'-9 3/8"	3'-10 3/8"	8'-8"			2	2	67	67
	28	7'-9 3/8"	8'-4 3/8"	4'-2 3/8"	9'-4"		2	(2)	2	69	69
	30	8'-4 3/8"	8'-11 3/8"	4'-5 3/8"	10'-0"		2	(2)	2	76	87
	32	8'-11 3/8"	9'-6 3/8"	4'-9 3/4"	10'-8"		2	(2)	2	79	94
7 											
	20	5'-9 3/8"	6'-8 3/8"	3'-3 3/4"	6'-8"						
	22	6'-4 3/8"	7'-4 3/8"	3'-7 3/8"	7'-4"			4		53	53
	24	6'-11 3/8"	8'-0 3/8"	3'-11 3/8"	8'-0"			2	2	60	60
	26	7'-6 3/8"	8'-8 3/8"	4'-4"	8'-8"			2	4	63	63
	28	8'-1 3/8"	9'-4 3/8"	4'-8"	9'-4"		2	(2)	2	70	70
	30	8'-8 3/8"	10'-0 1/2"	5'-0 1/2"	10'-0"		2	(2)	4	72	72
	32	9'-3 3/8"	10'-8 3/8"	5'-4 3/8"	10'-8"		2	(2)	4	78	90

Note: Pieces in parentheses ( ) are used in place of equal length 2"x4"s when plaster ceiling is used.

### WHAT ARE THEY?

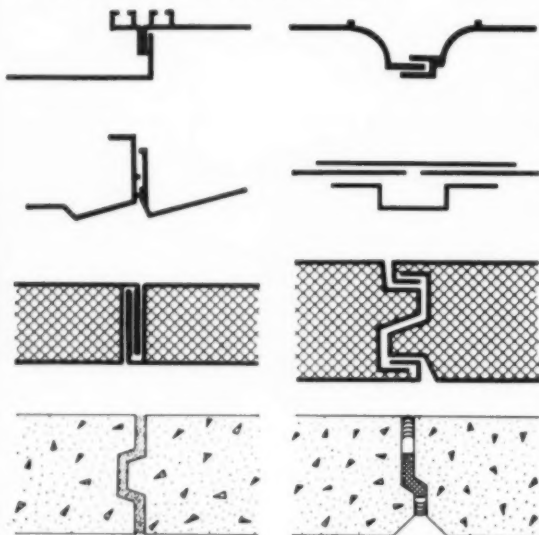
Curtain walls generally are defined as non-bearing exterior walls supported at each floor by the structural framework of the building. Mass production methods have made available modular components, or panels in a wide variety of materials, forms, colors and textures. They are classified in this way:

1. **TRADITIONAL WALL**—Fenestration and glass above spandrel of masonry, metal or other materials.
  - a. Sash with all fixed glass.

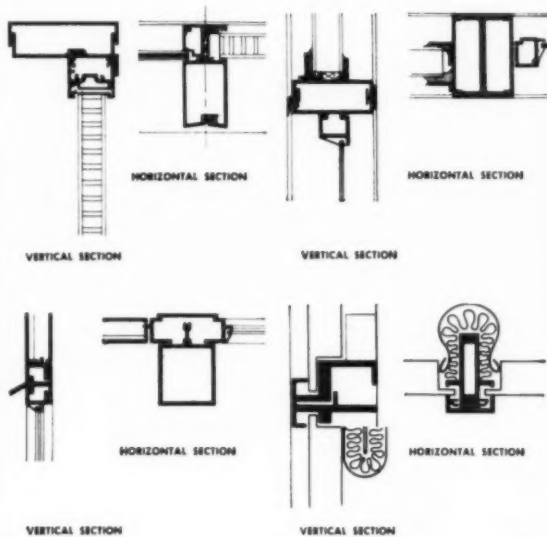
- b. Sash with some fixed, some operating glass.
- c. Sash with all operating glass.

2. **ALL GLASS WALL**—May be all transparent, or transparent above spandrel of opaque or translucent glass.
3. **WINDOWLESS WALL**—Materials from which curtain wall panels are made cover all the metals, plastics, glass, concrete, stone and burned clay, ceramic-coated materials and combinations of these.

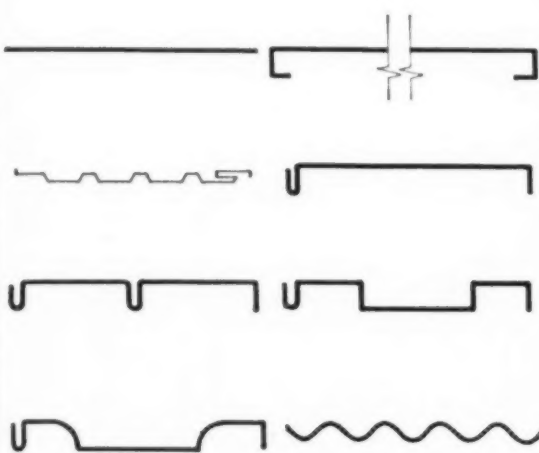
### TYPICAL JOINTS: PANEL TO PANEL



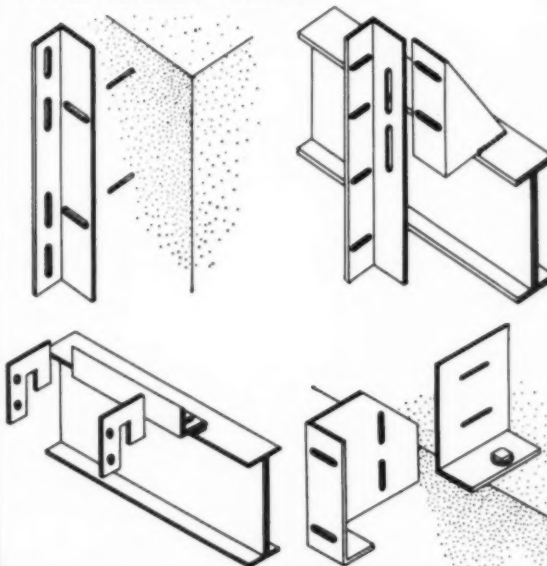
### TYPICAL JOINTS: PANELS AND COMPONENTS



### TYPICAL SKIN PANEL TYPES



### TYPICAL FASTENER SYSTEMS



GRADE WISE  
IS PROFIT WISE



"We specify and use **UTILITY** grade West Coast framing lumber for quality construction. Properly used, it saves **\$200.00** on every job," report builders **Lyons and McDonell**.

Here is a building partnership which has discovered a short cut to bigger profit with "Utility" grade West Coast dimension and boards. Lyons and McDonell's solid reputation for quality construction has never varied, yet these progressive builders have achieved lower total job costs regularly by using "Utility" grade lumber in specified applications.\*

You, too, will find "Utility" grade is a money-maker for One and Two Living Unit-construction. And you will have the plus-value of the consistent quality of West Coast lumber.

\*When used in accordance with *FHA Minimum Property Standards for One and Two Living Units, FHA Bulletin No. 300.*

## WEST COAST LUMBERMEN'S ASSOCIATION

1410 S. W. Morrison Street, Portland 5, Oregon

### CHECK THESE USES\*

for "Utility" grade West Coast

**Lumber** (in accordance with *FHA Minimum Property Standards*):

**RAFTERS FOR LIGHT ROOFING** (Roof slope over 3 in 12) (Weighing less than 4 lbs. per sq. ft. in place)

Douglas Fir Size	West Coast Spacing	Hemlock Maximum Span
2x6	16" o.c.	9'-8"
2x8	16" o.c.	14'-4"
2x10	16" o.c.	19'-8"

**FLAT ROOF JOISTS** supporting finished ceiling (Roof slope 3 in 12 or less)

2x6	16" o.c.	7'-8"
2x8	16" o.c.	11'-6"
2x10	16" o.c.	15'-8"
2x12	16" o.c.	18'-2"

**CEILING JOISTS** (no attic storage)

2x6	16" o.c.	11'-8"
2x8	16" o.c.	17'-6"

**FLOOR JOISTS**

		30 lb. live load*	40 lb. live load†
2x6	16" o.c.	7'-2"	6'-4"
2x8	16" o.c.	10'-8"	9'-6"
2x10	16" o.c.	14'-8"	13'-0"
2x12	16" o.c.	17'-0"	15'-4"

\*sleeping rooms only  
†other than sleeping rooms

**BOARDS.** Ample strength and satisfactory coverage make "Utility" boards a primary material for sub-floors, wall sheathing and solid roof boarding in permanent construction. This grade is widely used for light concrete forms.

### GET THE TECHNICAL FACTS



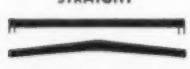





Write today for your copy of "Where to Use Utility Grade."



# RILCO

## GLUED-LAMINATED AND SOLID TIMBER STRUCTURAL MEMBERS

Engineered members cut erection costs and add beauty to any type of building.

TYPICAL SHAPES	USES	SPANS	CENTER-TO-CENTER SPACING	ADVANTAGES
 TANGENT ARCHES	Churches Gymnasiums      Chapels Theaters	24' to 100'	8' to 20'	Arch and laminated purlins gives unsurpassed beauty, without expensive veneering. Fire resistant. Made of kiln-dried Douglas Fir selected for strength and appearance.
 RADIAL ARCHES	Gymnasiums      Hangars Auditoriums Armories      Skating Rinks Bowling Alleys	40' to 120'	8' to 20'	Graceful arches have the clean, natural beauty of fine wood. Wide, clear spans give large unobstructed space without unsightly framework. Fire resistant. Efficient design makes a building that is economical to erect.
 STRAIGHT ARCHED-PITCHED LAMINATED WOOD BEAMS	One-story Schools Stores      Offices      Residences Gymnasiums Industrial Buildings	20' to 60'	6' to 20'	Resists checking and warping and other seasoning defects common to solid timber. Fire resistant. Combines structural and decorative advantages for economy.
 BOWSTRING TRUSSES	Wide, Clear-Span Buildings Garages      Factories      Hangars Warehouses      Gymnasiums	24' to 200'	8' to 20'	Well adapted to wide, clear-span construction. Economical. Designed for specific requirements such as concentrated loads, hoists, etc.
 TIED ARCHES	Stores      Factories Theaters Warehouses      Hangars	24' to 65'	2'	Light enough to erect without special equipment. One inch roof sheathing can be nailed to top of arch with ceiling material nailed directly to lower tie.
 UTILITY ARCHES	Small Hangars Warehouses      Gymnasiums Theaters Community Buildings	28' to 80'	2' to 20'	Easy to plan. Economical. Combines sidewall and roof in one piece for easy erection. Requires no costly field assembly. Any type of roofing can be applied over sheathing.
 ALL TYPES STRUCTURAL ASSEMBLIES	Bridges Buildings Bulkheads Culverts Docks Falsework Floors Grandstands Ramps Outdoor Theater Screens Retaining Walls Shipways	our service engineers will gladly consult with you		Designed for specific loads, precision manufactured by skilled workmen of structural timber. Cut to exact lengths, holes bored for all connections — bolts and hardware furnished. Delivered when promised for erection by local crews.
 LOCKDECK	Churches      Gymnasiums Schools      Auditoriums Stores      Offices      Homes Industrial Buildings		<b>SIZES</b> 3 x 6, 3 x 8, 4 x 6, 4 x 8 lengths, 8' - 16'	Laminated of Inland Red Cedar or Idaho White Pine kiln dried to average 10% moisture content for dimensional stability and uniform appearance. End matched. Husky tongues and grooves. Face ply is of full 1" nominal thickness to eliminate chipping of facing material. Faster to install, requires no horizontal nailing.



Also all types of farm rafters.

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works wonders with wood

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District Offices: Wilkes-Barre, Pa.; Fort Wayne, Ind.; Tacoma, Wash.

### RILCO LAMINATED PRODUCTS

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Please send me information on:

- Tangent Arches     Radial Arches     Trusses     Tied Arches  
 Utility Arches     Farm Rafters     Beams     Rilco Deck

Name \_\_\_\_\_

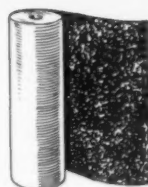
Address \_\_\_\_\_

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



# ROOFING, SIDING, INSULATION, SHEATHING

## Asphalt Roofing Guide



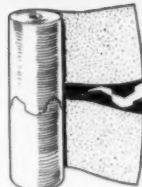
ASPHALT SATURATED FELT



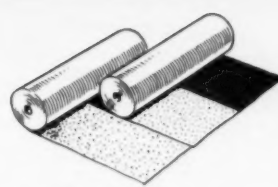
MINERAL SURFACED ROLL



SMOOTH ROLL



PATTERN EDGE ROLL



19" SELVAGE DOUBLE COVERAGE

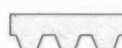
1 - LENGTH					2 - WIDTH					3 - SIDE OR END LAP					4 - HEAD LAP					5 - EXPOSURE				
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
144'	36"	4"	2"	34"	36'	36"	4"	2"	34"	36'	36"	4"	2"	34"	42'	36"		2"	16"	36'	36"			
22'	36"	4"	2"	34"	36'	36"	6"	3"	33"	36'	36"	4"	2"	34"	48'	32"		2"	14"	36'	36"			
					36'	36"	6"	4"	32"	36'	36"	4"	2"	34"										



3-TAB SQUARE BUTT STRIP SHINGLE

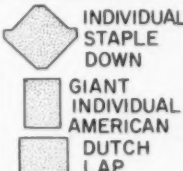


2-TAB HEX STRIP SHINGLE



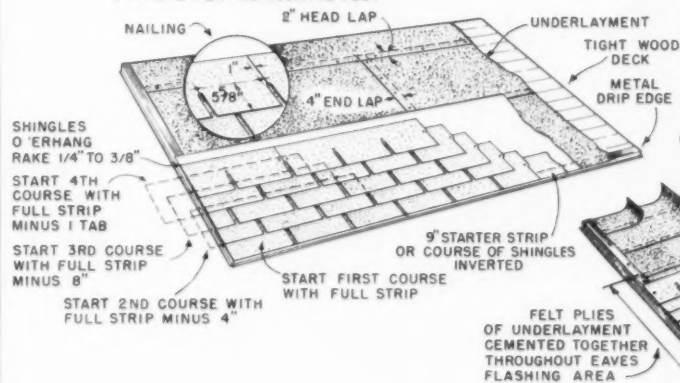
3-TAB HEX STRIP SHINGLE

36"	12"		2"	5"
36"	12"		4"	4"
36"	11 1/3"		2"	4 2/3"
36"	11 1/3"		2"	4 2/3"

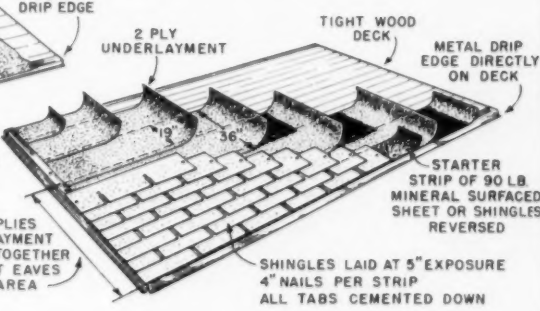


1	2	3	4	5
16"	16"	2 1/2"		
16"	12"		6"	5"
16"	12"	3"	2"	10"

INSTALLATION OF THREE-TAB BUTT SHINGLES ON ROOFS OF 4" RISE OR MORE PER HORIZONTAL FOOT



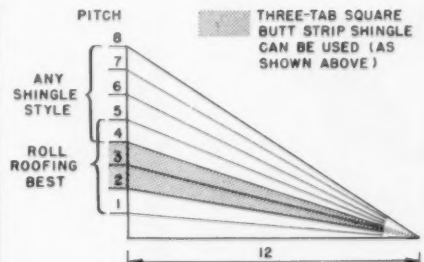
INSTALLATION OF THREE-TAB BUTT SHINGLES ON ROOFS HAVING SLOPES LOWER THAN 4" BUT NOT LOWER THAN 2"



### TYPICAL NAILS FOR ASPHALT ROOFING

	SHINGLES PER SQUARE	NAILS PER SHINGLE	NAILS PER SQUARE	LENGTH OF (Ø) 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.

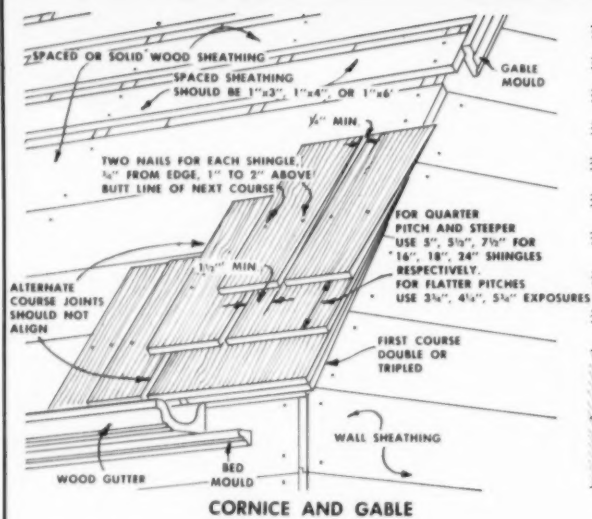


MINIMUM PITCH REQUIREMENTS FOR ASPHALT ROOFING

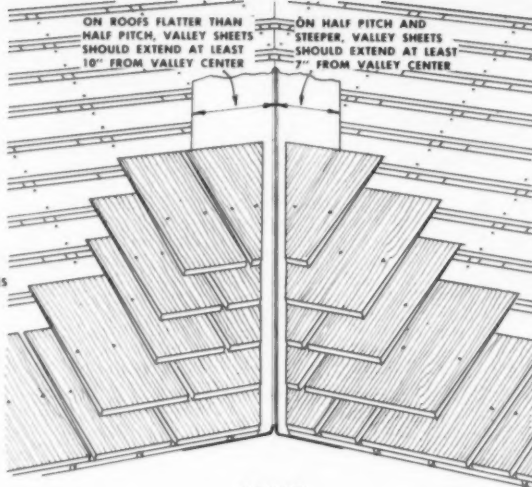
COURTESY OF THE ASPHALT ROOFING INDUSTRY BUREAU

# ROOFING, SIDING, INSULATION, SHEATHING

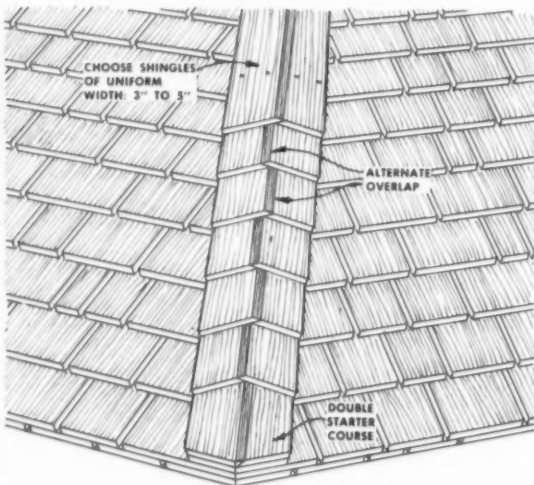
## Red Cedar Shingles



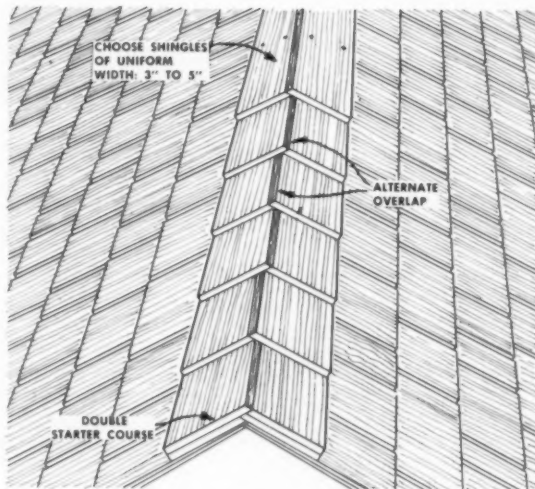
CORNICE AND GABLE



VALLEY



HIP

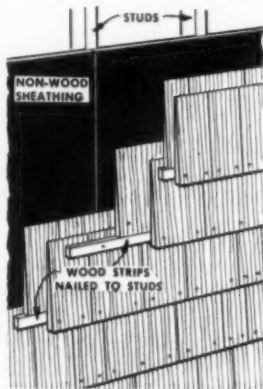


RIDGE

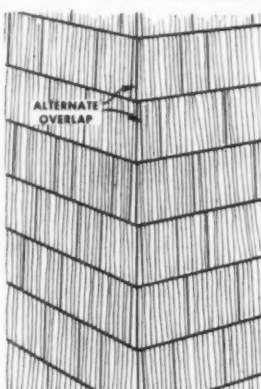
### ROOFS



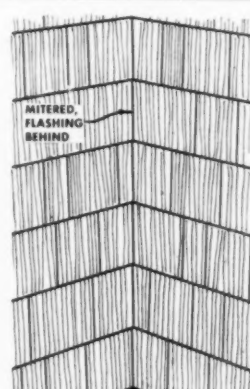
WOOD SHEATHING



NON-WOOD SHEATHING



OUTSIDE CORNER



INSIDE CORNER

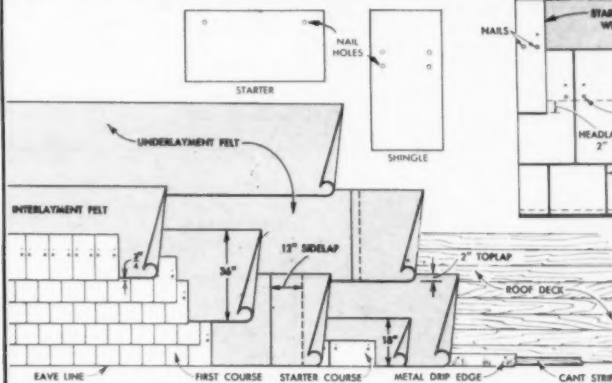
### WALLS

9

# ROOFING, SIDING, INSULATION, SHEATHING

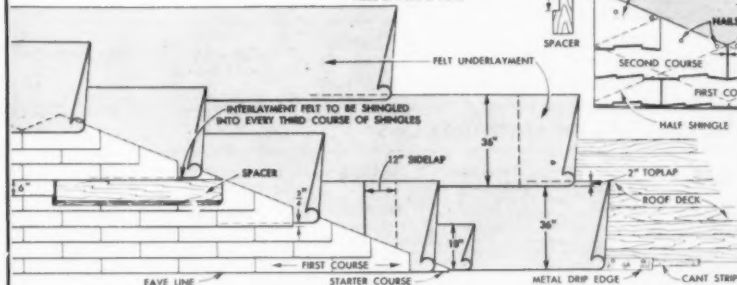
## Asbestos Cement Roofing Guide

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".

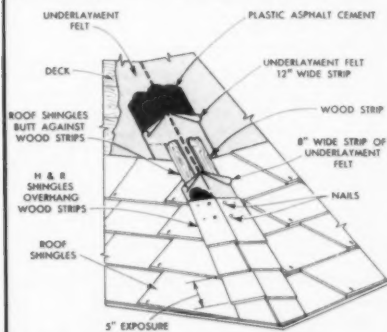


Low-slope application method for American Method Individual shingles.

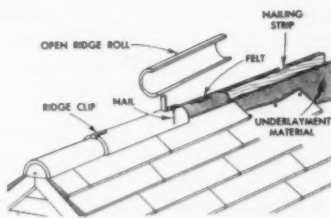
Note: Alignment feature of shingles will be obscured by felt on every third course. Snap chalk lines to provide accurate alignment or use an alignment spacer made of wood or metal.



Low-slope application for American Method Multiple-Unit shingles.

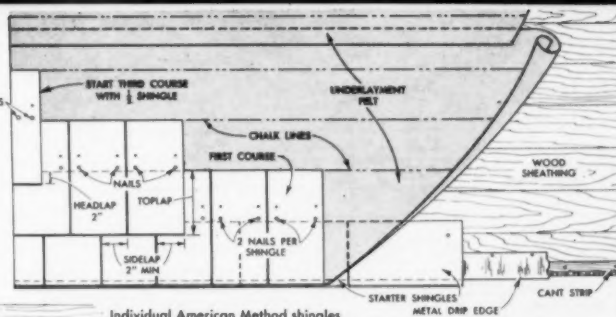


Application Method for finishing Hips and Ridges.



Ridge Roll used on Ridge as alternate to Ridge shingles.

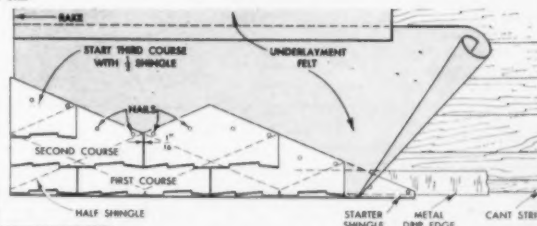
Asbestos Cement Roof shingles are manufactured with holes properly located and pre punched to receive concealed roofing nails. Nails, which are not provided, must be made of non-corrodible metal or hot-dipped galvanized steel, needle or diamond pointed with heads approximately 3/8" dia. Underlayment and interlayment must be 15 lb. asphalt-saturated organic felt.



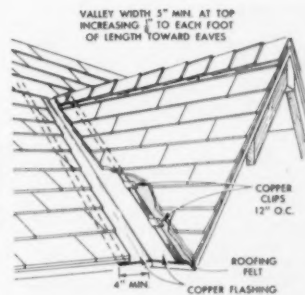
Individual American Method shingles.

	Nails	Diameter	Length	Type
Over solid lumber deck		3/8"	Approx. 1 1/4"	1
Over plywood deck		3/8"	not over 1 1/4"	2
For reroofing		3/8"	2"	1

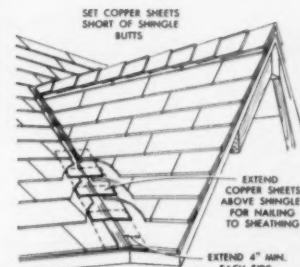
1. Smooth, Barbed, or Threaded
2. Single screw thread barbing, or ring barbing



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					Approx. Shipping wt.
Type	Width	Height	Thickness	Exposure	
American Method Individual Unit	8"	16"	5/32"	7"	350 lbs.
	9"	18"	1/4"	8"	585 lbs.
			3/8"		570 lbs.
American Method Multiple Unit	24" to 30"	14" to 15 3/8"	5/32"	6" to 6 5/8"	300 lbs.
			1/4"		440 lbs.
Dutch Lap	16"	16"	5/32"	12" x 13"	265 lbs.
Ranch Design	24"	12"	5/32"	20" x 9"	255 lbs.

Courtesy: Asbestos Cement Products Association

# 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 3/4" 12 ga. Galvanized Rfg. Nails 3/8" head	3"	6"	Drive nails until head is flush with sheathing surface.
	4'x8'-4'x9' 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 3/4" 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 3/4" 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

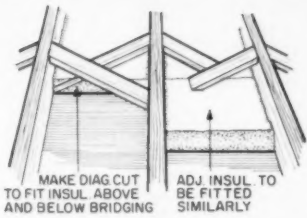
Product	Thickness of Fiberboard	Maximum Stud Spacing	Gauge of Staple	Minimum Crown of Staple	Minimum Length of Staple	Spacing at Edge of Sheet	Spacing at Intermediate Members	Notes
Fiberboard Wall Sheathing (with Diagonal Bracing)	1/2"	16"	16	3/8"	1 1/2"	4"	6"	1. 1/2" Fiberboard shall be special dense 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 1/2"	4"	8"	
	3/8"	24"	16	3/8"	1 1/2"	4"	6"	
	3/8"	24"	14	3/8"	1 1/2"	4"	8"	
Fiberboard Wall Sheathing (without Diagonal Bracing)	1/2"	16"	16	3/8"	1 1/2"	3"	6"	
	1/2"	16"	14	3/8"	1 1/2"	4"	8"	
	3/8"	16"	16	3/8"	1 1/2"	3"	6"	
	3/8"	16"	14	3/8"	1 1/2"	4"	8"	

Product	Thickness	Maximum Stud or Joist Spacing	Minimum Gauge of Staple	Minimum Crown of Staple	Minimum Length of Staple	Maximum Spacing of Staples on Framing Members	Notes
Gypsum Lath	3/8"	16"	16	3/8"	3/8"	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"	16"	16	3/8"	1"	5"	
	1/2"	24"	16	3/8"	1"	4"	
Gypsum Wall Sheathing (with diagonal Bracing)	1/2"	16"	16	3/8"	1 1/2"	6"	
	1/2"	24"	16	3/8"	1 1/2"	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 1/2"	5" on ceilings 6" on walls	

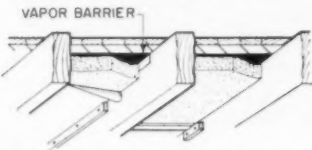
# ROOFING, SIDING, INSULATION, SHEATHING

## Insulation Guide

### BETWEEN BRIDGING

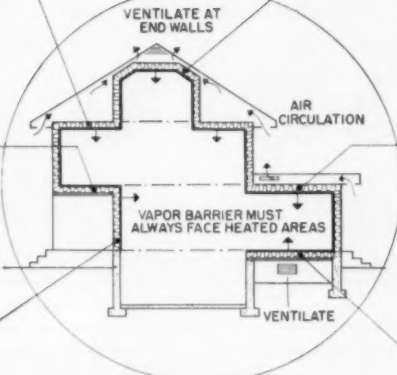
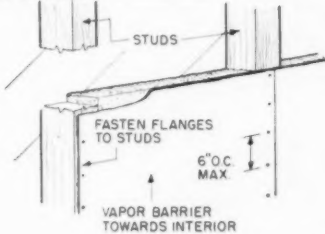


### BETWEEN CEILING JOISTS



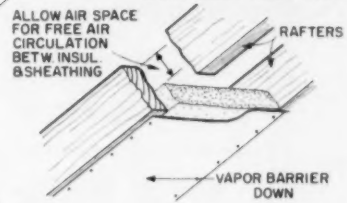
EITHER VAPOR PERMEABLE ASPH FELT, WOOD STRIPS OR LACING WIRE, TO HOLD INSUL. AGAINST FLOORING

### IN WALLS

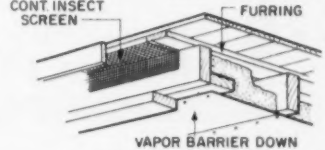


USE 6" BATTS WHERE RAFTERS ARE 2'-8" OR MORE, PARTICULARLY IN AIR CONDITIONED HOUSES

### BETWEEN RAFTERS

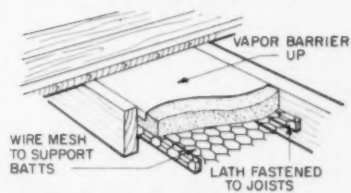


### IN FLAT ROOFS



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

COURTESY: NATIONAL MINERAL WOOL ASSOCIATION

ALWAYS USE THE 3-3-2 RULE:

6" BATTS AS BLANKETS BETWEEN RAFTERS OR JOISTS, 3" BATTS BETWEEN STUDS AND 2" BATTS BELOW FLOORS

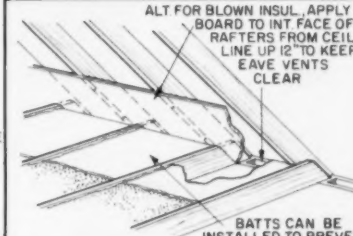
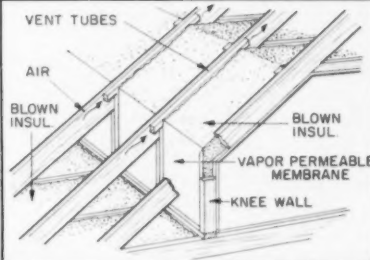
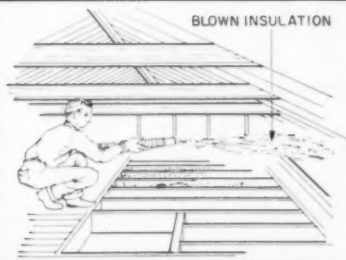
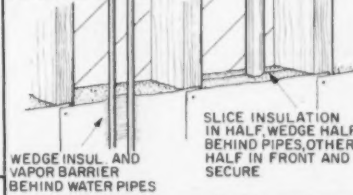
NAILING:

6" MAXIMUM SPACING

### BLANKET SIZES

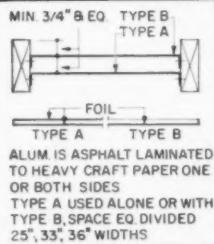
1	15" WIDTHS BETWEEN STUDS OR JOISTS - 16" O.C.
2	19" WIDTHS BETWEEN STUDS OR JOISTS - 20" O.C.
3	23" WIDTHS BETWEEN STUDS OR JOISTS - 24" O.C.

### AROUND PIPES

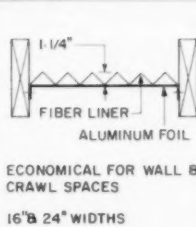


BATTS CAN BE INSTALLED TO PREVENT BLOCKING OF EAVE VENTS.

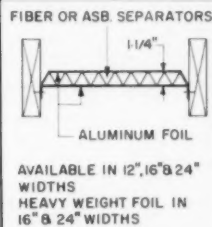
### REFLECTIVE INSULATION



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



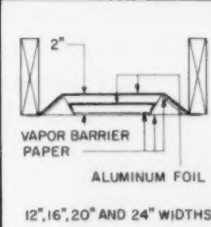
ECONOMICAL FOR WALL & CRAWL SPACES  
16" & 24" WIDTHS



AVAILABLE IN 12", 16" & 24" WIDTHS  
HEAVY WEIGHT FOIL IN 16" & 24" WIDTHS



THIN COAT OF ALUM BONDED 2 SIDES OF KRAFT PAPER

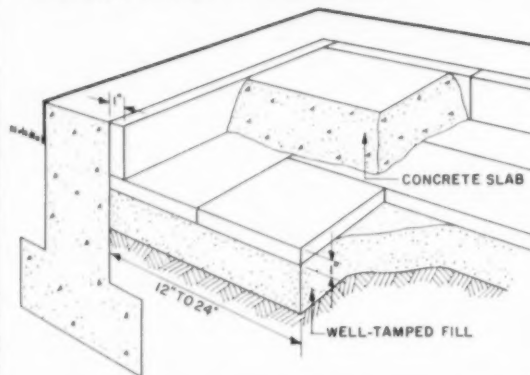


12", 16", 20" AND 24" WIDTHS

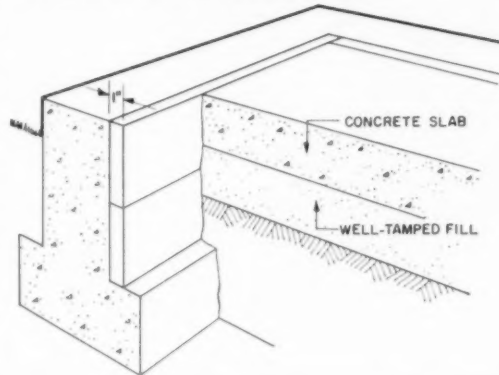
# ROOFING, SIDING, INSULATION, SHEATHING

## Rigid Insulation

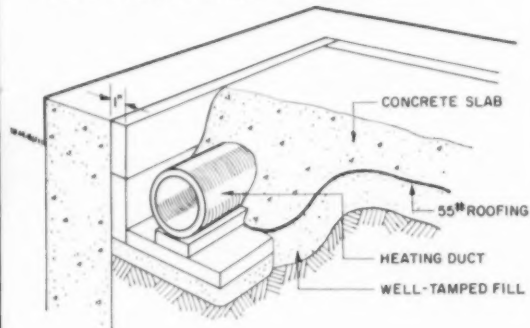
### HORIZONTAL PERIMETER INSULATION



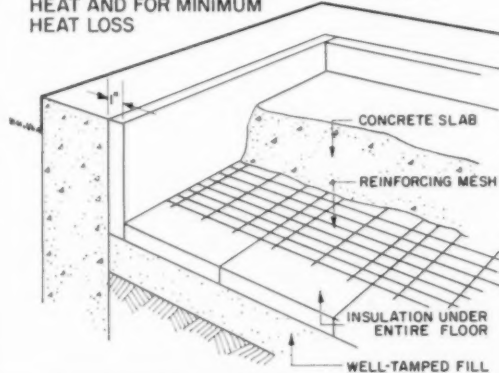
### VERTICAL PERIMETER INSULATION



### PERIMETER HEATING INSULATION

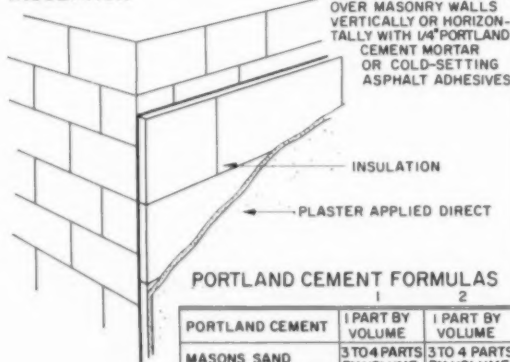


### SLAB INSULATION FOR USE WITH RADIANT HEAT AND FOR MINIMUM HEAT LOSS



9

### INSULATION

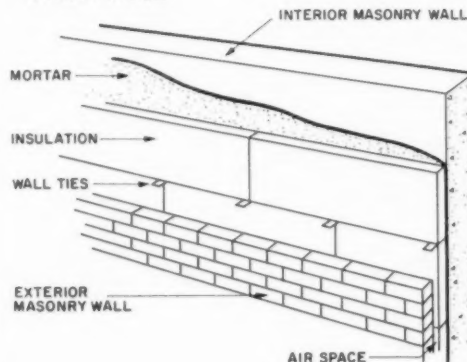


PLASTER BASE APPLIED VERTICALLY OR HORIZONTALLY WITH 1/4" PORTLAND CEMENT MORTAR OR COLD-SETTING ASPHALT ADHESIVES

### PORTLAND CEMENT FORMULAS

PORTLAND CEMENT	1		2	
	1 PART BY VOLUME		1 PART BY VOLUME	
MASONS SAND	3 TO 4 PARTS BY VOLUME		3 TO 4 PARTS BY VOLUME	
HYDRATED LIME	1/8" TO 1/4" PARTS BY VOL.			

### CAVITY WALL



### PACKAGED STYROFOAM

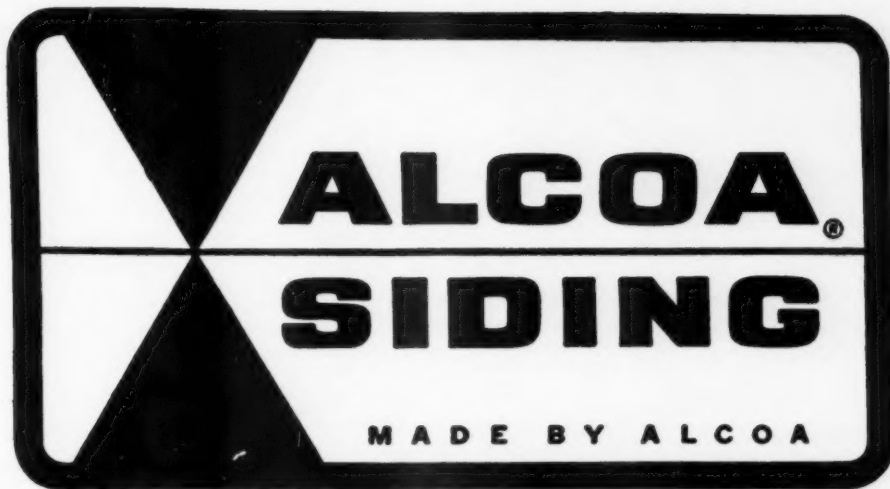
SHIPPED IN CONTAINERS MEASURING 20" x 24" x 36" IN STOCK SIZES LISTED IN 3'-0" LENGTHS.

SIZE	BD. FT. PIECE	PIECES BOX	BD. FT. BOX
1" x 10"	2.5	48	120
1" x 12"	3	37	111
1 1/2" x 10"	3.75	32	120
1 1/2" x 12"	4.5	26	117
2" x 10"	5	24	120
2" x 12"	6	20	120
3" x 10"	7.5	16	120
3" x 12"	9	12	108
4" x 10"	10	12	120
4" x 12"	12	10	120
5" x 12"	15	8	120

### UNPACKAGED STYROFOAM

SHIPPED IN CARLOAD OR TRUCK LOTS IN STOCK SIZES LISTED IN 9'-0" LENGTHS.

SIZE	BD. FT. PIECE	SIZE	BD. FT. PIECE
1" x 10"	7.5	3" x 10"	22.5
1" x 12"	9	3" x 12"	27
1 1/2" x 10"	11.25	4" x 10"	30
1 1/2" x 12"	13.5	4" x 12"	36
2" x 10"	15	5" x 12"	45
2" x 12"	18		
2 1/2" x 10"	18.75		
2 1/2" x 12"	22.5		



**MANUFACTURED  
FOR**

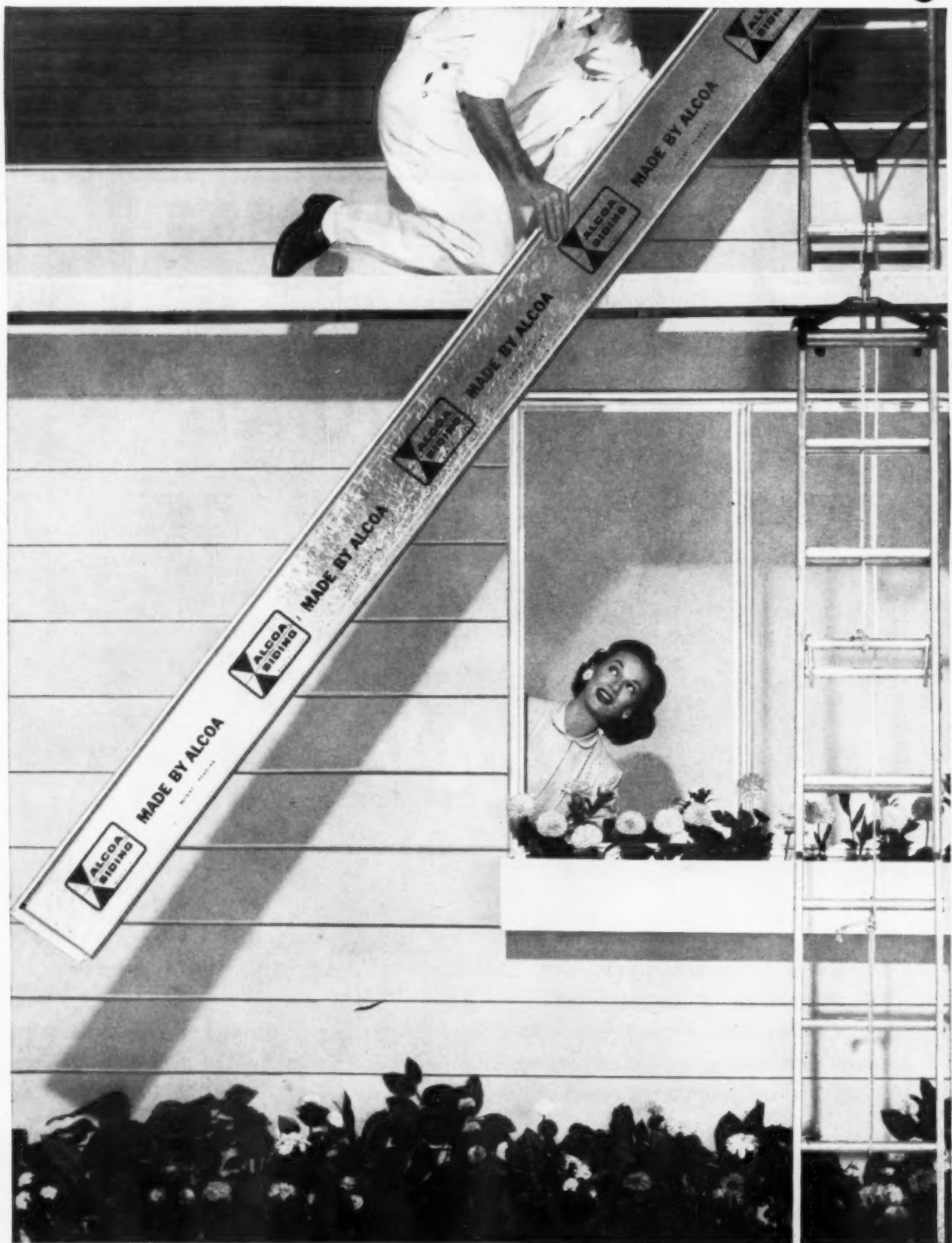


Your Barrett representative can take orders today for the complete line of Alcoa Siding. Prompt, dependable delivery is assured from seven conveniently located Barrett warehouses. And you can top off your next order of Barrett building materials with Alcoa Siding. Just call your Barrett representative, or contact us direct.

**DISTRICT SALES OFFICES:** BIRMINGHAM 8, Ala.—1327 Erie St.; CHARLOTTE 1, North Carolina—1125 East Morehead St.; CHICAGO 54, Ill.—Merchandise Mart; CLEVELAND 15, Ohio—3121 Euclid Ave.; HOUSTON 11, Texas—323 South 67th St.; MALDEN 48, Mass.—378 Commercial St.; NEW YORK 16, N. Y.—261 Madison Ave.; PHILADELPHIA 46, Pa.—36th and Grays Ferry Ave.; ST. PAUL, Minn.—764 Vandalia St.

**BARRETT DIVISION**  
40 Rector Street, New York 6, N. Y.







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## THE FIRST AND ONLY ALUMINUM SIDING MADE BY ALCOA

New! Horizontal and vertical siding, insulated and noninsulated—all *Alcoa-made* for home modernization and new construction!

### NATIONWIDE PROMOTION REAPS PROFITS FOR YOU!

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THE FLINTKOTE CO., 30 Rockefeller Plaza, New York 20, N. Y.

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## MADE BY ALCOA

ALUMINUM COMPANY OF AMERICA • PITTSBURGH 19, PA.

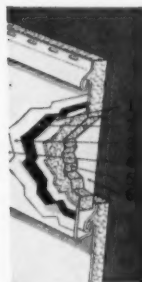
APRIL 1960



### 8 OUT OF 10 KNOW IT . . . TRUST IT!

Sell the Alcoa label: known at sight to 80 per cent of America as the sign of aluminum *quality*! It marks every inch of new Alcoa Siding—*first and only* siding made by Aluminum Company of America, world's leading producer of aluminum!

### NEW ALCOA SIDING IS SIX WAYS BETTER!



1. New, stronger Alcoa Aluminum alloy used for the first time in siding!
2. Special alclad laminated metal coat for lifelong corrosion resistance!
3. Bonderized surface grips paint, defies chipping and peeling!
4. Specially developed Alcoa Alumalure® finish gives maximum life for outdoor exposure conditions.
5. New factory-applied foam insulates against heat and cold!
6. Alcoa reflective foil backing retains 95 per cent of furnace radiant heat!

### ALCOA HORIZONTAL SIDING

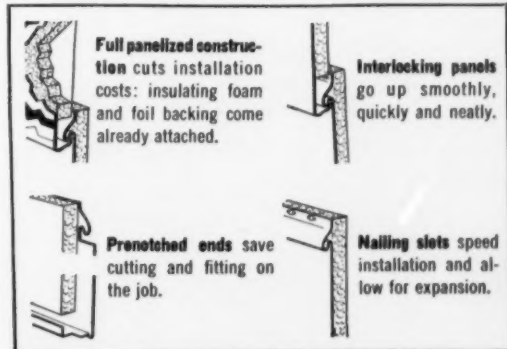
for popular clapboard effect, traditional or contemporary styling

### ALCOA VERTICAL SIDING

for modern board-and-batten effect, individual styling



ALCOA SIDING ACCESSORIES FOR HORIZONTAL AND VERTICAL IN MATCHING COLORS: Window and door trim, starter strip, undersill and general-purpose trim, window head flashing, inside corner post, outside corner post, vertical base flashing.



# MASONITE



**SUNLINE SURVIVES THE HAMMER TEST!** Where other sidings yield under hammer blows, Masonite hardboard comes through undaunted—*undented!*



**Shadowvent®.** A horizontal siding featuring a  $\frac{3}{4}$ " shadow line, concealed nailing, vented courses. Easy alignment, fast application, factory-primed.

Newest thing  
 beneath the sun:  
 Board'n batten  
all in one!

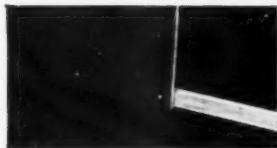


## SUNLINE SIDING

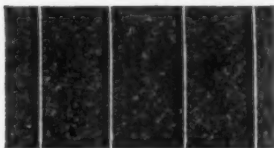
Give your homes the charm of this original new siding treatment.

With *Sunline* siding your homes have a vertical accent built right in—the raised ribs every 8" are an integral part of the siding itself. Sunline goes up in handy 4' x 8' to 4' x 16' panels. No wasteful cutting necessary—your first cost is your last cost.

How handsome new Sunline looks as the smooth, rounded ribs catch the play of sun and shadow—truly a new exterior appeal! How lasting, too! Like all Masonite® hardboard sidings, Sunline is virtually dent-proof...won't split, splinter or check... holds paint better and longer. See for yourself...use *Sunline* in your homes along with these other popular Masonite sidings.



**Lap Siding.** A popular and economical horizontal siding in 12" and 16" widths. Lap siding available prime-coated.



**Panelgroove®.** A panel siding 4' wide, lengths to 16' with vertical grooves every 4", 8" or random. Comes factory-primed.



**Ridgegroove®.** Similar to Panelgroove with the addition of a fine combed surface between the grooves. Prime-coated.



**Ridgeline®.** A 4'-wide panel in lengths to 16'. Continuous combed surface gives pleasing effect. Prime-coated.

Get Sunline and other Masonite sidings through your lumber dealer or Masonite salesman. Or write Masonite Corporation, Dept. AB-4, Box 777, Chicago 90, Ill.



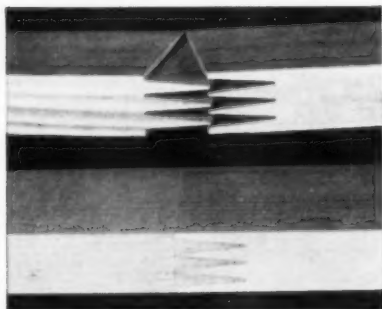
**MASONITE CORPORATION**

©Masonite Corporation—manufacturer of quality panel products for building and industry.



## Weyerhaeuser NU-LOC is lumber produced for specific needs and better performance

Nu-Loc is made of selected pieces of scientifically kiln-dried lumber, carefully machined for precision fit. The pieces are end-glued or end- and edge-glued together with a light-color waterproof exterior glue, then finished to uniform smoothness. Lumber to be used for Nu-Loc is cut thicker than regular stock to allow for surfacing after gluing. In order to minimize differences in color and grain, the pieces are sorted and matched into as many as five groups (depending on species) before gluing. Melamine urea resin adhesive is used because it creates a strong bond that is both waterproof and colorless.



Close-up shows precision-machined, interlocking Nu-Loc end joint before and after bonding.

### Principal Advantages

Nu-Loc improves appearance by presenting a smooth, even surface with snug fitting joints. It takes and holds paint or varnish extremely well. Nu-Loc cuts labor costs by minimizing cutting, fitting, and handling time. It speeds construction by covering more area faster, and reduces waste because you order it in the lengths and widths you need. Made only of kiln-dried lumber, it has good dimensional stability, lays flat, resists cupping and warping.

### Principal uses of NU-LOC

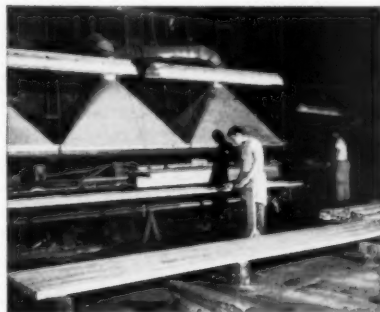
Nu-Loc is interchangeable with regular lumber in all non-structural uses. Nu-Loc is offered in American Lumber Standard and in West Coast Industry sizes. It is made in clear grades of Douglas Fir, Western Red Cedar, West Coast Hemlock, Ponderosa Pine, Idaho White Pine, Inland Red Cedar and Larch . . . and is also available in common grades of Idaho White Pine, Inland Red Cedar and Larch/Douglas Fir.

*Nu-Loc exterior wall coverings—drop*

*siding, vertical patterns, board and batten—*are available in lengths to 22', widths to 12"—bevel siding in lengths to 16'. *Nu-Loc casing and base, and Nu-Loc mouldings* are available in standard patterns, and in specified or random lengths. *Nu-Loc door jamb sets* are made in many sizes and patterns. Wide Nu-Loc Lumber can be ordered in lengths to 20', widths to 28". Nu-Loc Lumber is also ideal for window frames, cornices, rake trim, soffits, fascias, porch ceilings, signs, cabinet faces, shelving, drawer sides, drawer fronts, stair trim, valances, and bay window sills.

### Fully Accepted

The combination of modern equipment, carefully trained operators, and strict quality controls assure consistent uniformity and durability. Nu-Loc is backed by over 20 years of research, testing, and development. It is produced in accordance with grading rules of the West Coast Lumber Inspection Bureau or Western Pine Association.



For wide widths, the end-glued pieces are grain matched and edge-glued together.

### Summary

**Advantages in wider widths:** Gluing up of narrow pieces tends to stabilize wide widths by reducing cup and twist. Nu-Loc provides wider widths than available in regular lumber.

**Advantages in long lengths:** Long lengths of Nu-Loc require fewer end-fitted joints to give better appearance and save labor. Both specified and fractional lengths are available in quantity.

For additional information write: Weyerhaeuser Company, Lumber and Plywood Division, First National Bank Building, St. Paul 1, Minn.



## Save man hours—improve appearance— with made-to-measure NU-LOC

Weyerhaeuser's Nu-Loc is manufactured lumber, produced to meet your needs in both extra wide and/or extra long length boards. Unlike many new building products, Nu-Loc can give you savings on every job, large or small. It makes cutting and fitting time a minor cost factor, speeds construction, reduces waste—all this on top of improving appearance. It is ideal for such uses as soffits, fascias, door jambs, mouldings, shelvings, cornices, and stair trim

... and for bevel, board-and-batten, board-on-board, and drop siding. Weyerhaeuser Nu-Loc, a 4-Square Product, is precision manufactured from scientifically kiln-dried lumber. You can depend on its quality. The opposite page gives additional information on its use and performance. Your Weyerhaeuser 4-Square Lumber Dealer will be glad to show you samples and quote on specific applications so that you can see the savings Nu-Loc offers you.



**Weyerhaeuser Company**

Lumber and Plywood Division



EXTRA THICKNESS of 12"  
Tapered Strips lets you sell  
1/3 more protection, gives  
roof a handsome shadow line.

Flintkote salesman  
P. J. Keigher tells why...

**Flintkote's line  
of strip shingles  
are the greatest  
buy in roofing!**



"Take our 12" Tapered Strips, for example. They pack 25-35% more weight at the exposed tab. This extra weight—up to 60 lbs more per square than in other premium shingles—makes Tapered Strips the most dependable protection you can give a roof."

"Our Seal Tabs," continues Phil, "have a special adhesive applied to the underside of the butt. The sun's heat bonds the Seal Tabs together so that not even hurricane winds can lift them."

"The 12" Thikbut shingles give you two shingles to sell for the price of one. They're double thick at the butt—the place where the sun hits and breaks down ordinary roofing."

For particulars, literature on Flintkote's complete line of roofing, see your Flintkote representative. You will find him a great guy to work with...and he knows his stuff in building materials.

*America's broadest line of building products*

*The Flintkote Company, 30 Rockefeller Plaza, New York 20, N. Y.*





The original multiple layer aluminum foil insulation, ALFOL is the natural adjunct to modern electric heating. Scientifically designed to resist all known forms of heat loss (*beginning with radiation*), the patented ALFOL blanket helps get the utmost in operating economy out of every electric heating system.

## 8 reasons why ALFOL is the ideal insulation for electrically-heated homes

**High thermal efficiency.** In electrically-heated homes, effective insulation is doubly important. By resisting all 3 forms of heat loss, ALFOL delivers exceptional insulating value...holds annual heat costs to the practical minimum.

**Complete condensation control.** To cope with the problem of high inside humidity, ALFOL affords superior condensation protection. That's because ALFOL provides a separate vapor barrier that is positive and continuous. (It's applied in unbroken lengths.)

**"Plus" summer value.** To go along with the extra winter comfort afforded by electric heating, ALFOL gives you superior summer comfort as well. In the famous Bureau of Standards summer comfort tests, for example, it took only two layers of aluminum foil to surpass the down-heat efficiency of full-thick bulk insulation.

**Instant thermal action.** Instead of "soaking up" heat, ALFOL reflects it...instantly, continuously. This

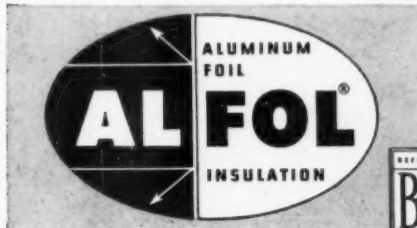
low heat storage capacity means faster heating in winter, faster cooling in summer.

**Positive application.** ALFOL application is simple, positive, virtually foolproof. All you do is staple the flanges—the multiple aluminum foil layers space themselves automatically!

**Clean, permanent, dust-free.** ALFOL is as clean, permanent and odorless as electric heat itself! Made of pure aluminum foil, there's no dust or dirt...no fibers to sift through walls, etc.

**Wind-resistance.** Applied in continuous and unbroken lengths, the ALFOL insulated panel is completely sealed, top to bottom or wall to wall. No infiltration of wind, no drafts.

**Low installed cost.** For comparable efficiency (as calculated by NEMA specifications), ALFOL usually costs less in place than any bulk-type insulation you can buy! Savings on handling, storage and application make this amazing economy possible.



Please send  
**FREE ALFOL DATA SHEETS**  
on insulating for electric  
heat for the following design temperatures:

**CHECK BOXES**  
 +20°F  
 0°F  
 -20°F

REFLECTAL CORPORATION, Department A-75  
A subsidiary of Borg-Warner Corporation  
200 South Michigan Avenue, Chicago 4, Ill.

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



**REFLECTAL**

**Borg-Warner**



In interiors, too, wood combines an essential structural function with decorative effects—saving builders the cost of additional interior finishing. Wood paneling is one of the most popular extras, helps make any house more salable.



Because wood makes *individuality* practical at any price . . .

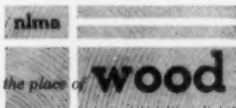
# built of WOOD means built to sell

Today, more and more buyers are in the market for a home that is completely their own . . . unique in styling, taking full advantage of site orientation, planned around their own special family needs and way of life. But how to build a house with that one-of-a-kind look without going overboard on cost? *Wood* is helping builders find the answer.

No other material is so adaptable to such a wide range of size and cost specifications. No other material conforms so readily to any architectural style, yet allows for *economical* variations on the basic design. Luxury touches such as hardwood floors, paneling, exposed posts and beams do a double job. They are

structurally important *and* decorative. These customized features go a long way toward creating a feeling of value . . . a receptive buying atmosphere that helps you *sell more houses* and *make more profit* on each sale. For more information on better homes of wood, write:

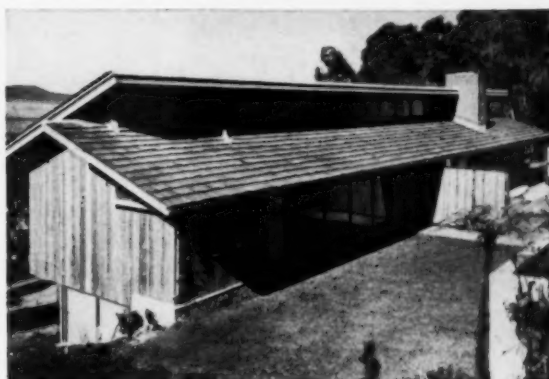
**NATIONAL LUMBER MANUFACTURERS ASSOCIATION**  
Wood Information Center, 1319 18th St., N.W., Washington 6, D. C.



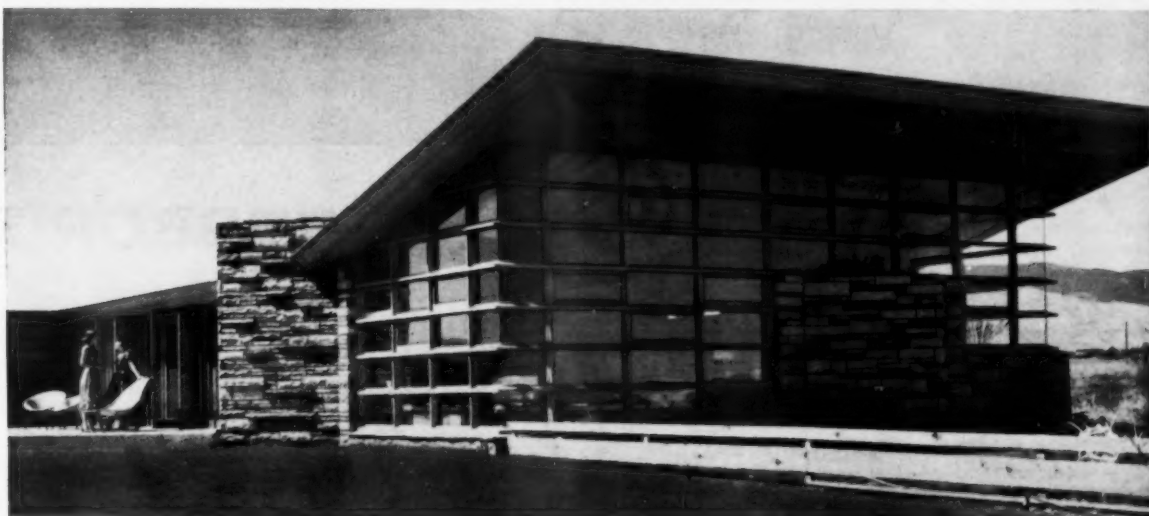
For built-in sales appeal, nothing takes the place of



Additions to homes are economically practical thanks to wood's availability and the ease with which it can be handled by workmen. And wood is traditionally right for so many home styles.



Wood is equal to any site problem as witnessed by this home perched on a California hillside. Wood's easy portability makes economical construction possible on the most difficult terrain.



A fine example of how wood construction can help the builder translate even the most advanced designs into reality. Readily-available wood framing used imaginatively makes practical this dramatic expanse of glass. A deep wood overhang shields window areas from both sun and rain.



## BUILDING PRODUCTS



New size SCORBORD snaps into 4"



... 6"



... 12"



... OR 18" WIDTHS



## NEW SCORBORD®

---

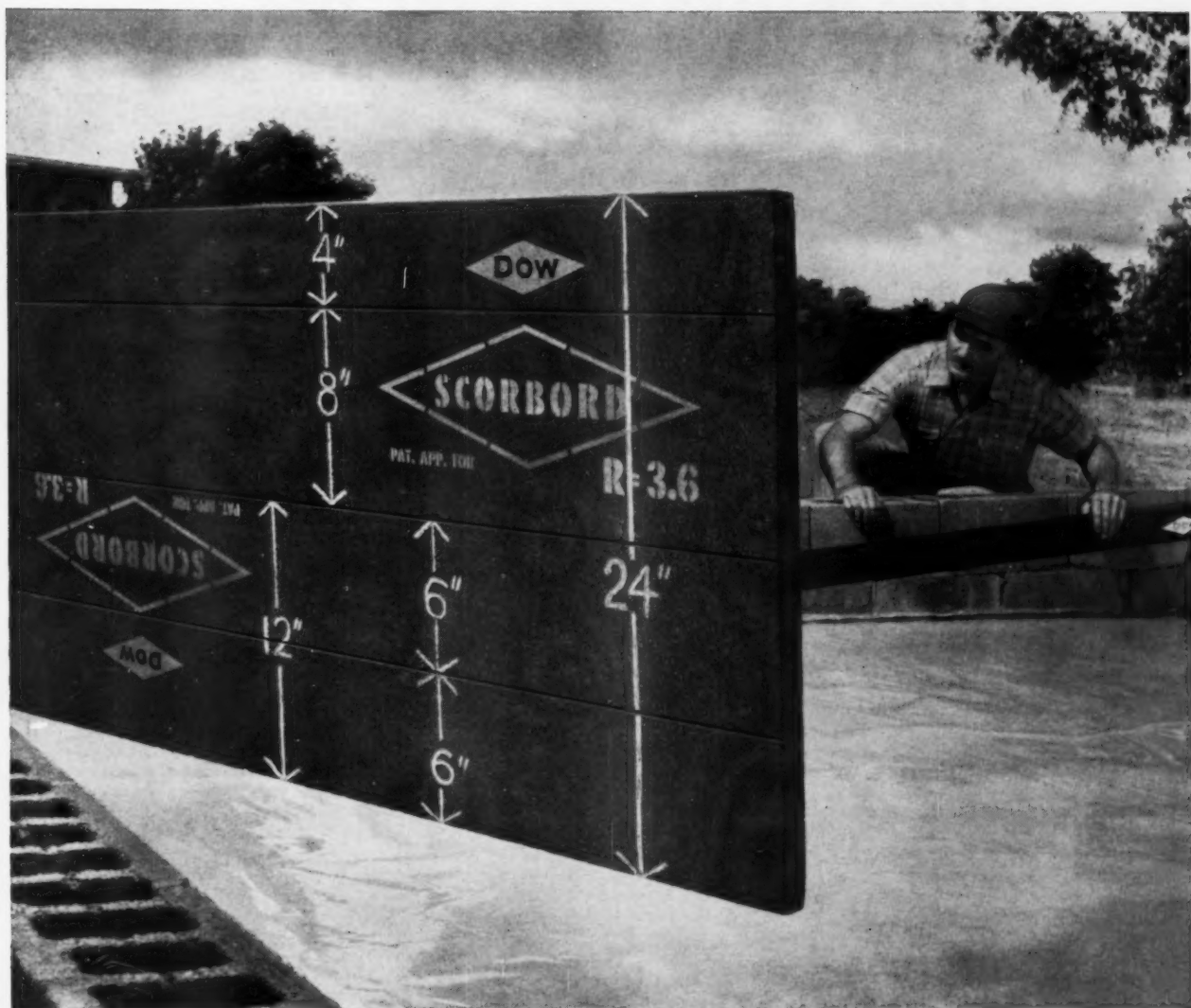
**Dow's pre-scored perimeter insulation now meets new FHA-MPS minimums for both widths and thicknesses.**

---

Dow, first with a pre-scored perimeter insulation, has re-designed Scorboard† to help you follow these new standards quickly and economically. Scorboard, expanded

polystyrene insulation board, eliminates up to 80% of on-the-job cutting and fitting. Each 24" board breaks readily into 12" or 18" widths for horizontal placement and into 4", 6" and 12" sections for vertical edging. The nominal thicknesses of Scorboard also meet FHA-MPS requirements for "R" values.

Scorboard saves money on materials, too, because it serves as its own moisture barrier. It's lightweight, easy to carry and handle . . . has plenty of compressive strength to support a concrete slab.



## MEETS NEW FHA-MPS

For more information about Scorbord, contact the Dow sales office near you or write to us. THE DOW CHEMICAL COMPANY, Midland, Michigan, Plastics Sales Department 1611D4.

<sup>†</sup>Patent applied for.

**POLYFILM®**—Dow's top quality polyethylene film is now available nationally in all standard widths and thicknesses.

### Dow Building Products at work

**STYROFOAM®**—Permanent insulation for cavity walls; replaces furring and lath as an insulation-plasterbase. Rigid, low "K" factor, resistant to water and water vapor.

**ROOFMATE®**—Rigid insulation for built-up roofs serves as its own moisture barrier. Reduces blistering, resultant leaks.

**SARALOY® 400**—Elastic thermoplastic sheet flashing conforms to almost any shape, adheres to most building materials. Expands, contracts with other materials. <sup>\*</sup>Trademark

**THE DOW CHEMICAL COMPANY, MIDLAND, MICHIGAN**

# FASTER...LOWER COST WAY TO INSULATE BLOCK AND CAVITY WALLS!



● Flows freely into cores or cavities...no cutting, no furring out...no waste. Drastically reduces costs of both materials and labor.



● Fills 100%, as in this concrete block wall. Won't settle, stays effective always. Will not permit transfer of moisture from outer to inner wall surface.

## Builders Hail Seven Benefits of New Water-Repellent Insulation!

**Faster:** High-speed installations (as pictured) cuts costs as much as 60%.

**Cut Heat Loss:** Up to 50% savings because it doubles wall insulation values.

**Stays Dry:** Patented process insures against water damage to insulation.

**Reduces Cooling Costs:** Saves up to 25% in cooling costs, permits use of smaller units.

**Non-Settling:** Retains its uniform, tamper-proof density.

**Economical:** Lower initial cost, less expensive to install. (As little as 1/2 to

1/2 the costs of insulation heretofore applied to inner wall surfaces.)

**Increases Comfort:** Minimizes condensation, keeps inner walls warmer in cold weather, insures your client's lasting satisfaction.

With all these advantages, it's no wonder more and more builders across the country are using ZONOLITE Water-Repellent Masonry Fill Insulation for block and cavity walls. To learn how you can insulate masonry walls faster and more economically, mail the coupon *today*.

ZONOLITE COMPANY—Dept. AB-40, 135 South LaSalle St., Chicago, Ill.

Please send me *free* literature telling me more about new Zonolite *water-repellent* Masonry Fill Insulation.

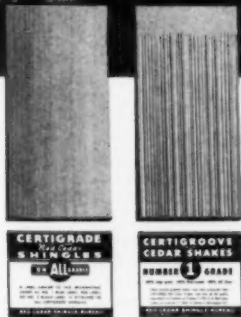
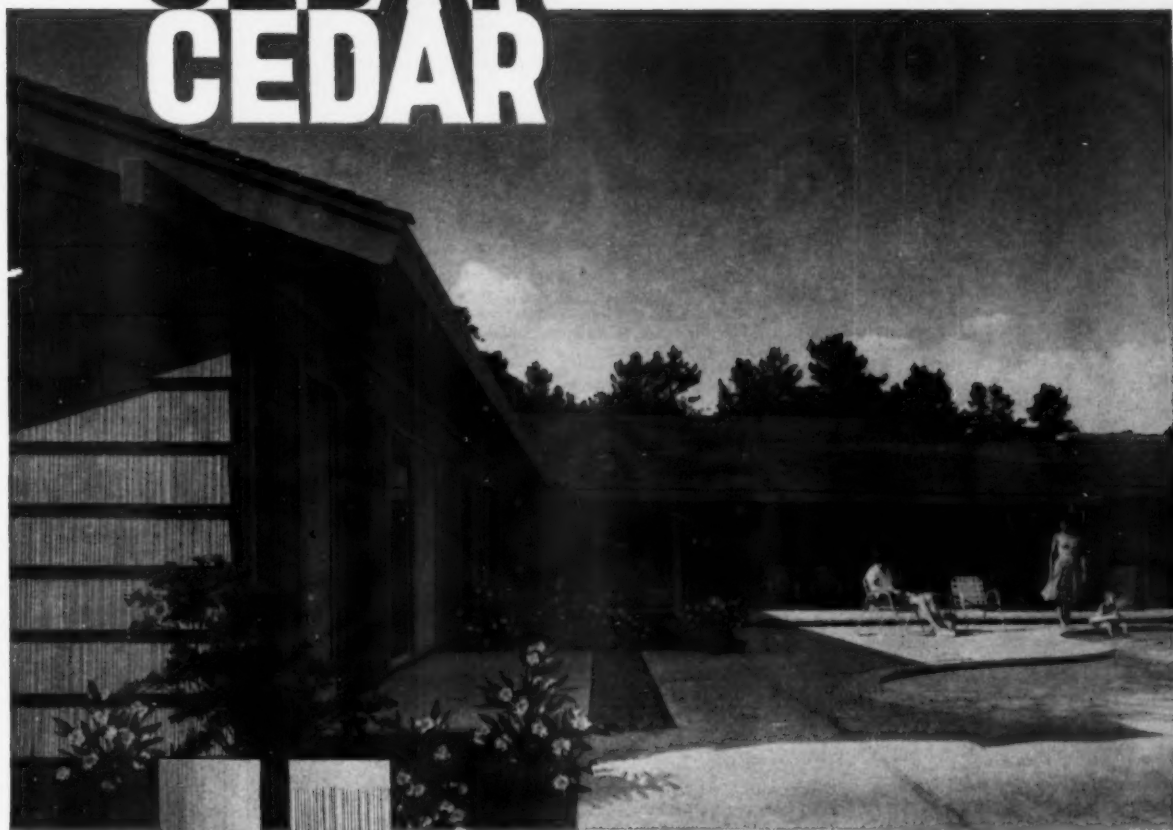
Name \_\_\_\_\_  
 Firm \_\_\_\_\_ Title \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

Mail Coupon For  
**FREE DATA** → →

*Two  
ways  
to say  
quality*

Your prospects can tell a great deal about a home—and its builder—by the level of quality they see used on the exterior. That's one of the reasons so many fine new homes feature cedar shingle roofs and cedar shake walls. Cedar says quality. Those three, long-lasting layers of cedar shingles on the roof . . . the unmistakable thickness of a double-coursed cedar shake wall . . . make a lasting impression on quality-conscious customers. This is the season to put the quality of genuine cedar on your selling team!

# CEDAR CEDAR



For complete application details, see your Sweet's File, or write...

## RED CEDAR SHINGLE BUREAU

5510 White Building, Seattle 1, Washington  
550 Burrard Street, Vancouver 1, B. C.

# BRAND NAMES DIRECTORY

(Continued from page 146)

MASCO Simpson Mark Mfg Co Inc  
 MARZOLF Farwell Metal Fabricating  
 MASLAND DURAN CLAD Masland Du-  
 raleather Company  
 MASON-DRI Sapolin Paints Inc  
 MASONITE Masonite Corp  
 MASONIZE American Asbestos Prod Co  
 MASON-SEAL Calbar Paint & Varnish  
 MASTER-BILT Bird & Son Inc  
 MASTER-CAULK Calbar Paint Varnish  
 MASTER CLEANER & POLISH Mira-  
 plas Tile Co  
 MASTER CRAFT Met-Cro Specialties Co  
 MASTER-FLUSH DOOR Hardwood Prods  
 MASTER GLAZIERS Biddle Co  
 MASTER HASPS Master Lock Co  
 MASTERKURE Master Builders Co  
 MASTER MASTIC Miraplas Tile Co  
 MASTERMIX Master Builders Co  
 MASTERPLATE Master Builders Co  
 MASTERPLY Aetna Plywood & Veneer  
 MASTER PROFESSIONAL 8 Holt Mfg Co  
 MASTIC Crown Tile Corp  
 MASTICBOARD Camp Co Inc  
 MATICO Mastic Tile Div Ruberoid Co  
 MATICO ARISTOFLEX Mastic Tile Div  
 MATICO CONFETTI Mastic Tile Div  
 MATICO DELUXE Mastic Tile Div  
 MATICO MATICORK Mastic Tile Div  
 MATICO MATICOVE Mastic Tile Div  
 MATICO PARQUETRY Mastic Tile Div  
 MATICO SUPER DELUXE Mastic Tile  
 MATICOVE Mastic Tile Div Ruberoid Co  
 MAXAW Cummins Portable Tools Div  
 MAXIM-AIR Republic Steel Corp  
 MASTIPAVE Fiberboard Paper Prods Inc  
 MAYES Mayes Bros Tool Mfg Co  
 MAYFAIR Textron Metals Co  
 MAYFLOWER Mayflower Air-Cond Inc  
 MAZEMADE Maze W H Co  
 MC DONOUGH McDonough Mfg Co  
 MECHANIZED MOLE Molco Drilling  
 Machines Inc  
 MELBOURNE National Lock Co  
 MELBOURNE Remington Alum Window  
 MEL-LUX Sapolin Paints Inc  
 MELLO-GLOSS Lowe Bros  
 MELLO-TEX Lowe Bros  
 MELLOTONE Mosaic Tile Co  
 MELLOTONE Lowe Bros  
 MELTOMATIC Wayne Chemical Prods Co  
 MENGELWOOD Mengel Co  
 MERCURY Vulcan Electric Co  
 MERCURY Weatherbest Corp  
 MERLIN Fitzgerald M J Co  
 MERMAID Lehman Sprayshield Co  
 MERTLAND Hedges M M Mfg Co Inc  
 METALACE Plexstone Corp of America  
 METALANE Monarch Metal Weatherstrip  
 METALBESTOS Metalbestos Div  
 METALLIC-LUX Lux Co Inc  
 METAL-LITE Rich Howard B Inc  
 METALLIC Lufkin Rule Co  
 METAL MASTER Wiss J & Sons Co  
 METAL MESH Alabama Wire Co Inc  
 METALOK Johns-Manville Corp  
 METALON Horn A C Div Sun Chem  
 METALSET Smooth-On Mfg Co  
 METALVENT Metalvent Corp  
 MET-CRO Met-Cro Specialties Co Inc  
 METERGAS Suburban Propane Gas Corp  
 MET-L-GLIDE Lock-Joint Window Co  
 METLVENT Hart & Cooley Mfg Co  
 METRODECK Goldsmith Metal Lath Co  
 METRO-MIX Bestwall Gypsum Co  
 MEZURALL Lufkin Rule Co  
 M-FLOOR Mahon R C Co  
 MIAMI-CAREY Miami Cabinet Div  
 MICARTA United States Plywood Corp  
 MICARTA Westinghouse Electric Corp  
 MICARTABORD United States Plywood  
 MICHIGAN Clark Equipment Co  
 MICROLITE Johns-Manville Corp

MICRO-LOK Johns-Manville Corp  
 MICROTUX Johns-Manville Corp  
 MIDGET Utica Radiator Corp  
 MIDGET Midget Louver Co  
 MIDGET (Roller) Metzgar Conveyor Co  
 MIDGET (Slat Closure) Wilson J G Corp  
 MIDLAND Lindemann A J & Hoverson  
 MIGHTY MIDGET PULLERS Coffing  
 Hoist Div Duff-Norton  
 MIGHTY-MITE Remington Arms Co Inc  
 MIGHTY MITE Holly-General Co  
 MILCOR Inland Steel Products Co  
 MILDOOM Sapolin Paints Inc  
 MILLER Miller Frank B Mfg Co  
 MILMARK Wright Mastic Tile Div  
 MINABOARD Armstrong Cork Co  
 MINATONE Armstrong Cork Co  
 MINATURES Buffalo Wallcraft Co Inc  
 MINNCOTE Minnesota Paints Inc  
 MINNFLO Minnesota Paints Inc  
 MINNSPAR Minnesota Paints Inc  
 MINUET GROUP Woodward Lee L Sons  
 MINUTE MAN Slaymaker Lock Co  
 MINUTE MOUNT Progress Mfg Co Inc  
 MIRCALE Corson G & W H Inc  
 MIRACLE Loxit Systems Inc  
 MIRACLE Newark Ladder & Bracket Co  
 MIRACLE BLACK MAGIC Miracle Ad-  
 hesives Corporation  
 MIRACLE FLOOR Camp Co Inc  
 MIRACLE TAPE Gering Plastics Div  
 MIRACLE TUB CAULK Miracle Adhesive  
 MIRAMENT Seddon Co  
 MIRAPLAS Miraplas Tile Co  
 MIRARIM Elkay Mfg Co  
 MIRATRIM Miraplas Tile Co  
 MIRRO-CHROME Penn-Akron Corp  
 MISTY WALNUT Masonite Corp  
 MITCO Hendrick Mfg Co  
 MITY MIDGET National-Detroit Inc  
 MIX ELVATOR Air Placement Equip Co  
 MOBILWALLS Virginia Metal Prods Inc  
 MODEL MAID General Electric Co  
 MODERN-COTE New Castle Products Inc  
 MODERNFOLD New Castle Products Inc  
 MODERN MAID Tennessee Stove Works  
 MODERNWOOD Modernwood Co  
 MODU-AIRE U S Air Conditioning Corp  
 MODULART Weber Showcase & Fixture  
 MOE LIGHT Thomas Industries Inc  
 MODULITE General Bathroom Prods  
 MOEN Moen Faucet Div Standard Screw  
 MOHAWK Behr-Manning Co  
 MOHICAN Mansfield Sanitary Inc  
 MOIRE St Paul & Tacoma Lumber Co  
 MOISTOP American Siskraft Corp  
 MOLCOR Bemis Mfg Co  
 MOLY Wood Shovel & Tool Co  
 MONARCH Martin-Senour Co  
 MONARCH Dietz R E Co  
 MONCRIEF Henry Furance Co  
 MON-O-JECT Smith & Loveless Inc  
 MONOMAST Hyster Co  
 MONOPANL Butler Mfg Co  
 MONO-RAIL Extension Drawer Support  
 MONITOR Baker Mfg Co  
 MONO-FLASH Carrollton Manufacturing  
 MONOGRAM Monogram Industries Inc  
 MONOMASTER Boice Crane Co  
 MONO MAST Hyster Co  
 MONTEREY Fiat Metal Mfg Co  
 MONTEREY (Screen Door) Rudiger-  
 Lang Company  
 MONUMENTAL Ware Laboratories Inc  
 MOORE GAS HEATER Locke Stove Co  
 MOORE-O-MATIC Moore A E Co Inc  
 MOPA-COTE Mobile Paint Mfg Co  
 MOPACO VAR Mobile Paint Mfg Co  
 MOR-SUN Morrison Steel Products Inc  
 MORTASEAL United States Gypsum Co  
 MORTEX #5 Mortell J W Co  
 MOR-TILE Morton Ceramic Tile Co  
 MORTITE Mortell J W Co  
 MO-SPEED American Saw & Mfg Co

MOTELIER General Bathroom Prods  
 MOTO-BUG Koehring Co  
 MOTO-MIXER Chain Belt Co  
 MOTORDOR Broan Mfg Co Inc  
 MOTO-TRIMMER Bosworth Mfg Co  
 MOTRAC Motorola Communications  
 MOULCOVE Mastic Tile Div Ruberoid Co  
 MOULFLEX-JUBILEE Mastic Tile Div  
 MOULSTONE Thomas Moulding Floor Co  
 MOULTILE ASPHALT Mastic Tile Div  
 MOULTILE JUBILEE Mastic Tile Div  
 MOULTILE PARQUETRY Mastic Tile  
 MOUNT AIRY GRANITE North Carolina  
 Granite Co  
 MOUNT VERNON Gerber Plumbing  
 MOYNO Robbins & Myers Inc  
 MOZEL Quartz Mosaic Inc  
 M P CIRCUIT BREAKERS Murray Mfg  
 MUD-JACK Koehring Co  
 MUELLERAIRE Mueller Climatrol Div  
 MUELLER CLIMATROL Mueller Clima-  
 trol Div Worthington Corp  
 MULE-HIDE Lehon Co  
 MULSOMASTIC Tremco Mfg Co  
 MULTI-CALKS Rawplug Co Inc  
 MULTI-CELL Pal-O-Pak Insulation Co  
 MULTI-COIL Ruud Mfg Co  
 MULTI-DIAMETER U S Expansion Bolt  
 MULTI-FIN Ruud Mfg Co  
 MULTIMATIC Seidlitz Paint & Varnish  
 MULTI-PITCH Home Comfort Co  
 MULTI-PURPOSE Flint & Walling Mfg  
 MULTI-SHINGLES Allied Chemical Corp  
 MULTI-SPRING Master Lock Co  
 MULTITIT Seidlitz Paint & Varnish Co  
 MULTI-USE DRIVERS U S Expansion  
 Bolt Co  
 MULTI-VENT Pyle-National Co  
 MULTI-WOOD-BLOK Fair D L Lumber  
 MURALEX Blue Ridge Glass Corp  
 MURALON National Aluminum Co  
 MURALS Birge Co Inc  
 MURRAY Gladding McBean & Co  
 MUSI-KOM Home Music Systems Inc  
 MUSI-TALK Fanon Electronic Industries  
 MW-ONE Carey Philip Mfg Co  
 MW-50 Carey Philip Mfg Co  
 NAILDRIVER Morgan Machine Co  
 NAILMASTER Stanley Tools  
 NAILON-BRICK Ludowici-Celadon Co  
 NAIRN Congoleum-Nairn Inc  
 NAIRON CUSTOM TIFFANY Congoleum-  
 Nairn Inc  
 NAIRON Congoleum-Nairn Inc  
 NAIRONTOP Congoleum-Nairn Inc  
 NAKORA United States Plywood Corp  
 NALCO National Lead Co  
 NALTEX Nalle Plastics Inc  
 NAM-A-LAC Mobile Paint Mfg Co  
 NANCY WARREN United Wallpaper Co  
 NARRO WALL Holly-General Co  
 NATCCO National Steel Cabinet Co  
 NATCHEZ FLAT ENAMEL Mobile Paint  
 NATCHEZ LUSTER-NAMEL Mobile  
 Paint Manufacturing Company  
 NATIONAL Columbia Geneva Steel Div  
 NATIONAL Metal Trims Inc  
 NATIONAL INSTANT-HOT National  
 Rubber Machinery Co  
 NATIONAL BRAND National Forest Prds  
 NATIONAL DISPOSER National Rubber  
 Machinery Co  
 NATIONAL Tilley John S Ladders Co Inc  
 NATIONAL LIFETIME TILE National  
 Tile & Manufacturing Company  
 NATIONAL LOCKSETS National Lock  
 NATIONAL National Window Corp  
 NAUTILUS NO-DUCT Major Industries  
 NAVAL Sloan Valve Co  
 NEGATOR BALANCETTE Caldwell Mfg  
 NEOCOAT Pennsalt Chemicals Corp  
 NEO-GLO Markel Electric Prods Inc

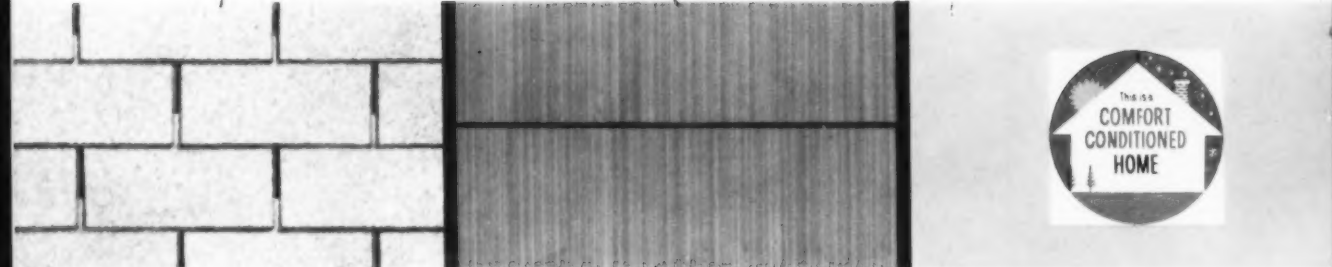
(Continued on page 190)

Our wonderful world of...



Certain-teed presents

- Dynamic Builder Services
  - Superior Building Products
- ... for the 60's



**Certain-teed<sup>®</sup>**

## Color and Comfort Conditioned

Color-Tuned  
by  
Certain-teed  
and  
Beatrice West



*Superior Products through Creative Research*

You can sell more homes in the 60's with this sales-powered trio

**Color Styling Service**—Features **free** exterior home color styling by Beatrice West, one of America's foremost color consultants.

**Complete Merchandising Program**—Features a variety of Color Tuned and Comfort Conditioned promotional tools to help you sell more homes . . . and sell them faster.

**Color-and-Comfort Promoted Products**—Performance proven! Inside or outside . . . Certain-teed products offer all the qualities every home owner wants.





## Services offer you 3 big advantages

YOU OFFER CUSTOMERS A WORLD OF COLOR with **Color Tuned Quality Asphalt Shingles**. Tough, weather-resistant, they're color styled by Beatrice West to achieve exterior color harmony . . . from a single home to an entire community! What a beautiful way to protect your prospects' homes. **Insulating Sidings** and **Asbestos Sidings** are designed to blend with any Certain-teed roof. To acquire an exciting new sense of depth and beauty, Asbestos Siding can be applied directly over **Certain-teed Shingle Backer**.

YOU OFFER CUSTOMERS A WORLD OF COMFORT with a Comfort Conditioned Home. Start with Full Insulation, **Certain-teed**

**Fiberglas Building Insulation**, made by Owens-Corning and promoted nationally through the Comfort Conditioned Home Program, is your assurance of customer satisfaction. For smart ceilings, insist on **Certain-teed Decorative Insulation Tile**. You offer decoration, insulation and sound control . . . all in a single comfort-crafted tile. Wrap every home in comfort with **Certain-teed Insulating Sheathing**. Designed specially for superior racking strength, the new **Hi-Strength 1/2"** and the standard **3/4"** completely eliminate the need for corner bracing when applied according to manufacturer's specifications. It also offers high resistance against moisture plus excellent insulating qualities.

Color-Tuned  
by  
**Certain-teed  
and  
Beatrice West**



**Dynamic builder  
services designed  
to help you sell homes  
... and sell them faster!**

GET GREATER SALES POWER from Certain-teed Color Tuned Roofing Systems Program, featuring the free Color Styling service of Beatrice West. Under the auspices of Certain-teed, Beatrice West will completely custom Color Style your entire development from your architectural drawings, bill of materials list and plot plans. **Over 30,000 homes have received this free service!**

Idea packed Builder Kit includes:

- "Exclusively Yours" home opening folder
- Beatrice West Color Styled job signs
- suggested newspaper ads
- power-packed radio and TV commercials
- publicity Blue Print



**ALL OF THE ABOVE, PLUS** the advantages of Owens-Corning Comfort Conditioned Home Program!

featuring:

- consumer ads and listings in Life magazine.
- Stan Edge sound-slide film, "Selling on Purpose", for training new home salesmen
- Comfort Conditioned Home Site signs with panels
- pennants
- builder's merchandising kit
- decals for sample homes and builder trucks
- sample home insulation display

For more information and planning help, consult your Certain-teed representative, or write direct to Certain-teed Products Corporation.



**Certain-teed®**... *Superior Products through Creative Research*

**CERTAIN-TEED PRODUCTS CORPORATION**  
Ardmore, Pennsylvania  
Plants and offices throughout the United States

# Plywood with a Plus

SAVE 30% PLUS ON SINGLEWALL CONSTRUCTION WITH...

**CREZON® OVERLAID PLYWOOD**

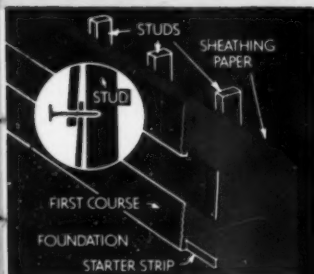


FHA accepted singlewall construction eliminates sheathing costs and labor. Combine this new technique with CreZon overlaid lap, bevel or panel siding and you'll save at least 30% in material and labor costs on installations of comparable quality.

**CUT LABOR COSTS**... CreZon overlaid siding goes up quickly, easily, cuts cleanly, requires fewer nails for application.

**CUT PAINT COSTS**... CreZon is easy to paint. Two coats do the job of three. You save one-third the cost of paint and labor.

**EXTRA DURABILITY**... CreZon is a permanent wood fiber, resin-fused overlay that eliminates cracking, checking and grain rise in exterior plywood. Paint lasts twice as long. Write: Crown Zellerbach CreZon Sales, One Bush Street, San Francisco 19, California.



BEVEL SIDING of CreZon overlaid plywood is applied directly to studs.

These leading plywood manufacturers produce the highest quality overlaid plywood by bonding CreZon to DFPA Tested exterior grade plywood:

Anacortes Veneer, Inc.	St. Paul & Tacoma Lumber Company
Diamond Lumber Corp.	United States Plywood Company
Evans Products Company	Washington Plywood Company, Inc.
Georgia Pacific Corp.	Canadian Western Lumber Co.
International Paper Company (Long-Bell Division)	MacMillan & Bloedel, Ltd.
Roseburg Lumber Company	Western Plywood Co., Ltd.
Simpson Logging Company	



FHA ACCEPTED. Singlewall construction with CreZon saves 30% plus.



**CROWN ZELLERBACH**  
CREZON SALES



▲ **Rugged Insulite Sheathing** was also used on Hill-side Apartments. Easy to nail, easy to saw, the Insulite panels cut application time, saved waste.

**Strong, easily supports workmen.** Insulite Roof Deck is made in 2' x 8' tongue and groove panels; 1½, 2 and 3" thick. 18,000 ft. of 3" type used on the job.

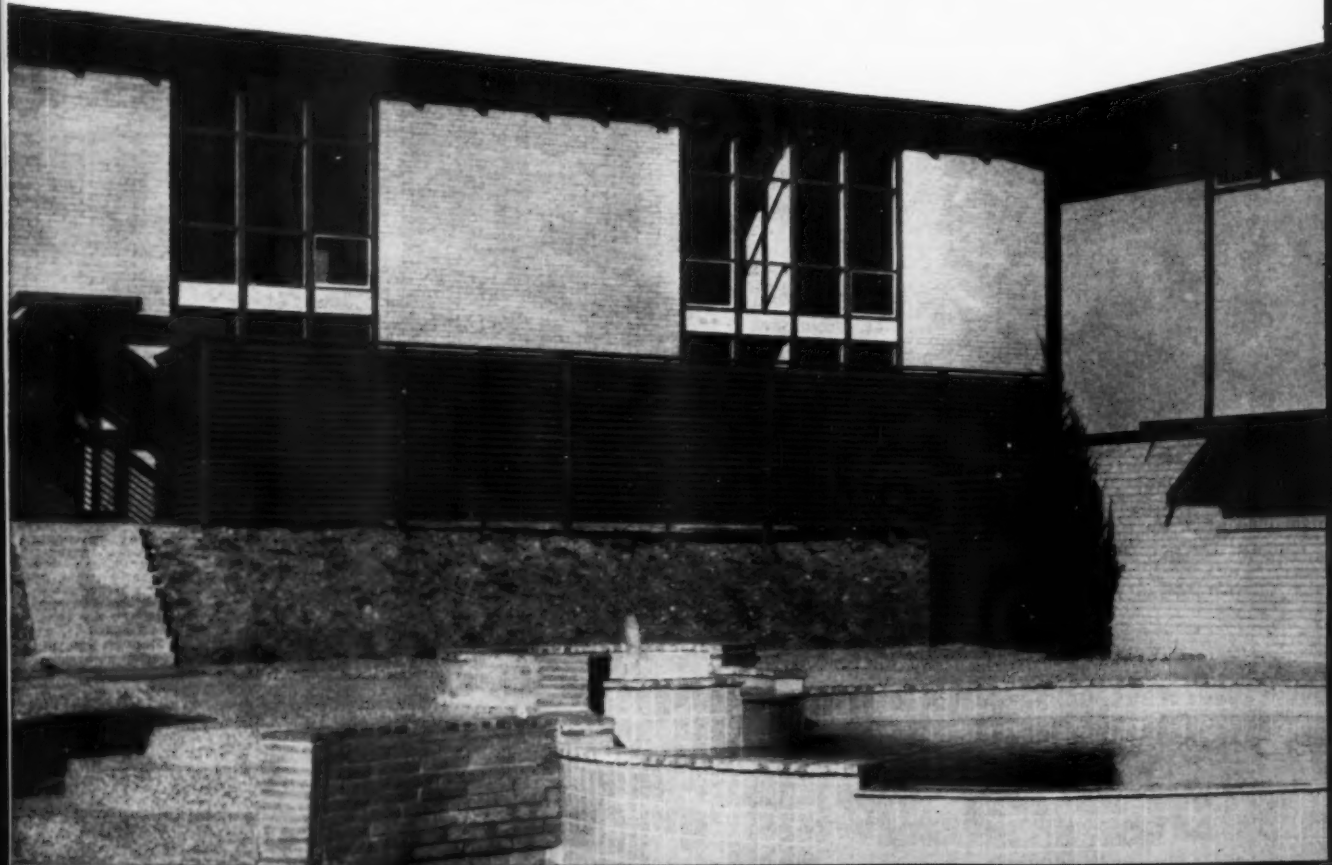
◀ **Four-in-one:** decking, insulation, vapor barrier and finished ceiling are installed in one operation!



**INSULITE**, made of hardy Northern wood  
Insulite Division of Minnesota and Ontario Paper  
Company, Minneapolis 2, Minnesota

INSULITE IS A REGISTERED TRADE-MARK, U.S. PAT. OFF.

Architects: Bailey A. Swenson & H. William Linnstaedter, A.I.A.



# Houston luxury apartment uses Insulite Roof Deck for structural strength, ceiling beauty

*It's roof decking, insulation, vapor barrier and  
pre-finished ceiling—all in one cost-saving package!*

**B**uilders Jerry McCall and Henry Hodell chose Insulite Roof Deck and Insulite Sheathing in creating this truly luxurious Hillside apartment on Houston's Memorial Drive.

The exceptional decorative and functional characteristics of Insulite Roof Deck blend perfectly with the overall plan. The open beams provide a striking contrast against the gleaming white surface. Insulite Roof Deck's 4-in-1 functional ad-

vantage economically provides a strong, durable roof decking . . . efficient insulation . . . a continuous vapor barrier . . . an attractive, finished ceiling that can be "scrubbed" with soap and water—all in one simple application.

Save money, add beauty like this to your homes, apartments, commercial buildings—with Insulite Roof Deck. Contact your building materials dealer, or write Insulite, Minneapolis 2, Minnesota.

*build better with*  
**INSULITE®**  
*Roof Deck*

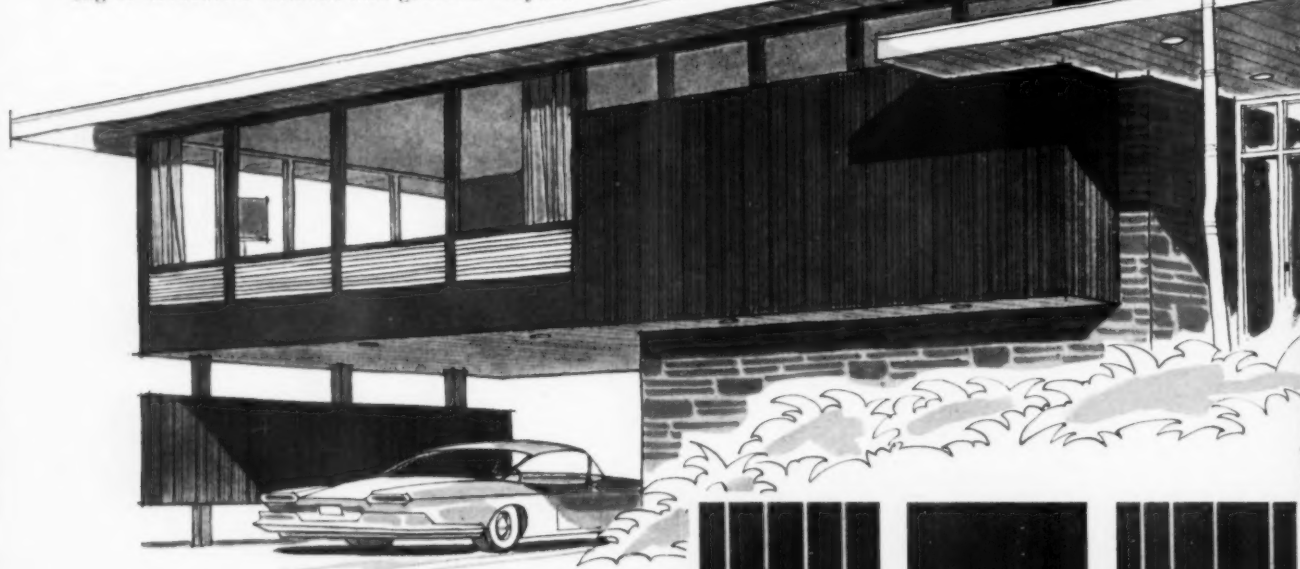




Mr. Builder:  
Stop 'em . . .  
Sell 'em . . .

## Weyerhaeuser exterior hardboards will help you do the job

You can *stop 'em* (the discriminating home buyer) with distinctive exteriors of tempered Weytex hardboard. Here is a tasteful blending of decorative striated and grooved Weytex

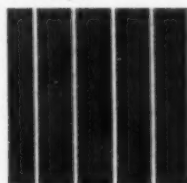


panels . . . just one of the pleasing hardboard combinations you can use in your homes for siding, accent areas, soffits, gable ends, porch decking and fencing. Large panels go up fast . . . reducing labor costs and giving your buyer more house for the money.

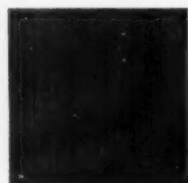
You can *sell 'em* (the value and quality minded) on the all-season weatherability, durability and practicability of tempered Weytex hardboards. These panels have a built-in strength and toughness that resists splitting, marring and denting. When finished with paints or stains panels retain their fresh beauty for the lifetime of the home. And every hardboard panel is backed by the quality reputation Weyerhaeuser has earned over 55 years in the building products field.



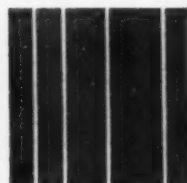
"U" Grooved Weytex panels feature a modified ship-lap edge which hides panel joints and maintains a continuous groove pattern. Battens or special joint treatments are not required. Panels are 4' wide and up to 16' long. Grooves are  $\frac{3}{8}$ " wide and  $\frac{1}{10}$ " deep, available in 4" o.c., 8" o.c. or random spacing.



"U" GROOVED  
STRIATED



STRIATED



"U" GROOVED  
SMOOTH

Tempered Weytex hardboards now available factory primed . . . ready for finishing.



**Weyerhaeuser Company**  
Silvatek Division

For your Application & Specification Guide on the full line of Weyerhaeuser hardboards, write us at Tacoma, Washington

Manufacturers of Versabord and Versaflake particle boards and Ply-Veneer kraft-overlaid veneer



## RUBEROID gives you quality where it will be seen!



LEO CHMIL, C & C HOME BUILDERS, INC., SOMERVILLE, NEW JERSEY: "The right combination of quality, color-styled roofing and siding adds extra value to new homes in the minds of prospects. This is one good reason why, for the past seven years, we have made RUBEROID products standard for the exteriors of our houses. RUBEROID roofing and siding add 'curb appeal' to our

designs. We know our buyers will be satisfied. There is no question about it—RUBEROID products help us build attractive new homes and new home sales."

**RUBEROID**®

500 FIFTH AVENUE • NEW YORK 36, N. Y.

## BRAND NAMES DIRECTORY

(Continued from page 180)

NEOPRENE ALL SEAL Stay-Tite Prods  
 NEOWOOD New Castle Products Inc  
 NEU-TONE Martin-Senour Co  
 NEVAMAR Nevamar Carefree Kitchens  
 NEVAMAR National Plastic Products Co  
 NEVER-STAIN Nichols Wire & Alum Co  
 NEW DIMENSION Sterling Faucet Co  
 NEW HOME Brown Stove Works Inc  
 NEW LONDONER Curtis Companies Inc  
 NEWPORT Hoover Bathroom Accessories  
 NEWPORT Webster Warren & Co  
 NEW STANDARD Extension Drawer Support Co  
 NIAGARA Niagara Furnace Division  
 NIAGARA MASONRY BLADES Carborundum Company  
 NICALUN American Abrasive Metals Co  
 NI-CLAD Lufkin Rule Co  
 NICHOLSON Nicholson File Co  
 #19 SHALLOW Strait & Richards Inc  
 NITEAIR Lau Blower Co  
 NO DRIP Mortell J W Co  
 NO-FIL Behr-Manning Co  
 NOMEK Lock-Joint Window Co  
 NON CON DUX Wilson Grant Inc  
 NORDAHL FEATHER-GLIDE Nordahl Sliding Door Frames  
 NORDAHL FEATHER-TOUCH Nordahl Sliding Door Frames  
 NORDAHL SPACEMAKER Nordahl Sliding Door Frames  
 NORK General Hardware Mfg Co Inc

NORMAN Sheridan Press Brick & Tile  
 NORMANS Paxton Brick Co  
 NORTH-LITE Great Northern Mfg Corp  
 NORTHERN-AIRE Great Northern Mfg  
 NORTH WIND Emerson Electric Mfg Co  
 NORTON Behr-Manning Co  
 NORWESCO Northwest Metal Products  
 NORWOOD Lawrence W W & Co  
 NORWOOD Northwest Door Co  
 NO SCRUB Goodyear Tire & Rubber Co  
 NOSTAIN Modern Swimming Pool Co  
 NO-TAR-IN Rutland Fire Clay Co  
 NOVO Novo Pump & Engine Co  
 NOVOPLY United States Plywood Corp  
 NU-AIR Meier Electric & Machine Co  
 NOX-EM-ALL Allied Chemical Corp  
 NU-ART Macklanburg-Duncan Co  
 NU-BRICK Protective Products Co  
 NU-CALK Macklanburg-Duncan Co  
 NU-C-MENT Allied Compositions Co Inc  
 NUCRETOR Air Placement Equipment  
 NUCUT Heller Tool Co  
 NU-GARD Macklanburg-Duncan Co  
 NU-GLAZE Macklanburg-Duncan Co  
 NU-HUE Martin-Senour Co  
 NU-LAP Protective Products Co  
 NU-LUME Macklanburg-Duncan Co  
 NUMETAL Macklanburg-Duncan Co  
 NU-PREST HARDBOARD Midwest Plywood Company  
 NU-RAIL Hollaender Manufacturing Co  
 NU-WALL Nu-Wall Mfg Co  
 NUSAN Modern Swimming Pool Co Inc  
 NU-WAY Macklanburg-Duncan Co

NU-WOOD Wood Conversion Co  
 NYLO Metzgar Conveyor Co  
 NYRACORD TWEED TILE American Mat  
 OAKWELD Harris Mfg Co  
 O-E Arro Expansion Bolt Co  
 OHIO AUTOCLAVED Ohio Lime Co  
 OHIO CABINETS Ohio Stamping Prods  
 OHIO EVER-READY Ohio Lime Co  
 OHIO SANLIME Ohio Lime Co  
 OHIO WHITE Ohio Lime Co  
 OIL DELUXE Williamson Co  
 OILMASTER Thatcher Furnace Co  
 OIL-O-MATIC Williams Oil-O-Matic Heating Co  
 OILSAVER Williamson Co  
 OIL SPECIAL Williamson Co  
 OIL SUPER Williamson Co  
 OILTONE Seidlitz Paint & Varnish Co  
 O K PRECISION BLOCKS O'Kelly-Eccles  
 OLD VIRGINIA WHITE Cabot Samuel  
 OLEAN Gladding McBean & Co  
 OLSON LINE Olson Mfg Co  
 OLYMPIA General Metalcraft Inc  
 OMARK Omark Industries Inc  
 OMARK-GRAHAM STUD DRIVER Omark Industries Incorporated  
 OMEGA Tilley John S Ladders Co Inc  
 ON-GARD Macklanburg-Duncan Co  
 100 PLUS Stanley Tools  
 OPEN SESAME Lancaster Pump & Mfg  
 ORANGE Eagle-Picher Co  
 ORANGE Virginia Metal Products Inc

(Continued on page 216)

*"How NU-HOME ALUMINUM SIDING gave me the 'eye-catcher' I needed to make sales!"*

Mr. Herbert Rosner, vice-president in charge of construction,  
 A. Siegler and Sons Builders, Inc., Cleveland.



This is the story of how one successful builder uses Hastings NU-HOME Aluminum Siding to build better homes for less money — and sell them faster! Mr. Rosner tells us that NU-HOME is less expensive to apply. There is less waste; work can go on in any weather. Projects look much neater and public acceptance is so good that they quickly sold out their last three projects. And, because they can close sales

faster, the company gets its money out that much sooner.

**One more important fact:** Nu-Home Aluminum Siding is sold to builders only through building supply firms. For the complete story, fill out and mail the coupon. No cost, of course, and no obligation.

**HASTINGS**  
 ALUMINUM PRODUCTS, INC.  
 Hastings, Michigan



HASTINGS ALUMINUM PRODUCTS, INC.,  
 Dept. 12 D, Hastings, Mich.

Please rush me additional information on Nu-Home Aluminum Siding.

Name

Address








































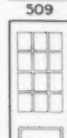

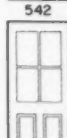







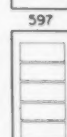





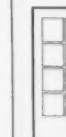









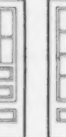
City  Zone

State



# 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	 635 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 3/4" and 1 3/4" 2'-8" and 3'-0" x 6'-8" and 7'-0"						
 510	 512	 559	 560	 561	<b>PLAIN, FLUSH and FLUSH "V" GROOVED</b> 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.						
 596	 597	 562	 563	 567							
 598	 644	 569	 570	 571	 620	 630	 637	 638	 640	 641	 642
1 3/4" 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"					<b>EXTERIOR or INTERIOR RIM, HORIZONTAL LIGHT, FRENCH or CASEMENT DOORS</b> 1 3/4" 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 3/4" only 3'-4" x 6'-8" and 7'-0"						
1 3/4" and 1 3/4" 2'-6"; 2'-8" and 3'-0" x 6'-6"; 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"						
<b>COMBINATION DOORS</b>											

### 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).

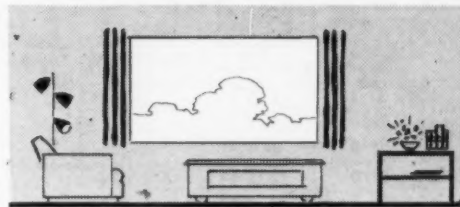
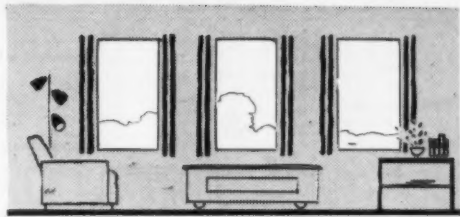


# DOORS & WINDOWS

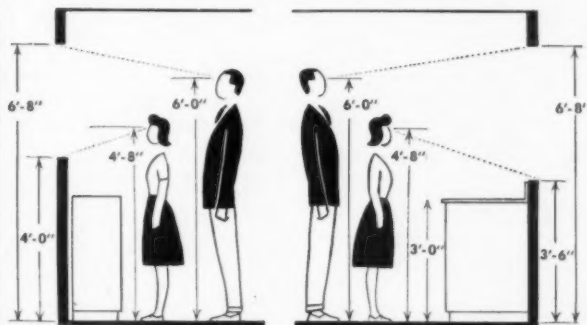
## Window Planning Principles



Windows in more than one wall give more effective light distribution throughout the room. Strip or clerestory windows furnish light and ventilation with maximum privacy.



↑ One large opening is more desirable than several small windows. Not only does the former provide a better distribution of light but dark areas between smaller openings are eliminated as well as undesirable contrasts in brightness.



Bedroom

Kitchen



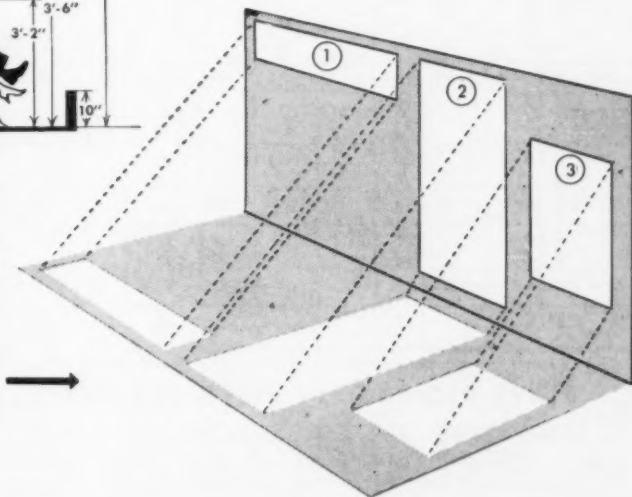
Dining Room

Living Room

Window shapes may be selected to give any desired distribution of light within the room. This diagram shows graphically how the sun's rays entering a room at a 45° angle give various patterns of light depending upon the shape of the opening. The closer the head of the window is to the ceiling, the greater the depth of penetration, as shown in openings 1 and 2. Opening 3, placed lower in the wall creates a much shorter light pattern. Strip windows, opening 1 are desirable where it is preferable to have the area beneath in shadow such as a bedroom. This diagram also illustrates why it is desirable to use windows in more than one wall for better distribution of daylight.

Consideration should be given in the placing of windows so that sills and horizontal muntins or rails do not interfere with vision either seated or standing. The sketches show the eye-level range for persons sitting and standing. Avoid horizontal window divisions within these levels. Dimensions are based on persons from 5'-0" to 6'-4" tall as well as the usual window head and sill heights as determined by furniture.

Courtesy: Small Homes Council, University of Illinois



# DOORS & WINDOWS

Wood Window Standards

## CHECK RAIL WINDOWS 1 3/4" - POPULAR SIZES AND DESIGNS

Profit Face Measurements	Stiles				Stiles				St.		St.	
	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail	Top Rail	Bottom Rail
Stiles .....	1 3/32"	1 3/32"	3/16"	3/16"	1 3/32"	1 3/32"	3/16"	3/16"	3/16"	3/16"	1 3/32"	1 3/32"
Top Rail .....	1 3/32"	1 3/32"	3/16"	3/16"	1 3/32"	1 3/32"	3/16"	3/16"	3/16"	3/16"	1 3/32"	1 3/32"
Bottom Rail .....	3"	3"	3/16"	3/16"	3"	3"	3/16"	3/16"	3/16"	3/16"	3"	3"
Vertical Bar .....	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
Horizontal Bar .....	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
Check Rail .....	1 3/32"	1 3/32"	3/16"	3/16"	1 3/32"	1 3/32"	3/16"	3/16"	3/16"	3/16"	1 3/32"	1 3/32"

Windows are made 1/8" narrower and 1/8" 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 3/4	.....	.....	.....	.....
4- 6	24	.....	.....	11 3/4	.....	.....	.....	.....
2-0 x 2-10	20 x 14	6 1/2 x 14	.....	20 x 6 3/4	6 1/2 x 7	.....	.....	.....
3- 2	16	16	.....	7 3/4	8	.....	6 3/32 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	.....
2-4 x 2-10	24 x 14	7 7/32 x 14	.....	24 x 6 3/4	7 7/32 x 7	.....	.....	.....
3- 2	16	16	.....	7 3/4	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 3/4	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	.....	.....	.....
4-10	26	26	.....	12 3/4	13	.....	.....	.....
5- 2	28	28	.....	13 3/4	14	.....	.....	.....
4- 6	24	24	.....	11 3/4	12	.....	.....	.....
4-10	26	26	.....	12 3/4	13	.....	.....	.....
5- 2	28	28	.....	13 3/4	14	.....	.....	.....
3-0 x 2-10	32 x 14	.....	7 1/16 x 14	32 x 6 3/4	.....	7 1/16 x 7	.....	.....
3-10	20	.....	20	9 3/4	.....	10	.....	7 1/16 x 10
4- 6	24	.....	24	11 3/4	.....	12	.....	12
4-10	26	.....	26	12 3/4	.....	13	.....	.....
5- 2	28	.....	28	13 3/4	.....	14	.....	14
3-4 x 4- 6	36 x 24	.....	8 1/16 x 24	36 x 11 3/4	.....	8 1/16 x 12	.....	8 1/16 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 1/16 x 24	40 x 11 3/4	.....	9 1/16 x 12	.....	9 1/16 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

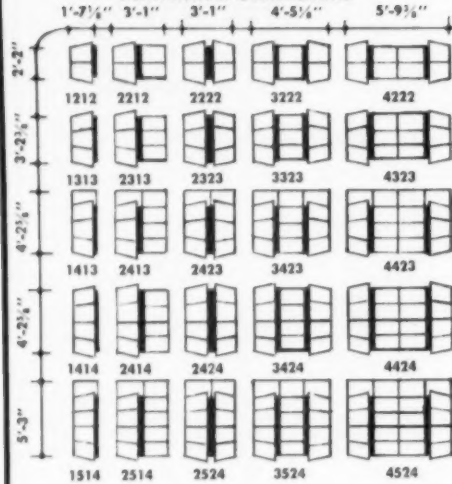
most popular. For a complete listing of all standard sizes and designs, including one light sash, transoms and porch sash, write The National Woodwork Manufacturers Association.



# DOORS & WINDOWS

## Aluminum Window Standards (Residential)

### A.W.M.A. STANDARD



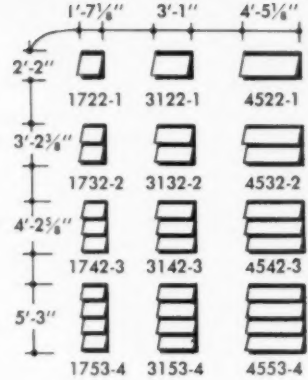
**C-A1 CASEMENT WINDOWS**  
for residential-type buildings.

Units with single ventilator may be hinged either right or left.

Fixed types furnished for all sizes shown.

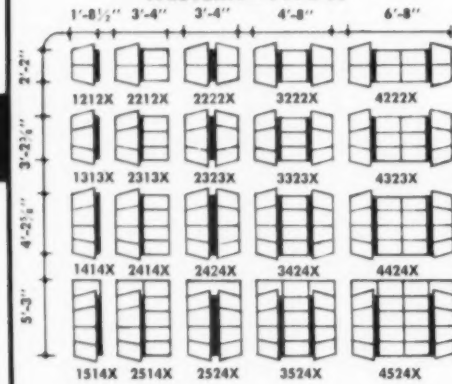
**A-A1 AWNING WINDOWS**  
for residential-type buildings.

### STANDARD SIZES



window dimensions

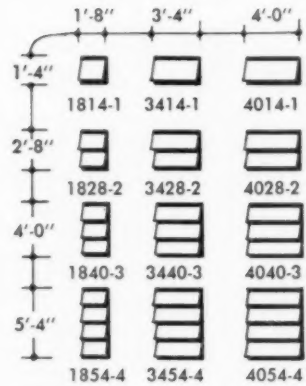
### WESTERN-TYPE X



### PICTURE OF PANORAMA WINDOWS

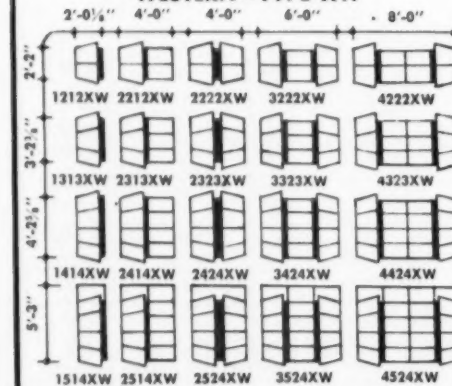
Most manufacturers of aluminum double-hung, casement, projected and awning windows offer picture or panorama windows in heights and widths that complement their standard sizes. These windows accommodate either  $\frac{3}{4}$ " plate glass or 1" double glass of the "Thermopane" or "Twindow" type. See manufacturers' catalogs for available sizes.

### MODULAR SIZES

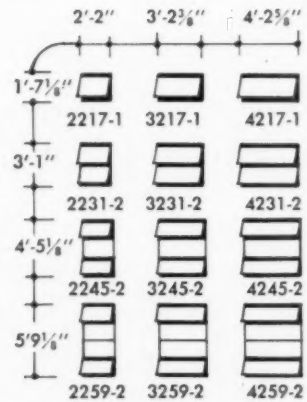


grid dimensions

### WESTERN-TYPE XW



**P-A1 PROJECTED WINDOWS**  
for residential-type buildings



Dimensions shown are window dimensions

Dimensions shown are window dimensions.

Courtesy Aluminum Window Manufacturers of America

# DOORS & WINDOWS

## Steel Window Standards (Residential)

### STEEL CASEMENTS

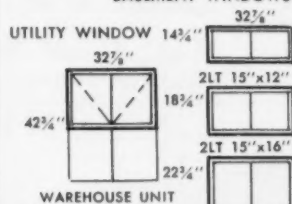
	1'-7 $\frac{1}{8}$ "	3'-1"	3'-1"	4'-5 $\frac{1}{8}$ "	5'-9 $\frac{3}{8}$ "	7'-7 $\frac{1}{2}$ "
2'-2"	1212	2222	2212	3222	4222	5222
3'-2 $\frac{3}{8}$ "	1313	2323	2313	3323	4323	5323
4'-2 $\frac{5}{8}$ "	1414	2424	2414	3424	4424	5424
5'-3"	1514	2524	2514	3524	4524	5524

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, stack sizes—special section frame construction.

### BASEMENT WINDOWS



All units shown are warehouse types and sizes.

Bullseye: 2'2" Dia.



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	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												
5'-9 $\frac{1}{2}$ "			B3059	B3459	B3859	"E" TYPES			E3059	E3459	E3859	

DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.

DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.

### FIXED PANELS

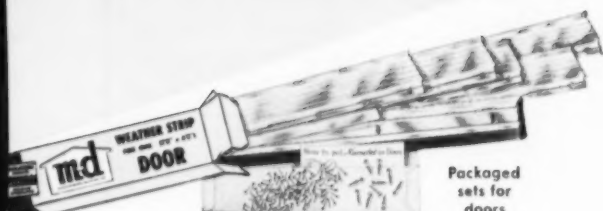
4'-5 $\frac{1}{2}$ "	F3445	F4045	F4845	5'-1 $\frac{1}{2}$ "	F3451	F4051	F4851	3'4"	F3459	4'0"	F4059	4'8"	F4859
----------------------	-------	-------	-------	----------------------	-------	-------	-------	------	-------	------	-------	------	-------

Courtesy of the Steel Window Institute

10



# For more SEE-able features... Quality Building Products



Packaged sets for doors

## M-D Numetal WEATHER STRIP

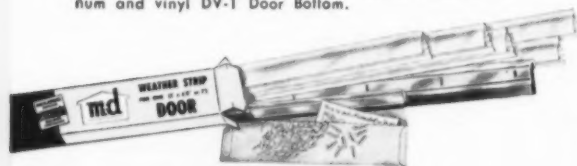
Packaged sets for doors. In stainless steel or bronze. Complete packaged units mean easier handling for you . . . easier installation for customers. M-D Numetal door sets available with regular door bottoms or with any M-D threshold.



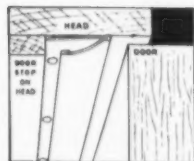
## M-D Jamb-Up DOOR WEATHER STRIP

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.

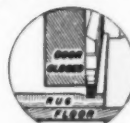


## M-D Nu-GARD AUTOMATIC DOOR BOTTOMS

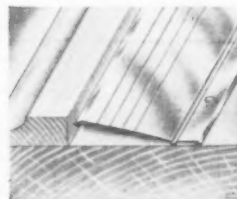
For All doors. With silvery-satin or Albras finish—will not rust or tarnish. Furnished in standard lengths—28", 32", 36", 42" and 48".



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



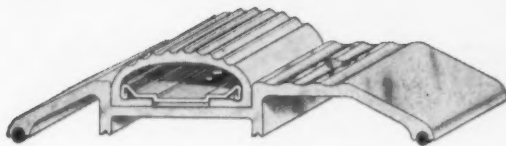
**BUILDERS** Sold by Leading Hardware, Lumber and Building Supply Dealers:

**DEALERS** ORDER TODAY your order will receive prompt shipment.

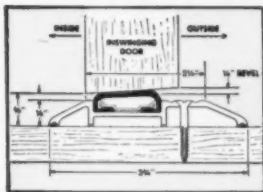


For more *SELL-able* features...

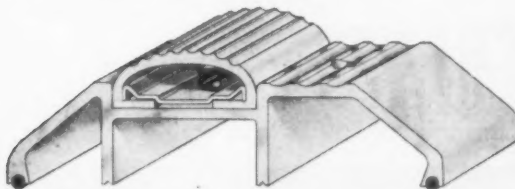
# for Doors and Windows



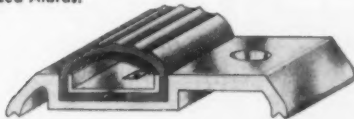
## M-D EXTRUDED THRESHOLDS



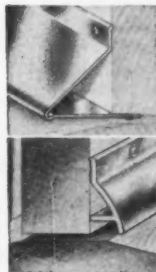
**AP-3 3/4** —America's most popular threshold with replaceable vinyl insert. Note vinyl calking strips under each leg, which may be removed if the use of Nu-Calk Calking Compound is preferred. Available in Alacrome or Anodized Albras.



**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".



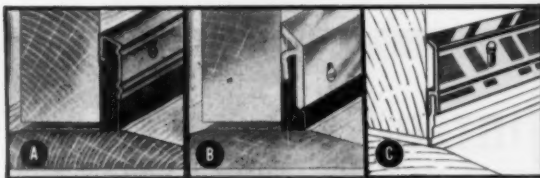
## M-D CALKING COMPOUND

*Nu-CALK* Speed Loads

World's finest calking compound available in loads, with or without nozzle . . . hand squeeze tubes . . . or 1/2 pt., pt., qt., and gal. cans. Also 5-gal. and 55-gal. drums, gun or knife grade.

## M-D *Nu-Glaze* GLAZING COMPOUND

Always sets to rubber-like consistency. Clean, easy to handle. Use and recommend with complete confidence that it always "stays put." Packed in 1/2 pt., pt., and qt. cans, 25 lb., 50 lb., 100 lb. and 880 lb. drums.



## 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.

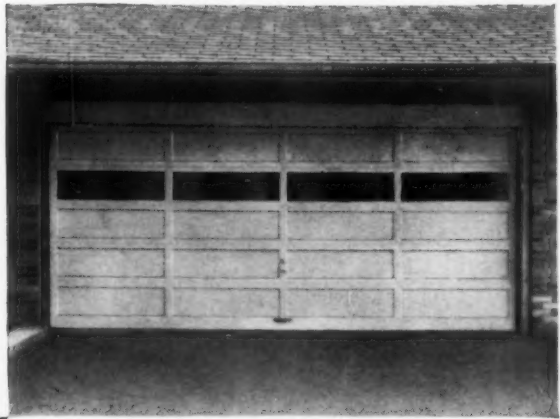
**C** M-D extruded aluminum and vinyl door bottom—in natural Alacrome or Anodized Albras finish—in all standard lengths.



# MACKLANBURG-DUNCAN CO.

Manufacturers of Quality Building Products • Box 1197 • Oklahoma City 1, Okla.

Choose  
THE FINEST OF  
**FRANTZ**  
GARAGE DOORS



THE **200** SERIES

Truly deluxe in every sense of the word, the beauty and styling of the 200 Series are matched only by its quality materials and its many features. *Just turn the latch and a 200 door glides up as if by magic, with no rebound.* On closing, a crisp click signals automatic latching on both sides. Such easy operation—plus fast installation—makes the 200 Series preferred by those who want a door that has *everything!* Choose from 21 different sizes and styles. No door can give you more!

**NO OTHER DOOR  
HAS ALL THESE FEATURES**

Exclusive double brakes, adjustable and self equalizing . . . Exclusive two-way adjustable springs for perfect adjustment . . . Chrome handle and brass cylinder lock . . . Glide-O-Matic self-opening . . . tapered track . . . inside lock . . . zinc plated hardware . . . 14 big features in all.

FRANTZ . . . *The Lumber Dealer's Door*

**FRANTZ** MANUFACTURING COMPANY  
Sterling, Illinois

**WINTER-SEAL**

makes good "House Sense"

FINEST QUALITY ALUMINUM WINDOWS, DOORS, JALOUSIES, SIDING, AWNING WINDOWS



Winter-Seal quality costs no more. Your customers enjoy the ultimate in value, comfort and beauty . . . you enjoy biggest profits.

Whatever your needs . . . Aluminum combination windows and doors, jalousies, prime windows, sliding glass doors, awning windows, siding . . . Rogers Industries delivers the complete Winter-Seal line, backed by the famous Good Housekeeping guarantee.

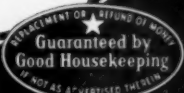
Enjoy the savings and convenience of buying all your aluminum products from your Rogers—Winter-Seal quality supplier. It makes good "House Sense."

WINTER-SEAL DIVISION

**ROGERS INDUSTRIES**

INCORPORATED

Detroit 27, Michigan

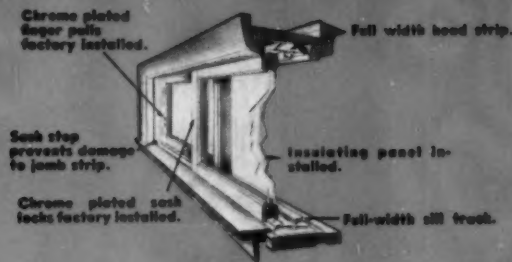


# RIMCO®

## WOOD WINDOW UNITS . . .

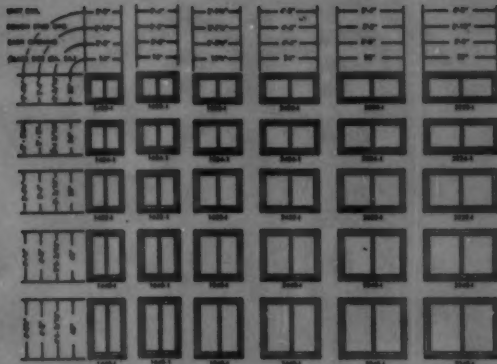


A Complete  
TOP QUALITY  
LINE TO  
ENHANCE  
ANY HOME



Both sash slip in and out with minimum effort. Easy to paint. Easy to store during plastering, less chance for breakage during "trim-out."

SELECT FROM A WIDE RANGE OF SIZES . . .  
see as singles, ribbons or corners.



### RIMCO "SLIDE"

A truly advanced concept of a modern window style, the Rimco Slide gives you real fenestration versatility. *And*, for all its luxury features, it's economical from every angle . . . purchase price, installation time and painting ease with virtually no call-backs.

### CHECK THESE FEATURES —

Yes, check these features against window units selling for much more and you'll see why more and more builders and architects are making the change to Rimco Slide —

- ★ Easy removal through "just right" pressure on aluminum head track.
- ★ Anodized aluminum sill track for smooth, quiet operation. Nothing to stick or bind.
- ★ All wood parts are protected with deep penetrating Woodlife preservative applied by the Dri-Vac *Controlled* process.
- ★ Plastic sash-stop prevents pinched fingers and damage to weatherstripping.
- ★ Factory applied chrome plated finger pulls and sash lock.
- ★ Anodized aluminum weatherstripping
- ★ Wood head glazed with glass bedded.
- ★ Insulating panels factory installed.
- ★ Prefit screen, wired aluminum, complete with hardware.

# RIMCO®

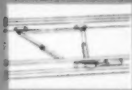
## "SLIDE" WOOD WINDOW UNITS

"VENT" WOOD WINDOW UNITS

**RIMCO**



STANDARD  
PUSH BAR



DELUXE  
LEVER-LOCK



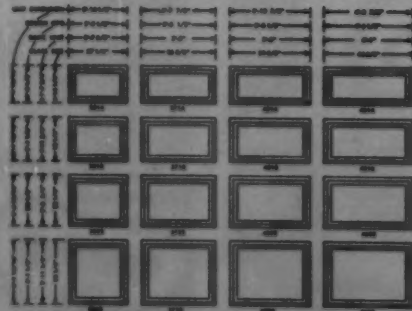
CUSTOM  
ROTARY GEAR

Three underscreen operators are available to meet every requirement. All are tops in their class.

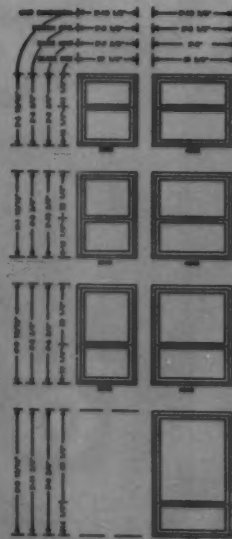
Rimco "Vent" and "View" Units in Combination



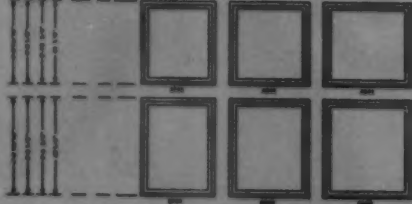
**RIMCO "VENT"**



**RIMCO "VUVENT"**



**RIMCO "VIEW"**

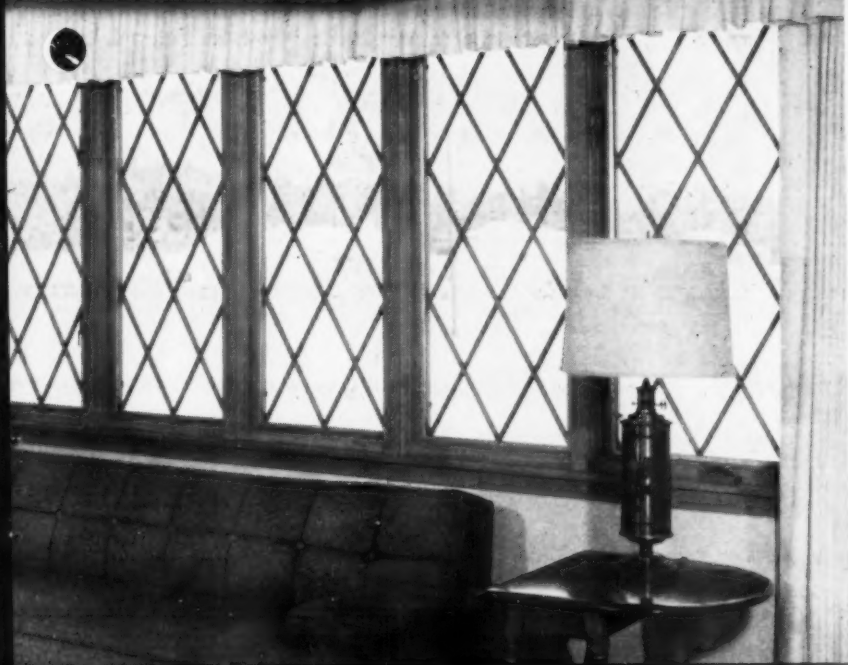


**RIMCO "VENT"**

Here's a Rimco Wood Window Unit that is popular for both residential and commercial building. Its weathertight construction has made it the first choice of many builders and architects. Hundreds of uses: singles, ribbons, stacks, corners, casement and picture groupings (as shown above).

Of particular interest is the new Rimco "VUVENT" Unit — combining all of the features of the "VENT" and "VIEW" in one full-jamb unit with new narrow meeting rails.

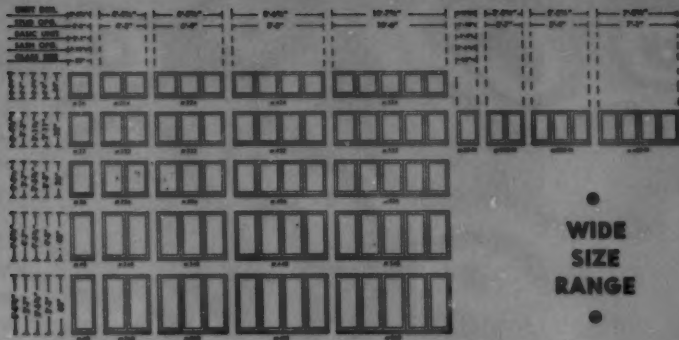
Many built-in benefits: The warmth and beauty of Selected Ponderosa Pine . . . Woodlife DRI-VAC treated . . . Anodized aluminum weatherstripping . . . Choice of three underscreen operators . . . Choice of regular or insulating glass . . . Gold-toned aluminum screens . . . and many, many more.



## RIMCO "CASEMENT"

Compare these features to any casement on the market and you'll agree that with Rimco you get more merchandizable window for the money.

- ★ Selected Ponderosa Pine
- ★ Protected with deep-penetrating Woodlife preservative applied by the Dri-Vac controlled process
- ★ Anodized aluminum and stainless steel weatherstripping
- ★ Over 90° swing-out for ease of cleaning
- ★ Deluxe rotary operator for positive operation with no "wind-rattle"
- ★ Available with regular glazing & Insulating Panel or 1/2" insulating glass.
- ★ Concealed sliding hinge
- ★ Continuous sub-sill on multiple units, for fast, foolproof installation
- ★ Side jamb lugs provide extra bearing support



**HUNDREDS OF COMBINATIONS**  
And they make beautiful arrangements  
with their companion Picture Sash Unit.

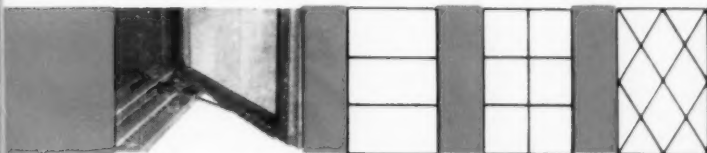
Deluxe in every respect, the Rimco Casement Window Unit has been engineered for extra features right down to the last detail.

*Monobuilt* construction assures

fast installation with sag-free operation.

Rimco's new concealed sliding hinge gives a clean outside appearance . . .

no exposed hardware . . . you see only the beauty of the window itself.



Removable grille inserts  
customize every house.  
Available in three patterns . . .  
horizontal, rectangular  
and diamond light.

Long, sturdy operator-arm and concealed sliding hinge (nylon traveling over stainless steel track) provide over 90° sash opening for ease of cleaning and catching a breeze from either direction.

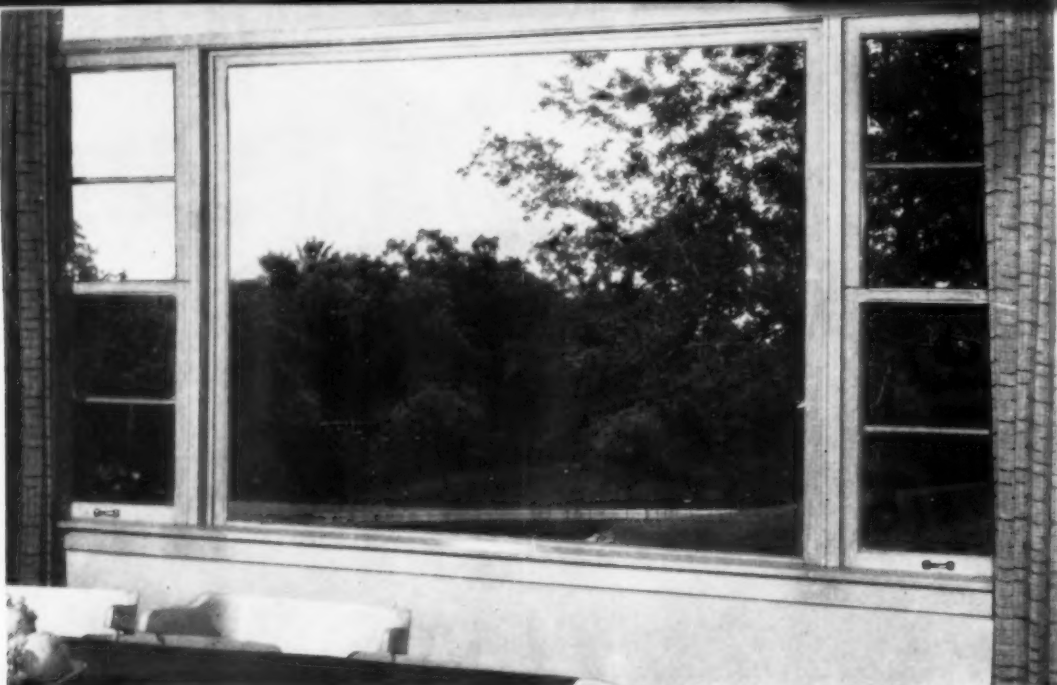
**RIMCO**

"CASEMENT" WOOD WINDOW UNITS

WOOD  
WINDOW  
UNITS

"SIX-TEN"—"BAY"—"BASEMENT"

**RIMCO**



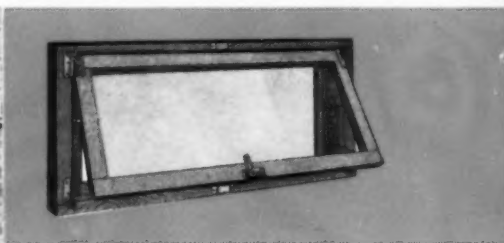
#### RIMCO "SIX-TEN"

Now . . . from Rimco . . . a removable double-hung Wood Window Unit designed for standard frame openings . . . the Rimco Six-Ten. Choice of the Six-Ten gives you features like: Construction of selected Ponderosa Pine, protected with deep-penetrating Woodlife preservative applied by the Dri-Vac *controlled* process; both sash removable; anodized aluminum weatherstripping, factory applied; available in a wide variety of sizes and light designs to compliment any architectural style.



#### RIMCO "BAY" WOOD PICTURE WINDOW UNIT

New from Rimco! Feature beautiful bay windows in your homes without the cost of making up on the job. Selected W.P.P. . . .  $\frac{1}{2}$ " insulating glass . . . available in 4, 5, 6, sash wide each sash one light or 4 horizontal lights. A touch of elegance at reasonable cost.



#### RIMCO "BASEMENT" WOOD WINDOW UNIT

Packed with features, the Rimco "Basement" Wood Window Unit rounds out the line of quality products. Weatherstripping completely factory installed; reversible hinges permit sash to be hinged from top or bottom; fits standard block openings; removable sash; insulating panel plus an optional screen-frame mounted panel affords triple glazing. Like all Rimco Wood Window Units, the Rimco "Basement" Unit is protected with deep-penetrating Woodlife preservative applied by the Dri-Vac *controlled* process.

HELPING BUILD AMERICA FOR OVER 90 YEARS

**RIMCO**

ROCK ISLAND MILLWORK COMPANY  
FACTORY DIVISION  
Rock Island, Illinois

# 8:00 a.m.

...NO PORCH IN SIGHT!



# 5:00 p.m.

...COZY AND TIGHT!

*The unique modular construction of DeVAC GlassWalls permits rapid installation, with resulting savings in labor costs. Two workmen can enclose a porch or breezeway in DeVAC GlassWalls in one working day. Result—the final cost of building a GlassWalls room is less per square foot than the cost of building any other room.*

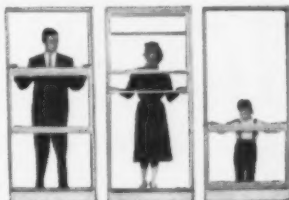


*DeVAC GlassWalls, the fastest, most economical way to build "that extra room" ... whether you convert a porch or breezeway or start from the ground up.*

DeVAC GlassWalls are full-length window units with wood surround and a hollow base that can conceal wiring and ductwork. GlassWalls are their own upright supports, and require only trim as a facing. Full-length Fiberglas screens are included. Storm sash is optional. With DeVAC's exclusive three-way directional control of ventilation, (shown at right), GlassWalls give home-owners "control" of the weather—summer or winter. Get the full story of DeVAC GlassWalls from Sweets Catalog, or from any qualified DeVAC representative.

## DeVAC, inc.

5900 Wayzata Blvd., Minneapolis 16, Minn.



**PROFIT by the demand for Family Rooms!**

**DeVAC, Inc., Dept. AB-4**  
5900 Wayzata Blvd. • Minneapolis 16, Minn.  
Please send me complete information on DeVAC GlassWalls.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_

**DeVAC**  
GlassWalls

SEE OUR  
CATALOG IN  
SWEET'S

OR WRITE FOR COPY

# 3 GREAT SALES-WINNING

BEAUTIFUL BIRCH



KITCHEN CABINETS



SLIM...TRIM...



CASEMENTS



VERSATILE, NEW



4-WAY WINDOWS



ASK FOR FULL  
DETAILS ON THESE  
PRODUCTS TODAY!

**FARLEY & LOETSCHER MFG. CO.**  
DUBUQUE, IOWA



# QUALITYBILT LINES...

## OVER 120 DESIGNS AND SIZES

Over 120 standard Qualitybilt units permit complete flexibility in design and layout to "custom-style" kitchens without extra cost. Cabinet-maker quality throughout . . . full 1" thick, 7-ply, warp-resistant doors, dovetailed drawers, mortise-tenon joints on front frames, distinctive hinges and pulls in a choice of four finishes. Available Semi-Assembled (KD); Set-Up Unfinished; or Set-Up Finished natural or enameled.



**SUPER SATIN SURFACE\***—This excitingly new densified and glossified surface is supplied on all flat exposed surfaces . . . can be finished "as is," stained, or painted. Saves up to 75% on finishing costs.

\* Trademarks "Super Satin Surface" and "SSS" (or "Triple S")—Use licensed on products having a Supersealed or Super Microsealed surface that satisfies the quality standards of the trademark owner.



FULL 1" DOORS



GRACEFUL PULLS



DOVETAILED DRAWERS



OFFSET HINGES



MORTISE-TENON JOINTS

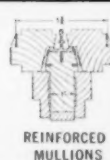


POSITIVE CATCHES

## MODERN NARROW LINES... QUALITY HARDWARE

The *finest* and most complete casement line available. Two widths of sash in five heights available with one light, divided lights, insulating glass, or window glass with R.D.G. Precision hardware includes offset hinges for easy cleaning from inside, pick-up action locks, powerful operator. Complete units include frame, glazed sash, inside stops, mullion casings, weather strip, hardware and screens. Frames and glazed sash accurately prefit to size, toxic treated, weather strip applied.

**REMOVABLE INSERTS**—New Qualitybilt snap-out inserts provide divided light effects with standard one light units . . . make cleaning and painting a snap.



REINFORCED MULLIONS

INSIDE CLEANING



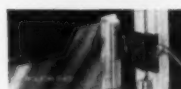
POWERFUL OPERATOR



REMOVABLE GLAZING PANEL



SNAP-OUT INSERTS

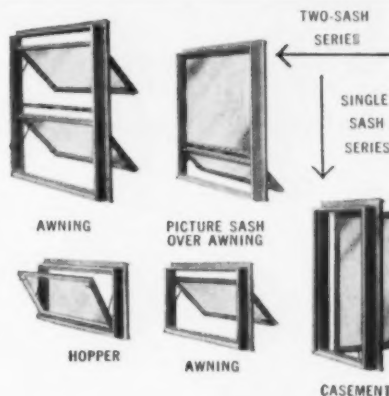


PICK-UP ACTION LOCKS

## HUNDREDS OF COMBINATIONS WITH TWO STYLES

This amazing window line provides hundreds of imaginative window combinations with only two types of units . . . TWO-SASH and SINGLE SASH. Use them as Awning, Hopper, Outswinging Casements, or FIXED UNITS . . . singly or in ribbons, stacks, or with picture units. Select from roto, lever, bar, or manual operation, single glazing with removable double glazing panels, or insulating glass. Fully weatherstripped and toxic-treated with water-repellent preservative.

Complete catalogs in Sweets 1960 Architectural and Light Construction Files.



Entrances • Doors • Frames • Sash • Blinds • Casements • Screens  
 Glider Windows • Sliding Doors • Combination Doors • Storm Sash • Louvers  
 Garage Doors • Mouldings • Interior Trim • Sash Units • Kitchen Cabinet Units  
 Cabinet Work • Stairwork • Disappearing Stairs • "Farlite" Laminated Plastics

SELECT FROM  
 A COMPLETE LINE  
 OF QUALITYBILT  
 MILLWORK ITEMS!



Naturally, the Strauss twins specify Twindow®. The Strauss brothers specify TWINDOW in *all* their homes. They build around 600 units a year in Lincoln, Nebraska. In their sales pitch, the Strausses point up the fact that TWINDOW keeps a home warmer in the winter, cooler in the summer—saves on heating and cooling bills all year 'round. And there are no storm windows to put up, take down and store away. TWINDOW is a permanent storm window. The Strausses find that many of their buyers are on second and third homes. Having had TWINDOW in a previous home, they insist on TWINDOW in the next. This gives Strauss homes a definite sales edge over homes without TWINDOW. TWINDOW-Glass Edge and TWINDOW-Metal Edge come in all popular sizes for a wide variety of window styles. Write for our TWINDOW Booklet. Pittsburgh Plate Glass Company, Room 0117, 632 Fort Duquesne Boulevard, Pittsburgh 22, Pennsylvania.



... the windowpane with insulation built in



# TWINDOW<sup>®</sup>



Pittsburgh Plate Glass Company

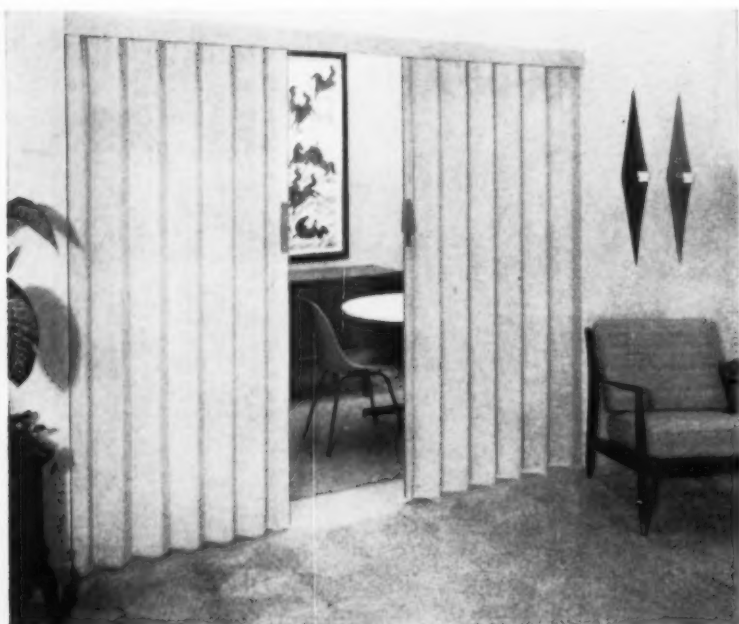
*Paints • Glass • Chemicals • Fiber Glass*

*In Canada: Canadian Pittsburgh Industries Limited*

# Open these doors TO THE MOST

## CLOPAY VINYL-COVERED FOLDING DOORS

From budget-priced Steelite, to decorator styled Magic-Fold, Clopay makes a vinyl-covered closure for every need . . . from a tiny closet to a huge multi-door installation . . . in fabulous selection of colors.

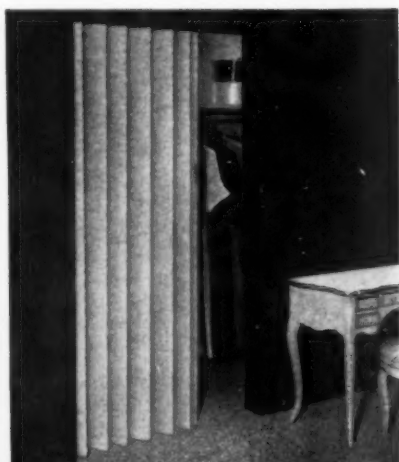


### CLOPAY MAGIC-FOLD

Elegant in style and quality to please the most discriminating taste . . . yet modest in price. Designed to blend equally well with contemporary or traditional furnishings . . . in single or double-door installations. Available in a wide range of easy-to-care for "Fashion" vinyl coverings.

### CLOPAY STEELITE

Luxurious styling and budget price makes Steelite the most practical closure. Can be installed in minutes. Vinyl laminated to S-curved steel panels that never sag out of shape insuring customer satisfaction. Latch-o-matic model includes matching cornice and deluxe handle.



### CLOPAY WAL-DOR

Economy line . . . but with many higher priced features. Handsome shantung embossed vinyl covers encase solid core panels for a lifetime of beauty and utility. Doors glide smoothly without a whisper. Easy and quick to install.



# DISCRIMINATING HOME BUYERS IN THE WORLD!

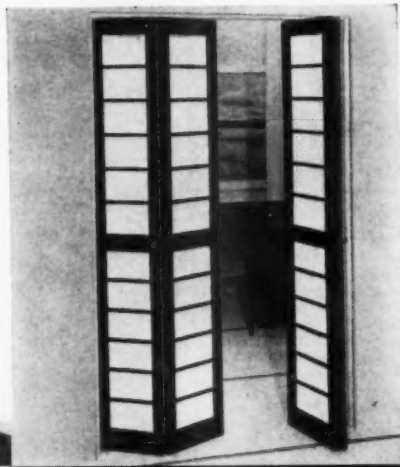
**CLOPAY WOOD DOORS**

Distinctive line offering a choice of outstanding decorative styles. Available in bi-fold, by-pass, accordion or conventional construction. Carefully crafted of kiln-dried redwood, and other fine woods, Clopay wood doors are sanded satin smooth, ready for finishing.



## CLOPAY TROPIX-WEVE

High styled, multi-purpose door for the décor conscious purchaser. Made of kiln-dried California redwood frames with choice of woven redwood or blond mahogany (African limba) panel inserts. Woven panel construction provides ventilation of closets and any other areas where moisture might collect.



## CLOPAY SHOJI

A touch of rich oriental flavor . . . though reasonably priced. Sturdy Fiberglas. panels simulate the delicate beauty of rice paper. Double removable panels facilitate finishing.



## CLOPAY SCULPTURED (Medallion and Louver)

Exclusive new three-dimensional panel treatment. Crafted of kiln-dried California redwood frames with sculptured panels. Frames and panels may be painted to match or contrast with room décor . . . for the luxury look at the budget price.

**CLOPAY corporation**

CLOPAY SQUARE, CINCINNATI 14, OHIO

Factories at Detroit, Augusta, Ky., and Cincinnati

Door Division, Dept. AB-4  
Clopay Corporation, Clopay Square, Cincinnati 14, Ohio

Please send me literature on the following:

Vinyl covered doors  Wood doors

Have representative call.

Name \_\_\_\_\_

Firm \_\_\_\_\_

Address \_\_\_\_\_

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

LOOK INTO  
THE *Complete* LINE...

# WAGNER *Garage* DOORS



## RESIDENTIAL

Standard and special designs in sectional overhead type residential doors for quick factory drop shipment. Makers of the fabulous Redwood Beauti-door.



## WOOD

All standard types of sectional overhead wood doors available in extension spring or torsion spring galvanized hardware.



## STEEL

Sturdy sectional and one-piece steel overhead type doors available in residential and commercial sizes. Galvanized steel and factory painted.

## COMMERCIAL

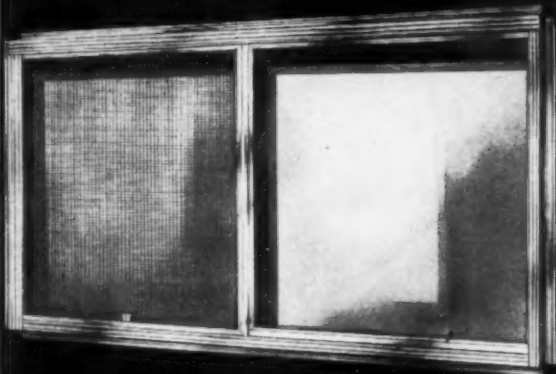
Commercial sectional overhead type doors job design in wood or steel with either extension or torsion spring galvanized hardware.



**WAGNER MANUFACTURING COMPANY**  
CEDAR FALLS, IOWA, U.S.A.

- Investigate the Wagner profit-making sales plan on Garage Doors. Ask for condensed price list AB-60.
- Wagner also makes sawhorse trestles, folding scaffold and ladder brackets. Ask for building hardware bulletin AB-60H.

*Now...*   
**FFF**  
**IN OUR WINDOW!**



*Now...*  
**FROST FREE FEATURE**

AVAILABLE ON ALL



HORIZONTAL ROLLING ALUMINUM PRIME WINDOWS

manufactured by

**IDA PRODUCTS CO.**

1909 E. FOREST / DETROIT 7, MICHIGAN

*Write for full particulars*



## wood casement windows

...only ones to offer exclusive Rolscreen feature

Talk about a living convenience feature you can *demonstrate*...PELLA and only PELLA offers an *inside screen that rolls up and down!* Besides that, storm sash are also self-storing. Folks can say, "*goodbye window chores!*" After wrestling with conventional screens and storm sash, home buyers regard these two PELLA features as sheer luxury. And yet, you can afford PELLA WOOD CASEMENTS in your popularly priced homes. Do as so many leading builder-merchandisers are doing. Combine PELLA CASEMENTS with



Six standard No. 23W PELLA CASEMENT UNITS used in this arrangement.

economical PELLA TWINLITE® or MULTI-PURPOSE WOOD WINDOWS. Find out how this will work on your next job by calling your PELLA distributor *now*. Consult your classified telephone directory...or mail coupon.



ARCHITECT: PAUL ALBITZ, BUILDER: JOSEPH N. BOYER

.....THIS COUPON ANSWERED WITHIN 24 HOURS.....

**ROLSCREEN COMPANY**, Dept. LB-22, Pella, Iowa  
Please rush me literature on PELLA WOOD CASEMENTS, TWINLITE and MULTI-PURPOSE WINDOWS.

.....

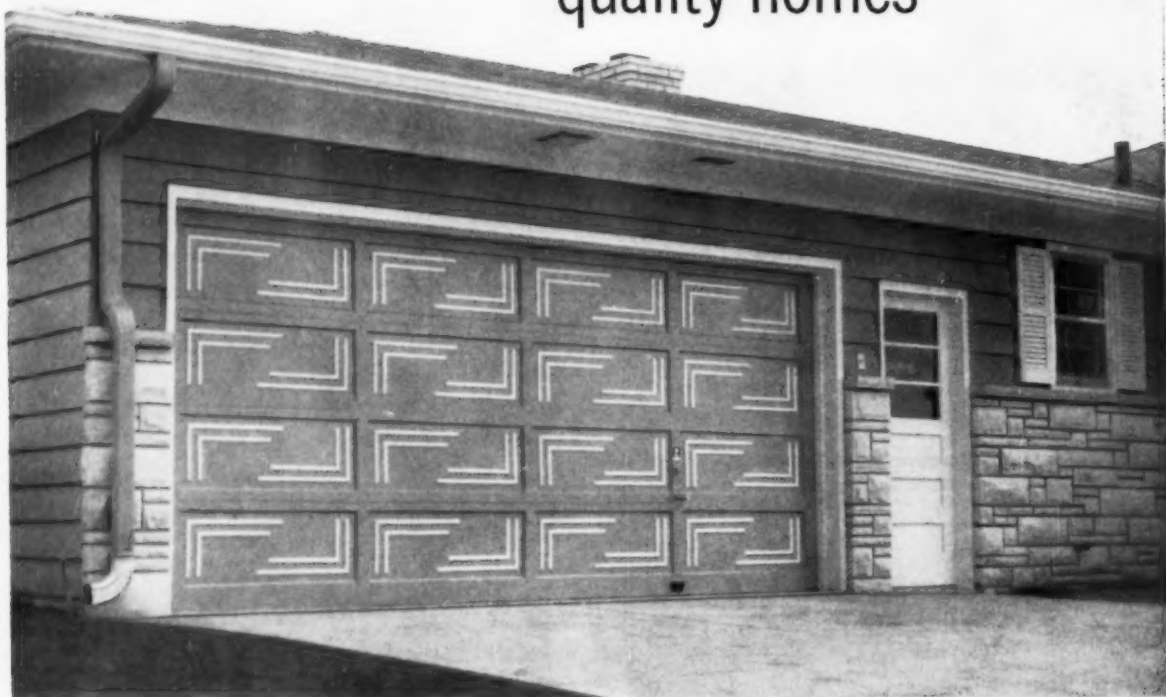
NAME \_\_\_\_\_

FIRM NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY & ZONE \_\_\_\_\_ STATE \_\_\_\_\_

finishing touch  
to your  
quality homes



## a RO-WAY overhead garage door

You know it . . . we know it . . . today's home buyers are more cautious, more critical, more quality-conscious than ever. So, the more *quality* products you can show and demonstrate, the easier it is to close the sale.

In RO-WAY garage doors you have quality that practically speaks for itself. *Smart styling*, for example, with decorative or standard panels. *Finest materials*—carefully selected woods and heavier-gauge hardware. *Superior construction* throughout, such as glued and steel pinned mortise and tenon joints, rabbeted sections, precision squared muntins, rails and stiles. *Easy, quiet operation* with ball bearing rollers, specially designed track and tension-balanced springs working together for smooth performance.

This is RO-WAY quality . . . quality your prospects can see and appreciate . . . quality that helps make your sales job easier. See for yourself—call your RO-WAY distributor for full details.

*For added sales appeal and maximum convenience, install the famous RO-WAY Electric Operator with push-button or remote electronic control.*

SEE OUR CATALOG



### Only a GARAGE Offers:

- Complete Protection
- Finished Appearance
- Extra Storage Space
- Extra Room

*there's a Ro-Way for every Doorway!*

RESIDENTIAL • COMMERCIAL • INDUSTRIAL



ROWE MANUFACTURING CO.  
720 Holton Street • Galesburg, Illinois





**Malta**  
**'let-in-the-sun'**  
**window**  
**designs**

*"Town and Country" oriel (fixed upper sash with operating lower sash) create the feeling of spaciousness... let in the sun... save you \$50 to \$60 per multiple installation.*



*Malta "Town and Country" units, with two fully operating awning-type sash, let in more sun... permit up to 100% ventilation.*

*Malt-A-Glide wood units combine ideally to form large glass areas and distinctive groupings for light and airy living.*



**lower your building costs...  
 improve buyer appeal**

Malta "let-in-the-sun" window designs instantly and unforgettably convey to the prospective buyer an impression of genuine quality, beauty, modern styling... and a promise of cheerful living.

The new Malta "Town and Country" oriel unit, for example, gives your new homes all the warmth and utility of wood windows—plus slim, trim lines. The spacious fixed upper sash and awning-type lower sash let in more sun and light. And, there is no clumsy center partition rail to spoil the thin-line design or obstruct visibility.

Malta "Town and Country" units give you all the features of stacked vents... yet they cost about one-third less. An Erie, Pennsylvania builder stated flatly: "I save enough with 'Town and Country' windows to include screens and storm sash at no cost to the buyer."

Talk to a Malta dealer today. He's your direct line to faster sales and higher profits on every new home you build.

*Supreme Quality Since 1901*  
**THE MALTA MANUFACTURING CO.**  
 Malta, Ohio

# Cut installation time IMMEDIATE DELIVERY in half!

## COMPLETE PRE-ASSEMBLED SET

Includes aluminum jamb cover, steel flocked spring balances, spring covers. COVERS RIVETED PERMANENTLY.

One piece for each side of double hung window! Just fasten the sash and the job is done. Installation time is half! Speeds window production, too! Increases profits! Complete range of sizes for all frame openings!

Gives silent dependable operation plus tightest possible seal. Check with us today for prices.

SEND FOR THIS  
**FREE  
CATALOG**



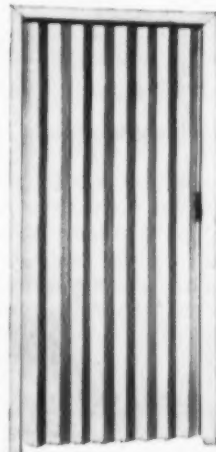
**CENTRAL METAL STRIP CO.**

4343 N. WESTERN AVENUE • CHICAGO 18, ILLINOIS • JU niper 8-8036



WITH  
*Pre-assembled*  
**CENCO**  
WEATHERSTRIP  
AND  
SASH BALANCE

## INSTALLED IN SECONDS!



**NO Hanging!**  
**NO Painting!**  
**NO Hardware!**

New, unique patented design enables the builder to use construction short-cuts, labor-saving installation procedures never before enjoyed. Available in heights to 8', widths to 4'. Can be installed in pairs. 16 lovely, washable, fire-resistant vinyl colors available.

THE  
*Columbia-matic*

**FABRIC DOOR**  
*Slashes Builders Costs*

For complete details write

**THE COLUMBIA MILLS, INC.**  
368 S. WARREN STREET SYRACUSE 1, NEW YORK

## BRAND NAMES DIRECTORY

(Continued from page 190)

ORIENTAL United States Gypsum Co  
ORTHOXIDE California Spray-Chemical  
ORTHO-GRO California Spray-Chemical  
OSMOPLASTIC Osmose Wood Preserving  
OSMOSALTS Osmose Wood Preserving  
O T C Owatonna Tool Co  
O-T OPEN TRUSS Republic Steel Corp  
OVERDOORS Barber Colman Co  
OXALUMA Cortland Grinding Wheels  
OXFORD Oxford Tile Co  
OZWOOD PRESERVATIVE Osmose Wood Preserving Co  
OZARK Ozark Oak Flooring Co  
OZAN Ozan Lumber Co  
P A R Protection Products Mfg Co  
P & S Pass & Seymour Inc  
PACEMAKER Elkay Mfg Co  
PACEMAKER Harloc Products Corp  
PACEMAKER Hubbell Harvey Inc  
PACEMAKER McQuay Inc  
PACEMAKER (Light) Wakefield Co  
PACEMAKER (Furnace) Payne Co  
PACE-PAK Burnham Boiler Corp  
PACER Sequoia Manufacturing Co  
PACER (Windows) Aluminum Industries  
PACE-SETTER Tennessee Fabricating Co  
PACESETTER Beautycraft Kitchens Div  
PACIFIC Pacific Brass & Hardware Mfg  
PACIFIC MERCURY P-M Pacific Mercury  
PACIFIC MERCURY SOLO Pacific Mercury Marketing Div  
PACKET National-U S Radiator Corp  
PAD Producers & Distributors Inc  
PAINTERS PRIDE Wooster Brush Co  
PAINTGUN Root-Lowell Corp  
PALCO Pacific Lumber Co  
PALCO Pratt & Lambert Inc  
PALKYD Pratt & Lambert Inc  
PALETIER Barrett Cravens Co  
PALLET-PAK Fair D L Lumber Co  
PA-O-PAK Pal-O-Pak Insulation Co Inc  
PALOS VERDES Palos Verdes Stone Dept  
PAN-A-LITE Arnold Altex Aluminum  
PANATONE Baldwin-Ehret-Hill Inc  
PANAVIEW Glide Windows Inc  
PANCAKE Wiremold Co  
PANELAIR Payne Co  
PANELBOND Horner Flooring Co  
PANELFOLD Panelfold Doors Inc  
PANEL-GLO Benjamin Electric Co  
PANELGROOVE Masonite Corp  
PANELRAY Day & Night Mfg Co  
PANELSTONE Ruberoid Co  
PANELPLANK Plywood Co  
PANEL-TRACK Embassy Steel Prods Inc  
PANELWOOD Masonite Corp  
PANEL-VENT Owens-Illinois  
PANELYTE St Regis Paper Co  
PANLAM Polyplastex United Inc  
PAQUA Moore Benjamin & Co  
PARADOME Holophane Co Inc  
PARAFLO Dravo Corp  
PARAGON Allied Chemical Corp  
PARA-HUE Sapolin Paints Inc  
PARALLEL-O-GREY Libbey-Owens-Ford Glass Company  
PARALLEL-O-PLATE Libbey-Owens-Ford Glass Company  
PARA-PLASTIC Serviced Prods Corp  
PARBOND Parr Paint & Color Co  
PARFLAKE Structural Products Div  
PARFLEX Parr Paint & Color Co  
PARKWOOD Parkwood Laminates Inc  
PARMASTIC Parr Paint & Color Co  
PAROID Bird & Son Inc  
PARQUET WOODTILE Robbins Flooring  
PAR-TILE Plywood Service Inc  
PAR WOOD Plywood Service Inc  
PASADOR Farley & Loetscher Mfg Co

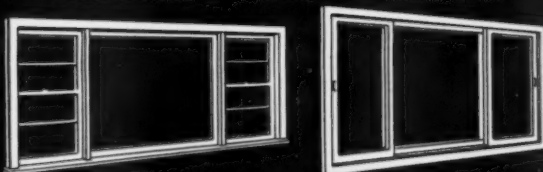
(Continued on page 221)

# Now, a complete window line

*as close as your phone!*

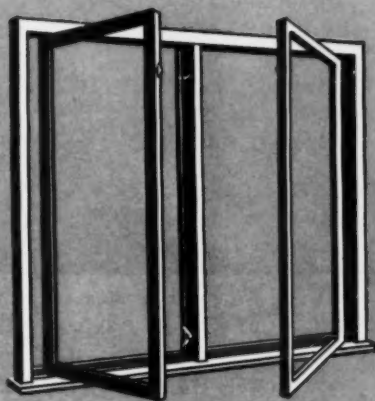
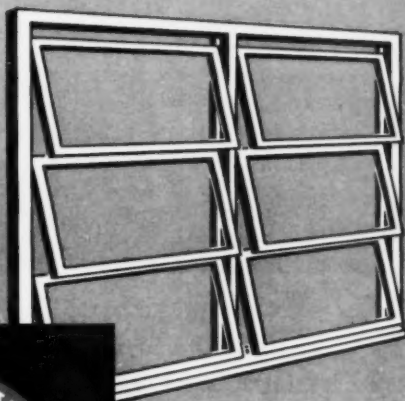


For many years the leader with Removable Double-Hung and Glide Windows



Exactly the right style and size for every residential requirement. Get details of the R·O·W full-line story from your dealer. He knows he can back R·O·W Windows all the way. Better design, more features and top-quality construction make these windows the first choice of builders who want to sell homes fast and at a fair profit. Achieve installation labor savings and eliminate costly call-backs with these beautiful windows.

**AND NOW- America's Finest Awning and Casement**



Both R·O·W SURE-LOK AWNINGS and R·O·W ROYAL CASEMENTS are self-locking. There are no separate and awkward locks. Both are beautifully designed for easiest operation and positive weather protection. They are years ahead of all competitive windows in styling and operation. If the R·O·W distributor in your area is not yet making these available, write us and we will have the closest manufacturing R·O·W distributor forward full information to you.

QUALITY  
**R·O·W**  
WOOD WINDOWS

R·O·W is the trade-mark of R·O·W Sales Company, 1365 Academy Avenue, Ferndale

R·O·W SALES CO. • 1365 ACADEMY AVE., DEPT. AB-460 • FERNDAL 20, MICHIGAN



Now 2 types of *Thermopane* insulating glass for all kinds of windows



It's both desirable and practical to put insulating glass in *all* of the windows of a house. Two types of *Thermopane* make it possible: *Thermopane with Bondermetic Seal\** for picture windows, window walls and sliding doors; *GlasSeal\** *Thermopane* for double hung, casement, awning, sliding—all types of opening windows.



Double Hung



Casement



Picture Window



Awning



Sliding Door

# In every room . . . built-in quality you can put your finger on!

It's there, lightly etched right on the pane — the familiar name *Thermopane*®.

Your prospective home buyers may miss it if you don't point it out. It's that inconspicuous! But the inscription is there—PROOF that you've used the best—built-in quality your prospects have read about in magazines and seen on network TV.

*Thermopane* has been nationally advertised for 17 years.

So most of your prospects know that *Thermopane in every window* means a more comfortable home to live in. A home that will cost them less to heat, less to air condition.

Put *Thermopane* in all of the windows of your next model house. Offer it as an option, if you wish. *Thermopane* is the best-known, most wanted insulating glass in the world.

## . . . you can't miss with these merchandising aids!

Your L·O·F Glass Distributor or Dealer has other merchandising aids to help make your model home promotion a complete success. Phone him — he's listed under "Glass" in the Yellow Pages of your phone book.



FREE WINDOW STICKERS

FREE HANDOUT FOLDERS



FLOOR DISPLAY (available on loan)

Advertised on **Bourbon St. Beat** . . . ABC-TV Network . . . Monday Nights\*

\*In most cities. Consult your local station schedule

**Thermopane**  
INSULATING GLASS

made in U.S.A.  
only by



LIBBEY • OWENS • FORD • TOLEDO 3, OHIO

another first from **Bilt-Well**  
by **Caradco**



**Only BILT-WELL Casement and Double-Hung Windows convert to Angle and Radial Bays with all Stock Parts**

Stock filler moulds for radial bays available to make angles from 5 degrees to 12 degrees. Choice of 30 or 45 degree stock filler moulds for angle bays.

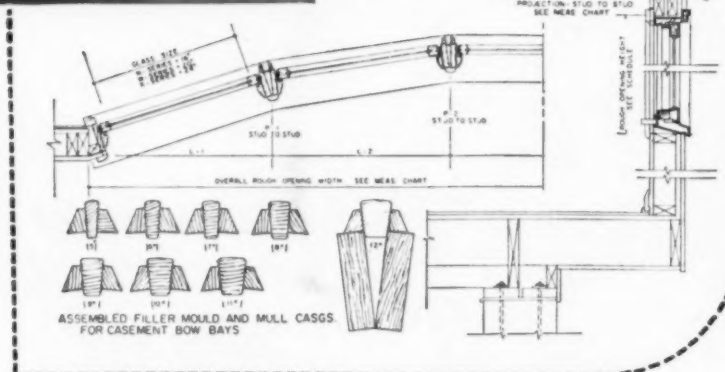
**BILT-WELL Engineering offers new flexibility in planning window arrangements... new labor-saving installation features**

Unique window groupings limited only by creativity of the designer with BILT-WELL's unitized sill construction and stock filler moulds.

Individual units can be installed side by side in long, continuous ribbons... around corners... in charming angle or bow bays.

*The BILT-WELL Line of Building Woodwork—WINDOW UNITS, Double-hung, Awning, Casement, Basement. CABINETS, Kitchen, Multiple-use, Wardrobe, Storage, Vanity-Lavatory. DOORS, Exterior, Interior, Screen and Combination.*

manufactured by  
**CARADCO, Inc.**  
Dubuque, Iowa



*Look for these BILT-WELL Window Features*

- 1. Distinctive Hardware**
- 2. Effective Weatherstripping**
- 3. Kiln-dried Ponderosa Pine, preservative treated**
- 4. Surpasses F.H.A. Requirements**
- 5. Single or Insulating Glass**

*There's more to offer with*

**BILT-WELL**  
**WOODWORK**

*by Caradco*

# Specify the BILT-WELL Line by CARADCO

## Super double-hung windows



### Super-hold

with ingenious sash-holding device for budget homes.



### Super-lift

with fingertip operation for medium priced homes.



### Super-therm

with double insulating glass for custom built homes.

## Casement Windows



Sleek, trim, double-weather-stripped casements with concealed hinges and hardware. Utilized sill permits side-by-side installation in long ribbons.

## Awning Windows



New releasable hinge permits removal of sash for easy cleaning. Lever, jointed bar, rigid bar or gear operator available. Use these windows as casements, awning, hopper or fixed sash.

## Kitchen Cabinets



Beautiful, streamlined cabinets of Ponderosa Pine, all water repellent treated for dimensional stability, with pine or birch doors and drawer fronts. Cabinets come in 3" modules to fit any size kitchen. Wide choice of accessories.

## Storage Walls



Economical and practical arrangements of door and drawer units form complete storage walls. Easy to install in out-of-the-way corners for additional storage, too.

**BILT-WELL Products**  
by **CARADCO, INC.**  
Dubuque, Iowa

## BRAND NAMES DIRECTORY

(Continued from page 216)

PATCH PASTE Schaik Chemical Co  
PATHFINDER LIGHTS Cannon Electric  
PATIO MAGIC Daryl Products Corp  
PATIO RAMA Daryl Products Corp  
PATRICIAN Tilley John S Ladders Co  
PATTEN-COMFORT Patten J V Co  
PAUL BUNYAN Linseed Oil Products Co  
PAUL HEINSLEY'S Heinley Mastercraft  
PAYLOADER Hough Frank Co  
PAYLOGGER Hough Frank Co  
PAYMOVER Hough Frank Co  
P C GLASS BLOCK Pittsburgh Corning  
PEARLITE Lustrro Tile Mfg Co  
PEE GEE Devoe & Reynolds Co Inc  
PEE GEE Peaslee-Gaubert Paint Varnish  
PEERLESS Peerless Heater Co  
PEERLESS Robbins Flooring Co  
PEERLESS Tucker Duck & Rubber Co  
PEERLESS Peerless Corp  
PEERLESS DOOR Holcomb & Hoke Mfg  
PEG-BOARD Masonite Corp  
PELLA Rolscreen Co  
PENCLOR Pennsalt Chemicals Corp  
PENCHROME O'Brien Corp  
PENCO McGuffie Co  
PENCO (Cabinets) Alan Wood Steel Co  
PENETRAY Penetray Corp  
PENETREM Trencro Mfg Co  
PEN-FAST O'Brien Corp  
PENGLASS Pennsylvania Wire Glass Co  
PENMETAL Penn Metal Co Inc  
PENN CRETE Penn Crete Prods Co  
PENN-TONE Penn Crete Prods Co  
PENN TROWEL Pennsalt Chemicals Corp  
PENNVERNON Pittsburgh Plate Glass  
PEN-O-LASTIC McGuffie Co  
PENPLY Peninsula Plywood Corp  
PEN-SHEEN O'Brien Corp  
PENTAFLEX Moore Benjamin & Co  
PENTA STAIN Wood Treating Chem Co  
PENTECOR Mississippi Glass Co  
PEN-TEX O'Brien Corp  
PENTEX Penn Crete Prods Co  
PENTOX Osmose Wood Preserving Co  
PEOPLE HEATER Emerson-Pryne Co  
PERCHLORON Pennsalt Chemicals Corp  
PERF-A-TAPE United States Gypsum Co  
PERFEC-SEAL Reese Metal Weatherstrip  
PERFECTAIRE Perfect Line Mfg  
PERFECTION Arkansas Oak Flooring Co  
PERFECTION Lufkin Rule Co  
PERFECTO Green A P Fire Brick Co  
PERFORALL Woodall Industries Inc  
PERFO-ROUND Cascades Plywood Corp  
PERFO-SQUARE Cascades Plywood Corp  
PERFUSAIRE Auer Register Co  
PERIM-A-BASE Burnham Corp  
PERIMAHEAT Young Radiator Co  
PERIM-A-PACK Burnham Corp  
PERIMETER INSULATION Corson G & W H Inc  
PERIMSUL Baldwin-Ehret-Hill Inc  
PERLITE Builders Fireplace & Supply  
PERMA BED Biddle Co  
PERMACOUSTIC Johns-Manville Corp  
PERMA-CUSHION Robbins Flooring Co  
PERMA-GARD Gilbert & Bennett Mfg  
PERMAGLAS Smith A O Corp  
PERMA GLAZE Biddle Co  
PERMAGLE COMPOUNDS S & #10 Permagile Corp of America  
PERMAGLOSS Thomas Moulding Floor  
PERMA-GRIT Skil Corp  
PERMA JACKS Perma-Jack Corp  
PERMA-JET Webb Industries Inc  
PERM-ALIGN Cummins Portable Tools  
PERMALINE Line Material Industries  
PERMALITE Great Lakes Carbon Corp

(Continued on page 224)

Wedge  
Tight  
**calder**

**GARAGE DOORS**

**HELP SELL HOMES**

for Albee Homes, Inc.

NILES, OHIO



Because they incorporate a fine combination of smart, good looks with excellent construction and workmanship, they find that Calder doors help to make home sales easier and their list of satisfied customers grow. Every Calder Wedge-Tight door . . . the door that floats on lifetime bearings . . . fits like part of the wall, yet even a child can raise and lower it easily.

Discover for yourself how Calder doors can help to sell your houses. Our trained salesmen will be glad to create interest at your Demonstration Homes with radio controlled doors . . . provide free, colorful literature . . . demonstrate famous Calder quality to help sell the house!



**FREE  
CATALOG...**

illustrates full line of residential and commercial garage doors, many more top quality features.

DEALERSHIPS AVAILABLE

**calder**  
MANUFACTURING CO.

LANCASTER 12, PENNA.

MODERN!  
WABASH

# VISTA

Tomorrow's window<sup>o</sup>



**DISTINCTIVE VISTARAMA CASEMENT WINDOWS**—with exclusive Vistarama removable framed grids. Slimlined elegance combined with a smart decorator touch.

**YEARS AHEAD** of all other windows—Vistarama leads in design, engineering and construction. Quality craftsmanship combines with “new idea” features to make Wabash Vistarama the wood window line that sells on sight.

The Wabash Vistarama line, with its new dimension in styling, offers you windows to sell for every home, every room. Not shown above are Vistarama Panel Windows . . . versatile units that install in countless groupings; can be used as awnings, hoppers, fixed units or as economy casements. And gracious

Vistaview Picture Windows combine with any ventilating unit in charming combinations.

All Wabash Vistarama units are crafted of preservative-treated Ponderosa Pine . . . backed by 75 years of Wabash woodworking skill. Get all the facts on this modern line of quality wood windows—learn how you can fit Wabash Vistarama Windows into your summer and fall starts, and to remodeling projects. Learn how adaptable these units are to a variety of designs. You'll find prospective home buyers will appreciate the extra quality of Wabash Vistarama Windows.



Features...here today!

# RAMA

WOOD  
WINDOWS



**MODERN VISTARAMA PICTURE-AWNING WINDOW**—for a picture view and fresh air, too. Fixed upper sash, ventilating lower sash in a single Vistarama unit.

**Typical Vistarama advanced design features:**

**MORE WEATHER-TIGHT**—neoprene weatherstrip, applied to the frame for tighter seal. Retains flexibility at temperature extremes; will not deteriorate.

**RIGID CONSTRUCTION**—assures permanently square frames. Glued and pinned slot and tenon construction.

**WOOD BEAD GLAZING**—glass set in glazing compound; anchored with attractive wood stops. Tighter seal; faster and easier to reglaze.



**DISTRIBUTION**

Wabash Vistarama Windows are sold through reputable millwork jobbers and lumber dealers. For the name of the nearest jobber or dealer to you, write WABASH, 310 South Michigan Avenue, Chicago 4, Illinois.

WABASH VISTARAMA IS THE REGISTERED TRADE-NAME OF

**THE WABASH SCREEN DOOR COMPANY**

310 South Michigan Avenue • Chicago 4, Illinois

# Quick Answers to All "Closure" Needs Like These

— with all advantages of space-saving upward action



**Kinnear Counter Shutters** — a curtain of interlocking aluminum or steel slats, in Kinnear's straight profile "Midget" slat design. Ideal for food-service and locker-room counters, pass-through openings to tool or parts rooms and similar areas.



**Kinnear Rolling Grilles** — provide an "openwork" curtain of steel bars and links. Blocks trespass, but not light, air or vision. Restrict passage anywhere — at corridors, stairwells, doorways, counter openings, or as area-dividers.



**Kinnear Rol-Top Doors** — sectional upward-acting doors. Wood or all-steel. Open to horizontal position above the doorway. Any number of panels for glass.

Quick answers, yes — plus advantages you can't match with any other types of closures — and extra durability as a bonus!

In addition, they open completely out of the way . . . clear the entire opening . . . remain out of reach of damage while opened . . . complement any building architecture . . . assure extra protection . . . bar intrusion . . . discourage vandalism.

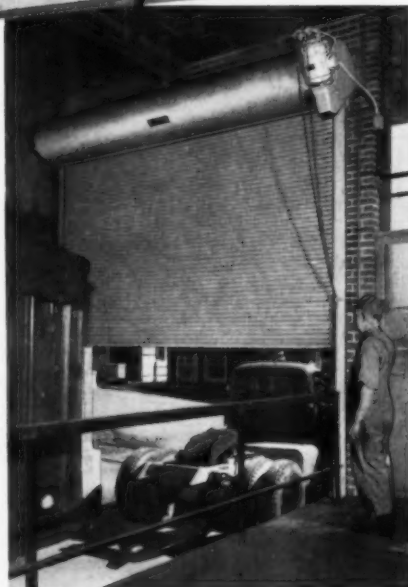
These and other Kinnear doors — proved on every type building through more than 60 years — are built to fit any opening, with manual or motorized operation. Get full details in Kinnear's new 1960 catalog — yours without cost or obligation. Write today.

**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

Saving Ways  
in  
Doorways

## KINNEAR

ROLLING DOORS



**Kinnear Rolling Doors** — interlocking-slat doors of zinc-coated steel (or aluminum or other metals) form a rugged upward-acting curtain that combines the utmost in efficiency, durability, protection.

## BRAND NAMES DIRECTORY

(Continued from page 221)

PERMALUME Shower Door Co of Amer  
PERMA-LOK Logan-Long Co  
PERMA-NETTING Gilbert & Bennett  
PERMA-POST Perma-Jack Corp  
PERMA-SPUN Logan-Long Co  
PERMATAB Logan-Long Co  
PERMATITE Durkee-Atwood Co  
PERMATITE General Bronze Corp  
PERMATOP Permagine Corp of America  
PERMA WALL Conver Steel & Wire Co  
PERMA-WALL Logan-Long Co  
PERMITE Permiteco Inc  
PERM-NENT Asphalt Corp of America  
PERMO DIP Wilbur & Williams Co  
PERM-SEAL Asphalt Corp of America  
PERSIANS Watson town Brick Co  
PET Portable Electric Tools Inc  
PETCO Petterson J C Corp  
PETER PUTTERS Schalk Chemical Co  
PETROCOTE Thilmany Pulp & Paper Co  
P G 1013 Permagine Corp of America  
PHENIX QUALITY Phenix Mfg Co  
PHILGAS Suburban Propane Gas Corp  
PHOENIX Samson Cordage Works  
PIGSKIN Industrial Canvas Prods Corp  
PILGRIM Abrasive Products Inc  
PILOT Fiat Metal Mfg Co  
PILOT Johns-Manville Corp  
PINCOR Pioneer Gen E Motor Corp  
PINE CRAFT White Pine Sash Co  
PIN-UP Holly-General Co Div Siegler  
PIONEER Pioneer Plastics Corp  
PIONEER Sunbeam Plastics Corp  
PIONEER (Tools) Pioneer Gen E Motor  
PIONITE Pioneer Plastics Corp  
PIPE-SEAL Calbar Paint & Varnish Co  
PIT-TILE Jones & Brown Inc  
PITTSBURGH CROWN INTERLOCK  
Jones & Brown Inc  
PITTSBURGH LOCK HAMMER Milwau-  
kee Electric Tool Corporation  
PLACCO Borden Chemical Co  
PLANET Johns-Manville Corp  
PLANKED GOLDEN HEMLOCK Simp-  
son Logging Company  
PLANKTEX United States Plywood Corp  
PLANKWELD United States Plywood  
PLANTEX United States Plywood Corp  
PLASGON Cabot Samuel Inc  
PLASTEEL Plasteel Products Corp  
PLASTEELITE Plasteel Products Corp  
PLASTER GUARD Casings Inc  
PLASTER PATCH United Gilsonite Labs  
PLASTER-WELD Larsen Products Corp  
PLASTIC-ARMOR Permagine Corp  
PLASTICO Allied Chemical Corp  
PLASTICO Douglas & Sturgess  
PLASTICONE FORM TIE Gates & Sons  
PLASTIC RESIN GLUE Borden Chemical  
Co  
PLASTIGLASS Warp Brothers  
PLASTI-GLAZE Plastic Products Co  
PLASTIGLIDE Plyco Corp  
PLASTIKOTE Chicago Bronze & Color  
PLASTIMENT Sika Chemical Corp  
PLASTIVENT Plyco Corp  
PLASTOID Plastic Products Co  
PLASTOLITE Celotex Corp  
PLAST-O-MAT Warp Brothers  
PLASWOOD Southern Plaswood Corp  
PLAX Lowe Bros  
PLAX-COTE Lowe Bros  
PLEXCOAT Plextone Corp of America  
PLEXIGLAS Rohm & Haas Co  
PLEXTONE Plextone Corp of America  
PLUG-IN STRIP National Electric Div  
PLUGMOLD Wiremold Co  
PLUG-N-SEAL Horn A C Cos  
PLURALITE Mississippi Glass Co

(Continued on page 238)



## Yes...metal doors have grown up...

Building demands of a decade ago forced the development of a low cost metal door to meet the minimum requirements for large multiple dwelling projects. Mass production methods quickly met these demands with standardized doors, the importance being placed on volume and low cost.

Today architects and builders are demanding a better quality.

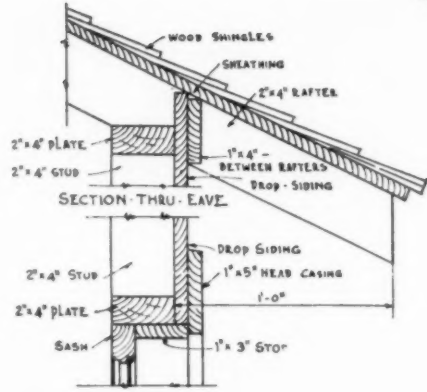
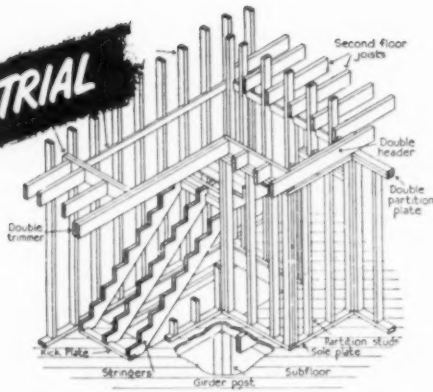
We believe it is important for all to know that **U.S.F. DOORS ARE QUALITY**. But they do offer the economy of engineering ingenuity and production line methods unmatched today.



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DOOR AND FRAME DIVISION

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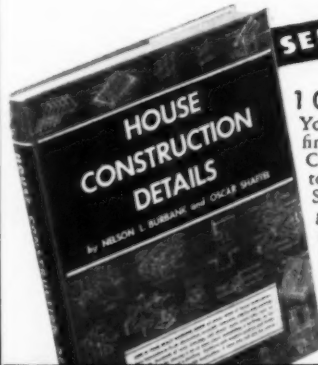
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- By architecting stories so the plan shows;
- By telling as much story as they can on the “glance level”—display type, photos, diagrams, charts.

Why do we save the reader's time?

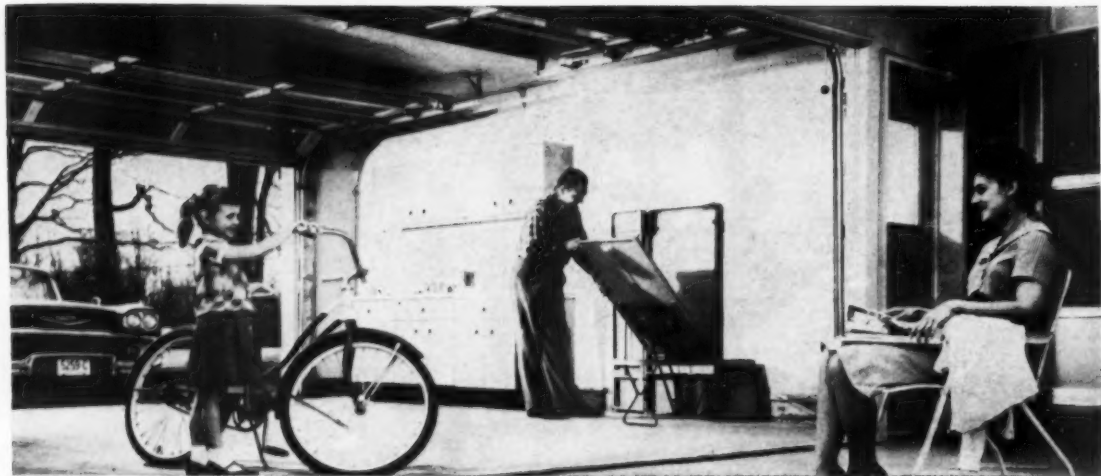
1. To better serve the reader.
2. To better serve the advertiser (*who gets wide awake readers—with the time and inclination to pursue ideas in his advertising*).

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You get wide awake readers  
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## Time-Saver magazines





## Today's garage—your biggest bargain in space

**More and more builders are turning to the profit and sales potential so evident in the garage. The reason is space—the extra storage, work and play space homebuyers are demanding. It's space a garage provides at the lowest cost per square foot.**

It's no secret to you—today's homebuyers want more space . . . for privacy, activity, storage. They need more space to raise growing families. Unfortunately, this extra space in a home also raises the price.

For a homebuyer, the alternative to this space-price problem is to buy an older home, and that's what the majority do. For you, the alternative to losing these sales is to offer more livable space at less cost, and you can. You can develop and sell the extra living space, the extra storage space offered in the most neglected area of your home—the garage. It's your biggest bargain in space!

**1. The garage is a bargain to build.** Consider the worth of a garage. In addition to storing the car, it's an excellent place for a home workshop, a rainy-day place for children to play, an out-of-the-sun place for summer barbecues. It supplies room for

storage of bicycles, lawn mowers, garden tools, and for activities the house cannot supply. Best, it's a bargain to build.

**Extra-use space costs ⅓ less to build.** If you're an average builder, your square foot cost for building a garage is only one-third the cost of building the rest of the home—\$3 to \$5 per square foot, compared with \$9 to \$15. An analysis by Len Haeger,<sup>1</sup> architect, estimates the building cost of an attached garage at about \$2.00 a square foot. This does not include land cost, overhead or profit. Compared on the same material-and-labor-only basis, the cost of a three-bedroom home is \$6.72 per square foot. It adds up to this: you can build 300 to 400 square feet of extra space in your homes at approximately *one-third of the square foot building cost.*

**What about down payment?** Down-payment-wise the garage is *still a bargain to sell*, especially for homes priced near \$15,000 without garage. The down payment of a \$15,000 home with FHA financing is \$705. You add only \$260 for a *double garage* evaluated at \$1200. The total down payment for this more livable, more *salable* home would still be less than \$1000. Even for a home costing \$16,000—a double garage adds only \$360 to the down payment.

Builders who have recognized the sales significance of the garage testify that the average homebuyer *can and will* put down an extra \$200 to \$300 for the space he needs in a garage. One of the first things most new homeowners do is add a garage. In fact, a study of 1957 Chicago area building revealed that the number of permits issued for garages was approximately two-thirds of those issued for new homes.<sup>2</sup>

**Extra usability ups FHA evaluation.** Not only is a garage cheaper to build per square foot, but also it gets an *even higher evaluation* when offered as multi-use space. A builder in Ohio reports his garage evaluation was increased from \$950 to \$1060 when he used Overhead Door Corporation's "Convertible-Garage-Room" plan to make the garage more attractive as *livable* space. He gained \$110 in evaluation for only \$40 cost.

## 2. The garage is bargain space homebuyers want and need.

Buying and building trends favor the garage. Surveys show the garage, competing with carports or built-in features, is the heavy favorite with homebuyers. A study made by PRACTICAL BUILDER<sup>3</sup> found 62% of homes now being built include a garage. A survey by the National Association of Real Estate Boards<sup>4</sup> reveals that 53% of realtors believe a garage to be a strong influence in the sale of a home. In a study made by ARCHITECTURAL RECORD<sup>5</sup> architects cited the low-cost extra space offered by a garage as one of the important reasons for garage popularity. Of course, a substantial share of this preference for extra space in the garage has grown with the increase in non-basement construction.

**Extra space is essential in non-basement homes.** The total space in the average three-bedroom home just doesn't offer enough storage space, work space, play space. HOUSE AND HOME reported<sup>6</sup> recently that, according to the Small Homes Council, The Cornell Kitchen Study, and the mortgage department of Metropolitan Life, FHA standards require *less than half* the storage space needed by most young families.

**Trend favors 2-car garage.** The fact that homebuyers favor the garage as the solution to their space problem is underlined by the trend to the two-car garage. Surveys show only 15% of families actually have two cars, yet 61% of garages being built are two-car or larger.<sup>3</sup> For one-car families, the double garage means ample room to open the car door, easier loading and unloading; it offers space for storage and play; it adds structural size that enhances the appearance of their home.

## 3. Unique "OVERHEAD DOOR" ideas open garage for work, play.

Overhead Door Corporation has taken the lead in developing plans to help you *sell* this bargain space as multi-use space. One especially exciting idea is the "Convertible-Garage-Room"—a garage that converts in seconds to a livable room. All it takes is a second

"OVERHEAD DOOR" to replace the blank back wall (or side wall) to open the garage to bright, inviting living space.

Garages using this sales-provoking idea have been built all over the country, winning a tremendous response from space-hungry homebuyers.

**"Convertible-Garage-Room" adds multi-use space at lowest cost.** Before designing the "Convertible-Garage-Room," Overhead Door Corporation engaged a market research company to interview homebuyers on their need for extra space.<sup>7</sup> This research revealed that seven out of 10 homebuyers want and need the multi-use space a "Convertible-Garage-Room" offers. It also showed that over half of those interviewed would pay \$400 and more for this feature. Yet a "Convertible-Garage-Room" adds less than \$100 to the cost of a conventional two-car garage. Materials and labor saved in the backwall make up most of the cost of the second door.

## 4. The "OVERHEAD DOOR"—your biggest bargain in satisfaction.

Ideas that make the most of the garage multi-use space are endless. And they are *practical*, thanks to the high product quality and reliable service included in every "OVERHEAD DOOR" installation. You're guaranteed that the "OVERHEAD DOOR" will fit tightly against weather and intruders, that it will open easily. There are no call-backs. If trouble should develop, it will be efficiently handled by the same factory-trained expert who installed the door—your local "OVERHEAD DOOR" distributor.

Style, too, is an important part of the sales appeal you get with famous "OVERHEAD DOOR." New 1960 models are available with a wide selection of flush, panelled, and carved doors to give you distinctive design as a valuable sales closer.

**See your "OVERHEAD DOOR" distributor.** Get the full story on the tremendous sales potential in extra living space. Your "OVERHEAD DOOR" distributor has full information on the "Convertible-Garage-Room," including plans, bills of materials, and color sketches; also builder sales tools that include wall banners, newspaper ad layouts, colorful handout idea booklets and publicity releases. Look for your distributor in the *white pages* under "OVERHEAD DOOR," or write to Overhead Door Corp., Dept. AB-4, for new idea booklet, "Discovered—Extra Living Space."

Overhead Door Corporation, General Offices: Hartford City, Indiana—Manufacturing Distributors: Cortland, N.Y.; Hillside, N.J.; Lewistown, Pa.; Nashua, N.H.—Manufacturing Divisions: Dallas, Tex.; Portland, Ore.—In Canada: Oakville, Ontario.



MADE ONLY BY

**OVERHEAD DOOR CORPORATION**

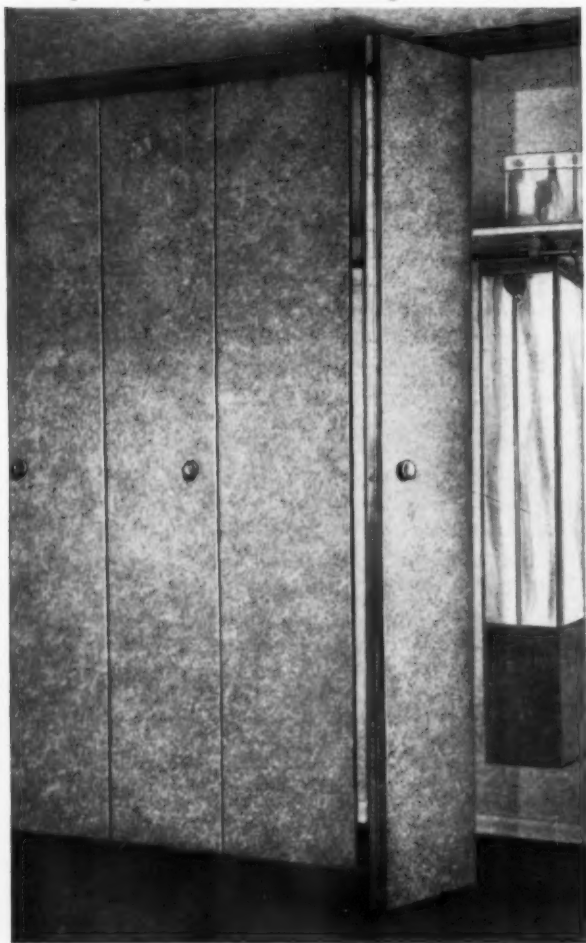
*the original  
upward-acting  
sectional door*

1—Consultant to FHA, National Housing Center, Time-Life, Inc. • 2—Study by Bell Savings and Loan Association all permits issued, Metropolitan Chicago area, 1957 • 3—Garage door study, August, 1959 • 4—December, 1959 issue, "Headlines" • 5—Garage and carport study, September, 1954 • 6—May, 1959 issue • 7—United States Interviewing Corp., March, 1959

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 BIFOLD DOORS SAVE TIME  
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 AGAINST WARPING!

## NOW—FOLDING CLOSET DOOR UNITS THAT ELIMINATE COSTLY FRAMING-IN!

Paniflex Bifold Closet Doors of Novoply helped Norman Denny of Philadelphia keep his Rambler Park Homes priced under \$11,000.



Pre-packaged Paniflex Bifold Doors need no studing or framing-in! The reason — their exclusive hardware system that requires no header, trim, or bucks. Any width opening can be covered. Bifold Doors can be installed in less than 30 minutes; you save on costly labor and you eliminate the expense of plaster board and lumber!

“There is no warping problem because Bifold Doors are made of Weldwood® Novoply®,” says fabricator Sidney S. Chilnick, Executive Vice President and General Manager of Reinhart, Inc., Philadelphia, Pa. “We have had virtually no return for adjustment. No maintenance is necessary, and they take any finish beautifully.”

Weldwood Novoply is the only material with which warp-free doors of such simplified design could be made. It's a 3-ply panel of carefully selected wood flakes and chips bonded with tremendous heat and pressure, and is guaranteed against warping. For information, mail the coupon.

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Patented step-sill design, Alumilite finish, maintenance-free inside fiberglass screen, jam-proof latch, and many more exclusive features; choice of 3" or 5 1/2" jamb and single glass or 1/2" insulated glass.

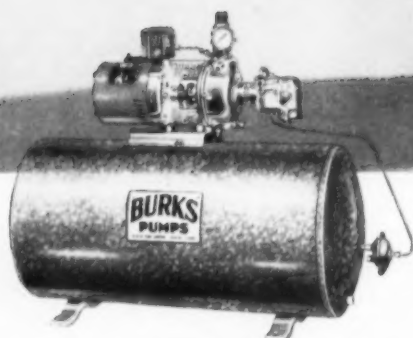
Series 150 offers new sliding door quality at a builder's price... get the whole story from your Arcadia distributor, or write to Dept. 151 today.

Arcadia Metal Products

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# a house is no better than its water system



**BURKS SUPER TURBINE.** Dual-purpose—shallow or deep well. Self-priming, only one moving part. Slow-speed operation—1725 rpm. Sizes 1/4 through 1 hp with capacities to 1320 gph. The only pump with LIFE-LOK, for up to 40% longer service life.



**BURKS MULTI-STAGE CENTRIFUGAL.** Greater capacities at higher pressures from deeper settings. Compression type fittings. Two- and three-stage pumps—1/2 through 1 1/2 hp sizes with capacities to 2310 gph. All bronze pumping parts. Pump installs horizontally or vertically.

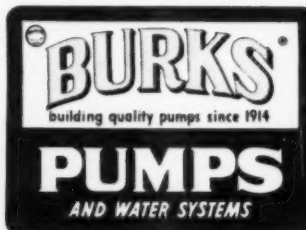
You read a lot these days about what sells houses. You name it, and that's it. But what good is it all without an adequate, dependable water system? After all, that's what bathes the baby, does the dishes, washes the clothes, sprinkles the lawn, helps cook the food, maybe cools the house and heats it, too, provides fire protection . . . and takes care of all the obvious personal needs.

Many builders the country around have found the answer in BURKS pumps and water systems. BURKS famous Super Turbine, for instance. The **only** pump with LIFE-LOK—a simple, external adjustment of the impeller that assures more gallons per minute, better performance, and up to 40% longer service life. Or BURKS new multi-stage centrifugal—for greater capacities at higher pressures from deeper settings.

For nearly half a century, BURKS quality has been recognized as outstanding. BURKS performance is second to none—fully automatic, whisper-quiet, economical. And BURKS dependability assures trouble-free service at full capacity, full pressure.

So if you're building beyond city water supply, build better—with BURKS.

**A complete line of pumps and water systems for every need**



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Rush full details on BURKS pumps and water systems.

Name \_\_\_\_\_

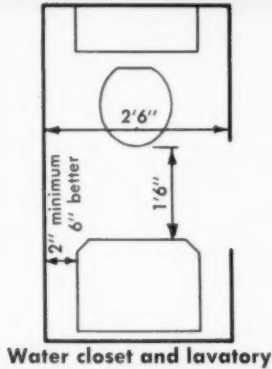
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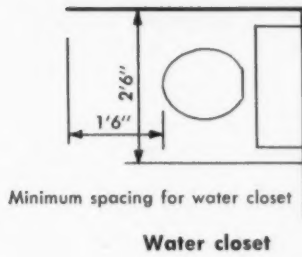
City \_\_\_\_\_ State \_\_\_\_\_

# PLUMBING, WATER SUPPLY

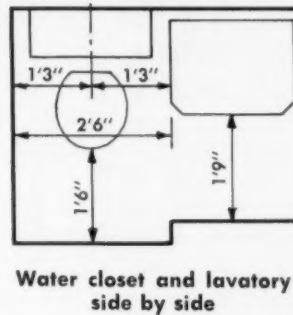
## Bathroom Standards



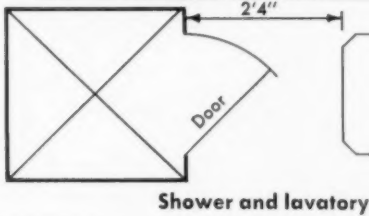
Water closet and lavatory



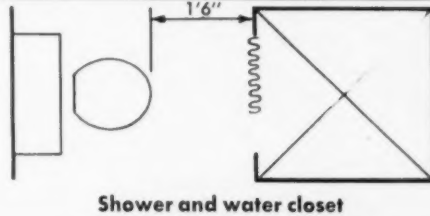
Water closet



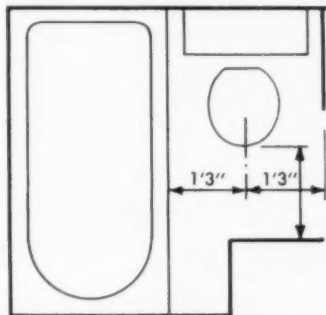
Water closet and lavatory side by side



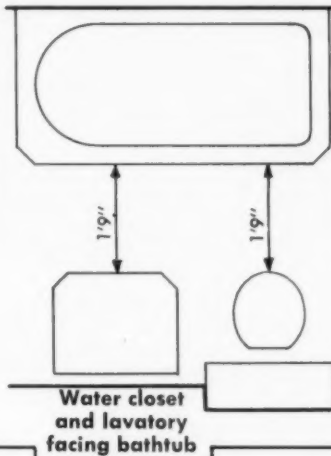
Shower and lavatory



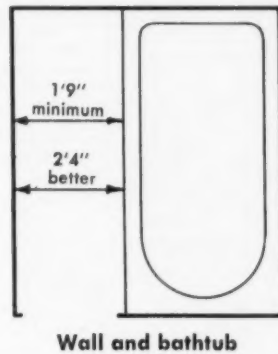
Shower and water closet



Water closet and bathtub side by side

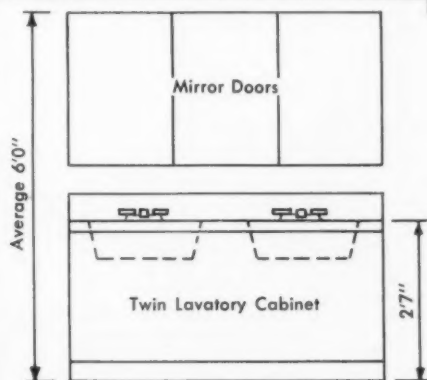


Water closet and lavatory facing bathtub

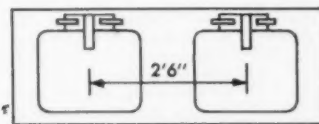
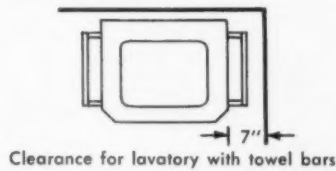


Wall and bathtub

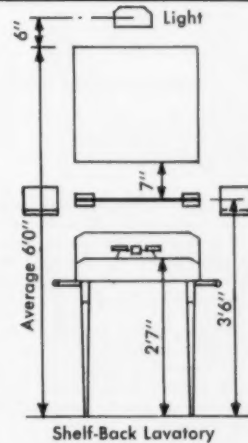
SCALE: 3/8" = 1'-0"



Average lavatory counter height 31"  
For adult use in master bath 34-36"

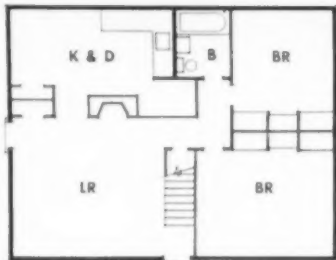


Lavatory



# PLUMBING, WATER SUPPLY

## Planning for Plumbing Fixtures

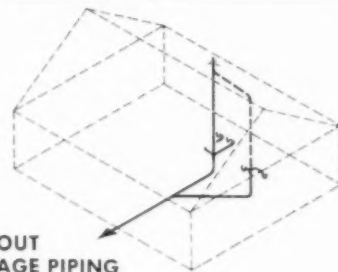
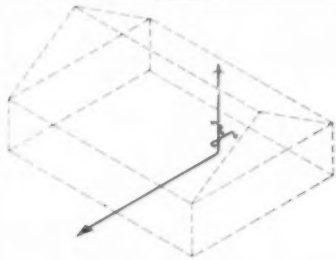


**KITCHEN AND BATH  
BACK TO BACK**

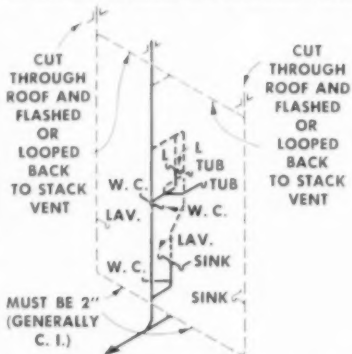
**KITCHEN, BATH  
AND UTILITY ROOM  
ADJACENT**



**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.

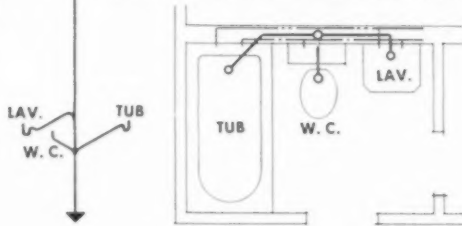


**TWO BATHROOMS ALIGNED OVER  
A KITCHEN AND A POWDER ROOM**



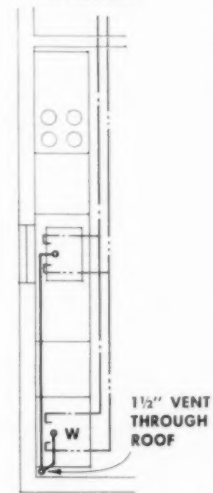
**TWO-STORY HOUSE:** A considerable saving is achieved when fixtures are aligned over one another, so that all may discharge to a single stack. Light dotted lines indicate extra piping that would be necessary if they were not aligned.

**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**



**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.

**WATER-HEATER AND CHIMNEY  
WELL LOCATED FOR  
ECONOMICAL HOT-WATER PIPING**



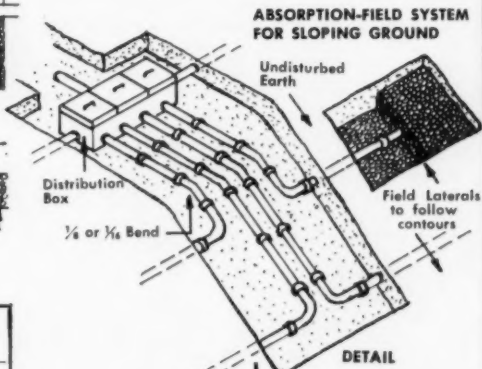
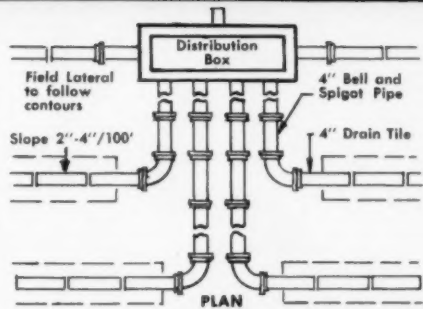
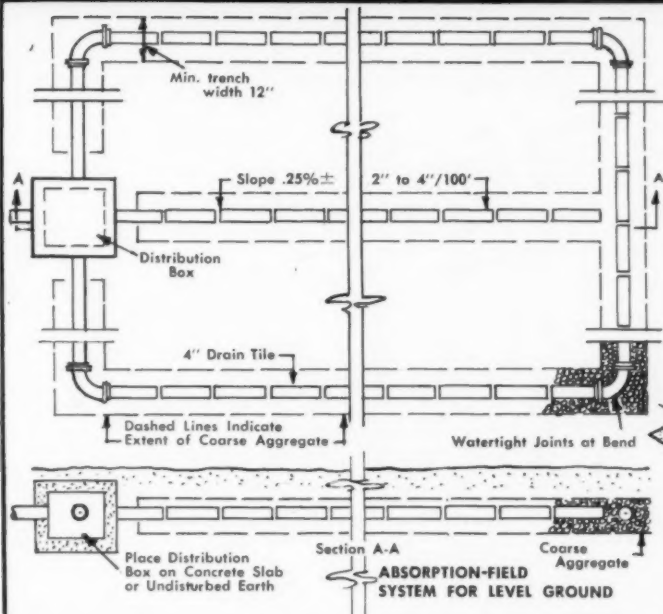
**EQUIPMENT LOCATION:** When water-heater is located too far from fixtures using hot-water, there is not only extra cost for material and labor to install the piping, but heat loss through the extra run of pipe makes the heater less efficient. Note in the plan above that fireplace was located so that water-heater could be properly vented and still be close to those fixtures needing hot-water.

### SOME FURTHER NOTES

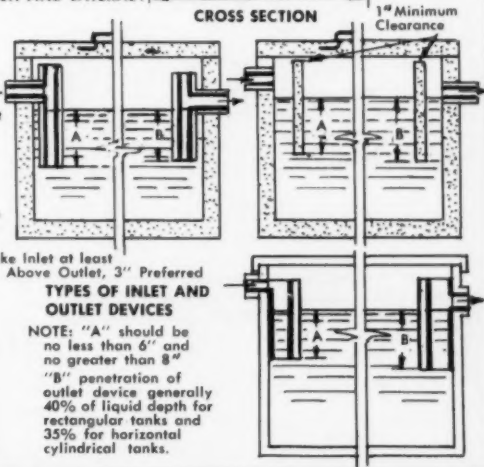
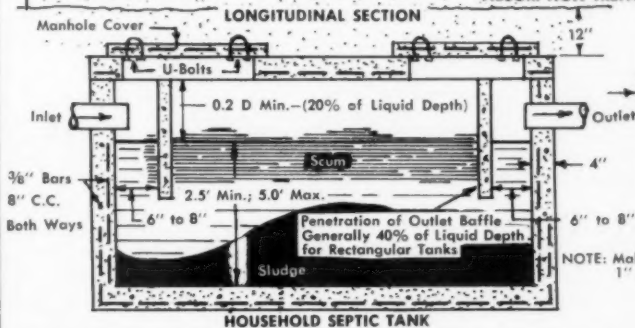
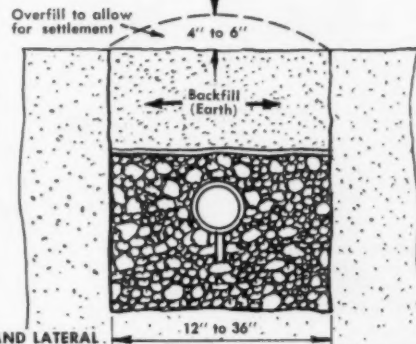
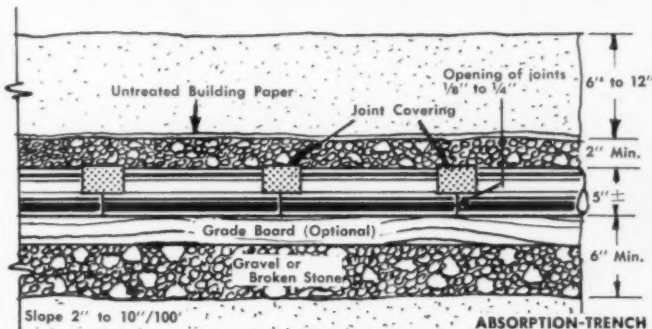
- Wherever possible, it is best to locate rooms containing fixtures near the point of entrance of the water and sewer services. This will cut the length of service lines.
- Many plans today include compartmented baths; toilet and sink separate from tub and shower, or toilet separate from sink and tub and shower. Piping should be planned so that fixtures drain and are vented through 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

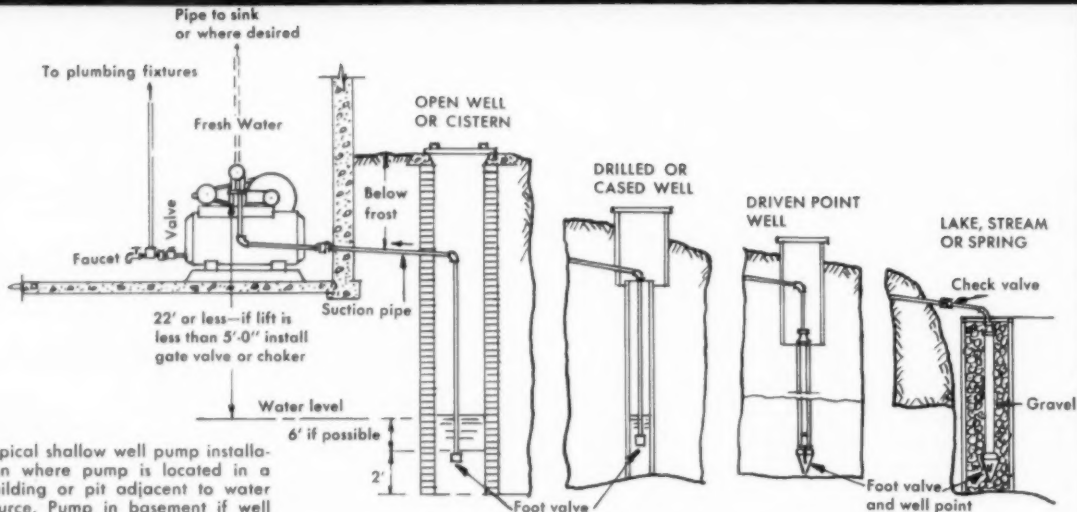


Number of bedrooms	Recommended minimum tank capacity	Equivalent capacity per bedroom
2 or less	750	375
3	900	300
4	1,000	250

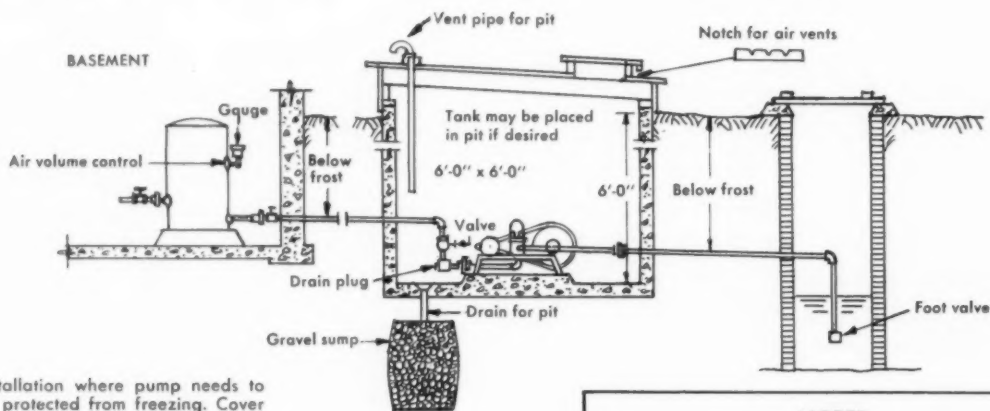
11

# PLUMBING, WATER SUPPLY

## Well Pump Data



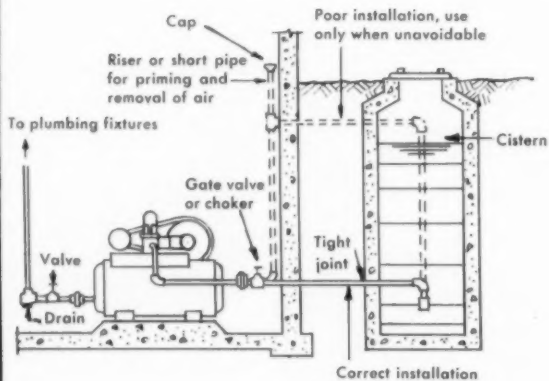
Typical shallow well pump installation where pump is located in a building or pit adjacent to water source. Pump in basement if well is less than 100' from house; over well if over 100' from house.



Installation where pump needs to be protected from freezing. Cover of pit should be well insulated for added protection.

### NOTES

Because of atmospheric pressure, a shallow well pump will only operate to a depth of 22'. Beyond that, a deep well pump must be installed. Three types of pumps are used today for either deep or shallow well systems. They are: reciprocating, centrifugal and centrifugal-jet. A reciprocating pump operates by means of a piston and cylinder, much like the cylinder in an automobile. On the forward stroke a check valve opens, forcing water into the cylinder. On the reverse stroke, the check valve closes, forcing the water collected in the cylinder through the pipe and into the storage tank. A centrifugal pump operates with an impeller, a wheel that doesn't look like but works much like a boat propeller. This wheel spins the water, increasing its velocity and pressure. The water spirals up into a casing of decreasing diameter that further increases the water's pressure. As this action is continued, the water is forced through the pipe and into the storage tank. The Centrifugal-Jet Pump sends a stream of water through a small-diameter nozzle into a Venturi tube, which increases its pressure. From this point, the water is swept up into the centrifugal pump, and on to the storage tank. The details of well installation which are shown here are for purposes of illustration only. Consult your State Dept. of Public Health and your local building codes for exact specifications.



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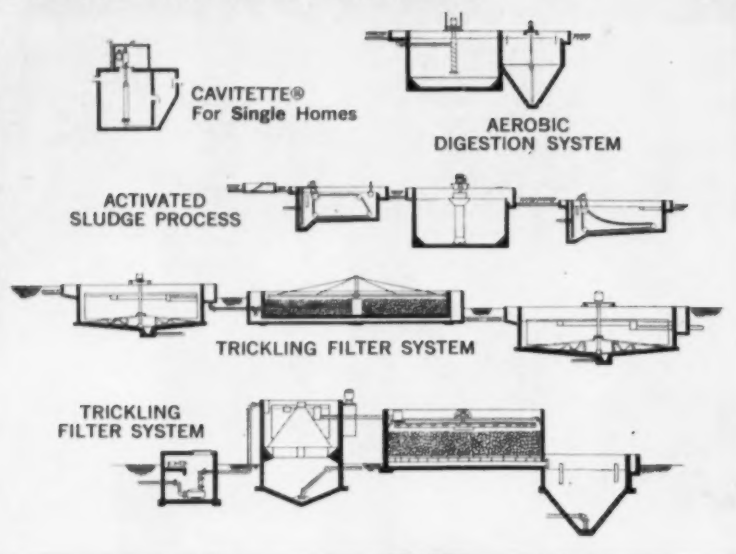
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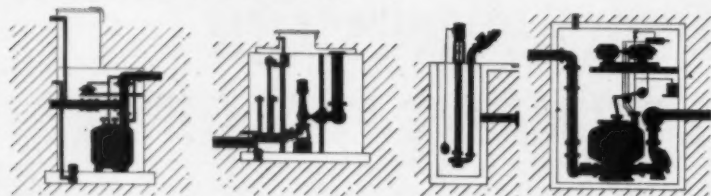
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No. of Homes Planned \_\_\_\_\_; Scattered Lots \_\_\_\_\_;  
Tract Development \_\_\_\_\_

TL-6027

## BRAND NAMES DIRECTORY

(Continued from page 224)

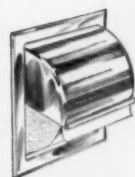
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(Continued on page 240)



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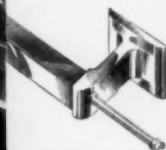
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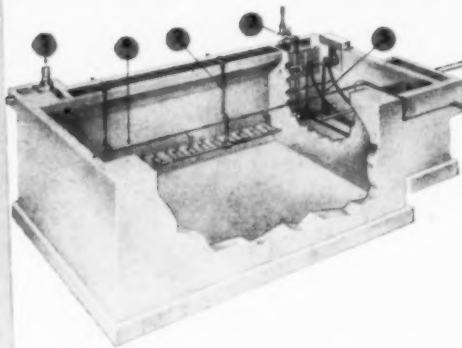
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(Continued on page 246)

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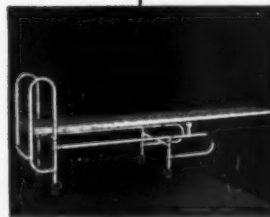
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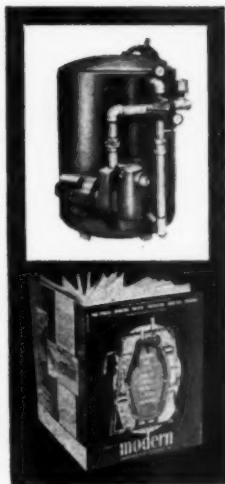
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# BUILDING POOLS? BUILD WITH MODERN EQUIPMENT!



You can't beat the quality and price of Modern pool equipment. No matter what size pool you are building there are Modern products specifically designed to simplify its building and maintenance. Modern stocks over 250 pool items...enables you to do all your purchasing from one convenient source. Whether you need a complete filter system, deck equipment or the fittings, consult Modern first. Our technicians backed by a quarter of a century of pool construction and operating experience will be glad to advise you in the proper equipment selection...can save you money and time in actual construction. Thousands of satisfied pool owners all over the world are proof of the superior quality and value built into every Modern product.



Our policy for two decades has been: to offer honest values, honestly described; to market distinctive and better products; sell them at fair prices; to render efficient service.

Send for Modern's free catalog. It's crammed with information and photos that will help you save time, money and trouble. Ask for Catalog No. 21D.

# modern

MODERN SWIMMING POOL CO., INC. • 1 Holland Avenue, White Plains, New York • White Plains 6-3832

NATIONAL ADVERTISING—Briggs Beautyware promotes New Home Living in full-color ads in LIFE, HOUSE & GARDEN'S BOOK OF BUILDING, HOUSE BEAUTIFUL'S BUILDING MANUAL and LIVING'S GUIDE TO HOME PLANNING. Your Briggs representative will tell you how you can take advantage of this promotion, or write Advertising Department, Briggs Manufacturing Co., Warren, Michigan.

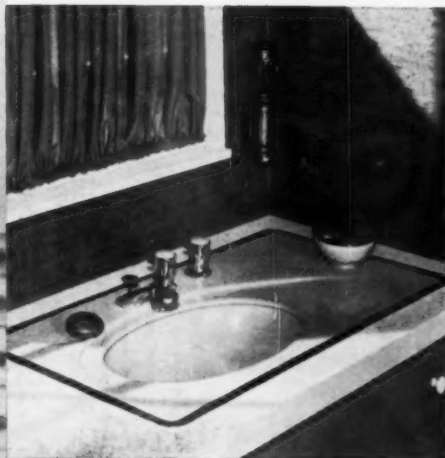
**BRIGGS BEAUTYWARE**  
*can make a BIG difference  
in your new home sales*

Unsurpassed quality of product . . . ease of installation . . . ready availability are just a few of the reasons why more and more builders are turning to Beautyware by Briggs. They know that nationally advertised Briggs Beautyware in their homes can make a big difference in boosting their new home sales.

The fused-in-to-stay compatible colors add a fresh and imaginative touch that harmonizes with every and any decor. The rich, sculptured styling will be as fresh tomorrow as it is today. And, Briggs Beautyware needs so very little care to keep it at its sparkling best day in and day out.

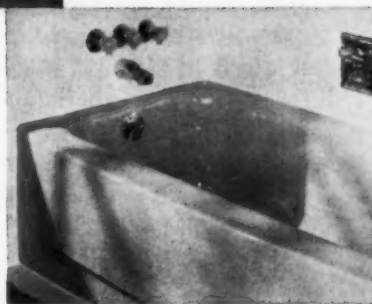
So, if you're looking for bathroom beauty that gives your homes the mark of quality—look to BRIGGS BEAUTYWARE.

**BRIGGS**  
B E A U T Y W A R E



THE CHAUCER vitreous china lavatory is smartly styled with oval off-center bowl for abundant counter space, has anti-splash rim and cast-in soap impression and features unique spray spout. Completely flexible, it may be installed in a countertop, vanity or placed on legs.

THE MEDALLION porcelain enamel bathtub boasts full-length seat, slip-resistant bottom and recessed toe panel. Has seam-free one-piece construction, leakproof wall flange and H-framework that installs without blocks, shims or extra support.



THE KING water closet in vitreous china is wall hung for easy cleaning beneath, eliminates dirt-catching cracks and crevices and hard-to-get-at space between wall and fixture.

## BRAND NAMES DIRECTORY

(Continued from page 240)

RAINBOW ROCK Gen Engines Co Inc  
 RAINCHEK Protection Products Mfg Co  
 RANCH Reiter Woodwork Specialty Co  
 RANCHLINE Allied Chem Corp Barrett  
 RANCHWOOD Southwood Corp  
 RANDOMWOOD U S Plywood Corp  
 RANDO-WALL Aetna Plywood & Veneer  
 RANGAIRE Roberts Mfg Co  
 RANGEMASTER Aubrey Hdwe Mfg Inc  
 RANGER Clark Equip Co Industrial  
 Truck Div  
 RANGER Wood Shovel & Tool Co  
 RANGER Roberts Mfg Co  
 RANGE-VENTOR Universal Blower Co  
 RAPIDSEAL Grabler Mfg Co  
 RAPISTAN Rapids-Standard Co Inc  
 RAWL DRILLS Rawplug Co Inc  
 RAWL DRIVES Rawplug Co Inc  
 RAWLPLUGS Rawplug Co Inc  
 RAY-O-LITE Ray-O-lite Corp of Amer  
 RAY VEC Electrend Products Corp  
 RAZON Tremco Mfg Co  
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 READY-CUT Eveready Brik saw Co  
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 REALITE Holophane Co Inc  
 REALOCK Colorado Fuel & Iron Corp  
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RED BRAND Keystone Steel & Wire Co  
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 RED DEVIL Pecora Inc  
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 REDDI-MOUNT Chesler J & Sons Inc  
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 RED-FARM CHAMP Ludlow Papers Inc  
 RED FOOT Roe Justus & Sons  
 RED HEAD Phillips Drill Co  
 RED-I-CUT Carborundum Co  
 RED-I-POST Sawhill Tubular Prods Inc  
 RED LABEL Johnson's Wax  
 REDI-RAIL Tennessee Fabricating Co  
 RED SILO-CHAMP Ludlow Papers Inc  
 RED STRIPE Pittsburgh Plate Glass Co  
 RED TAG Cyclone Fence Dept  
 RED TANG Simonds Saw & Steel Co  
 RED TOP Keystone Steel & Wire Co  
 RED TOP United States Gypsum Co  
 REDUCIT O'Brien Corp  
 RED WARRIOR True Temper Corp  
 RED WING Pittsburgh Plate Glass Co  
 REFLECTASHIELD Am Asbestos Product  
 REFLECT-O-RAY Appleton Coated Paper  
 REFRACT-O-CRETE Acme Brick Co  
 REFRIG-A-BAR Acme Natl Refrig Co  
 REFRIGERATED-KOOLER-AIRE United  
 States Air Conditioning Corporation  
 REGAL Athens Stove Works Inc  
 REGAL Johns-Manville Corp

REGAL DRESSATORY Regal Laminates  
 REGULUX Regulux Sash & Door Co  
 REGENCY Air Control Products Inc  
 REHCO Chicago Spring Hinge Co  
 REHCO (Shower Units) Rehco Corp  
 RELCO Slant-Fin Radiator Corp  
 RELIABLE Ajax Building Bracket Co  
 RELIABLE Allith-Prouty Inc  
 RELIABLE Richbilt Manufacturing Co  
 RELIANCE Chicago Spring Hinge Co  
 RELY-ON Dicks Armstrong Pontius Inc  
 REMCON Remcon Div Pyramid Inst Corp  
 REMINGTON Remington Alum Window  
 REMUVIT Farley & Loetscher Mfg Co  
 RESINIZED SPEED-GRITS Behr-Mann-  
 ing Company  
 RESURFO Reardon Co  
 RETARDO Moore Benjamin & Co  
 RE-3 Wilbur & Williams Co  
 REVALON Revere Copper & Brass Inc  
 REVALUM Revere Copper & Brass Inc  
 REV-A-SHELF Lake Drive Prod Co Inc  
 REV-FLO Sequoia Manufacturing Co  
 REVO-FILE Mosler Safe Co  
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 REVOLVO Frick-Gallagher Mfg Co Inc  
 REX Air Controls Inc  
 REX Chain Belt Co  
 REX (Heater) Cleveland Heater Co  
 REXALUM Consolidated Gen Prod Inc

(Continued on page 268)



FOR THE FINEST PROTECTION  
**PROTECTUB**  
 is the **BRAND** to remember

for preventing damage  
 after installation

**IT'S NEW!** **ALUMACOAT**

**A TOUGH FLEXIBLE AND STRIPPABLE FILM**  
**Protect ALUMINUM SASH AND WINDOWS FROM PAINT**  
**AND PLASTER DURING CONSTRUCTION. ALSO METALS •**  
**DIES • TOOLS • MOLDS • GLASS-CERAMICS • TILES • MARBLE ...**  
 wherever heavy equipment or material must be protected against  
 corrosion, chemicals, chemical fumes, or abrasion — use ALUMACOAT!

### COATATUB

Liquid vinyl plastic coat applied  
 with ordinary white wash brush,  
 dries to strong flexible film, peels  
 off. Use thinner to clean brush  
 after applying paint.

Note: one gal. can covers 4-5 tubs.

ALUMACOAT coating is  
 stable, strips cleanly and  
 can be easily applied by  
 conventional industrial  
 spray or painting methods  
 to objects of any size.



### PROTECTUB

deluxe cover—made of thick  
 corrugated boxboard with ex-  
 clusively processed water re-  
 pellent top liner. Custom  
 made to fit your individual  
 tub. Installs in minutes with  
 no expensive cleaning after  
 tiling.

**PROTECTUB INC.** write Dept. ABG  
 93 Seigel St., Brooklyn 6, N. Y.

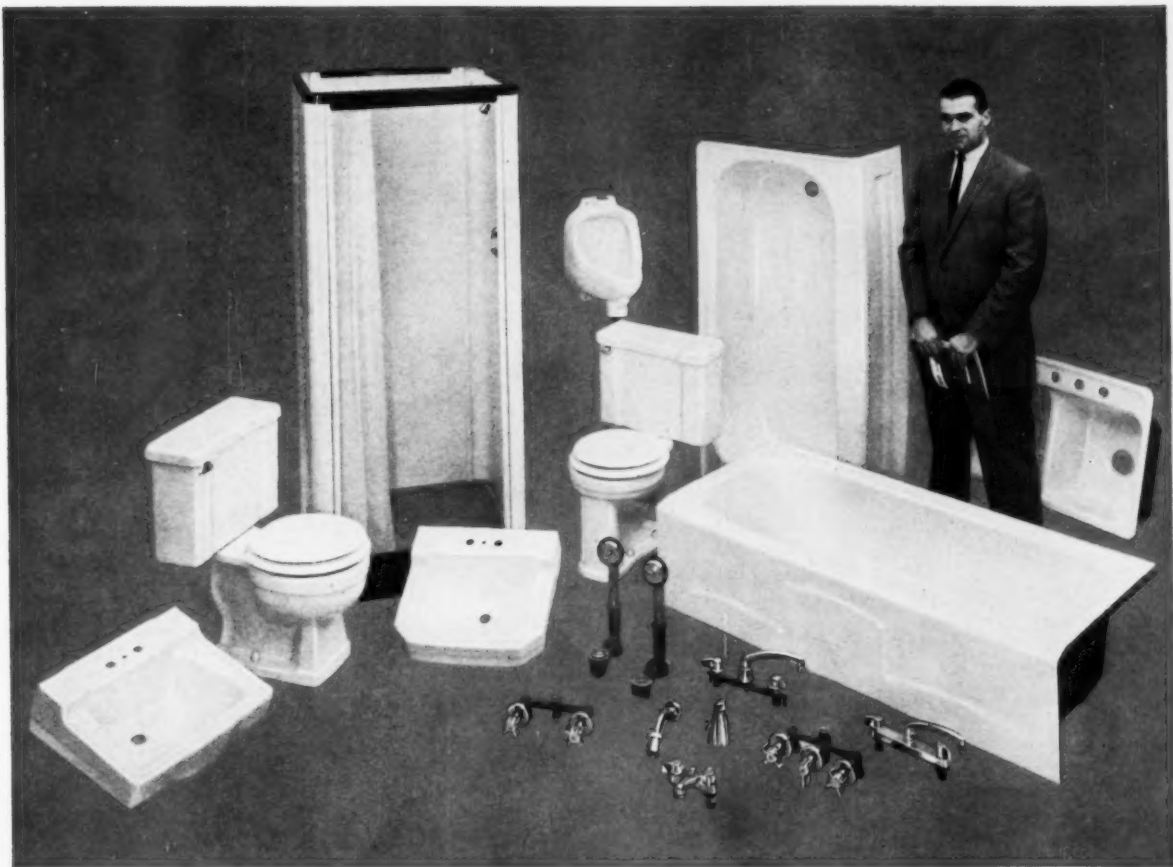
**HELP!** US HELP YOU ...  
**HELP!** THE POST OFFICE ...  
**HELP!** THE POST OFFICE  
 HELP YOU ...

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 Department to achieve economical, efficient and  
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**ALWAYS SHOW ZONE NUMBER**  
 when RENEWING  
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"GOOD IDEA" COUPON (clip and mail)  
**AMERICAN BUILDER**  
**BOX 961 BRISTOL, CONN.**  
 PLEASE ADD MY POSTAL ZONE  
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## Gerber gives you all the advantages of the widest plumbing fixture lines...and **MORE**

Gerber specializes in plumbing fixtures for homes in the \$9,000 to \$25,000 price range — the Mighty Middle mass market which includes 9 out of 10 homes built today.

By concentrating on a complete line for this market *only*, production and marketing economies are passed on to builders in the form of deluxe features normally found only in more expensive lines.

Compare Gerber's sensible prices and quality features with those of any equivalent line produced by any other manufacturer, and you'll see that with Gerber you supply a better bathroom for less. You can order complete packaged bathrooms in white or six modern colors

— Petal Pink, Wedgewood Blue, Forest Green, Driftwood Tan, Daffodil Yellow, Cloud Gray.

Gerber plumbing fixtures are nationally advertised and have smart styling to assure home buyer acceptance. They are the only bathroom fixtures with the Good Housekeeping Guarantee Seal. Gerber fixtures have many exclusive features to make installation fast and easy. Gerber also offers sales and merchandising aids and special services to help sell Gerber bathrooms and the homes in which they are installed.



See our condensed catalog in Sweet's, or write for your copy of Gerber's 94-page full line catalog.



"Plumbing Fixtures for the Mighty Middle" • Gerber Plumbing Fixtures Corp., 232 N. Clark St., Chicago, Illinois

# GERBER



\*THE NAME ORANGEBURG AND THE SILVER BAND ARE REGISTERED TRADE-MARKS OF THE ORANGEBURG MANUFACTURING CO.

ADVERTISED IN  
**LIFE**

Make sure *your* homes feature *genuine* Orangeburg quality. It helps make the sale easier. Means more satisfied customers. So look for the Silver Band to be sure you're getting *genuine* Orangeburg: *Root-Proof* Pipe for sewer lines from house to street; for run-offs from downspouts...*Perforated* Pipe for foundation drains, septic tank filter beds. Over 300 million feet in use from coast to coast. It's the Brand your customers know. Write for "Tips for Installing," Dept. AB-40, Orangeburg Manufacturing Co., Orangeburg, N. Y.



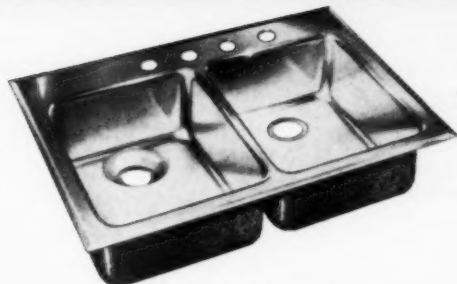
ORANGEBURG MANUFACTURING CO.  
Division of The Flintkote Company, Manufacturer  
of America's Broadest Line of Building Products

***genuine* ORANGEBURG<sup>®</sup>**  
**Root-Proof Pipe and Fittings**

# The New Carlrim\* Disposer Bowl

—teams up to perfection  
with any waste disposer!

\*Carlrim Vegi-Prep Model DS-832 LDB illustrated below.



### Most Popular of All Sink Designs —Now Available with Disposer Bowl

Model 832 LDB shown above with disposer bowl at left has Carlton's famous sparkle finish, which actually improves with use! Bowls are 14 by 16 inches, by seven inches deep, allowing for at least a gallon more water capacity in each bowl. The Carlrim self-rim feature makes installation quicker and easier; and much more sanitary.

When your kitchen specifications call for a garbage disposer (and what modern specifications do not?), you owe it to your customers to specify the new Carlrim Stainless Steel Sink with Disposer Bowl. Here, at last, is the sink design every disposer manufacturer has been looking for—the design that has been painstakingly developed to enable disposers to achieve their peak rated efficiency. Look at the handsome Vegi-Prep Model shown above. Notice how the drain outlets have been moved to the rear to permit more working space for food preparation. See how the disposer intake has been cleverly recessed to accommodate accumulated waste. And above all, don't overlook the heavy rubberized undercoating that hushes sink clatter and reduces disposer vibration. All Carlrim Sinks are guaranteed never to wear out—never to chip, crack or peel—and no separate sink frame is required for installation! Disposer Bowls are available on the right or left. Ask your wholesaler to show you this new design, or write today for Catalog No. 860 to Sink Division, Carrollton Manufacturing Company, Carrollton, Ohio.

*You just can't buy  
better—when you buy...*

**CARLTON**  
STAINLESS STEEL  
**SINKS**



## BUILDER SPECIFIED for greater home sales



### NEW LUXURY BRASS FITTINGS

Sparkling new brushed chrome fittings with plastic prism handles add beauty to any bath . . . another popular new sales-maker from Eljer.

“Attractive appearance . . . choice of colors . . . choice of genuine, hand-rubbed wood cabinets . . . ample storage area . . .” These were some of the features specified by builders throughout the country when we asked them what they wanted most in a completely new, first-quality lavatory.

You will find all these features (and many more) in this beautiful new *Brent* lavatory-cabinet combination. That's why we call it *builder specified* . . . it was designed for *you*—to help sell more of *your* homes. Send today for complete specifications.



1,850,000 CONSUMERS WILL SEE THIS AD!  
More than 1,850,000 prospective homeowners will be presold on the new *Brent* lavatory and *Luxury Brass* fittings when they see this full-page, four-color ad appearing in current issues of leading consumer magazines.

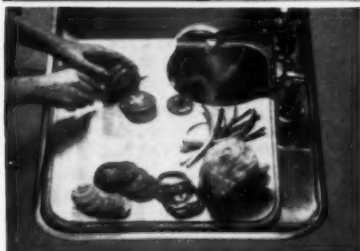
# ELJER

Division of The Murray Corporation of America

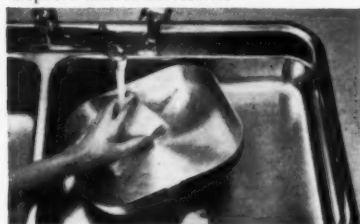
Three Gateway Center, Pittsburgh 22, Pa.

THE SINK WITH PROVED SALES APPEAL...

# Lyoncraft Disposo-Well®



**NEW CHOPPING EASE**—maple Cutting Board fits over disposer well, yet disposer unit is accessible.



**EXTRA WASHING ROOM**—roomy disposer sink speeds cleaning of large fry pans, bulky roasters, platters, griddles.

The sink with many followers, but no equal—Lyoncraft Disposo-Well is the first sink engineered just for garbage disposer units, and a sales winner proved in thousands of homes! Still most efficient: the in-corner positioning of the disposer for more unbroken work room. Stack dishes, fix food, and the disposer remains uncovered for instant use. Also catching the eye: the Redi-Rim® feature with rim and sink a single unit to eliminate crumb-catching crevices. And Disposo-Well's, made of finest nickel stainless, range from the single-bowl size, through the 32"x21" double-bowl, to the roomy 45"x21" double-bowl model. For full specifications on the first and finest sink made for disposer units, send for the new Lyoncraft catalog at the address below.

*World's largest fabricator  
of nickel stainless steel*



**LYON STAINLESS PRODUCTS  
DIVISION OF LYON INC.**

13881 W. Chicago Boulevard  
Detroit 28, Michigan

AUTOMOBILE WHEEL COVERS • PRESTIGE TABLEWARE • KITCHEN SINKS • HOUSEWARES



## private homes, inc. INSTALLS *Hydronic\** HEATING IN OVER ONE HUNDRED HOMES



Photo shows small space required by a B&G Hydro-Flo System. The boiler can be installed at any level within a building.

### HYDRONIC HOMES SALES PROMOTION FOR BUILDERS

A comprehensive program of ideas and sale helps for utilizing the outstanding and exclusive advantages of hydronic<sup>®</sup> heating. Every builder should see this presentation—there's no obligation in getting the facts. Write, phone or wire today.



In Rapid City, S.D., Private Homes, Inc., made careful tests before selecting a heating system for their homes, priced at \$11,000 and up. The following results are reported:

"We constructed several pilot-model houses wherein we varied only in the heating method—Hydronic Heat with baseboards versus Forced Air Radial Heat. We conducted various tests during the winter of 1958-1959 and concluded:

1. It was more economical to heat with Hydronic Heat.
2. The temperature difference between floor, ceiling and exterior walls varied only 3-4 degrees while the temperature difference in the warm air heated home was 7-9 degrees.
3. The noise and dust factors were considerably reduced in the Hydronic heated home.
4. The initial installation cost is somewhat higher for the Hydronic heated home as compared to the forced air heating method but the benefits the buyer receives make the difference in initial cost seem insignificant.
5. It is simpler to install the Hydronic system.

"We have subsequently installed Hydronic Heat in over 100 of our new homes during the 1959 building year. We feel that the buyer receives more for his money with Hydronic heat."

### B&G BOOSTER...key unit of the B&G Hydro-Flo System

Engineered for compactness, *silent* operation and years of service, this electric pump circulates boiler water for heating the house. It is built with precision manufacturing methods which translate good design into superior product.

The B&G Booster has a solid reputation for *quiet*, dependable and long-lived operation. That's why over three million units have been sold to date!



## Hydro-Flo<sup>®</sup> SYSTEM

### BELL & GOSSETT

COMPANY

Dept. GD-11, Morton Grove, Illinois

\*Modern hot water heating.

Canadian Licensee: S. A. Armstrong, Ltd., 1400 O'Connor Drive, Toronto 16, Ontario

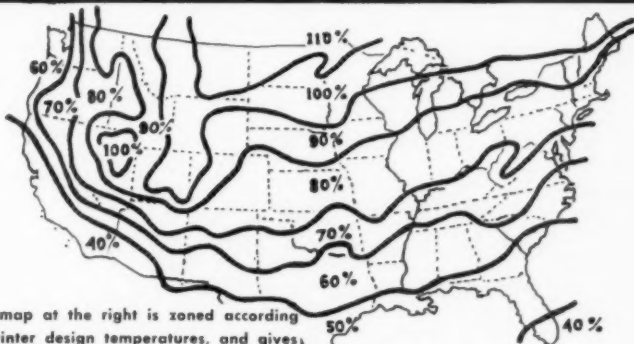
# HEATING, COOLING, VENTILATION

## Condensed Method of Estimating Heating Requirements

### "CONDENSED METHOD" HEAT LOSS FACTORS\*

<b>1.</b>	<b>WINDOWS &amp; DOORS</b>	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
<b>2.</b>	<b>OUTSIDE WALLS (NET)</b>	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
<b>3.</b>	<b>CEILINGS &amp; INSIDE WALLS</b>	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
<b>4.</b>	<b>FLOORS</b>	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
<b>5.</b>	<b>INFILTRATION (AIR LEAKAGE)</b>	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.

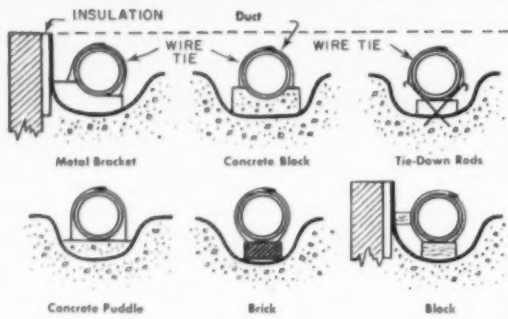
**D** Heating requirements are naturally less where the weather does not get so cold. The average minimum temperature in Dallas, Texas, for example, is only 10° above zero. The "design temperature difference" between inside and outside would be 70° minus 10° equals 60°. Therefore, the heating requirement is only 60/100 or 60% of the amount based on 100° TD.

12

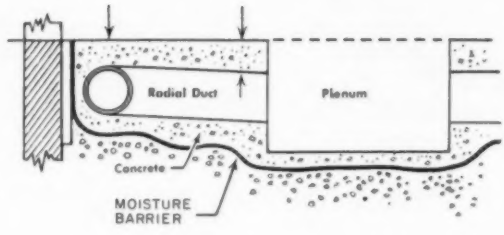
# HEATING, COOLING, VENTILATION

## Design Data for Perimeter Heating

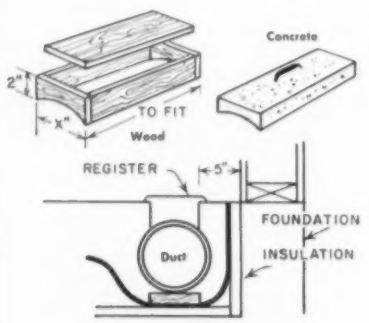
### METHODS OF ANCHORING DUCTS



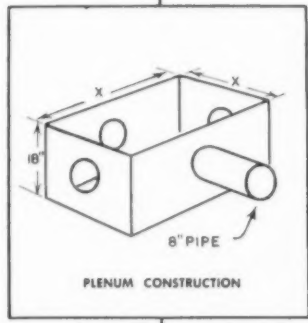
### PLENUM AND DUCT INSTALLATION



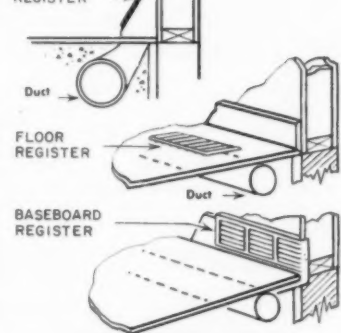
### REGISTER OUTLET FORMS



REGISTER LOCATION

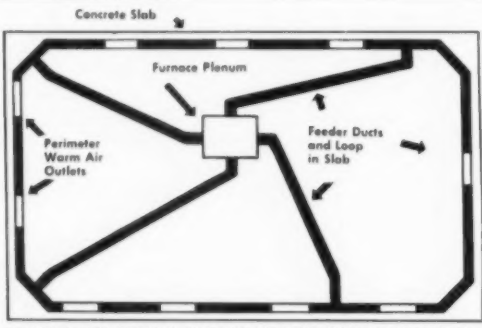


### GRAVITY TYPE BASEBOARD REGISTER

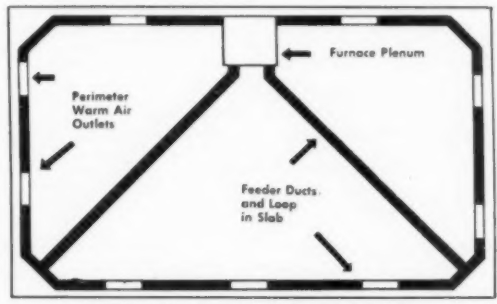


REGISTER TYPES AND LOCATIONS

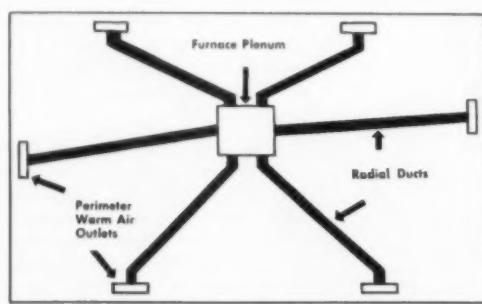
12



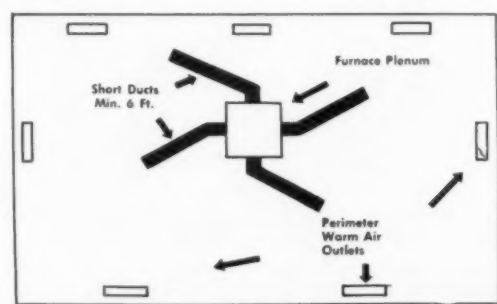
PERIMETER LOOP SYSTEM WITH FEEDER AND LOOP DUCTS IN CONCRETE SLAB



PERIMETER LOOP SYSTEM WITH FURNACE OVER LOOP



PERIMETER RADIAL SYSTEM WITH FEEDER DUCTS IN CONCRETE SLAB OR CRAWL SPACE



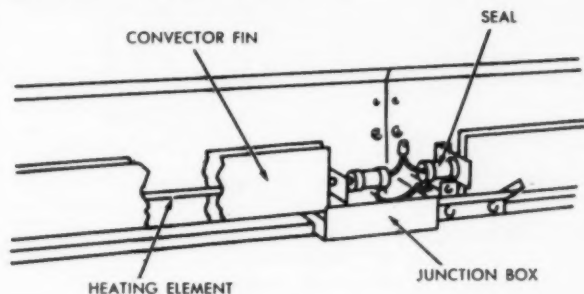
CRAWL SPACE PLENUM SYSTEM



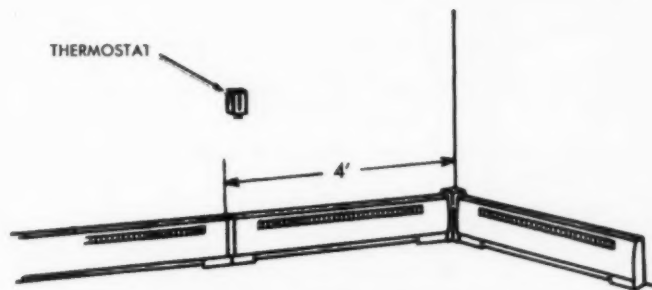
# HEATING, COOLING, VENTILATION

## Electric Resistance Heating

### BASEBOARD ELECTRIC HEATING

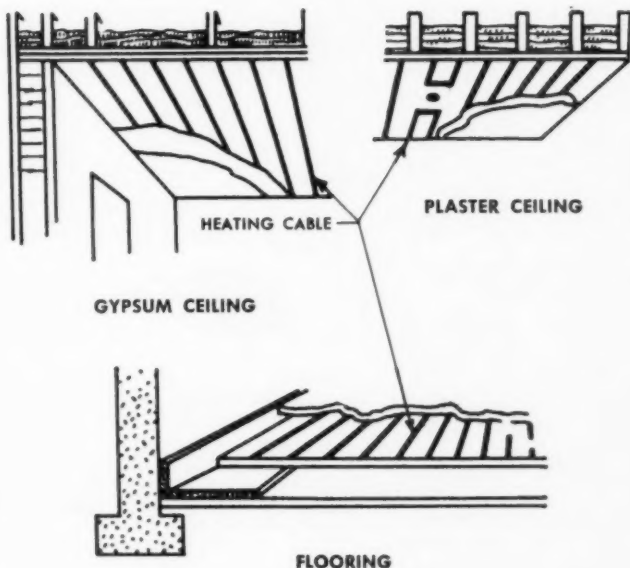


### CONNECTION BETWEEN PANELS



### TYPICAL INSTALLATION

### RADIANT ELECTRIC HEATING BY CABLE



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. Convector 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.*

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.

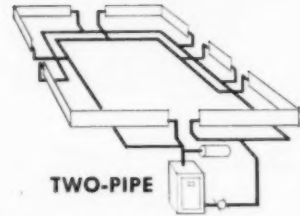
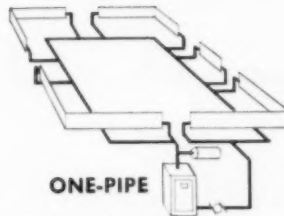
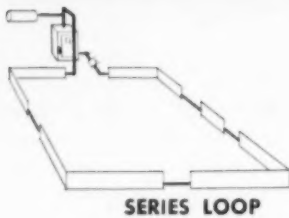
The amount of cable required will depend upon the design of the house and its geographical location. Control is by individual room thermostats.

*Courtesy: Ceilheat, Inc.*

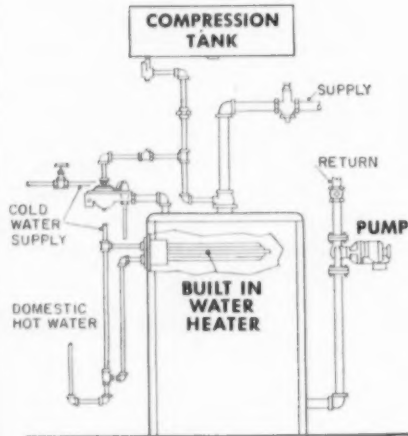
12

# HEATING, COOLING, VENTILATION

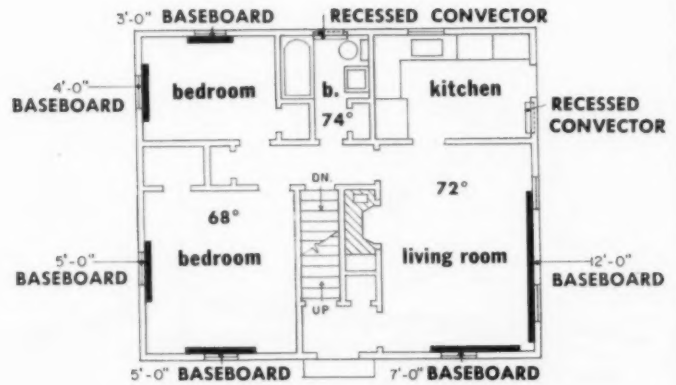
Design Data for Circulating Hot Water Heating



**PERIMETER HEATING SYSTEMS**

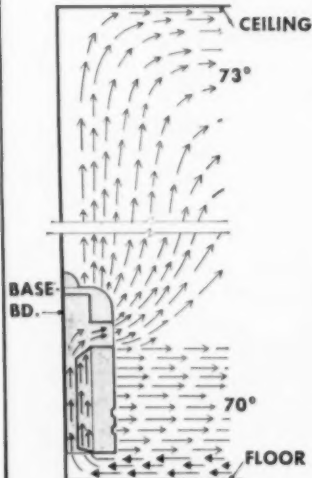


**BOILER WITH BUILT-IN DOMESTIC HOT WATER HEATER**



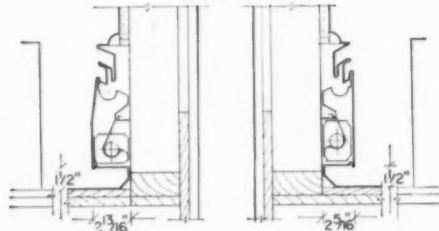
**ZONED HOT WATER HEATING**

12

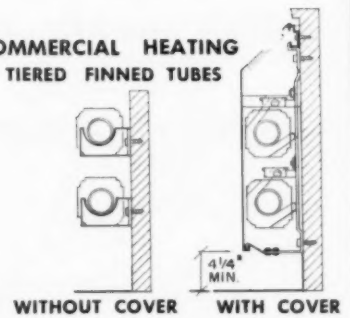


**RADIANT + CONVECTED HEAT = 3° DIFFERENCE BETWEEN FLOOR AND CEILING**

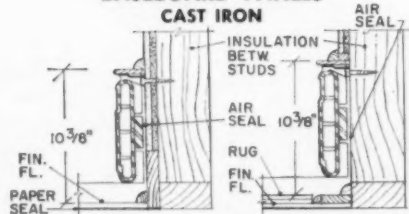
**BASEBOARD PANELS FINNED TUBE**



**COMMERCIAL HEATING TIERED FINNED TUBES**



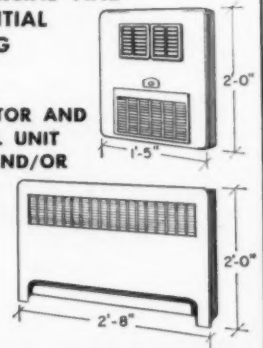
**BASEBOARD PANELS CAST IRON**



**RECESSED OR NON-RECESSED FOR USE WITH WALL-TO-WALL CARPETING (BOTH ABOVE TYPES)**

**COMMERCIAL AND RESIDENTIAL HEATING**

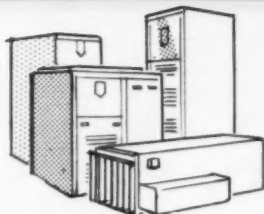
**CONVECTOR AND FAN-COIL UNIT HEATS AND/OR COOLS**



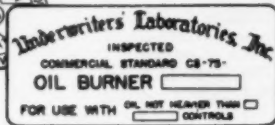
Courtesy: Better Heating-Cooling Council

# HEATING, COOLING, VENTILATION

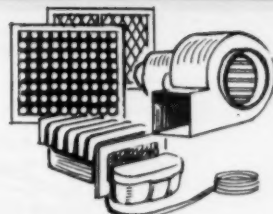
## Forced Warm Air Heating



Type of furnace—high boy, low boy, counterflow, or horizontal—depends upon location, space available, and type of system.



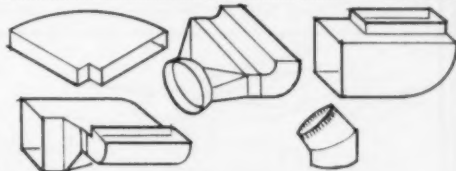
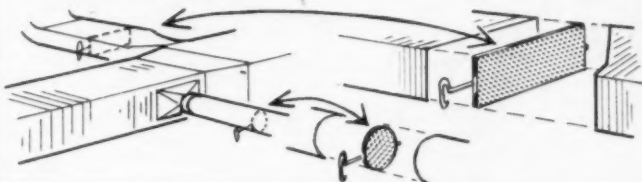
Choose labeled furnace for safety and good performance.



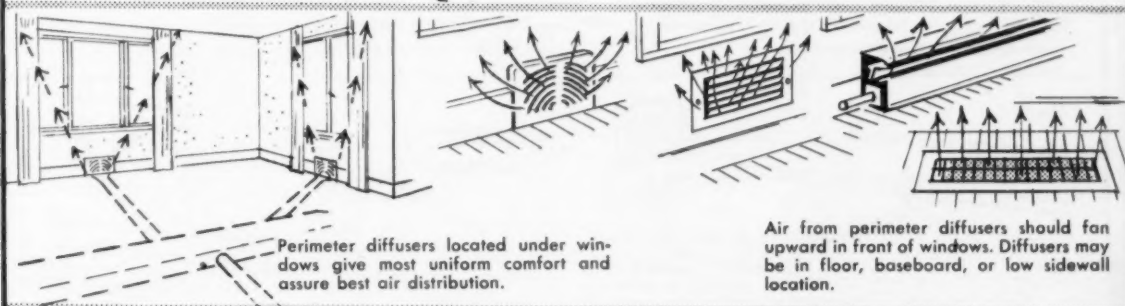
True comfort requires filtered, humidified air circulated gently and evenly.

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.

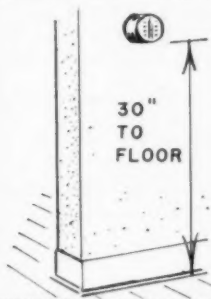


Streamlined fittings needed for free-flowing system. Flexible connectors between furnace and duct system prevent vibration transmission.



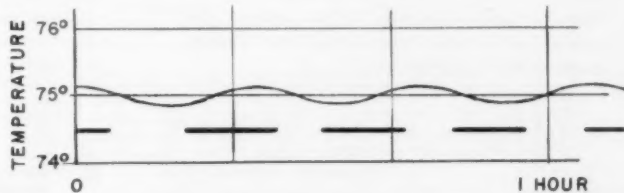
Perimeter diffusers located under windows give most uniform comfort and assure best air distribution.

Air from perimeter diffusers should fan upward in front of windows. Diffusers may be in floor, baseboard, or low sidewall location.



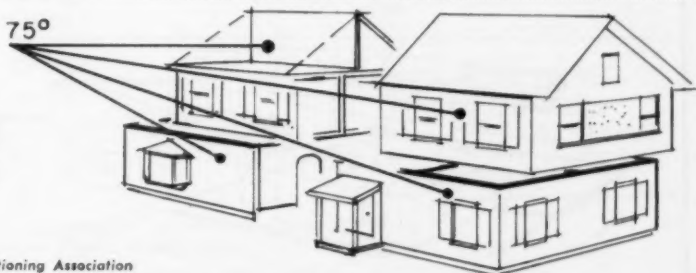
30"  
TO  
FLOOR

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.



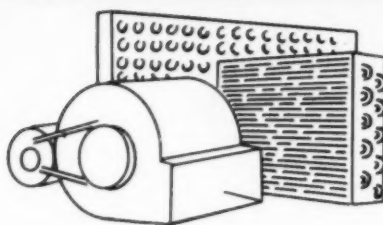
Courtesy: National Warm Air Heating and Air Conditioning Association

# HEATING, COOLING, VENTILATION

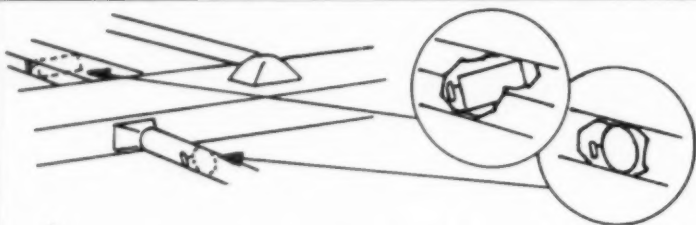
## Air Conditioning Systems: Types and Requirements



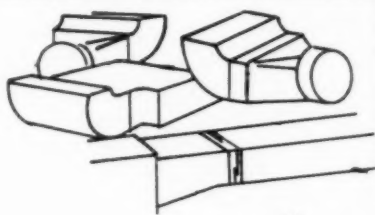
Types of cooling units—unitary, self-contained companion unit, evaporator with remote condenser unit, or heat pump (both heating and cooling)—any of these can be air cooled or water cooled. Select type to fit space and availability of water.



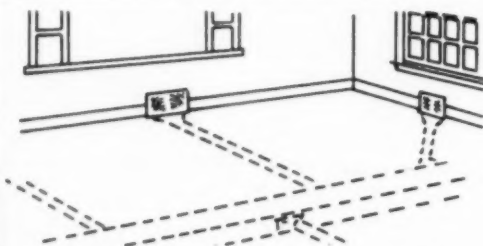
Comfort cooling requires gentle, even circulation of filtered, cooled, and dehumidified air. Fan and filter may be common to both heating and cooling systems.



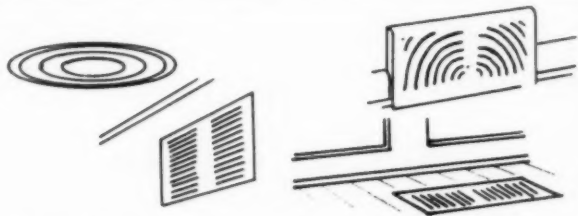
Same features designed into quality duct system for cooling as for heating. Properly engineered, same duct can be used year-round.



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.

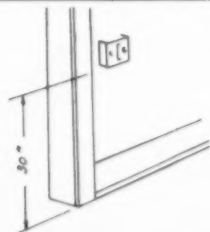


Perimeter diffusers located under windows give most uniform comfort. Locate under every window to assure best air distribution.

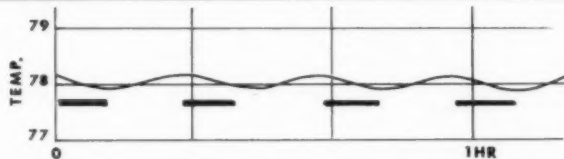


Perimeter diffusers are excellent for year-round use. Ceiling diffusers and high side-wall outlets distributing air horizontally are especially good for cooling. Where cooling is involved, highside-wall returns are particularly desirable.

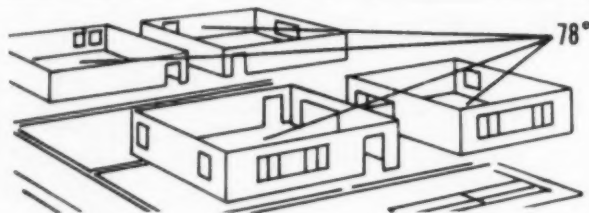
12



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°).



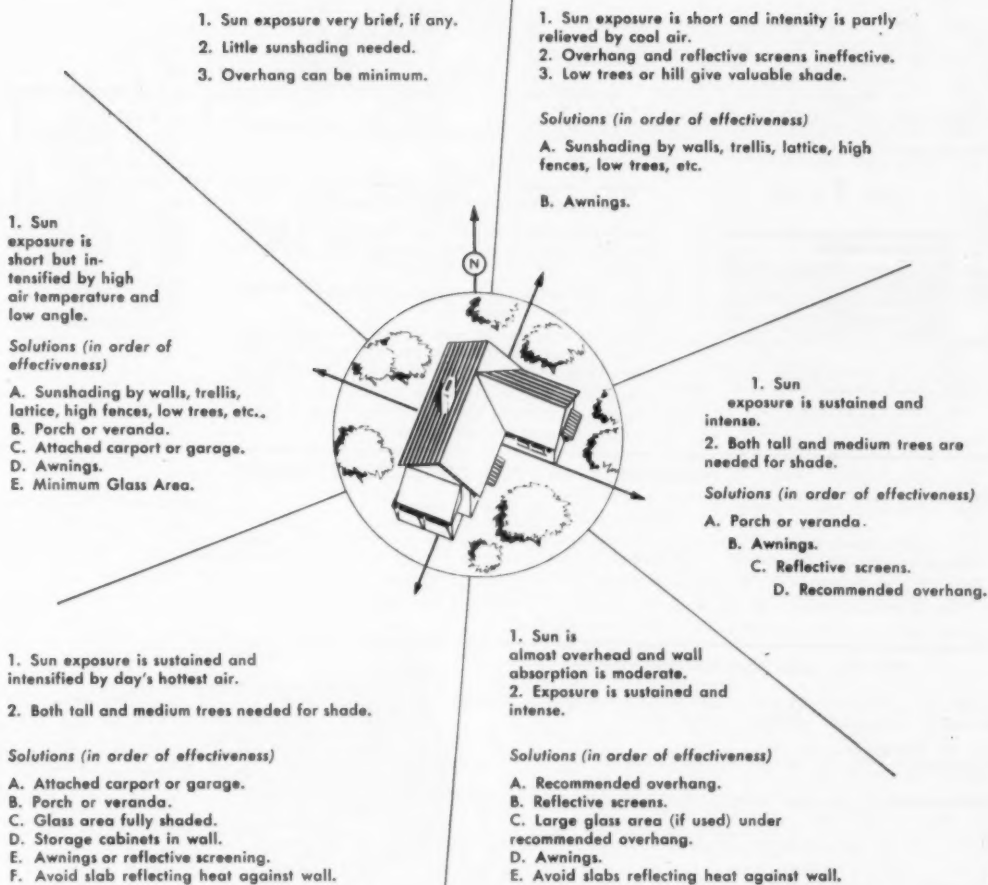
System must be balanced and adjusted in order to obtain uniform temperatures throughout every room of the house. Comfort Air Circulation adjustment also provides almost constant blower operation necessary for best balance and continuous, gentle air motion.

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

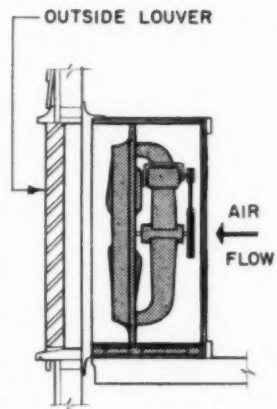
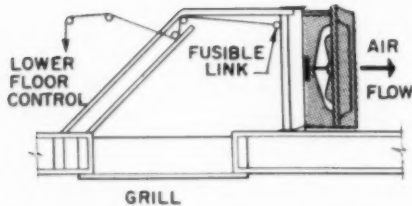
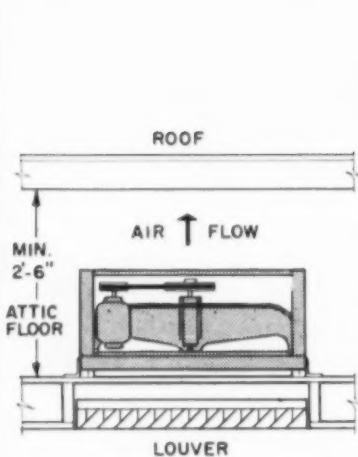
\*Dimensions below staggered line generally not practical as an overhang unless used as porch due to added cost and structural problems. Figures apply to wall facing south.

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



### GENERAL INSTALLATION RULES

Where fans are installed to discharge directly to outside they should be located with prevailing winds.

Fans discharging directly into attic should be centrally located if possible.

Flat-roofed buildings without adequate attic space should be provided with a penthouse for fan location. Either vertical or horizontal units may be used.

Provide adequate protection against fire in all installations. Various devices are available to insure fan cut-off and closing of intake louvers.

### 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:

$$\frac{\text{*Cu. Ft. Volume of Area}}{\text{**Rate of Air Exchange}} = \text{CFM (Fan Capacity)}$$

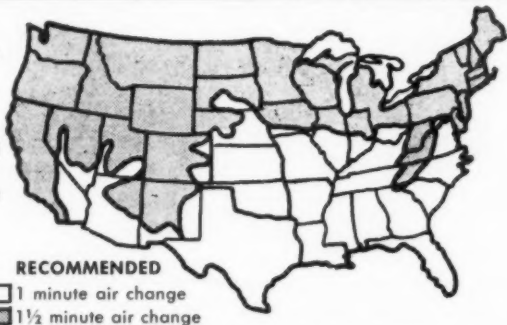
\*Cu. Ft. Volume of Area

\*\*Rate of Air Exchange

\*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:  
 Volume = 15,000 Cu. Ft.  
 Desirable air change = 1 1/2 minutes  
 $\frac{15,000}{1.5} = 10,000 \text{ CFM (Fan Capacity)}$



### FAN LOCATIONS

SUCTION BOX

ATTIC STAIRWAY

GABLE INSTALLATION

ATTIC WALL

PENTHOUSE

BASEMENT

VERTICAL DISCHARGE

The installation of attic fans generally follows the three methods shown at top of page. In homes with basements it is sometimes practical, and equally effective, to install the fan in a compartment beneath the basement stairs allowing the discharge to exhaust directly into the basement proper. Intake and discharge louvers should follow the same rules that apply to attic installation. The same precautions should be taken against fire.

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# HEATING, COOLING, VENTILATION

## Relation of Gross Ventilator Area to Net Area

### FHA REQUIREMENTS

Provide cross ventilation for each separate space by ventilating openings protected against the entrance of rain and snow.

Ratio of total net free ventilating area to area of ceiling shall not be less than 1/150, except that ratio may be 1/300 provided:

- a. A vapor barrier having a transmission rate not exceeding one perm is installed on the warm side of the ceiling; or
- b. At least 50 per cent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated (at least 3'-0" above eave or cornice vents) with the balance of the required ventilation provided by eave or cornice vents.

Attic space which is accessible and suitable for future habitable rooms or walled-off storage space shall have at least 50 per cent of the required ventilating area located in the upper part of the ventilated space as near the high point of the roof as practicable and above the probable level of any future ceiling.



### HOW TO USE FREE AREA VENTILATION GUIDE

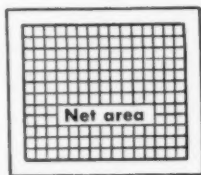
Using length and width dimensions of each rectangular or square attic space, find one dimension on vertical column, the other dimension on horizontal column. These will intersect at the number of square inches of ventilation required to provide 1/300th.

### FREE AREA VENTILATION GUIDE

Square inches of ventilation required for attic areas

WIDTH (IN FEET)	20	22	24	26	28	30	32	34	36	38	40	42
20	192	211	230	250	269	288	307	326	346	365	384	403
22	211	232	253	275	296	317	338	359	380	401	422	444
24	230	253	276	300	323	346	369	392	415	438	461	484
26	250	275	300	324	349	374	399	424	449	474	499	524
28	269	296	323	349	376	403	430	457	484	511	538	564
30	288	317	346	374	403	432	461	490	518	547	576	605
32	307	338	369	399	430	461	492	522	553	584	614	645
34	326	359	392	424	457	490	522	555	588	620	653	685
36	346	380	415	449	484	518	553	588	622	657	691	726
38	365	401	438	474	511	547	584	620	657	693	730	766
40	384	422	461	499	538	576	614	653	691	730	768	806
42	403	444	484	524	564	605	645	685	726	766	806	847
44	422	465	507	549	591	634	676	718	760	803	845	887
46	442	486	530	574	618	662	707	751	795	839	883	927
48	461	507	553	599	645	691	737	783	829	876	922	968
50	480	528	576	624	672	720	768	816	864	912	960	1008

Remember — 1. Include overhang of roof area in measurement of attic areas. 2. At least 50% of the required ventilation must be in the highest part of the roof practicable. 3. Provide cross ventilation for each separate space.



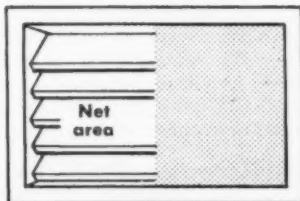
**1/4" MESH SCREEN**  
Gross area = Net area



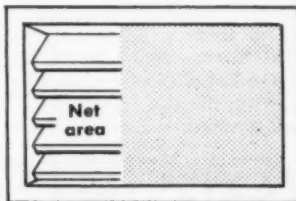
**1/8" MESH SCREEN**  
Gross area = 1.25 × Net area



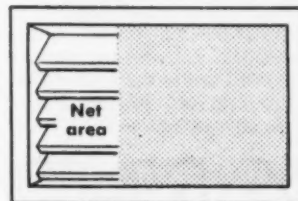
**1/16" MESH SCREEN**  
Gross area = 2 × Net area



**LOUVERS WITH 1/4" MESH SCREEN**  
Gross area = 2 × Net area



**LOUVERS WITH 1/8" MESH SCREEN**  
Gross area = 2.25 × Net area



**LOUVERS WITH 1/16" MESH SCREEN**  
Gross area = 3 × Net area

12

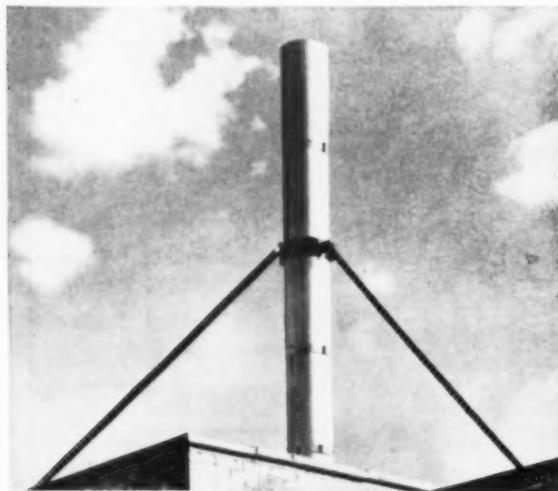
# NOW, from Van-Packer...



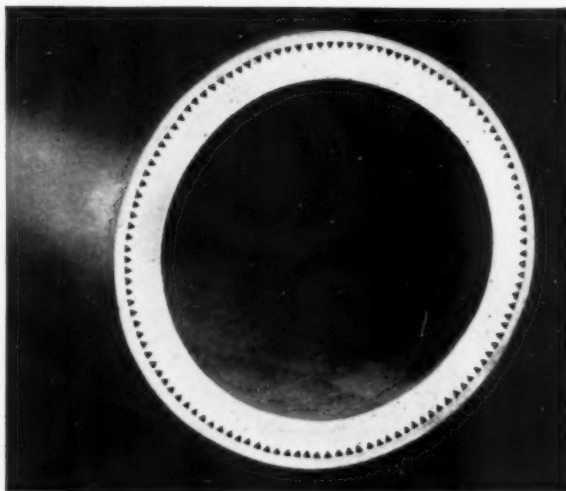
**All-Fuel Chimney** — A low cost, safe, attractive, residential chimney. Asbestos-cement housing in choice of four *non-fade* brick colors: red, white, buff and gray. Tile-lined sections are prefabricated; installation is fast, easy and economical. Each section has  $\frac{5}{8}$ -inch fire clay tile liner, 3-inch vermiculite-concrete insulating wall, and asbestos-cement outer jacket. UL listed for all fuels, safe even for incinerators.



**Metal Gas Vent** — Double-wall, air-insulated gas vents are available in round or oval types. Special design makes installing easy — sections lock together simply, yet tightly, forming a strong, leak proof system. Inner wall of aluminum heats fast for greater efficiency; galvanized steel outer wall provides unusual strength. Full range of sizes and fittings. UL listed for standard (Type B) and recessed wall heaters (Type BW).




**Smokestacks** — Van-Packer Smokestacks for boilers and incinerators feature factory-built refractory sections with corrosion-resistant metal jackets that need no painting. They outlast steel stacks by three times (average), yet cost no more. Model HT Smokestacks are listed under the Factory Inspection and Label Service Program of Underwriters' Laboratories, Inc. Available in 10", 12", 15", 18", 21", 24", 30" and 36" ID's.



**Masonry Gas Vent** — This Van-Packer gas vent is made of  $\frac{5}{8}$ -inch fire clay tile with an asbestos-cement jacket for safety and permanence. It is acidproof and fireproof, and won't dent, rattle, corrode or flake off. It is UL listed for Class B service and can be used with all gas-fired appliances (except incinerators) requiring a 3-inch to 7-inch ID flue. Comes with asbestos-cement brick-design panel housing in choice of four brick colors.

## VAN-PACKER®

Division of:  *Manufacturers of Diversified Products for Home and Industry*

VAN-PACKER CO., 30 Rockefeller Plaza, New York 20, N.Y. • Phone: PLaza 7-5500

In West: Pioneer Division, The Flintkote Company, Box 2218, Terminal Annex, Los Angeles, Calif. • In Toronto, Ontario: The Flintkote Company of Canada, Ltd.





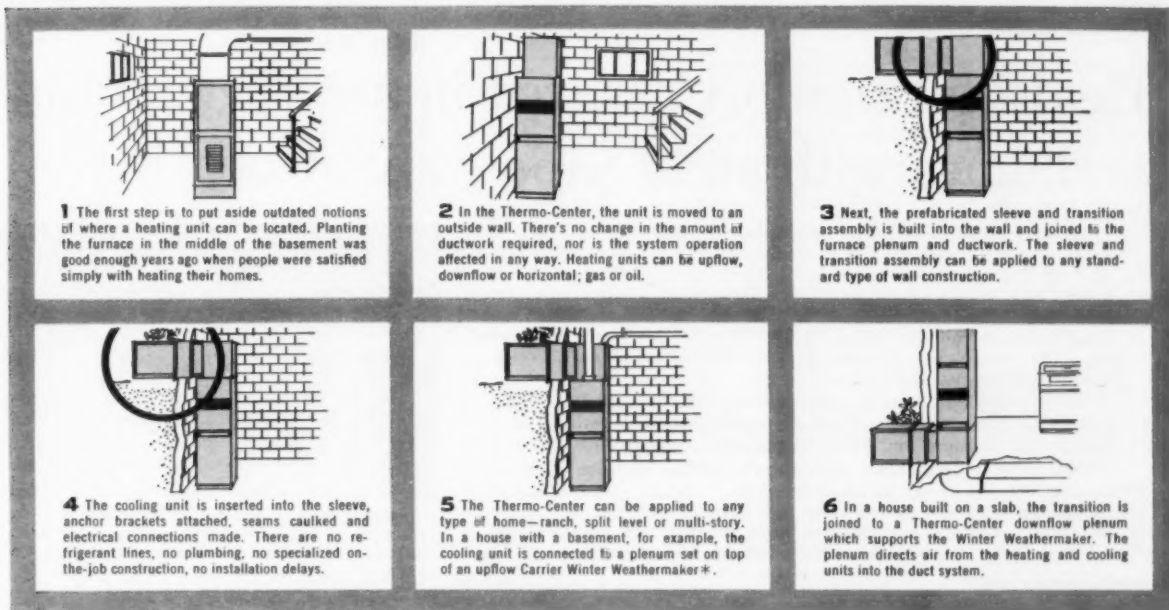
# AS LITTLE AS \$875 WILL AIR CONDITION AND HEAT YOUR HOMES

WITH THE AMAZING CARRIER THERMO-CENTER!

Now, for little more than the price of heating alone, you can also offer your prospects all the benefits of year-round air conditioning with the exclusive Carrier Thermo-Center. This unique method, which combines a forced warm air heating unit with a self-contained air conditioner, provides low-cost, twelve-month air conditioning for small and medium size homes. The key to the method is the prefabricated wall sleeve and the transition assembly which provides a simple, through-the-wall mounting for the air conditioner and controls the the air flow between

the heating and cooling units as shown below.

With a Thermo-Center you save hundreds of dollars per home: (1) No water supply or drain piping is required. (2) No refrigerant lines are needed. (3) Ductwork and wiring are simplified. (4) No specialized on-the-job construction is necessary. (5) Installation time and labor are greatly reduced. (6) Less than 5 square feet of floor area is required. Get the full facts about the Thermo-Center from your Carrier dealer listed in the Yellow Pages. Or you can write Carrier Corporation, Syracuse, New York.



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

MORE PROOF OF  
BETTER AIR CONDITIONING FOR EVERYBODY



EVERYWHERE



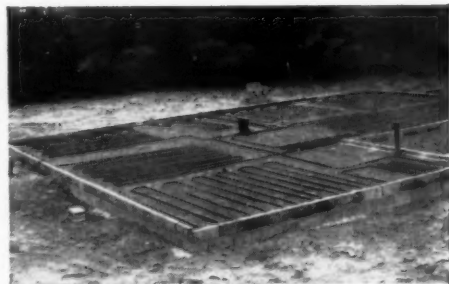
Builder: Oak Hill Builders, Inc.  
 Heating: Atlantic Radiant Heating & Pipe  
 Fabricating Co., Inc.

## Healthful comfort assured in award-winning homes with **steel pipe** radiant heating

The Oak Hill Development in Middletown, New Jersey, has been awarded top national honors in residential design and construction. And despite the wide choices available in these custom-built residences, the vast majority of buyers insisted on individually controlled *steel pipe* radiant heating systems. The great comfort and satisfaction in radiant heating over the past five years by more than 500 home owners in the adjacent Apple Brook Farm Development, was convincing proof!

Yes, modern *steel pipe* radiant heating, with its built-in comfort, uniform and draft-free heat, totally useful floor and wall space, is being used in more and more homes and commercial structures.

*Steel pipe* is first choice for radiant heating systems affording maximum comfort and space utilization . . . reliably and most economically. It is the most widely used tubular product for: drainage lines, structural applications, snow melting, refrigeration, gas, air and water transmission lines, fire sprinkler systems and in electrical conduit.



**Steel pipe** heating coils are shown installed in slab floors for an Oak Hill residence. Similar coefficients of expansion for steel and concrete make **steel pipe** the ideal choice for sturdy, trouble-free life.

### STEEL PIPE IS FIRST CHOICE

- Low cost with durability
- Strength unexcelled for safety
- Formable—bends readily
- Weldable—easily, strongly
- Threads smoothly, cleanly
- Sound joints, welded or coupled
- Grades, finishes for all purposes
- Available everywhere from stock

**INSIST ON PIPE MADE IN U. S. A.**

### COMMITTEE ON STEEL PIPE RESEARCH

150 East Forty-Second Street, New York 17, N.Y.

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This housing project, with 131,700 feet of SONOAIRODUCT Fibre Duct, is proof again of the handling ease, low initial cost, and savings on installation that you get with America's best selling fibre duct! For use in slab perimeter heating or combination heating and cooling systems, SONOAIRODUCT Fibre Duct handles easier, levels quicker . . . saves more time, labor, and money than any other duct you can install!

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- LA PUENTE, CALIF.
- FREMONT, CALIF.
- MONTCLAIR, N. J.
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## Construction Products

SONOCO PRODUCTS COMPANY 487

**THAT EXTRA SELLING FEATURE FOR NEW HOMES**  
*Improves and beautifies ANY FIREPLACE!*  
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**FIREPLACE ENCLOSURE**



**GLEAMING SOLID BRASS FRAME!**  
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- Radiates gentle, even heat with no floor drafts.
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 the **DOUBLE-LOUVERED VENTILATOR**  
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**FAST MOVING • EASILY STOCKED**



**Removable Louvers EASILY Kept Clean**

**INTERIOR**—Glass Louvers with Finger-tip Adjustment

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Vitroliner Chimneys with their concealed rain cap design, eliminate streaking on the housing and roof, by providing for the free flow of combustion gases from the chimney.

These Underwriters' Listed packaged chimneys are distributed and warehoused all over the United States and Canada. They are available in 6", 7", 8", 10" and 12" diameters with red, buff or white brick designed housings, as well as neutral gray.

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



*Year-'round living comfort*  
**adds SELL to your homes**

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You save floor space, because Delco's complete line gives you the right-size cooling coil to stack on any up-flow, down-flow or horizontal furnace. Remote condenser, weatherproofed for exterior installation, is completely air-cooled . . . no water costs or restrictions. Complete blower-and-coil packages, too, for hot water and steam systems.

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*You Can Tell A Metalbestos Man  
By the way he finishes a job!*

When your heating contractor completes a Metalbestos gas vent installation, it's good for the life of the home. He uses the best pipe and installs it right. That "Safety System" Seal says so. It also says: no inspection problems, no customer complaints, no danger later on. Mighty comforting words for a builder. Ask any Metalbestos Man.

See your local Metalbestos representative or write Dept. L-1



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• Safety System Seals • Sales, Product &  
Technical Literature • Ad & Article Re-  
prints • Direct Mail & Display Materials.

**BRAND NAMES  
DIRECTORY**

(Continued from page 246)

- REXALUM Aeroshade Co
- REXGLAS Cleveland Heater Co
- REXON Coddington E D Mfg Co
- REZO Paine Lumber Co Ltd
- REZO-FOLD Paine Lumber Co Ltd
- RFD FARM-CHAMP Ludlow Papers Inc
- RHINO Bridgeport Hardware Mfg Corp
- RHINO Pecora Inc
- RIBAC Harris Mfg Co
- RIBBON AIR Woodside Engineering Co
- RIBFORM Inland Steel Products Co
- RICHBEAD Richkraft Co
- RICHDUCTS Richkraft Co
- RICHFLEX Richkraft Co
- RICHKRAFT Richkraft Co
- RICHLITE Richkraft Co
- RICHMOND Miller Co
- RIGHTUBES Richkraft Co
- RICHVOIDS Richkraft Co
- RIDGEGROOVE Masonite Corp
- RIDGELINE Masonite Corp
- RIDGOLATOR Klauer Mfg Co
- RID-JID Clark J R Co
- RIGID BEAD Inland Steel Products Co
- RIGID-FRAME Inland Steel Products Co
- RIGID-TEX METAL Rigidized Metals
- RIGID-WALL SIDING AlSCO Inc
- RIMCO Rock Island Millwork Co
- RIMCO BAY Rock Island Millwork Co
- RIMCO CASEMENT Rock Is Millwork Co
- RIMCO SIX-TEN Rock Is Millwork Co
- RIMCO SLIDE Rock Island Millwork Co
- RIMCO VENT AND VIEW Rock Island Millwork Co
- RING BARB Hillwood Mfg Co
- RIPPLE-FIN-RIPPLE-TUBE McQuay Inc
- RIPPLEWOOD Georgia Pacific Corp
- RIST-O-KRAT Acorn Mfg Co
- RITE-ON-BLACK Sapolin Paints Inc
- RITE-ON-GREEN Sapolin Paints Inc
- RITEWAY Beauti-Dor Inc
- RIVIERA General Bathroom Prod Corp
- RIW AIRTOX Toch Bros
- RIW EPO-TOX Toch Bros
- RIW FLINTOX Toch Bros
- RIW IRONTOX Toch Bros
- RIW MARINE CEMENT Toch Bros
- RIW PLUGALEAK Toch Bros
- RIW RESISTOX Toch Bros
- RIW ROCKTOP Toch Bros
- RIW SUPER TOXLOXPORE Toch Bros
- RIW TOXCOMIX Toch Bros
- RIW TOXEMENT Toch Bros
- RIW TOXKURE Toch Bros
- RIW TOX-SHADE Toch Bros
- RIW 232 Toch Bros
- R & M Robbins & Myers Inc
- R & M HUNTER Hunter Div R & M
- ROBBINS TILE Robbins Floor Prods Inc
- ROBCO Robinson Brick & Tile Co
- ROBIN HOOD Meridian Wood Prods Co
- ROCK CORK Johns-Manville Corp
- ROCKER-GLO Pass & Seymour Inc
- ROCKET Round David & Son Inc
- ROCKET Sunbeam Plastics Corp
- ROCKET 1000 Grant Pulley & Hdwe Corp
- ROCKET 6000 Grant Pulley & Hdwe Corp
- ROCK-FLEX Rockcote Paint Co
- ROCKLATH United States Gypsum Co
- ROCK-TEX Jones & Brown Inc
- ROCK-TEX Rockcote Paint Co
- ROCKY CREEK Smith W T Lumber Co
- ROCOP Rome-Turney Radiator Co
- RODDISCRAFT Roddis Plywood Corp
- ROE WHITE LINE Roe Justus & Sons
- ROILINE Waukesha Motor Co
- ROLL-AWAY Rudiger-Lang Co
- ROLLAWAY Frantz Mfg Co

(Continued on page 270)



TENANTS of middle-income Oakwood Villa have the same luxurious comfort found in so many high rent apartment buildings—General Electric Built-In *Thinline* Air conditioning.

## General Electric Thinline Air Conditioning Provides Luxury in Inexpensive Apartment



MORTON L. SCHOLNICK

"Our tenants enjoy the latest in comfort and style," says Morton L. Scholnick, President of Oakwood Villa Apartments, Inc., Royal Oak, Michigan. "That means General Electric Built-In *Thinline* air conditioning."

"We chose Built-In *Thinline*s over all other air conditioners because of the design that conceals the grille behind a decorator baffle, and because *Thinline*s have hidden controls. The units are almost invisible. But everyone notices the air conditioned comfort."

All 100 apartments in Oakwood Villa have a Built-In *Thinline* Air Conditioner of 9,500 BTU\* capacity in the living room. Two and three room apartments also have a 5,300 BTU unit in one of the bedrooms. Each apartment has its own air conditioning system

controlled independently to the temperature and humidity desired.

If you are planning to build or if you own an existing building, there are General Electric Room Air Conditioners to satisfy your cooling needs, too. The Golden Value Line of the 60's includes 18 different *Thinline* models, ranging from 5,300 to 16,000 BTU's\*.

See your General Electric Dealer for full details. Room Air Conditioner Department, General Electric Company, Appliance Park, Louisville 1, Kentucky.

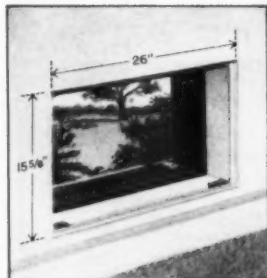
\*Cooling capacities are tested and rated in compliance with NEMA Standard CN 1-1958 and are stated in terms of British Thermal Units.

*Progress Is Our Most Important Product*

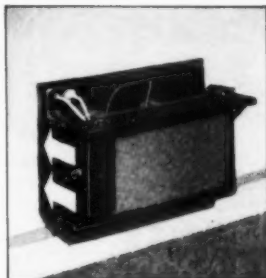
GENERAL  ELECTRIC



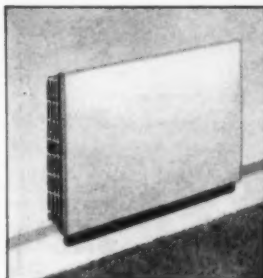
GENERAL ELECTRIC BUILT-IN THINLINE ROOM AIR CONDITIONERS ARE EASY TO INSTALL



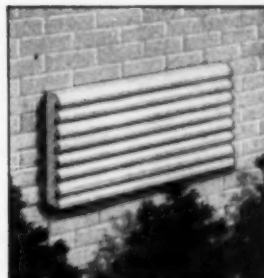
Case installed during construction.



Unit slides into case later.



Add decorator panel.



That's all there is to it.

## BEST BOILER BUY!

New! **ROBERTS-GORDON**

"Petite" Gas-Fired

CAST IRON

## HOT WATER BOILERS



Builders everywhere are saying, "We didn't think we could ever get so much boiler at such a low price!" Roberts-Gordon "Petite" Boilers are compact, ready-to-install "packages". Perfect for space-saving installations in new homes and multiple apartments. Can be used singly, or in tandem for low-cost zone control. Easy to install, tops in efficiency. Ruggedly-built for dependable, trouble-free performance. 50,000, 70,000 and 90,000 BTU/Hr.

## GORDONEER

### CAST IRON GAS HOT WATER BOILERS

These trouble-free units utilize the famous Roberts-Gordon "Spreader-Flame" principle, which insures maximum heating efficiency. Ideal for all gravity or forced circulation hot water heating systems. Wet base greatly increases efficiency and adaptability. Easy installation, minimum maintenance. 78,000, 115,000 and 150,000 BTU/Hr.

### "Lampadaire" GORDON GAS LAMPS

Offers an outstanding opportunity for EXTRA PROFITS to Builders!



WRITE FOR FULL DETAILS TODAY!

• Gas Furnaces • Air Conditioning • Unit Heaters

**ROBERTS-GORDON**  
APPLIANCE CORP.

44 Central Ave. • Dept. AB • Buffalo 6, N. Y.



## BRAND NAMES DIRECTORY

(Continued from page 268)

ROLL-EEZ Junior-Pro Products Co  
ROLL-OR-WHEEL Buschman E W Co Inc  
ROL THREAD Hillwood Mfg Co  
ROL-TOP Kinnear Mfg Co  
ROLTITE Consoweld Corp  
ROLTITE CEMENT Midcontinent Adhesive Company  
ROLY-DOOR Morrison Steel Prods Inc  
ROMAN BRONZE Revere Copper & Brass  
ROMANESQUE Lustrro Tile Mfg Co  
ROMANS Watsontown Brick Co  
ROMANY-SPARTAN U S Ceramic Tile  
ROMAR Romar Filter Corp  
ROMEX General Cable Corp  
ROMEX-UF General Cable Corp  
ROOF DECK Granco Steel Prods Co  
ROOFINSUL Johns-Manville Corp  
ROOFMASTER Carey Philip Mfg Co  
ROOF MATE Dow Chemical Co  
ROOMAIRE Young Radiator Co  
ROOM MATES York Wall Paper Co  
ROSEMAN TILLER RAKE Roseman Tractor Equipment Company  
ROSEMOLD Midland Brick & Tile Co  
ROSE WALNUT Masonite Corp  
ROTARY Swartwout Co  
ROT-STOP Rockcote Paint Co  
ROTO-GLO Pass & Seymour Inc  
ROTO-TROWEL Stow Mfg Co  
ROTO-WAITERS Sedgwick Mach Works  
ROTOWOOD Parkwood Laminates Inc  
ROUNDEL Mondial United Corp  
ROUNDVENT Webb Mfg Co Inc

RO-WAY Rowe Mfg Co  
ROYAL Alumatic Corp of America  
ROYAL Chattanooga Royal Co  
ROYAL Crossett Lumber Co  
ROYAL Sloan Valve Co  
ROYALCOTE Masonite Corp  
ROYAL EAGLE Eagle Rule Mfg Corp  
ROYALFOLD Curtition Corp  
ROYAL Chattanooga Royal Co  
ROYALTEX Polyplastex United Inc  
ROYAL 24 INCH SHINGLES White Creek Shingle Co  
RUBATEX Rubatex Div Great Amer Ind  
RUBBERCOAT Wilbur & Williams Co  
RUBBERCOTE Thomas Moulding Floor  
RUBBERLIKE Bird & Son Inc  
RUBBERLOCK Mitchel Rubber Prods Inc  
RUB-R-BOND Elliott Paint & Varnish Co  
RUGASOL Sika Chemical Corp  
RUGBY Standard Brick & Tile Corp  
RUGGED ROLLING DOOR W M Prods  
RULANE Suburban Propane Gas Corp  
RUNWELL Frantz Mfg Co  
RUSCO Russel F C Co  
RUSCO-MATIC Russel F C Co  
RUS-KIL Mobile Paint Mfg Co  
RUSTBAAR Horn A C Co Div Sun Chem  
RUSTEX Elliott Paint & Varnish Co  
RUSTGO Stay-Tite Products Co  
RUST-OLEUM Rust-Oleum Corp  
RUTLAND Rutland Fire Clay Co  
RUUD ALCOA ALLOY Ruud Mfg Co  
RUUDIATOR Ruud Mfg Co  
R-V LITE Arvey Corp

(Continued on page 272)

FROM CARTON TO ATTIC . . .

**Installed in Minutes!**

## BAR-BROOK\*

### BREEZEBUILDER\*

### Package Unit

## ATTIC FANS

. . . are true package units—  
NOT partially pre-assembled.

Fan, motor, ceiling shutter, and suction box are completely factory assembled, and wired to standard knock-out box on top of fan. Pre-cut ceiling trim. The builder's answer to economical home cooling. 3 sizes for 31", 36", 42" ceiling openings. UL Approved.



WRITE FOR CATALOG of entire BAR-BROOK line of large fans and shutters.

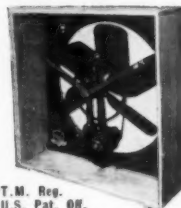
Also Model FH Fans for vertical or horizontal operation. 6 sizes, 30" to 54".

## BAR-BROOK MFG. CO., Inc.

Box 6638-G

Shreveport, Louisiana

FAN MAKERS SINCE 1932



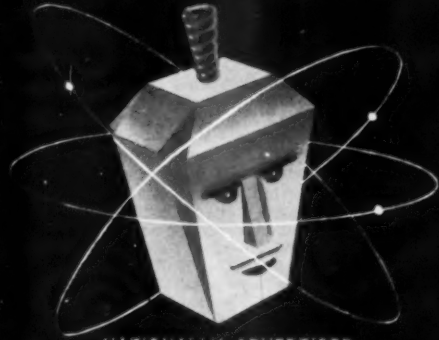
\*T.M. Reg.  
U.S. Pat. Off.



# WILLIAMSON

A nationally advertised unique symbol combined with a complete line of builder-designed furnaces.

Your new home prospects will know this symbol. You will recognize the low cost installation features and their compactness.



NATIONALLY ADVERTISED

## "Magic Brain"

HEATING & COOLING UNITS

Completely factory wired, assembled and tested, these compact units can be installed with the ease of an appliance. Installer simply connects flue, fuel lines and power service. Fits into a 23½" wide space. Available for oil and gas.

### Special Series Units



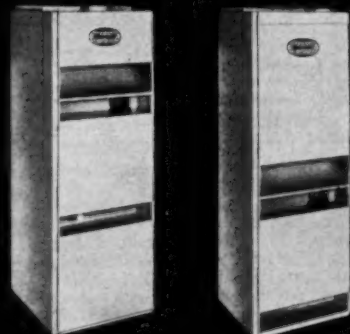
Hi-Boy Model

Lo-Boy Model with Air Conditioning

Counter-Flow Model

Especially designed for use with Air Conditioning . . . addition of Coil and Outdoor Condenser converts units into a Yearround Air Conditioner.

### New Wintermatic Units



Hi-Boy Model

Counter-Flow Model

For really low cost houses, famous Williamson quality is available in the new Wintermatic economy line 75,000 and 100,000 BTU in gas; 100,000 in Oil. Hi-Boy and Counter-Flow models only.

#### Wintermatic and Special Series Units are 22¼" wide

BTU	DEPTH (in inches)		HEIGHT (in inches)		
	HI-BOY OR COUNTER-FLOW	LO-BOY †	HI-BOY	LO-BOY †	COUNTER-FLOW
75,000*	25	41	62	44½	65
100,000	29	47	62	44½	65
125,000 †	32	52	62	44½	65
150,000 †	35	55	62	44½	65
175,000 †	40½	—	67	—	70
200,000 †	45½	—	67	—	70

\*Not available for oil fuel

† Not available in Wintermatic Series

THE WILLIAMSON COMPANY  
3330T4 Madison Rd., Cincinnati 9, Ohio

I want more information on your Builder Furnaces.

Name \_\_\_\_\_

Address \_\_\_\_\_

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

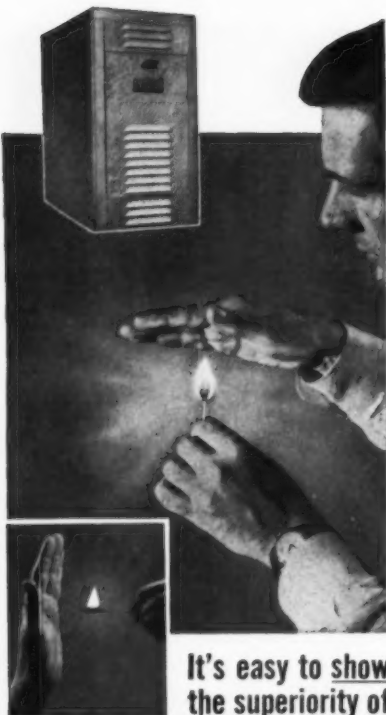
## BRAND NAMES DIRECTORY

(Continued from page 270)

R-V-TEX Arvey Corp  
 SBP Burnham Corp Warm Air & Cooling  
 S I S Allied Chemical Corp Barrett Div  
 SABER-TOOTH Rawplug Co Inc  
 SABRE Miller Co  
 SABINITE United States Gypsum Co  
 SACHEM Samson Cordage Works  
 SAFE Safe Padlock & Hdwe Co  
 SAFE-T-MATIC Safety Nail Driver Corp  
 SAFE-T-TAPS Keystone Mfg Co  
 SAFETY GLO Rodale Mfg Co Inc  
 SAFETY M I General Cable Corp  
 SAFETY PULL Coffing Hoist Duff-Norton  
 SAFETY-STEP Goodrich B F Co Flooring  
 SAFETY-WALK Minnesota Mining  
 SAF-SHORE Safway Steel Products Inc  
 SAF-T-CUT Bay State Abrasive Prods Co  
 SAF-T-HOT Hedges M M Mfg Co Inc  
 SAFTI-VENT Little H C Burner Co  
 SAF-T-LOK Certain-Teed Sales Corp  
 SAFWAY SHORES Safway Steel Prods  
 SAGLESS Chicago Spring Hinge Co  
 SAKAR Elliott Bay Mill Co  
 SALEM Johns-Manville Corp  
 SALEM LINE Irmanton Products Co  
 SAMARA United States Plywood Corp  
 SAMCO Syral Manufacturing Co  
 SAMCO Samuel Stamping & Enameling  
 SAMPSON Richbilt Manufacturing Co  
 SANACOUSTIC Johns-Manville Corp

SANDMASTER 8 Atlas Floor Surfacing  
 SAND-O-FLEX Merit Products Inc  
 STARFOLD Curtition Corp  
 SAND-HOG JR SET Karelius A. & Sons  
 SAND-HOG SR SET Karelius A. & Sons  
 SAN-EQUIP Vega Industries Inc  
 SANFORD GRI-P-LATE Sanford Gri-P-Late Co  
 SANI-CART American Conveyor Co  
 SANI-FLAT Moore Benjamin & Co  
 SANI FLOOR Hollaender Mfg Co  
 SANIMASTER Ruud Mfg Co  
 SANITONE American Asbestos Prods Co  
 SAN MARINO Thomas Industries Inc  
 SANTA CLARA Permanente Cement Co  
 SANTOBRITE Monsanto Chemical Co  
 SARALOY 400 Dow Chemical Co  
 SARGENT Sargent & Co  
 SASHCO Southern Sash Sales & Supply  
 SATEEN O'Brien Corp  
 SATINA Penn-Akron Corp  
 SATIN-GLAZE Mosaic Tile Co  
 SATIN GLO Sunbeam Plastics Corp  
 SATINHIDE Pittsburgh Plate Glass Co  
 SATINLAC United States Plywood Corp  
 SATIN-LUX Patterson-Sargent Co  
 SATIN SHEEN Chicago Bronze & Color Works  
 SATIN SPAR Bestwall Gypsum Co  
 SATINTEX Seidlitz Paint & Varnish Co

(Continued on page 278)



It's easy to show  
 the superiority of

## HYDROTHERM'S HORIZONTAL boiler sections

Simple test quickly shows prospects how gas-fired HYDROTHERM's horizontal, cast iron boiler sections save fuel—boost efficiency. Hand held over flame feels direct heat of rising gases—beside flame, only radiant heat—hot gases slip by.



This convincing test demonstrates how HYDROTHERM efficiency brings luxury, gas-fired hydronic heating to a home they can afford.

Hot gases rise, whether from match or burner. HYDROTHERM staggered, horizontal water sections, like hand over flame, force hot rising gases to traverse all water-backed, cast iron sections at right angles on their way from burner to flue. This true gas design transfers 40% more heat per pound of cast iron than possible with vertical section boilers — homeowners get a compact unit with less stand-by loss, quicker load pick-up — greater fuel savings.

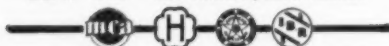
Explain these advantages with the graphic match test that lets prospects actually feel the difference. Try it — it really tells the story.

Send your construction plans. We'll prove how HYDROTHERM advanced engineering gives luxurious hot water heat at no extra cost.



**HYDROTHERM**

DEPT. 13-A NORTHVALE, NEW JERSEY



FIRST IN HYDRONIC GAS HEAT

Sell the **Magic** of  
 automatic kitchen ventilation



\*You'll profit by writing to:

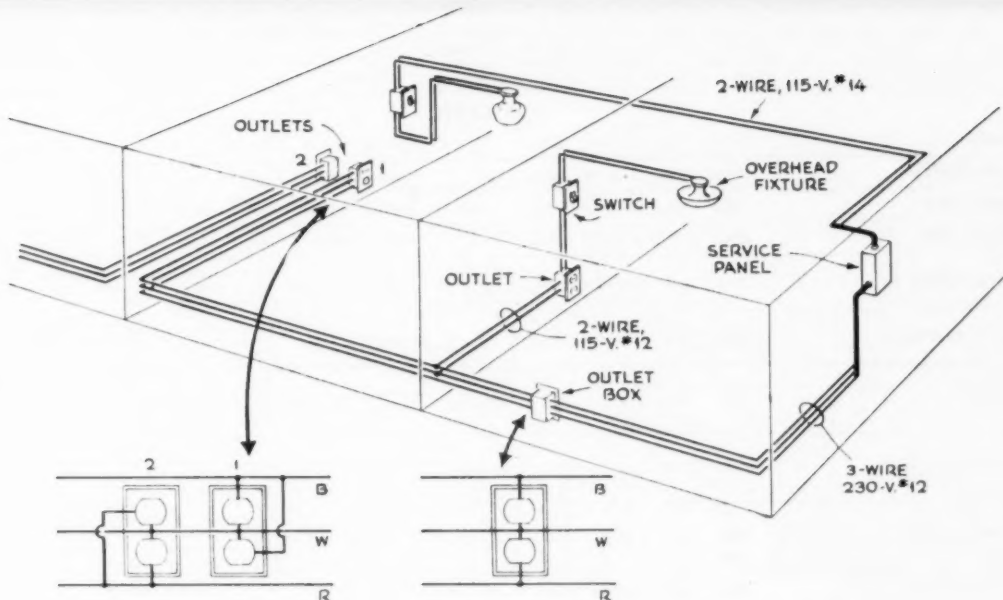
**PARAGON**  
 ELECTRIC COMPANY

1826 Twelfth St. • Two Rivers, Wis.

TIME IS MONEY — CONTROL IT WITH PARAGON

# ELECTRICAL, WIRING

## 3-Wire Perimeter Circuiting: Low-Voltage Switching

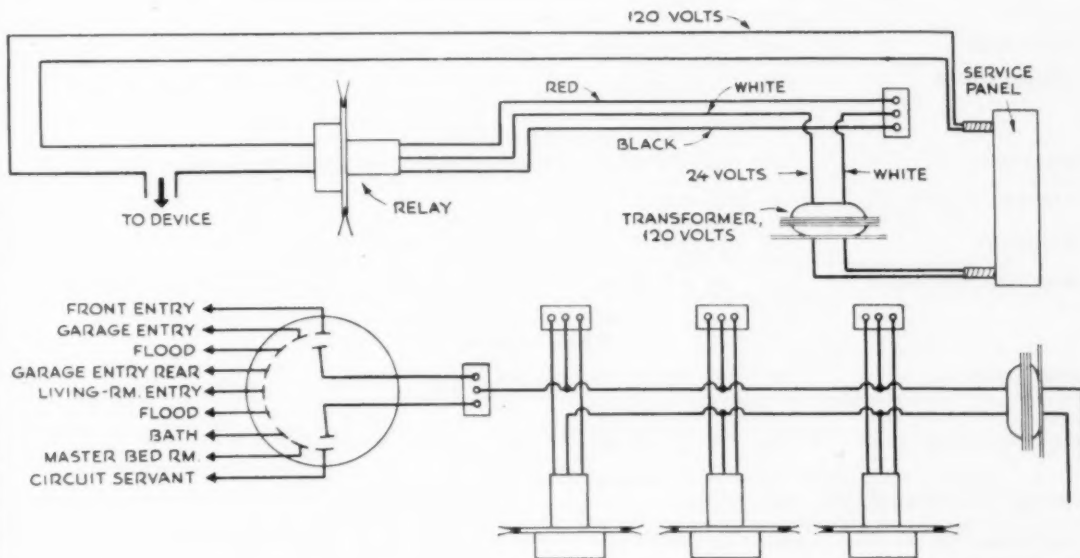


(Courtesy: National Electrical Manufacturers Assoc.)

### 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
<b>KITCHEN</b>							
<b>RANGE</b>	12000	120 <sup>2,40</sup>	3 # 6	50A.	1	Special Purpose	Use of more than one outlet is not recommended.
<b>OVEN (Built in)</b>	4500	120 <sup>2,40</sup>	3 # 10	30A.	1	Special Purpose	May be direct connected.
<b>RANGE TOP</b>	6000	120 <sup>2,40</sup>	3 # 10	30A.	1	Special Purpose	May be direct connected.
<b>RANGE TOP</b>	3300	120 <sup>2,40</sup>	3 # 12	20A.	1	Special Purpose	May be direct connected.
<b>DISHWASHER</b>	1200	120	2 # 12	20A.	1	Parallel Grounding	These appliances may be direct connected on a single circuit. Grounded receptacles required, otherwise.
<b>WASTE DISPOSER</b>	300	120	2 # 12	20A.	1	Parallel Grounding	These appliances may be direct connected on a single circuit. Grounded receptacles required, otherwise.
<b>BROILER</b>	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.
<b>FRYER</b>	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.
<b>COFFEEMAKER</b>	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.
<b>REFRIGERATOR</b>	300	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Separate circuit serving only refrigerator and freezer is recommended.
<b>FREEZER</b>	350	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Separate circuit serving only refrigerator and freezer is recommended.
<b>LAUNDRY</b>							
<b>WASHING MACHINE</b>	1200	120	2 # 12	20A.	1 or more	Parallel Grounding	Grounding type receptacle required. Separate circuit is recommended.
<b>DRYER</b>	5000	120 <sup>2,40</sup>	3 # 10	30A.	1	Special Purpose	Appliance may be direct connected — must be grounded.
<b>IRONER</b>	1650	120	2 # 12	20A.	1 or more	Parallel Grounding	
<b>HAND IRON</b>	1000	120	2 # 12	20A.	1 or more	Parallel	Consider possible use in other locations.
<b>WATER HEATER</b>	3000					Special Purpose	Consult utility company for load requirements.
<b>LIVING AREAS</b>							
<b>WORKSHOP</b>	1500	120	2 # 12	20A.	1 or more	Parallel Grounding	Separate circuit recommended.
<b>PORTABLE HEATER</b>	1300	120	2 # 12	20A.	1	Parallel	Should not be connected to circuit serving other heavy-duty loads.
<b>TELEVISION</b>	300	120	2 # 12	20A.	1 or more	Parallel	Should not be connected to circuit serving appliances.
<b>PORTABLE LIGHTING</b>	1200	120	2 # 12	20A.	1 or more	Parallel	Provide one circuit for each 500 sq. ft. Divided receptacle may be switch controlled.
<b>FIXED UTILITIES</b>							
<b>FIXED LIGHTING</b>	1200	120	2 # 12	20A.	1 or more		Provide at least one circuit for each 1200 watts of fixed lighting.
<b>AIR CONDITIONER ¾ hp</b>	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.
<b>CENTRAL AIR CONDITIONER</b>	5000	240				Special Purpose	Consult manufacturer for recommended connections.
<b>HEAT PUMP</b>	*14000	240				Special Purpose	Consult manufacturer for recommended connections.
<b>SUMP PUMP</b>	300	120	2 # 12	20A.	1 or more	Parallel Grounding	May be direct connected.
<b>HEATING PLANT</b>	600	120	2 # 12	20A.	1		Direct connected. Some local codes require separate circuit.
<b>FIXED BATHROOM HEATER</b>	1500	120	2 # 12	20A.	1		Direct connected.
<b>ATTIC FAN</b>	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"

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# 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.

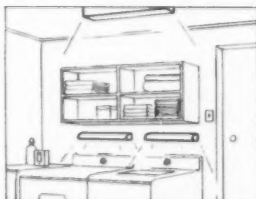
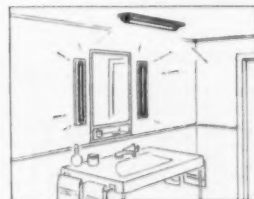
For sink under a cabinet, range, and work counters, required is a wall bracket containing one 20-watt fluorescent, or two 40-watt incandescent for each four feet of counter. If mounted flush with underside of cabinets, shielding is not required.



◀ **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.

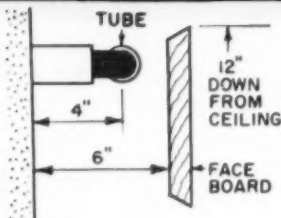
◀ **CLOTHES CLOSETS:** A minimum one-lamp receptacle or fixture for each full-door closet.

◀ **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.

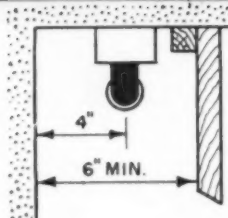
# ELECTRICAL, WIRING

## Selected Built-in Lighting Details



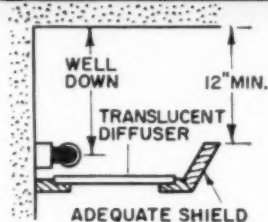
### VALANCE

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.



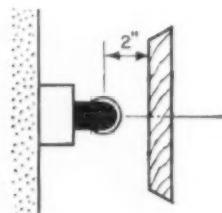
### CORNICE

Provides wall light only. Face-board joins ceiling. Channel is ceiling-mounted. Recommended for low-ceiling rooms, or where window head is close to ceiling.



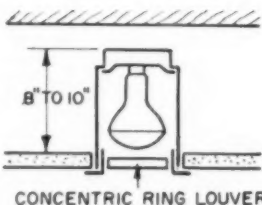
### COVE

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.

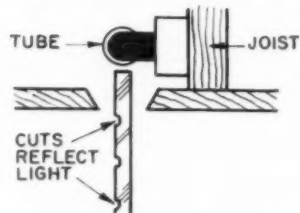


### BRACKET

Like valance, but centerline of faceboard is on same level with tube, should be closer to wall. Light emission is both upward and down.

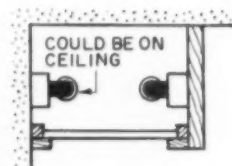


CONCENTRIC RING LOUVER



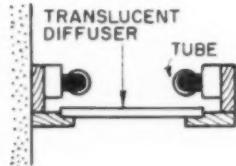
### EDGELIGHTING

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.



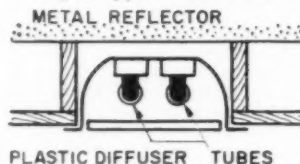
### SOFFIT

Underside of beam or furred-down section containing recessed luminous panel. Chiefly for local lighting, but several soffit panels could provide adequate general illumination.



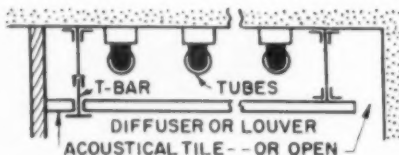
### CANOPY-OVERHANG

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.



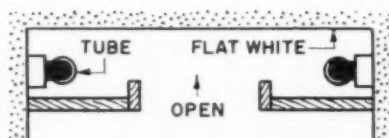
### TROFFER

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.

# ELECTRICAL, WIRING

## Service Entrances

### TYPICAL SERVICE-ENTRANCE SCHEDULES FOR VARIOUS LEVELS OF UTILIZATION — 115/230 volts, 3-wire

Nominal Rating	Maximum Capacity	Main Switch	Main Control Center Units	Size of Service Wire	Size of Conduit	Utilization Circuits
100A	24,000 watts	100A Sw. or 100A Cir. Bkr.	2-50A 1-20A (Water Heater)	2—No. 2 1—No. 4	1½"	General Purpose Electric Cooking Electric Laundry Water Heater Air Conditioning
150A	36,000 watts	200A Sw. (150A Fuses) or 150A Cir. Bkr.	3-50A 1-20A (Water Heater)	2—No. 2/0 1—No. 2	2"	General Purpose Electric Cooking Electric Laundry Air Conditioning Water Heater Electric Heating (Small Homes)
200A	48,000 watts	200A Sw. (200A Fuses) or 200A Cir. Bkr.	4-50A 1-20A (Water Heater)	2—No. 4/0 1—No. 2/0	2"	General Purpose Electric Cooking Electric Laundry Air Conditioning Water Heater Electric Heating (Temperate Climate)

#### SAMPLE SERVICE-ENTRANCE CALCULATION

For a 1500 sq. ft. home with electric range, electric water heater and electric home laundry.

#### LIGHTING AND GENERAL-PURPOSE LOAD:

1500 sq. ft. x 4 watts/sq. ft. ....6000 watts

#### SMALL APPLIANCE LOAD:

Number of appliance circuits included in branch circuit layout — 4  
4 x 2000-watts/circ. ....8000 watts  
total 14000 watts

take 3000 at 100%.....3000 watts

and the remainder of 11000 at 35%..3850 watts

RANGE DEMAND LOAD:.....8000 watts

#### FIXED APPLIANCE LOAD:

Water heater .....3000 watts  
Clothes dryer .....4500 watts  
Clothes washer ..... 500 watts  
Ironer .....1650 watts  
9650 watts

at 100%..... 9650 watts

Total watts of service capacity: 24500 watts

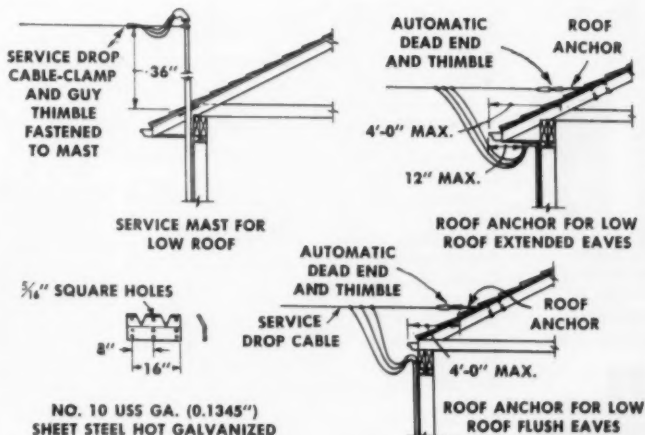
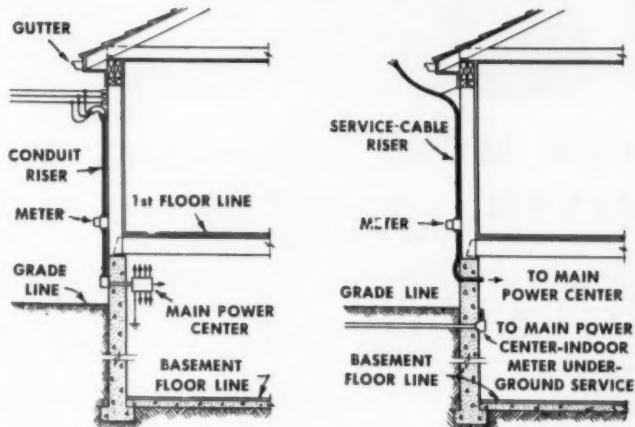
Required current-carrying capacity of service-entrance conductors (at 115/230 volts, 3-wire, single-phase):

$$\frac{24500}{230} = 106.5 \text{ amperes}$$

Service-entrance conductors must be:

No. 1's Type R in 1½" Conduit  
or No. 1's Type TW in 1½" Conduit  
or No. 2's Type RH in 1¼" Conduit

This service entrance can be described as a 25 kw service, the value obtained by multiplying the current rating of the service entrance by the voltage between the two ungrounded conductors (230 volts). A wide range of possible service entrance arrangements could be used to carry out the design set forth in this typical calculation. If a main disconnect switch is not required by local regulations, six or less circuit breakers can be used as protective subdivisions as set forth in Section 2351 a. of the National Electrical Code. If a main disconnect switch were required in this particular service entrance, either a 200-amp switch fused at 110 amps or, because the calculation contains spare capacity, a 100-amp switch fused at 100 amp or a 100-amp circuit breaker may be used as the main disconnect.



Courtesy "Live Better Electrically"

# GUARANTEED FOR LIFE

Murray "MP" fully magnetic  
circuit breakers help you



## TURN MORE LOOKERS INTO BUYERS... AT NO EXTRA COST



PROSPECTS know that only the best is GUARANTEED FOR LIFE. Show them you use only the best with this lifetime guarantee on competitively priced Murray "MP" circuit breakers.

Your electrical contractor will leave visible proof of quality on every installation: a GUARANTEED FOR LIFE sticker and an official warranty in every load center. These instill confidence in the whole wiring job, give you that extra talking point to clinch the sale.



### Look at these "MP" sales features:

- Modern circuit breaker convenience and safety
- Finest branch circuit protection possible
- Installs anywhere for maximum wiring economy
- No nuisance tripping saves you customer gripes

Ask your electrical contractor to install GUARANTEED FOR LIFE, fully magnetic Murray "MP" circuit breakers on your next job. Ask him also about the *Model Home Promotional Aids* he has available for you. For further information, write Murray directly for bulletin which tells how national GUARANTEED FOR LIFE promotion can help make sales for you. Murray Manufacturing Corporation, 1250 Atlantic Avenue, Brooklyn 16, N. Y.



Model Home  
Promotional Aids



# murray



## BRAND NAMES DIRECTORY

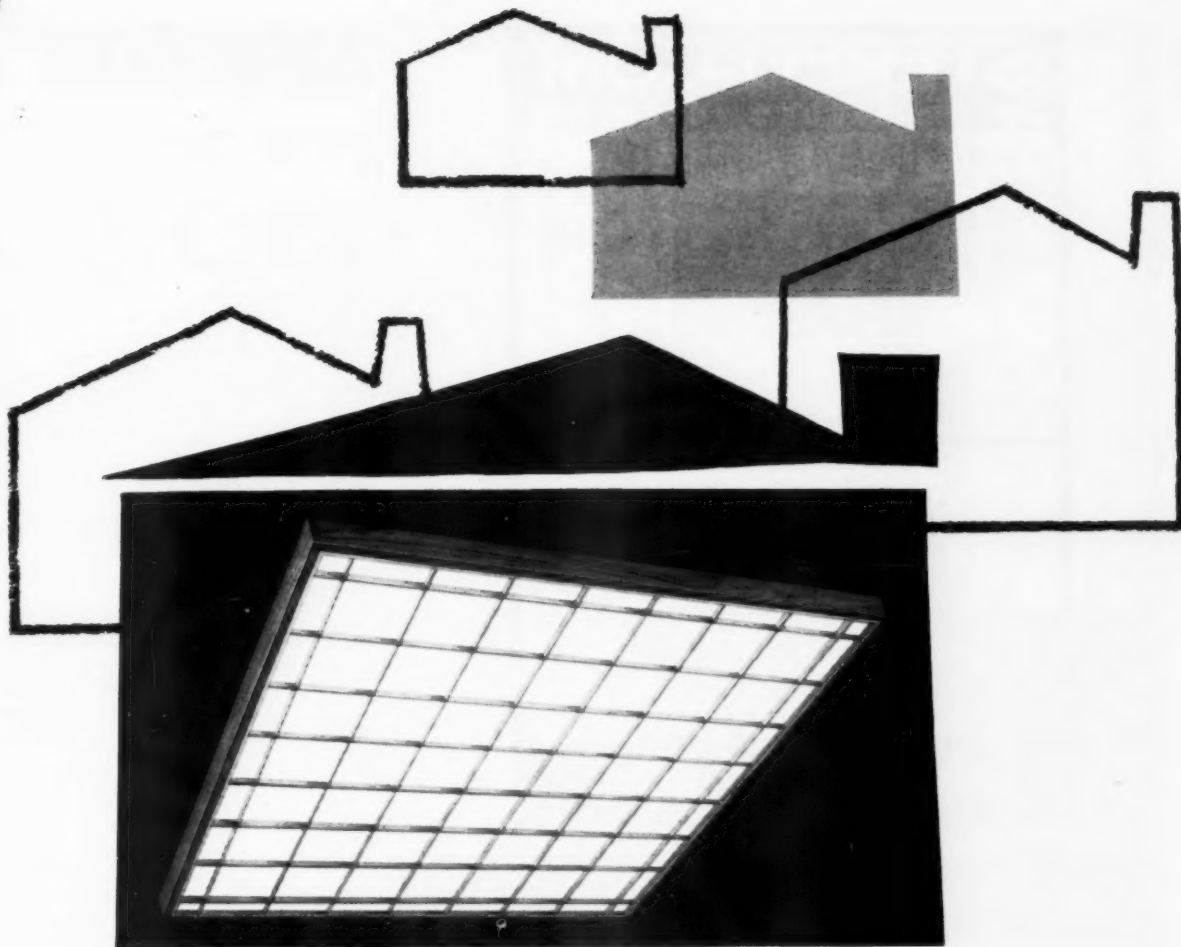
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SATINTONE Seidlitz Paint & Varnish Co  
SATUROCK Carter-Waters Corp  
SAVABRUSH Schalk Chemical Co  
SAV-A-DOR Ludwig Mfg Co Inc  
SAV-A-SCREEN Farley & Loetscher Mfg  
SCENERAMIC Oro Mfg Co  
SAW MASTER Master Woodworker Mfg  
SAW ZALL Milwaukee Elec Tool Corp  
SCAF-O-MATIC Universal Mfg Corp  
SCATTER TWEED Wallace Mfg Co  
SCHALKS Schalk Chemical Co  
SCOOPMOBILE Mixermobile Mfg  
SCOOT-CRETE Getman Brothers  
SCORBORD Dow Chemical Co  
SCOTCH BRAND Minnesota Mining  
SCOTCHRAP Minnesota Mining  
SCOTCH-TRED Minnesota Mining  
SCOTSMAN Kennatrack Corp Sub Ekco  
SCOTSMAN Clipper Mfg Co  
SCOTTIE Kennatrack Corp Sub Ekco  
SCOUT Slaymaker Lock Co  
SCREEN-BAK Behr-Manning Co  
SCREEN-GLASS Warp Brothers  
SCREENLOK Safetee Glass Co  
SCREENMASTER-STANDARD Engineered Products Co  
SCREEN-N-CLOSURE Miami Metal Weatherstrip Co  
SCREEN-O-MATIC Lockhart Mfg Corp  
SCREW-SEAL Robinson Clay Product Co  
SCREW-TITE NAILS Independent Nail  
SCRO-GRILLS Hutchinson R H & Co  
SCRUGUN Black & Decker Mfg Co  
SCRU-LEALS Rawplug Co Inc  
SCUF-CHAMP Ludlow Papers Inc  
SCULPTURA Woodward Lee L Sons  
SEA SWIRL United States Plywood Corp  
SEADRIFT Masonite Corp  
SEAL-A-DOOR Seal-A-Door Co  
SEAL ALL CLIPS Seal-All Clip Co  
SEAL-A-MATIC Superior Window Co  
SEALAIR WINDOW Kawneer Co  
SEAL-CRAX Allied Compositions Co Inc  
SEALDON Certain-Teed Sales Corp  
SEALD LIGHT Coddington E D Mfg Co  
SEAL-DRAFT Sun Screen Prods Co  
SEAL-DRI O'Brien Corp  
SEAL-EAZ Precision Weatherstrip Co  
SEAL-FLEX Grand Rapids Hardware Co  
SEAL-FOIL Sealtite Insulation Mfg Corp  
SEALIT Sullivan Co  
SEAL-KOTE Wooster Sealkote Co  
SEALMASTER Ida Products Co  
SEAL-O-CEDAR Aloha Lumber Corp  
SEAL O CEDAR Smith M R Shingle Co  
SEAL-O-MATIC Johns-Manville Corp  
SEALTIGHT Meadows W R Inc  
SEAL-TITE Starline Inc  
SEAL-TITE Visador Co  
SEAL-TREAT American Asbestos Prods  
SEASONMAKER McQuay Inc  
SEASON-MASTER McQuay Inc  
SECRET SERVICE Master Lock Co  
SECTIONFOLD DOORS Wilson J G Corp  
SECURIT Blue Ridge Glass Corp  
SECURIT American-Saint Gobain Corp  
SECURITY Resolite Corp  
SECURITY (Doors) Cole Mfg Co  
SECURITY ROOFING National Mfg Corp  
SECURITY SIX Slaymaker Lock Co  
SEDCON Sedcon Inc  
SED-N-COTE Seddon Co  
SED-N-SEAL Seddon Co  
SED-N-SET Seddon Co  
SED-N-SHADE Seddon Co  
SELBALITH Selby Battersby & Co  
SELBATEX Selby Battersby & Co

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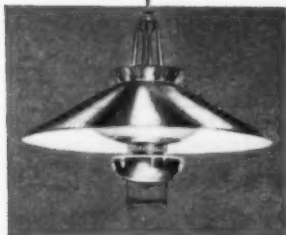
AMERICAN BUILDER





## ONE MODEL HOME STANDS OUT ...it's the one with salespower by Lightolier

It may take a few dollars more (but not many) to put Lightolier fixtures in your models. And for those dollars you get the Lightolier name, evidence of quality; Lightolier lighting, evidence of sound planning; Lightolier styling, proof of your good taste. Perfect example: the exciting new Corona fixture above. The efficient fluorescent light is framed with walnut to give the look of fine cabinet work. Other examples below, priced to fit any sensible budget. To learn more about Lightoliers and what they can do for your homes, fill out the coupon today.



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Please send me your new free catalog of lighting especially for builders, the name of my Lightolier distributor, details of your builder merchandising plan.

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# LIGHTOLIER

Showrooms: New York—11 E. 36th St.; Chicago—1267 Merchandise Mart; Dallas—1718 HI Line Drive; Los Angeles—2515 So. Broadway

# STEREO-COM

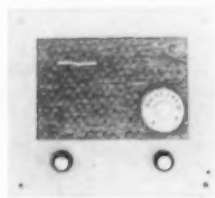
AM-FM-STEREO-INTERCOM

First With the Finest



\$495<sup>00</sup>  
COMPLETE

One complete unit for Intercom  
stereo — and AM-FM radio  
Six Hi-Fi Remote Speakers



DELUXE BUILT-IN  
RADIO WITH TONE  
CONTROL

\$42<sup>50</sup>

List Price  
\*Clock Optional\*

MUSIC AND SOUND INC.  
DALLAS 7, TEXAS

## "SWEETHEART" RADIO

## BRAND NAMES DIRECTORY

(Continued from page 278)

SEEDED EMERI-EPOX Maguire Walter  
SELCKAFT Selck Walter E & Co  
SELECTAIR Johnson S T Co  
SELER-TRONIC Standard Register Co  
SELF-CONTAINED WEATHERMAKER  
Carrier Corporation  
SEWERTITE Carey Philip Mfg Co  
S G CORK TILE Dodge Cork Co Inc  
SHADE SCREEN Rudiger-Lang Co  
SHADO-KAST Protective Products Co  
SHADO-SHAKE Supradur Corp of N Y  
SHADOWBESTOS Johns-Manville Corp  
SHADOW CAST Certain-Teed Sales Corp  
SHADOWLAP Celotex Corp  
SHADOWOOD Lehman Co  
SHADOWVENT SIDING Masonite Corp  
SHAKERTOWN Shakertown Corp  
SHALLOW-FLOW Goulds Pumps Inc  
SHAM-ROCK Masonry Waterproofing Co  
SHARP ALL Belsaw Machinery Co  
SHASTA Wooster Brush Co  
SHASTETTE Wooster Brush Co  
SHAWNEE 88 Shawnee Manufacturing  
SHEDWELL Frantz Mfg Co  
SHEETROCK United States Gypsum Co  
SHEP-TY Sheffield Div Armeo Steel Corp  
SHELBY Columbia Geneva Steel Division  
SHELV-IT-ALL Hirsh S A Mfg Co  
SHERARDUCT National Electric Div H K  
Porter

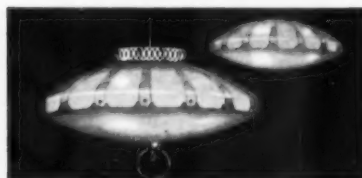
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products of progress



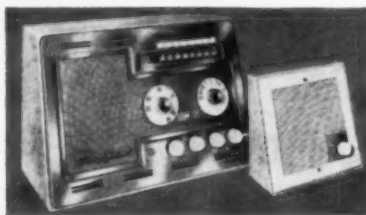
### ASTRAL FLUORESCENT FIXTURES FOR BEAUTY, MORE EFFICIENT LIGHTING

Medium-impact styrene diffusers in luminous white make both circline and straight-line fluorescent lighting more effective than ever. Astral rimless fixtures provide the built-in look so attractive in low-ceilinged rooms. No exposed metal rims solve the matching fixture problem.



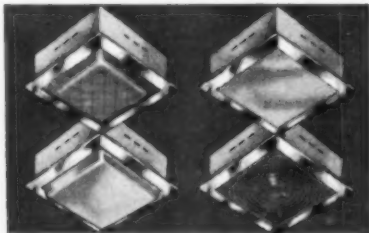
### GOLDTONE OR COPPERTONE ACCENTS ENLIVEN VERSATILE MARDI GRAS

Matching Mardi Gras pull-down and ceiling fixtures—in white with goldtone or coppertone—where you want gaiety to prevail. White glass diffusers make light softly radiant.



### SOUND GUARD INTRODUCES CONVERTIBLE RADIO INTERCOM

Now Sound Guard has designed a convertible intercom that eliminates permanent installation costs and problems. These handsome leatherette finished units move anywhere. Housing fits deluxe or economy Sound Guard systems. Easily converted to built-ins when desired.

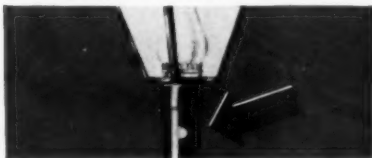


### BUDGET RECESS SERIES FEATURES EFFICIENT LENSES, DIFFUSERS

Now at low, low prices . . . attractive fresnel lens, drop opal, satin frosted bent glass, or flat glass diffusers, in easy to install recessed fixtures. This Minute Mount Series represents outstanding value—never have comparable fixtures been offered at such low prices.

### NEW ECONOMY MODEL INTERCOM FOR BUDGET PRICED HOMES

The "Cadet," an AM standard system, is a new addition to the Progress line of Sound-Guard Intercoms. Now builders of economy homes can offer the luxury of a radio-intercom. Since the housing kit is the same for all 4 Sound-Guard systems, the buyer has the choice of deluxe models—such as AM-FM, clock-controlled AM, or AM deluxe radio intercoms. (not illustrated)



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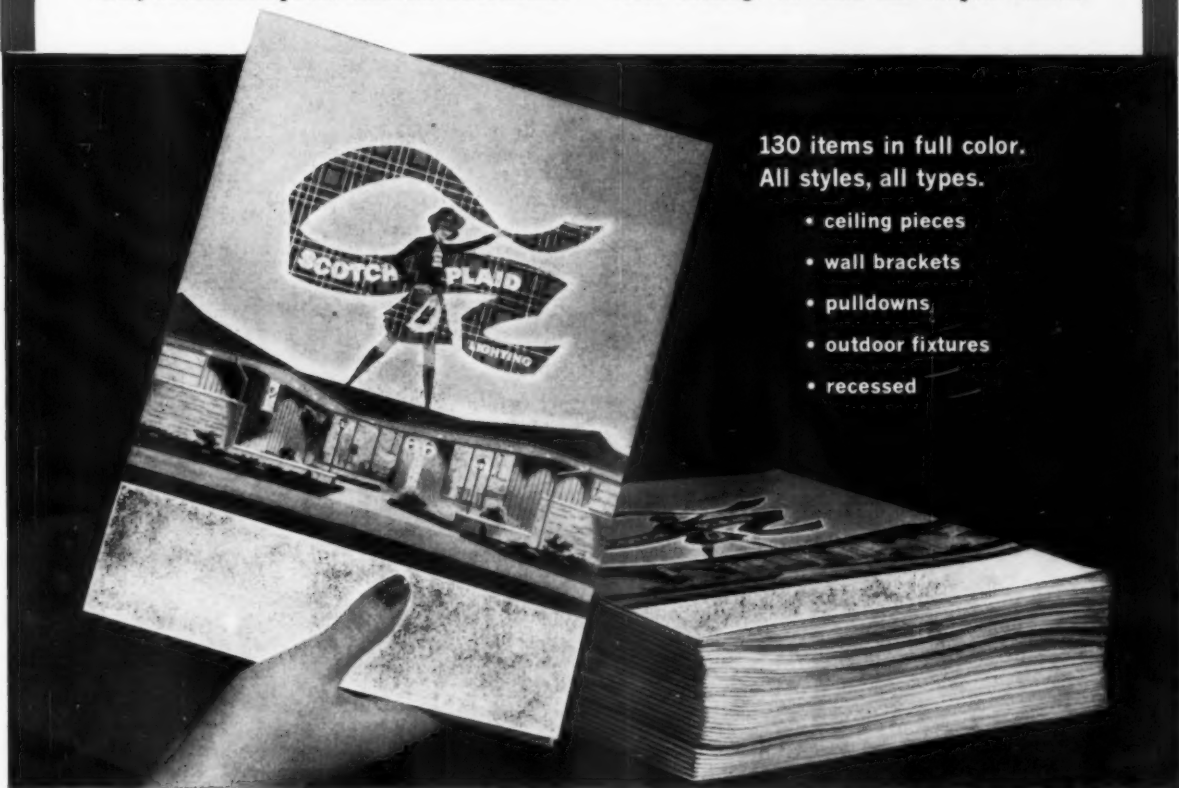
6

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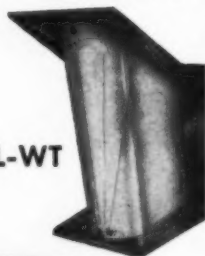
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(Continued from page 280)

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 SHOWLINE Hirsh S A Mfg Co  
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 SHURE-SET Ramset Fastening System  
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SIKA-KOTE Sika Chemical Corp  
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(Continued on page 298)



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Complete packaged kits with wiring, wall plates and hardware . . . designed by Mosley electronic specialists for perfect-picture reception.

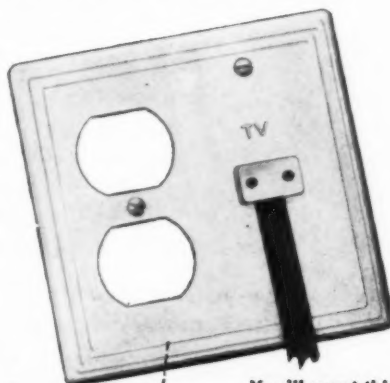
Gives each home a factory-engineered, built-in system that connects one rooftop antenna with two or four rooms. (Have a set in each room or move one around.)

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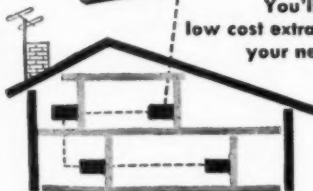
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**M-1537** Frosted White and Polished Brass; adjusts 16" to 41½"; 21" dia. shade. Regular Price \$29.95. Special Price \$24.95.

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# 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  $\frac{1}{32}$ -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			
Nominal	Actual	Counted	Weights M Ft.
<b>TONGUED AND GROOVED-END MATCHED</b>			
$\frac{3}{8}$ " 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"	$\frac{3}{8}$ " 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 2"	$\frac{1}{2}$ " x 2"	1" x $2\frac{1}{2}$ "	1000 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	1" x 2"	1000 lbs.
$\frac{1}{2}$ " x 2"	$\frac{1}{2}$ " x 2"	1" x $2\frac{1}{2}$ "	1350 lbs.
$\frac{1}{2}$ " x $1\frac{1}{2}$ "	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	1" x 2"	1300 lbs.
<b>SQUARE EDGE</b>			
$\frac{3}{8}$ " x 2"	$\frac{3}{8}$ " x 2"	face count	1200 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	face count	1200 lbs.

BEECH, BIRCH, HARD MAPLE AND PECAN			
Nominal	Actual	Counted	Weights M Ft.
<b>TONGUED AND GROOVED-END MATCHED</b>			
$\frac{3}{8}$ " 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"	$\frac{3}{8}$ " 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 2"	$\frac{1}{2}$ " x 2"	1" x $2\frac{1}{2}$ "	1000 lbs.
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	1" x 2"	1000 lbs.
$\frac{1}{2}$ " x 2"	$\frac{1}{2}$ " x 2"	1" x $2\frac{1}{2}$ "	1350 lbs.
$\frac{1}{2}$ " x $1\frac{1}{2}$ "	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	1" x 2"	1300 lbs.
<b>SPECIAL THICKNESSES</b>			
$\frac{1}{2}$ " x $3\frac{1}{4}$ "	$\frac{3}{8}$ " x $3\frac{1}{4}$ "	5/4" x 4"	2400 lbs.
$\frac{1}{2}$ " x $2\frac{1}{4}$ "	$\frac{3}{8}$ " x $2\frac{1}{4}$ "	5/4" x 3"	2250 lbs.
$\frac{1}{2}$ " x 2"	$\frac{3}{8}$ " x 2"	5/4" x $2\frac{3}{4}$ "	2250 lbs.
Above Tongued and Grooved and End Matched			
<b>JOINTED FLOORING — i. e., Square Edge</b>			
$\frac{3}{8}$ " 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 $3\frac{1}{2}$ "	$\frac{3}{8}$ " x $3\frac{1}{2}$ "	1" x $4\frac{1}{4}$ "	2500 lbs.
$\frac{1}{2}$ " x $2\frac{1}{2}$ "	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	5/4" x $3\frac{1}{4}$ "	2500 lbs.
$\frac{1}{2}$ " 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 $1\frac{1}{2}$ "	$\frac{3}{8}$ " x 2	$\frac{3}{8}$ " 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 $2\frac{1}{4}$	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	$2\frac{3}{8}$	3	$2\frac{1}{4}$	$3\frac{3}{4}$	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 it 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	$\frac{3}{8}$ " x $1\frac{1}{2}$ "
30% for	$\frac{3}{8}$ " 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
$\frac{3}{8}$ x 2 $\frac{3}{8}$ x $1\frac{1}{2}$	Bright casing nail — 4d wire or cut nail, or screw nail. 8 in. apart. Wood subfloor required.
$\frac{3}{8}$ x $3\frac{1}{4}$ $\frac{3}{8}$ x $2\frac{1}{4}$ $\frac{3}{8}$ x $1\frac{1}{2}$	7d or 8d screw type or cut steel nail.* 10-12 in. apart.
$\frac{1}{2}$ x 2 $\frac{1}{2}$ x $1\frac{1}{2}$	5d screw type or cut steel or wire nail. 10 in. apart. Wood subfloor required.
<b>Square-edge flooring. Face-nailed.</b>	
$\frac{3}{8}$ x 2 $\frac{3}{8}$ x $1\frac{1}{2}$	1-in. 15 gauge fully barbed flooring brad, preferably cement coated. 2 nails every 7 in. Wood subfloor required.

\*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.

14

# 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		SHEET	TILE
				REGULAR	ALKALI RESISTANT	SHEET	TILE								
FORM AVAILABLE	TILE	TILE	TILE	SHEET	TILE	SHEET	TILE	TILE	SHEET	TILE	SHEET	TILE	TILE		
<b>DIMENSIONS*</b> Size or Width, Inches Thickness, Inches	9 x 9 0.125 0.1875	9 x 9 0.125 0.1875	9 x 9 0.0625 0.080 0.09375 0.125	72 0.0625 0.070	9 x 9 0.0625	45, 72 0.0625 0.080	9 x 9 0.0625 0.080	9 x 9 0.080 0.09375 0.125	36 0.080 0.125 0.1875	9 x 9 0.080 0.125 0.1875	72 0.070 0.090 0.125	9 x 9 0.045 0.090 0.125	9 x 9 0.09375 0.125 0.1875 0.3125		
<b>COST</b> 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	0.045" \$ .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" \$ .70-1.30 0.125" \$ .75-2.00	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		
<b>USE LEVEL**</b> 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 No No	Yes No No	Yes Yes No		
<b>PHYSICAL CHARACTERISTICS</b> 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	3.1 25(Fair) Fair	3.1 25(Fair) Good	1.4 75(Good) Good	1.4 75(Good) Good	1.2-3.3 75(Good) Good	1.2-3.3 75(Good) Good	5.3 200 (Excellent) Excellent	5.3 200 (Excellent) Excellent	5.3 200 (Excellent) Excellent	1.5 75(Good) Good	1.5 75(Good) Good	0.5 75(Good) Excellent		
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

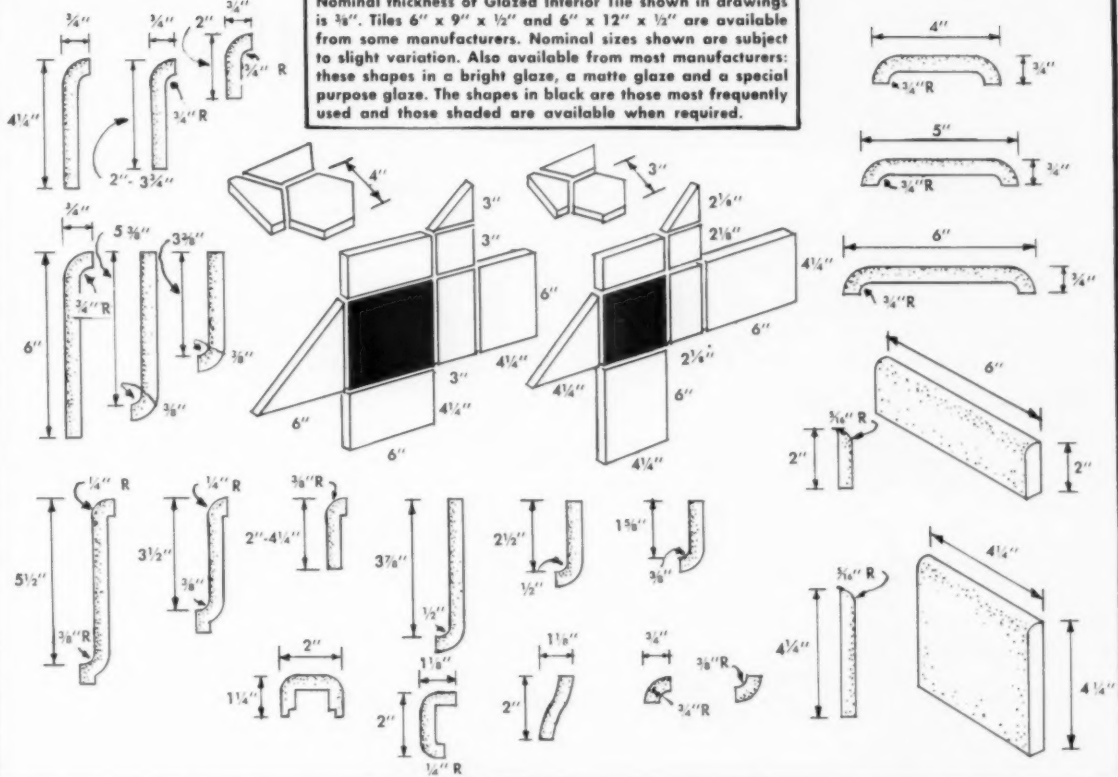


# FLOOR, WALL, CEILING MATERIAL

## Ceramic Tile Standards

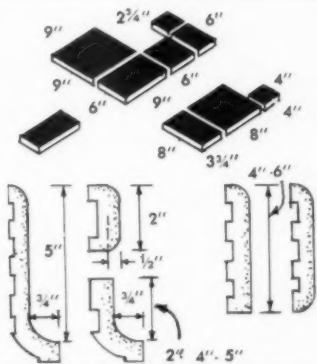
### GLAZED CERAMIC INTERIOR TILE

Nominal thickness of Glazed Interior Tile shown in drawings is  $\frac{3}{8}$ ". Tiles 6" x 9" x  $\frac{1}{2}$ " and 6" x 12" x  $\frac{1}{2}$ " are available from some manufacturers. Nominal sizes shown are subject to slight variation. Also available from most manufacturers: these shapes in a bright glaze, a matte glaze and a special purpose glaze. The shapes in black are those most frequently used and those shaded are available when required.



### QUARRY TILE

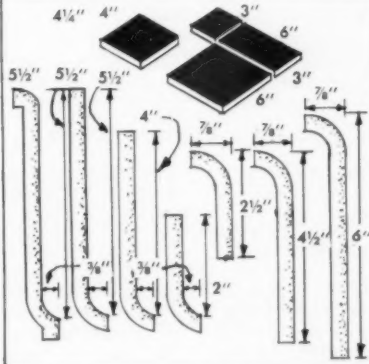
Basic shapes for flat Quarries are shown in black. For the trimmer shapes shown there are complementary corner pieces available. Consult the Tile Contractor if other shapes than those illustrated are required for special conditions. Dimensions shown on the drawings are nominal . . . some slight variation is to be expected in actual measurements. Shapes other than the basic ones shown are available from some manufacturers.



### UNGLAZED CERAMIC MOSAIC TILE

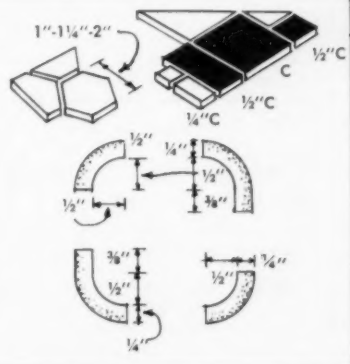
#### PAVER TILE

The basic shapes for flat Paver Tile are shown in black. For the coves and caps there are the complementary corner pieces available. Consult the Tile Contractor if other shapes are required for special conditions. The sizes shown are nominal dimensions and will have a slight tolerance.



### CERAMIC MOSAIC

The series of sizes of Ceramic Mosaic is usually referred to as the 2" or the 1-9/16" series. Actually there are slight variations, according to the practice of manufacturers as follows: C = 2", 2-3/16", 1-9/16" or 1-15/16". Basic shapes are shown in black on the drawing. Pentagon and Octagon shapes are made by some manufacturers. For both Coves and Caps there are complementary corner pieces available.

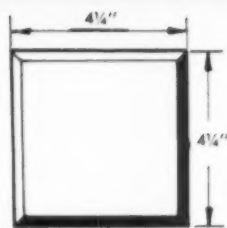


**NOTE:** In the industry today, ceramic tile is set (1) with cement mortar; (2) with organic adhesives, and (3) with cement mortar—using a newly-developed thin-setting bed method. Information on all three methods may be obtained from the Tile Council of America, Inc., 800 Second Ave., New York 17, N. Y.

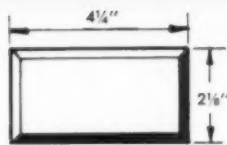
Courtesy Tile Council of America

# FLOOR, WALL, CEILING MATERIAL

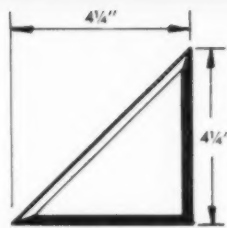
## Plastic Tile Standards



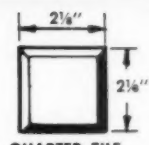
FIELD TILE



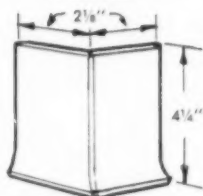
HALF TILE



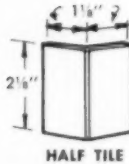
TRIANGLE TILE



QUARTER TILE



COVE-BASE CORNER TILE



HALF TILE



FEATURE CORNER TILE

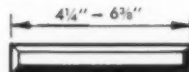


### HALLMARK

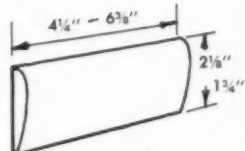
Polystyrene plastic wall tile which carry this hallmark indicate compliance with Commercial Standard 168-50 which includes the following conditions:

**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.

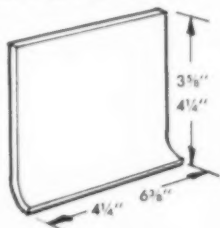
**THICKNESS**—The thickness of the plastic in tile shall be greater than 0.062 in. The lip on the tile shall extend at least 0.033 in. beyond the back of the tile.



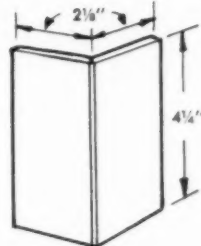
FEATURE TILE



CAP TILE



COVE-BASE 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 1/4"	7	6'-0 1/4"	17	9'-6 3/4"	27	13'-1 1/4"	37	16'-7 1/4"	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 1/2"	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 1/4".

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 4 1/4" cap, base or feature strip required for lineal feet of wall.

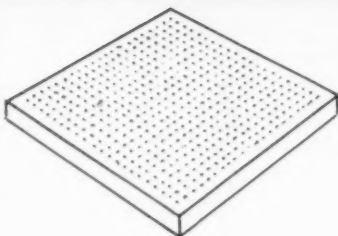
Example: Assume total lineal feet of wall to be tiled to be 48 feet.

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.

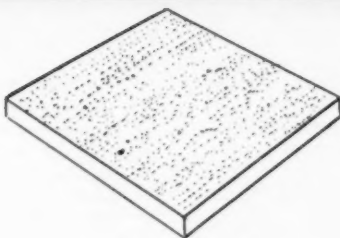
**Mineral Tile:** Are classified Class A Incombustible; are slightly more expensive than cellulose-fiber; are used often when special artistically decorative effects are desired.

**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.

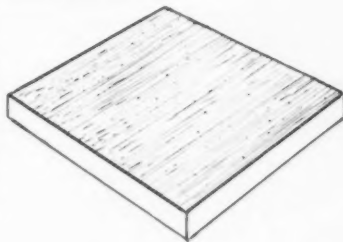
**Glass-Fiber Tile:** Also has an incombustible rating; has good moisture resistance; some tiles have thin plastic membrane covering which makes them washable.

**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



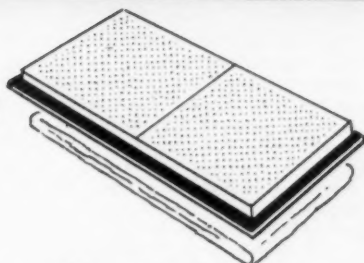
### GLASS-FIBER TILE

**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.

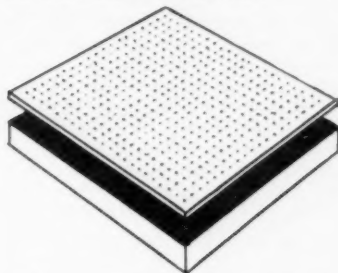
**Nailing:** Wood furring strips, 1" x 3" may be used as a base for nailing or stapling where surface of ceiling is rough. On new work, it is often possible to nail strips directly onto bottom of joists. Nails should be driven beyond surface of tile with nail set; or by mechanical means.

**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.

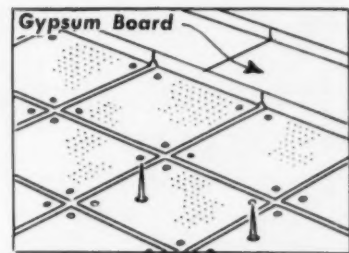
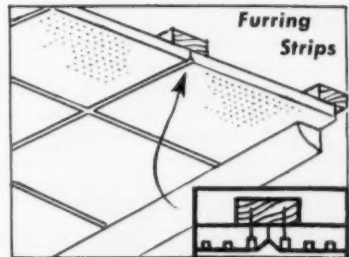
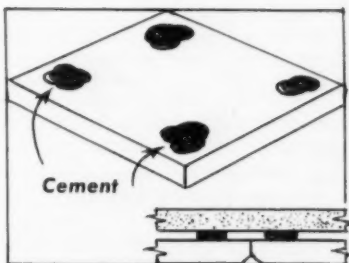
**NOTE:** A fourth method—mechanical suspension—is often used industrially and commercially where special conditions prevail. For information, consult your manufacturer.



### PERFORATED METAL TILE



### PERFORATED ASBESTOS TILE



# FLOOR, WALL, CEILING MATERIAL

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.

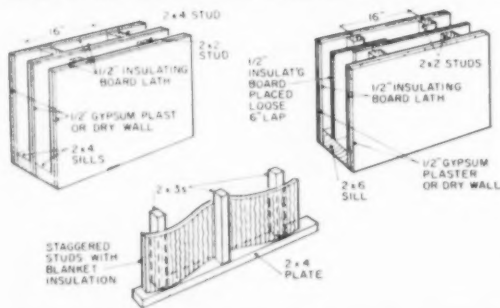
### site

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.

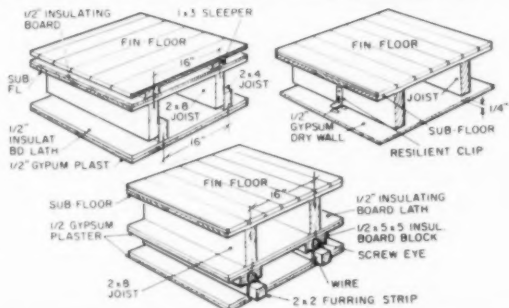
Reduction of vibration-noise transmission is often a problem in houses with warm-air furnaces, year-round air conditioners, and various types of kitchen and laundry appliances, which are fastened to the floor. Special felt, cork, or rubber mounts are available. These can greatly reduce this type of impact 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.

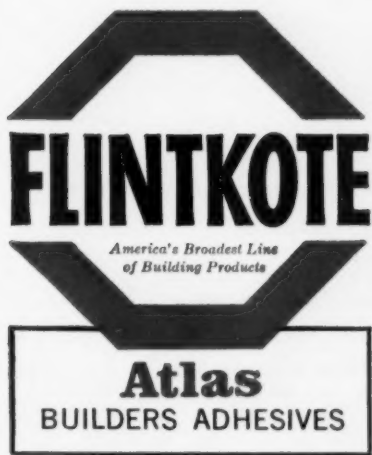




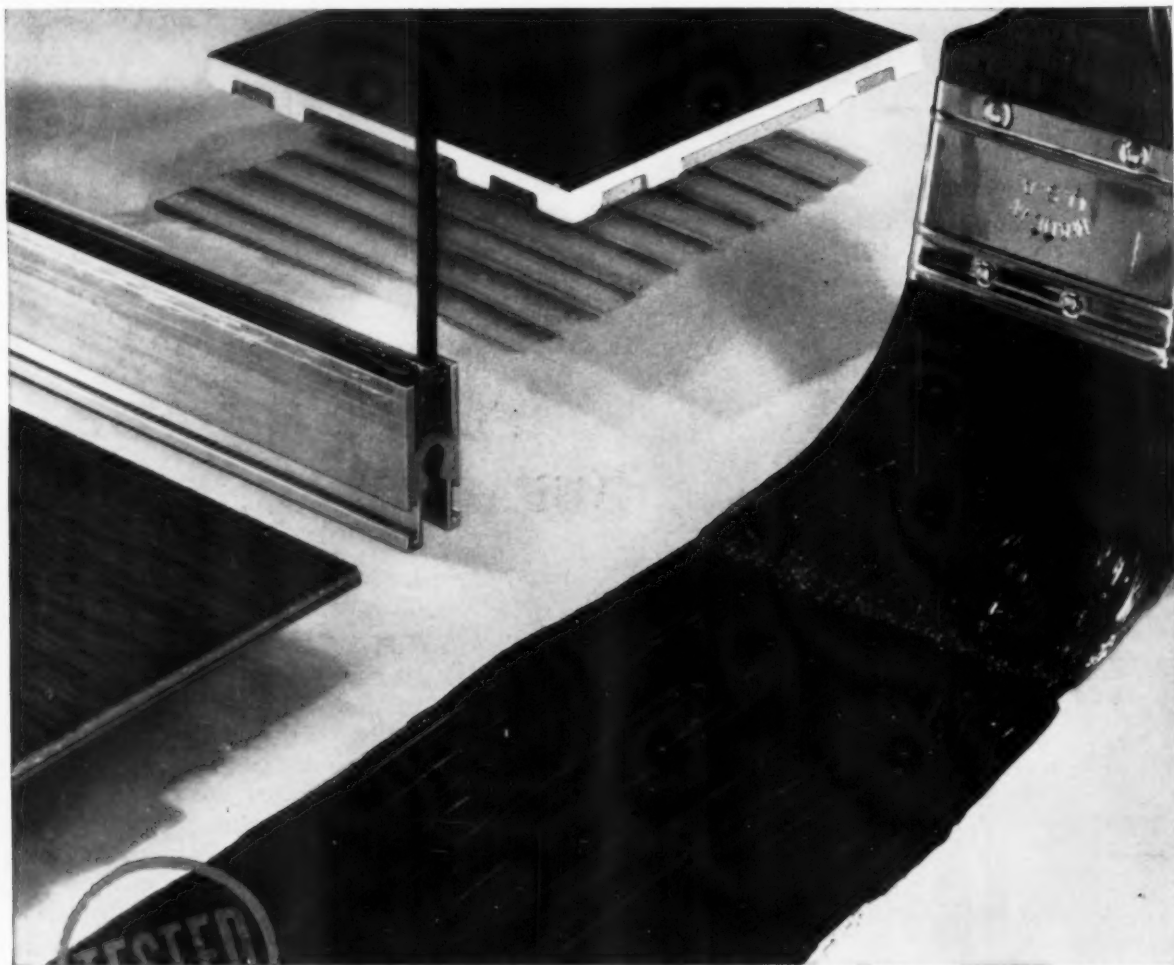
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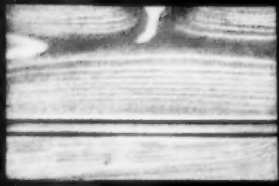
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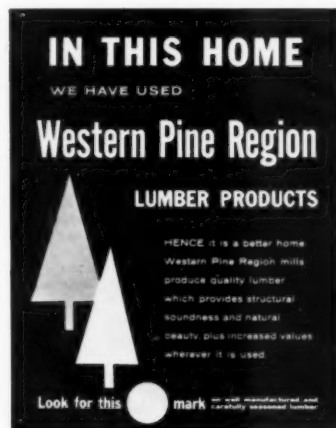
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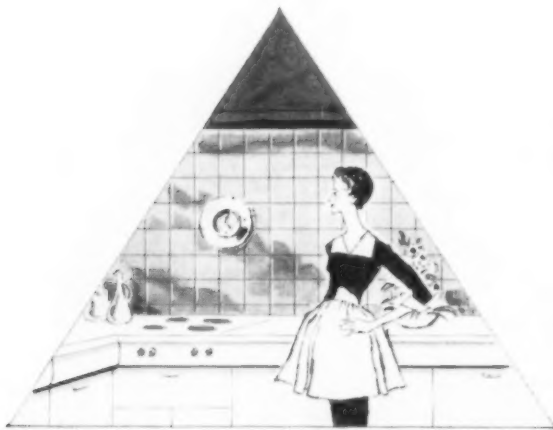
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(Continued from page 282)

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SMOGBMASTER Incineration Div Bowser  
SMOOTH-AIRE Ideal Brass Works Inc  
SMOOTHGRAIN Johns-Manville Corp  
SMOOTHFORM U S Plywood Corp  
SMOOTH-LITE Insulite Div  
SNAP York Wall Paper Co  
SNAPICALK Seal Rite Caulking Co  
SNAPICOIL Wiremold Co  
SNAPIT Cable Electric Products Inc  
SNAP-JOINT Victaulic Co of America  
SNAPLOK Reeves Steel & Mfg Co Div  
SNAP-ON Ideal Brass Works Inc  
SNOW DRIFT United States Gypsum Co  
SNOW WHITE Tamms Industries Co  
S-N-S SHIELDS U S Expansion Bolt Co  
SNUG FIT Paine Co  
SOFSTEP Mastie Tile Div Ruberoid Co  
SNUG-TITE Engineered Products Co  
SOFTITE Wheeling Steel Corp  
SO HARD SCREWS Screw & Bolt Corp  
SOLAR Sunbeam Plastics Corp  
SOLARDOME Klise Mfg Co  
SOLAR LUX Penn Boiler & Burner Mfg  
SOLAR SHADES Superior Window Co  
SOLARGRAY Pittsburgh Plate Glass Co  
SOLEX Pittsburgh Plate Glass Co  
SOLIDEX Pratt & Lambert Inc  
SOLIDOR Farley & Loetscher Mfg Co  
SOLIDWOOD Hardwood Corp of America  
SOLITE Oro Mfg Co  
SOLO-TROC Sterling Faucet Co  
SOLRAY Weil-McLain Co  
SONITE Smooth-On Mfg Co  
SONOAIRODUCT Sonoco Prods Co  
SONOCOR Owens-Corning Fiberglas Corp  
SONOFACED Owens-Corning Fiberglas  
SONOLASTIC Sonneborn L Sons Inc  
SONOMEND Sonneborn L Sons Inc  
SONOPATCH Sonneborn L Sons Inc  
SONOSHEEN Sonneborn L Sons Inc  
SONOTUBE Sonoco Prods Co  
SOUNDBILT Puget Sound Plywood Inc  
SOUND-GUARD Progress Mfg Co Inc  
SOUTHERNER Norman Products Co  
SOUTH-PLY-WOOD Southwood Corp  
SOVEREIGN Miller Co  
S P SUPREME Southern Pine Lumber Co  
SPACEMASTER Lewis-Shepard Prod Inc  
SPACEMASTER New Castle Products Inc  
SPACE-SAVER Mengel Co  
SPACE SAVER DOORS Evergreen States  
SPACE-SAVER GIANT Wood Specialty  
SPACESAVER Payne Co  
SPA-KO-PATCH Tamms Industries Co  
SPAN Howard Mfg Co  
SPANCRETE West Allis Concrete Prods  
SPANDRELITE Pittsburgh Plate Glass

(Continued on page 372)

With new 25" pre-trimmed Fashion, The General Tire & Rubber Company reduces the ultimate cost of using quality vinyl wallcovering. Now the superior elegance, durability and low maintenance advantages of vinyl wallcovering can be extended to every residential, commercial and institutional application. In the latest fashionable colors, rich textured effects and woodgrains, new Fashion offers unsurpassed versatility and long-term economy to the designers of fine interiors. For samples and information

Write or call:

THE GENERAL TIRE & RUBBER COMPANY · Building Materials Division · Akron 9, Ohio

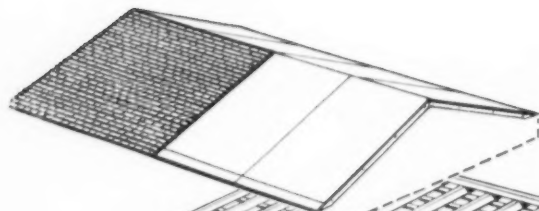
NEW  
*Fashion*<sup>®</sup>

*announcing a completely new concept in quality vinyl wallcovering*



*New-Fashion is color correlated with the new lines of Bolta-Floor vinyl floor tile.*

A PRODUCT OF  
**GENERAL**  
The General Tire & Rubber Company



## SAVE

# 17 days of building time and 15% of building costs with P-B Components

To sell top-quality, custom-built houses — at an adequate profit — you need both speed and economy. Your aim is to increase your production, without increasing your work force.

Translate 17 days into man-hours . . . that's 544 hours for a 4-man crew. On a 5-day week basis, 17 days becomes 23 days of total elapsed time—a saving of almost 13 weeks a year.

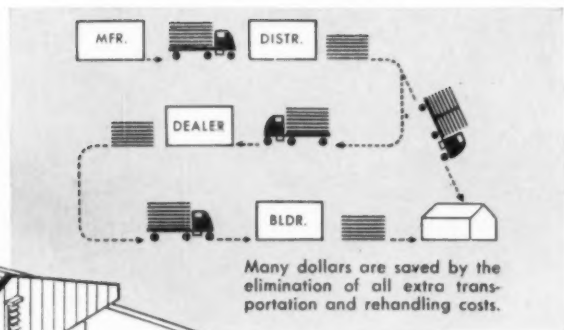
With P-B Components you save this time; you also save 15% of your building costs. Here's why.

We have 24 years' experience in the building of the major house components. No other firm offers comparable experience. All this experience points to one fact . . . the centralized building of Precision-Built House Components — *by the building materials distributor* — cuts costs for everybody. Whatever your volume, you save 15% or better.

When the distributor handles the fabrication, many handling and rehandling costs are eliminated. The component parts come direct from the distributor to your site. Meantime, you are sharing in his far larger volume discounts.

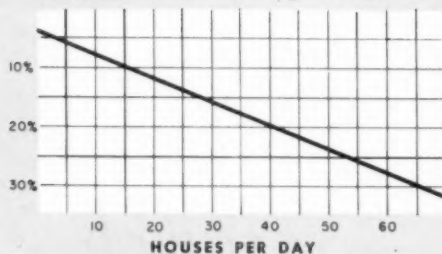
With P-B Components — walls, floors, ceilings, roofs and gables — you build any type or size of house. Every component is custom-built to carry out your plan. This increases your selling strength. *You give the home buyer any house he wants—2 to 4 months sooner than by conventional methods.* You are equipped to compete profitably with every type of prefabricated housing.

P-B floor components, normally in large sections, approximately 100 sq. ft., include joists, headers, insulated under-flooring and factory-finished hardwood flooring. (These panels are covered with a Sisalkraft-type paper as soon as installed.) The exterior wall components



FLOOR, WALL, CEILING, ROOF AND GABLE COMPONENTS — CUSTOM-BUILT FOR ANY SIZE OR TYPE OF HOUSE

COST REDUCTION



This chart shows how costs go down as the centralized production of house components increases.

have either the sheathing and/or exterior finish applied and the finest of all drywall (Homasote) on the interior. The interior partition components come with the same drywall on both sides. Wall components are generally *room size or longer*. Ceiling components combine joists, strapping and Homasote ceiling panels. Roof components are made up of rafters, ridge, eave and insulated sheathing.

The average house is closed in the first day and completed in 1 to 3 weeks. Three weeks' completion means that one crew builds 17 houses per year instead of 6.

You buy your P-B Components through your local lumber dealer. If he does not yet know about this method, ask him to contact us.

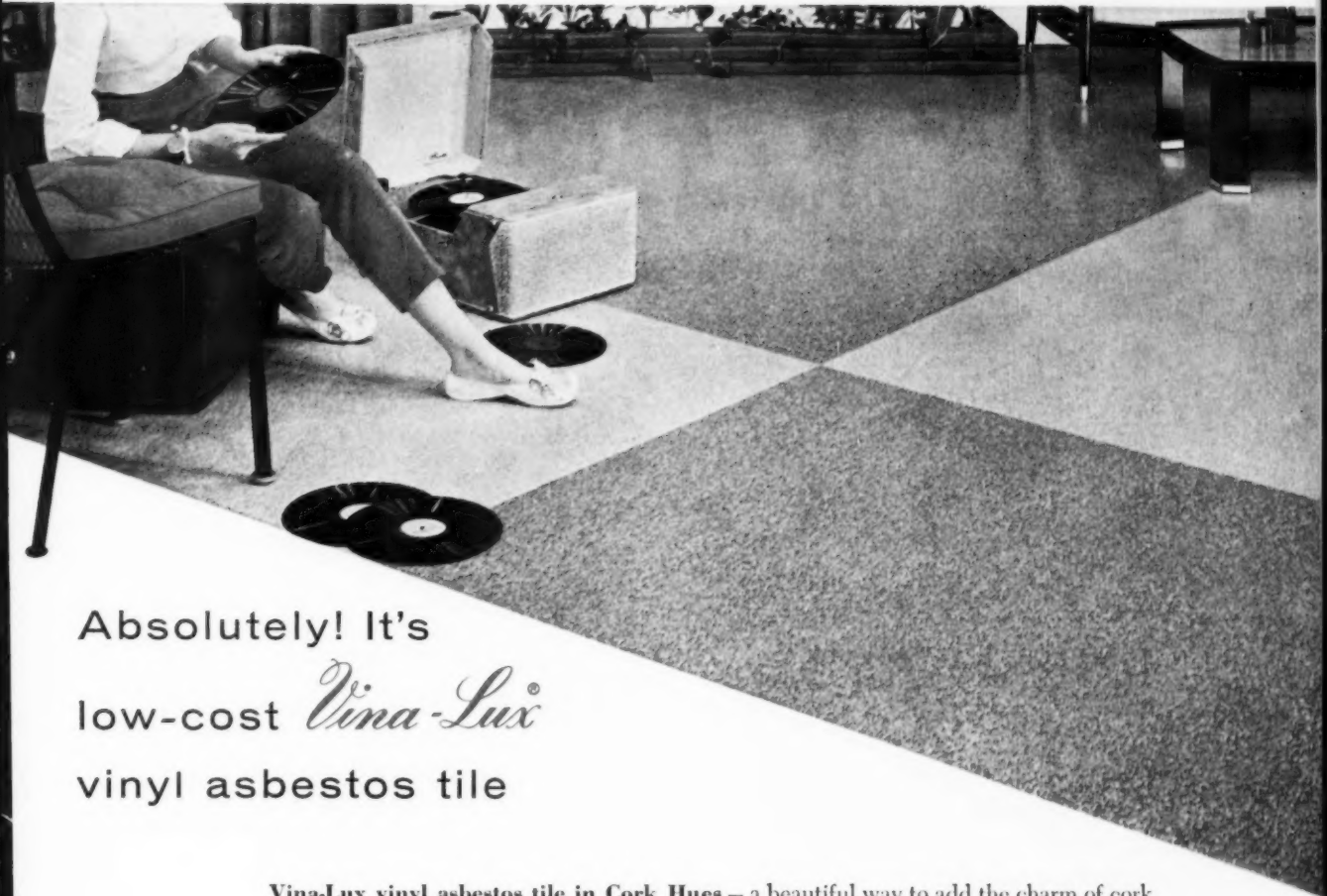
**Stop doing things the slow way!** Make us prove our claims. Let us show you in complete detail just how this plan works for you—in your territory. Write or wire today—to Department D-4.

## HOMASOTE COMPANY

Trenton 3, New Jersey

Homasote of Canada, Ltd., 224 Merton Street, Toronto 7, Ontario

"Sure it looks like cork but can I afford it in my \$12,000 homes?" ...



Absolutely! It's  
low-cost *Vina-Lux*<sup>®</sup>  
vinyl asbestos tile

**Vina-Lux vinyl asbestos tile in Cork Hues** – a beautiful way to add the charm of cork and the value of vinyl to your homes – yet cut floor cost!

**Now you can build more houses for less money**, because Vina-Lux can be installed on or below grade over a concrete slab – today's lowest-cost construction method.

**Vina-Lux national advertising helps pre-sell for you** . . . and free model home merchandising kit, samples and "Vina-Lux Floor Styling Handbook" are yours for the asking. Write Today!

AZROCK FLOOR PRODUCTS DIVISION  
UVALDE ROCK ASPHALT COMPANY  
545A FROST BANK BUILDING • SAN ANTONIO, TEXAS



*Over 50 colors and a style for every builder requirement*

TERRAZZO  
TONES

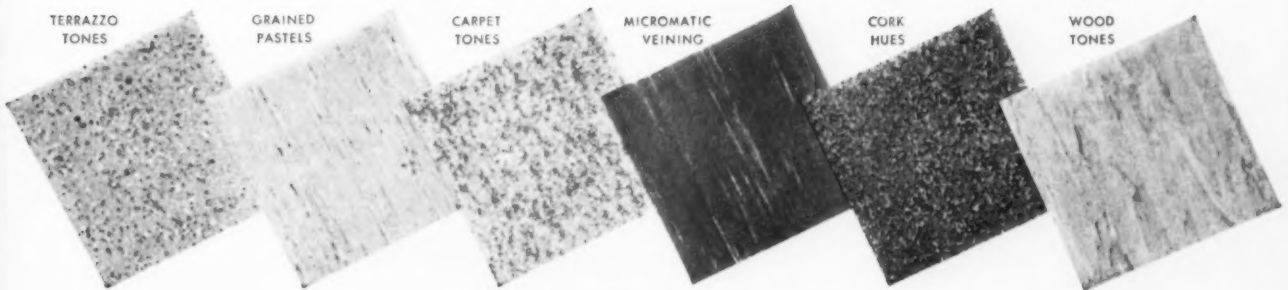
GRAINED  
PASTELS

CARPET  
TONES

MICROMATIC  
VEINING

CORK  
HUES

WOOD  
TONES





Roddis **CRAFTWALL**  
genuine wood paneling  
is "forever"...

*Its beauty is guaranteed for the life of the home*

The difference in cost is only "pennies" a year! Craftwall genuine wood paneling can give your homes quality that *shows*. Like the richness and warmth of this Sherwood Oak installation, now being advertised in *Better Homes and Gardens*.

Craftwall has that special beauty that home buyers are looking for. An authentic hand-rubbed glow that is protected from scuffs, stains and dirt by an exclusive Roddis finish. Craftwall never needs waxing, cleans with a damp cloth.

And Roddis guarantees, *in writing*, that Craftwall wood paneling will stay beautiful as long as the home stands.

Craftwall can give your homes the "touch of luxury" that means faster sales. Send the coupon today for information on all 9 popular Craftwall woods.

*Builders' Craftwall Fact File on request*

**Roddis**  
does  
wonderful things  
with wood

Roddis Plywood Corp., Dept. AB-460, Marshfield, Wisconsin

Please send me the Builders' Fact File on Craft-wall wood paneling.

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Address \_\_\_\_\_  
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# HERE'S A FLOORING FEAT!



A GENUINE *Appalachian Hardwood* TILE

- \* PREFINISHED **Lay Down Profit!**
- \* OPTIMUM STABILITY
- \* ADHESIVE INSTALLATION
- \* GOES DOWN FAST!

This revolutionary floor covering combines for the first time the glowing beauty of genuine Appalachian hardwood with speed and ease of installation. Best of all, these precise six-inch squares have DURA-TEST finish, eliminating costly on-the-job finishing and providing lasting luxury. Installed price compares favorably with lower priced materials, making a longer and faster profit for you!

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FIRM \_\_\_\_\_



**TIBBALS FLOORING COMPANY**  
Dept. AB-1, Oneida, Tenn.





**NEW!**

**MARLITE RANDOM PLANK**...*the finest in prefinished wall panels with the exclusive soilproof baked finish*



DANISH BIRCH



ENGLISH OAK



SWEDISH CHERRY



ITALIAN CHERRY



SWISS WALNUT



AMERICAN WALNUT

The beauty and warmth of Random Plank in these six new Trendwood<sup>®</sup> finishes make interiors more luxurious, more livable. The new Trendwood hues were developed especially for Marlite by the noted color experts, American Color Trends, to complement any decor in any room. This tongued and grooved 1/4" thick paneling is 16" wide and 8' long. It goes up fast over furring strips or existing walls; lowers in-place costs. Ready to use without painting or further protection, plastic-finished Random Plank resists stains, mars and dents. It wipes clean with a damp cloth; stays like new throughout the years. Get complete details on this beautiful "wear without care" paneling from your building materials dealer, Sweet's File, or write Marlite Division of Masonite Corporation, Dover, Ohio.

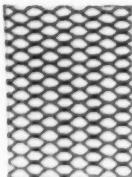
**Marlite**<sup>®</sup>  
*plastic-finished paneling*

ANOTHER QUALITY PRODUCT OF MASONITE<sup>®</sup> RESEARCH

# MILCOR

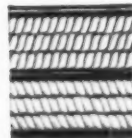
## Metal Lath and Accessories

### METAL LATH



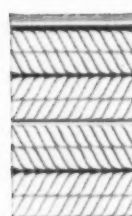
#### SMALMESH METAL LATH

General utility lath in a new design that's 5 ways better. Square, flat, uniform—easier for the contractor to handle and install, easier for you to warehouse. No side camber. SHEET COVERAGE SIZE: 27" x 96". MATERIALS AND WEIGHTS (lbs. per sq. yd.): Copper-bearing steel, painted—2.50, 3.40. Galvanized steel—3.40. PACKING: 10 sheets (20 sq. yds.) per bundle. All sheets squared on both ends.



#### SPECIALMESH METAL LATH

Improved design. Flat-rib lath for interior walls and ceilings. Saves plaster, provides excellent bond. Well suited to two-coat work or back-plastering. Longitudinal stiffening ribs are 5/16" wide, spaced 1 1/2" on centers. Cross-ribs at 1/4" intervals, reinforced by stiffening members (two between each pair of ribs). SHEET COVERAGE SIZE: 27" x 96". MATERIALS AND WEIGHTS (lbs. per sq. yd.): Copper-bearing steel, painted—2.75, 3.40. PACKING: 10 sheets (20 sq. yds.) per bundle. All sheets squared on both ends.



#### NEW! 27"-WIDE 3/8" STAY-RIB LATH

New design. 27" x 96" coverage plus adequate side and end lap. 13 ribs across width — for greater rigidity as a plaster base or as reinforcement for tight concrete slabs. SHEET SIZE: 27" x 96". MATERIALS AND WEIGHTS (lbs. per sq. yd.): Copper-bearing steel, painted—3.40, 4.00. PACKING: 10 sheets (20 sq. yds.) per bundle. All sheets squared on both ends.

### ACCESS DOORS

#### STYLES A, K, L, M



Provide easy access to utility systems without damage to walls. Spring hinge allows opening to 175°. Number of hinges varies with size of door. Doors are removable. STYLES: Style "A" for acoustical tile. Style "K" for plastered walls — with expansion wings. Style "L" for plastered or non-plastered walls — without expansion wings. Style "M" for masonry, brick, stone, tile, wallboard, etc. SIZES: 8" x 8" to 24" x 36". (Special sizes available upon request.) MATERIALS: Doors, 14-ga. steel (Style "A" door, 18-ga.); frames, 16-ga. steel. Rust-inhibitive, prime coat. PACKING: One per ctn.

#### NEW! FOR ACOUSTICAL TILE OR PLASTER



Produce a virtually concealed installation. Tile or plaster covers recessed door panel so there is no interruption of acoustical surface. Style "A" — for acoustical tile. Style "B" — for acoustical plaster (has casing beads on door panel and frame for plaster protection). SIZES: 12" x 12", 12" x 24", 24" x 24". MATERIAL: Door, 18-ga.; frame, 16-ga. Style "A"—Steel. Style "B"—Ti-Co Galv. Steel. White prime coated painted. PACKING: One per ctn.

#### CLEAN-OUT DOORS



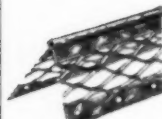
Convenient for removing accumulations of fireplace ashes or chimney debris. Door catch provides positive lock, prevents door from being blown open. Hinge design permits freedom of opening and closing. Wide flanges on frame simplify installations. SIZE: 8" x 8", 12" x 8". MATERIAL: 16-ga. copper-alloy steel, painted. PACKING: 6 per ctn. Shipping weight: 8" x 8" — 15 lbs.; 12" x 8" — 21.5 lbs.

Part of the more than 4,000 Milcor products for the building industry. Write for price lists and catalog No. 202.

## Stocked by Leading Dealers Everywhere

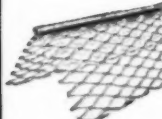
You can assure best quality construction with Milcor products... 57 years of making good products better

### CORNER BEADS



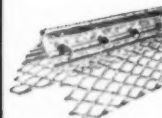
#### NEW! RIGID BEAD CORNER BEAD

Combines the rigidity of solid metal with the positive plaster key of expanded metal. Spring-fit angle hugs tight to corner. Flange anchors securely — compensates for irregular framing. Tube-like nose permits easy splicing. MATERIAL: 26-ga. tight-coat galvanized steel. LENGTHS: 7, 8, 9, 10, 12 ft. WEIGHT (per 1,000 lin. ft.): 160 lbs. PACKING: 7 and 8 ft. — 80 pcs. per ctn. (8 bundles of 10 pcs.); 9, 10, and 12 ft. — 60 pcs. per carton. (6 bundles of 10 pcs.)



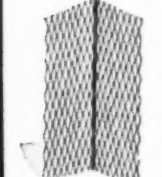
#### No. 1 EXPANSION CORNER BEAD

Wide expanded metal wing integral with nose of the bead — plaster keys right up to the nose. Gives effective plaster reinforcement exactly where needed. MATERIAL: 26-ga. tight-coat galvanized steel. LENGTHS: 7, 8, 9, 10, 12 ft. WEIGHT (per 1,000 lin. ft.): 210 lbs. PACKING: 7 and 8 ft. — 80 pcs. per ctn.; 9, 10, and 12 ft. — 60 pcs. per ctn.



#### SUPER-EX CORNER BEAD

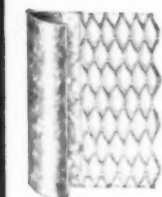
Combines advantages of expansion and solid wing corner beads. Strong, straight nose reinforced by two solid flange sections, strengthened by corrugations. Integral expansion flange makes excellent plaster bond, simplifies erection. MATERIAL: 26-ga. tight-coat galvanized steel. LENGTHS: 7, 8, 9, 10, 12 ft. WEIGHT (per 1,000 lin. ft.): 270 lbs. PACKING: 7 ft.—80 pcs. per ctn., 8 ft.—70 pcs., 9 ft.—60 pcs., 10 and 12 ft.—50 pcs.



#### CORNER-EX

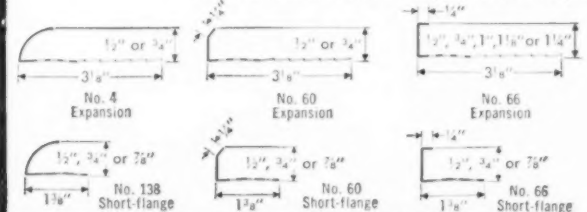
Finished-edge corner reinforcement for inside corners. Accurately pre-shaped to 105° angle for snug, spring fit in a normal 90° corner. Center stiffener helps maintain correct angle and shape—guides Corner-Ex accurately into corner. MATERIAL: Copper-bearing steel, painted. SIZES: 2" x 2" x 96", 3" x 3" x 96". WEIGHT (per 1,000 lin. ft.): 2"—100 lbs., 3"—140 lbs. PACKING: 75 pcs. per ctn. (3 bundles of 25 pcs.)

### CASING BEADS



#### EXPANSION AND SHORT FLANGE TYPES

Create neat flush frame for doors, windows and other openings. Nos. 60 & 66 used extensively as terminals for plaster at points where plastered surface joins non-plastered surface. MATERIAL: 24 gauge Ti-Co Galvanized Steel. LENGTHS AND GROUNDS: 7-ft. and 10-ft. lengths. 1/2" and 3/4" grounds. Short flange only also made for 7/8" grounds. No. 66 Expansion also made for 1", 1 1/8" and 1 1/4" grounds for acoustical plasters. WEIGHTS: (per 1,000 lin. ft.): No. 4 Exp. — 280 lbs.; No. 60 Exp. — 245 lbs.; No. 66 Exp. (1/2" and 3/4" grds.) — 265 lbs.; No. 66 Exp. (1", 1 1/8" and 1 1/4" grds.) — 310 lbs.; No. 60 S.F. — 200 lbs.; No. 66 S.F. — 210 lbs.; No. 138 S.F. — 235 lbs. PACKING: (per ctn.): 7-ft. — 80 pcs.; 10-ft. — 60 pcs.



## INLAND STEEL PRODUCTS COMPANY

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BALTIMORE, BUFFALO, CHICAGO, CINCINNATI, CLEVELAND, DETROIT, KANSAS CITY, LOS ANGELES, MILWAUKEE, MINNEAPOLIS, NEW ORLEANS, NEW YORK, ST. LOUIS.



the  
right  
flair...  
everywhere

Whatever the application, flair adds interest. And the right flair makes more sales. Everywhere quality is called for, you'll find an incomparable richness in Poly-Clad Plywall—at half the cost!

As to beauty, you've twelve handsome wood grain finishes to assure the right touch for every taste. And all are guaranteed against fading—in writing . . . Poly-Clad protected to resist mars, scuffs, stains.

And that's not all! Now—you have Poly-Clad Plywall matching moldings—prefinished—ready to go right up. Nine styles and twelve matching finishes.

Add the right flair—everywhere—with Poly-Clad Plywall wood paneling.



Antique Cherry

Ranch Oak



Honey Birch

Rock Maple



Sierra Oak

Blonde Walnut



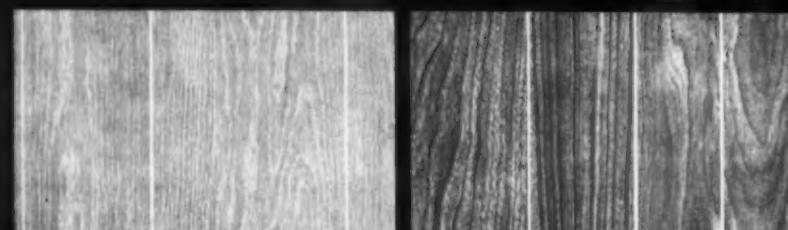
Swiss Walnut

English Walnut



Williamsburg Cherry

Mojave Oak



White Oak

Salem Cherry

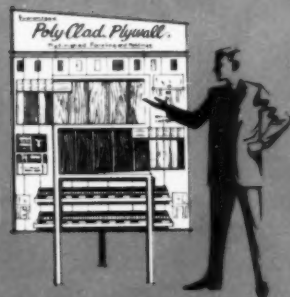
the  
right  
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every time!

# POLY-CLAD® Plywall

Whenever—wherever—paneling is proposed, you can combine beauty and quality with Poly-Clad Plywall—at less cost! There's an outstanding panel that's right for every purpose—living, dining, family rooms, basements, dens. Exceptional Poly-Clad protects the finish—preserves the richness—for years of care-free family living.

And Poly-Clad Plywall wood paneling is ready to go up! Prefinished. Guaranteed against delamination and structural defects. *The only paneling guaranteed against fading—in writing.* Matching moldings cut costs even more—to make this your most profitable paneling package.

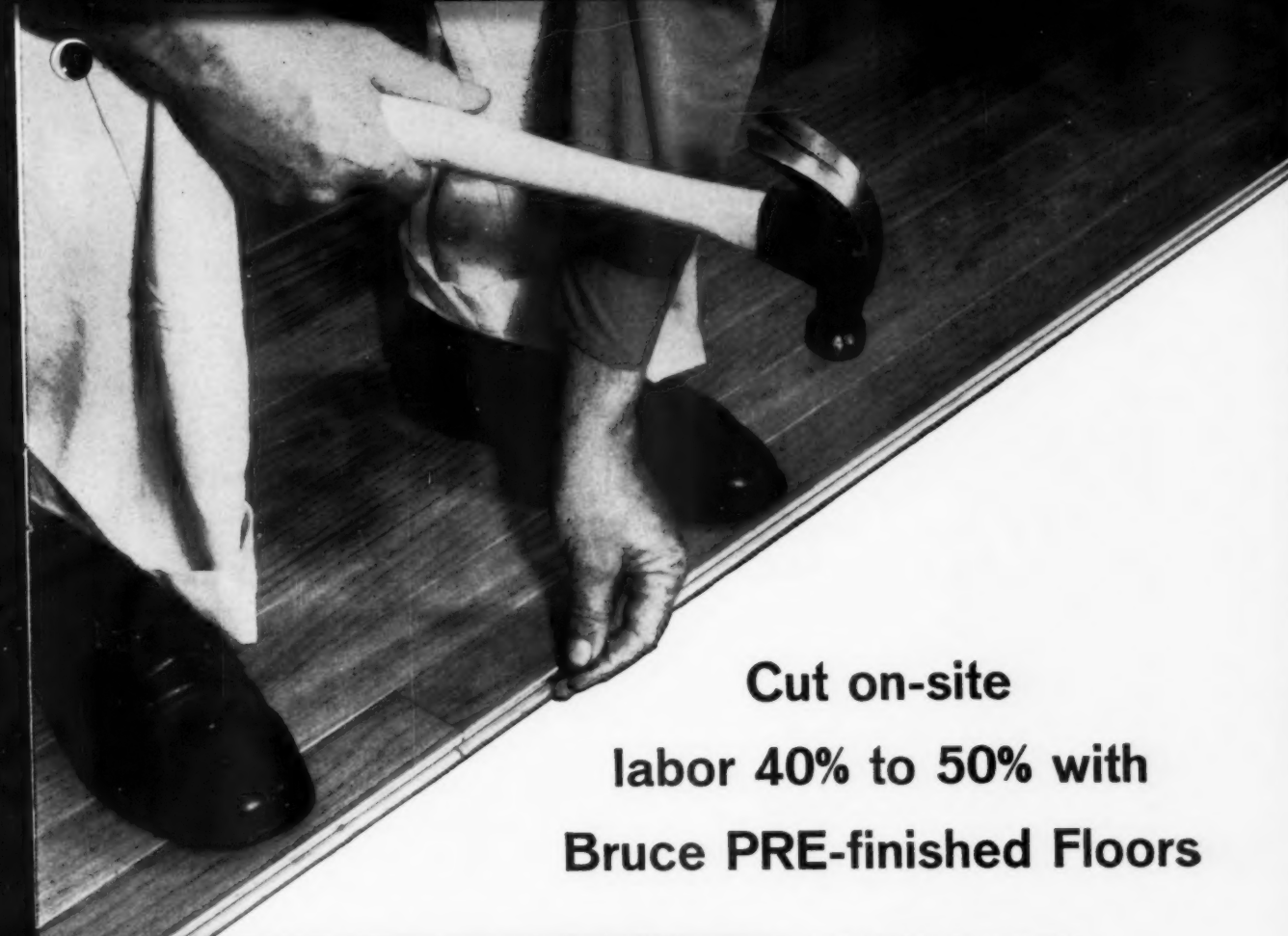
More and more builders say: "Poly-Clad Plywall is the right choice—the best choice—for every paneling need!" See for yourself. Let your dealer show you how this unusual product fits your building requirements—gives you more quality at less cost—everywhere, every time.



Available in 4' x 7', 4' x 8', 4' x 10' panels. V-grooved on 16" centers or plain.

**Plywall Products Company, Inc.**

Fort Wayne, Indiana / Corona, California



**Cut on-site**  
**labor 40% to 50% with**  
**Bruce PRE-finished Floors**

**YOU ELIMINATE ALL THESE OPERATIONS**



**SANDING**  
(3 cuts)



**APPLYING FINISH and FILLER**  
(2 or 3 operations)



**WAXING and BUFFING**  
(2 operations)

**ADDED TIME SAVED:**

No slowing down  
 work of other trades.  
 No waiting for  
 finishes to dry.

**HOMEOWNERS LIKE THE  
 BEAUTY AND DURABILITY OF  
 BRUCE PRE-FINISHED FLOORS**

The factory-applied Bruce Finish brings out the full beauty of Oak and keeps floors looking new year after year. Tests show this superior finish will outlast surface finishes 3-to-1 because it's baked into the wood. Durability has been proven in half-a-million homes.

Surveys show home buyers prefer Bruce Flooring by a wide margin over all other brands. This results from dependable quality and consistent advertising in leading national magazines. Builders find it pays to feature Bruce PRE-finished Oak Floors in their homes.

*For complete information write:*



**E. L. BRUCE CO.**  
 1648 Thomas Street  
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**Bruce PRE-finished Floors**  
*Used in over half-a-million homes*

**Whatever the job you're working on...**

**Size**

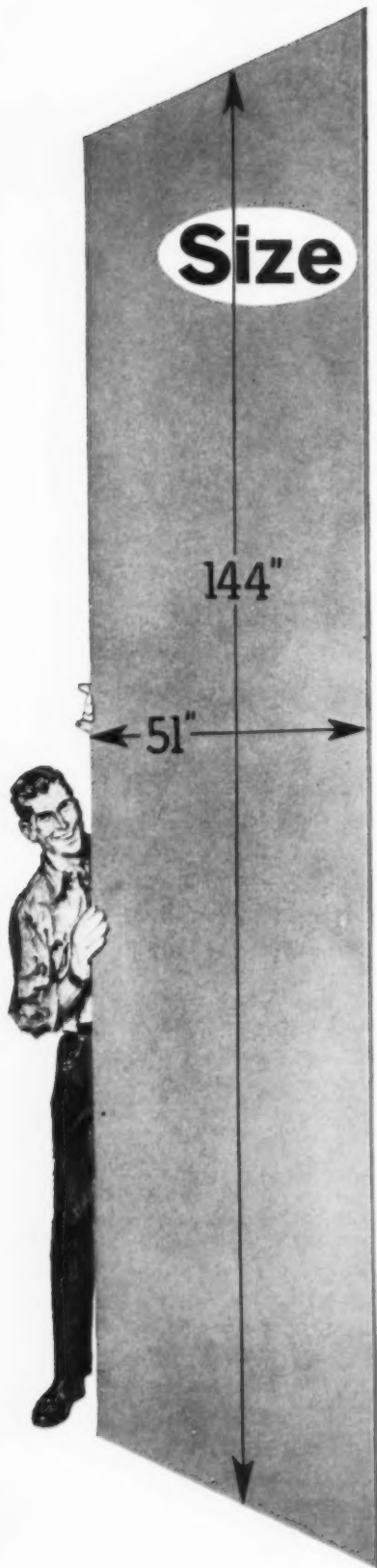
# is no problem with **CONSOWELD** Laminated Plastic

**Consoweld's giant-size panels and cutting program offer you the broadest range of sizes in the industry!**

Consoweld can fully meet your laminated plastic requirements with an absolute minimum of waste. Two things make this possible. First, the Consoweld distributor has a master manufacturing inventory of large-size panels (up to 51" x 144" for patterns and woodgrains; up to 60" x 144" in solid colors). Secondly, he has a carefully thought out cutting program designed to supply your needs for smaller sizes.

You get prompt service without being forced to buy more than your job requirements indicate. And, it is important to note that you get a greater selection of sizes from Consoweld than from any other source.

Have your dealer or fabricator contact your Consoweld distributor for complete details of the wide range of Consoweld panel sizes that are available.



Look under Plastics in the Yellow Pages of your telephone directory.



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I'm interested in using Consoweld's laminated plastic products.  
Please send me name of my nearest distributor for dealer contact.

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CITY & ZONE \_\_\_\_\_ STATE \_\_\_\_\_



# POMONA'S CUSTOM-LOOK SELLS HER!!!!

## FOR ONLY A FEW DOLLARS MORE

her home different...helps to sell her faster, easier. You can have this "custom-look" for only a few dollars more...here's how... Simply include a few of Pomona's new Sculptured or Designer Tiles (usually seen only in more expensive homes) in a field of economical standard tiles as seen above. Because Pomona has the most extensive selection of designs and colors, this custom-look can be achieved in large tracts with no two installations alike. A new illustrated Idea Booklet for the Builder outlines the Custom-look Program and other Pomona Sales Aids in detail. Ask your Pomona representative for a copy or mail the coupon below today.

...And with the "lady of the house" Pomona's new "custom-look" in ceramic tile adds the fresh, unique appeal that makes

"Diamond!" Distinguished Designer tile by Saul Bass.

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Please send your illustrated brochure on the "Custom Look in Tile" (No. AB-1)

Please have a representative call on me with full information

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**The most beautiful kitchen of them all...**

- ...is stocked by 55 distributors across the country (see telephone book Yellow Pages)
- ...is built in one of the country's largest plants producing factory finished cabinets
- ...is a product of exceptionally fine engineering both as to construction and finish
- ...is designed for maximum flexibility in kitchen planning and utmost ease of installation
- ...is contributing importantly to the sale of new homes in countless localities

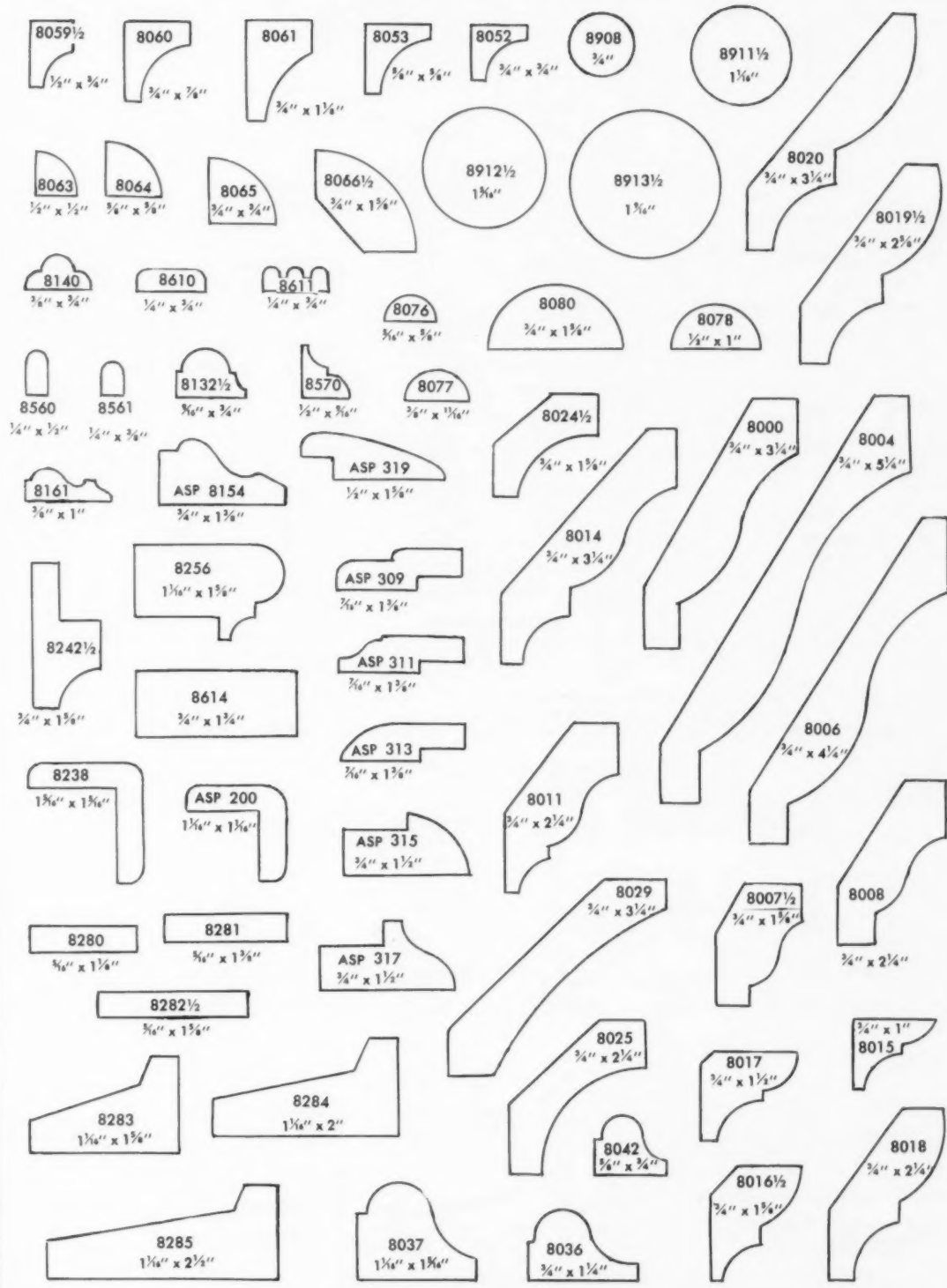


**H. J. SCHEIRICH CO., LOUISVILLE 9, KENTUCKY**



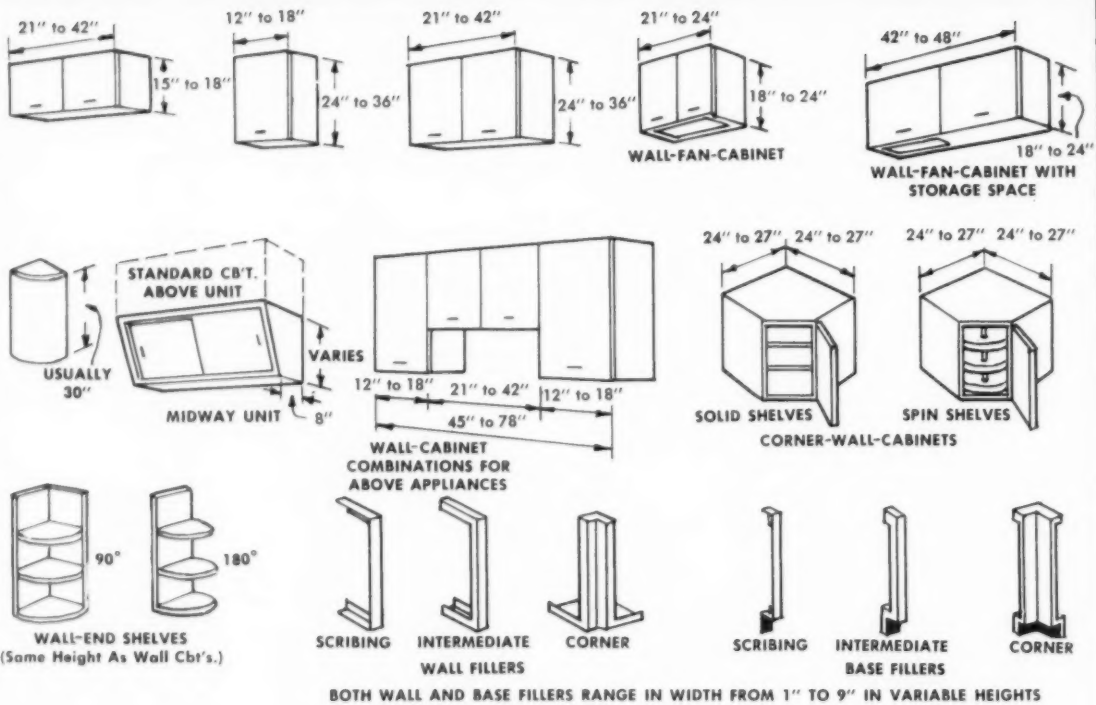
# MILLWORK, CABINETS

## Wood Mouldings—8000 Series

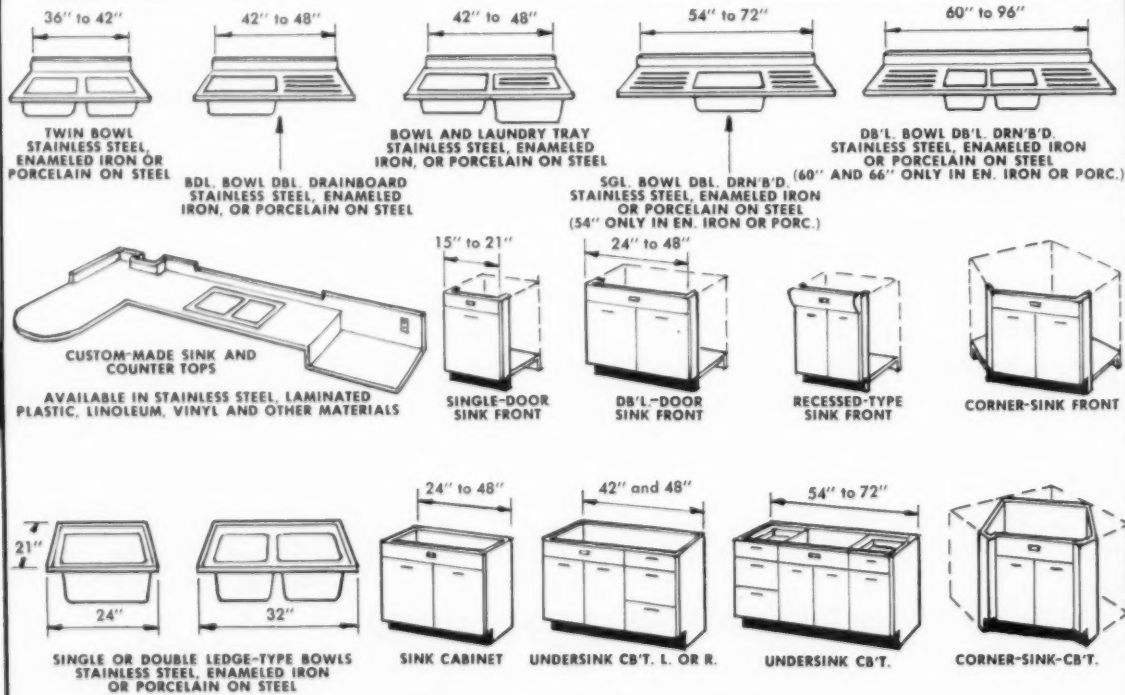


# MILLWORK, CABINETS

## Steel Kitchen Cabinet Standards



### WALL-CABINETS



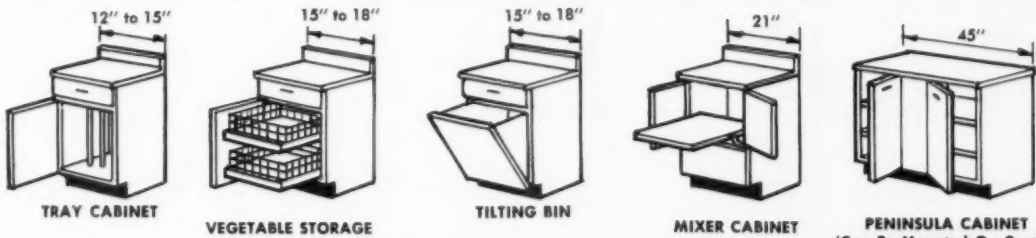
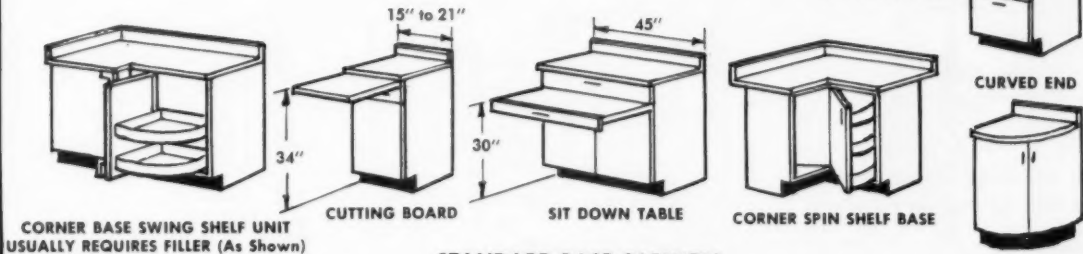
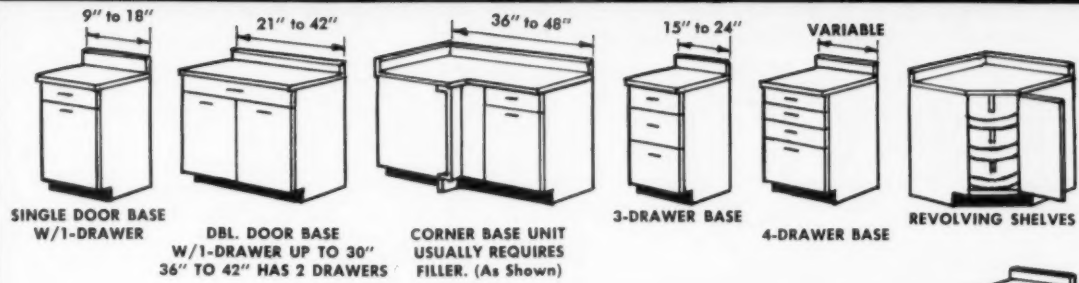
### SINKS AND UNDERSINK CABINETS

Courtesy Steel Kitchen Cabinet Manufacturers Assoc.

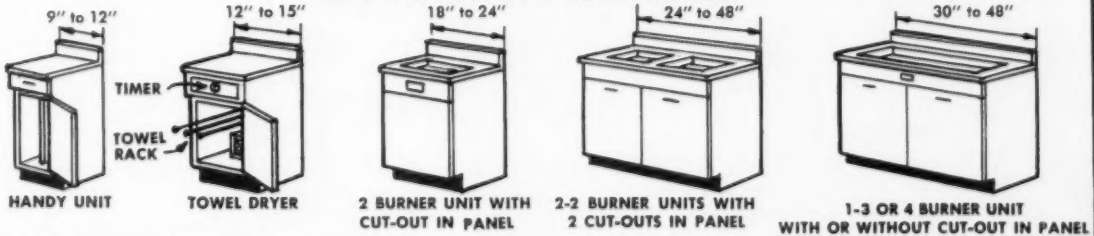
15

# MILLWORK, CABINETS

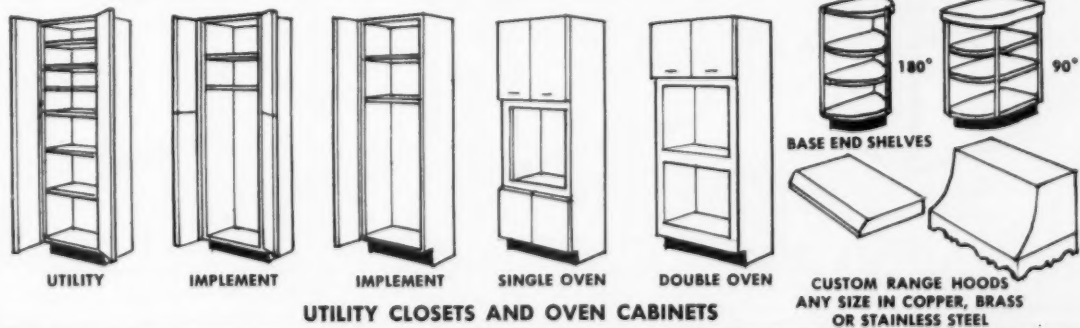
## Steel Kitchen Cabinet Standards



### FITTED BASE AND RANGE UNIT CABINETS



Courtesy Steel Kitchen Cabinet Manufacturers Assoc.

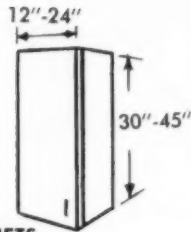
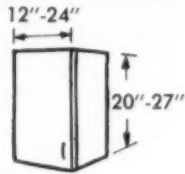
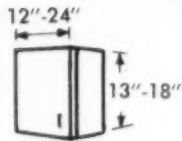


15

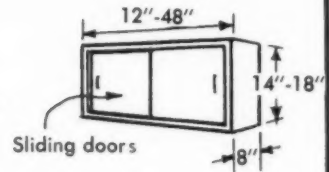
# MILLWORK, CABINETS

## Wood Kitchen Cabinet Standards

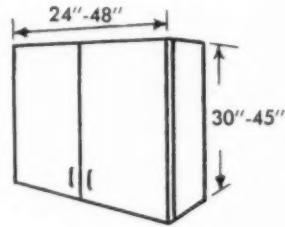
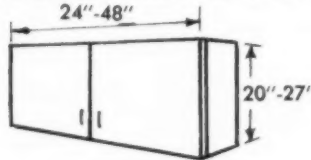
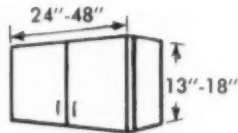
### SINGLE-DOOR WALL CABINETS



### MIDWAY UNIT



### DOUBLE-DOOR WALL CABINETS

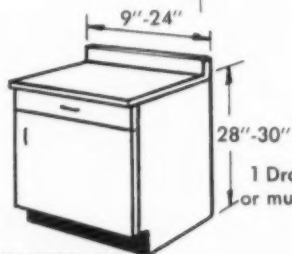
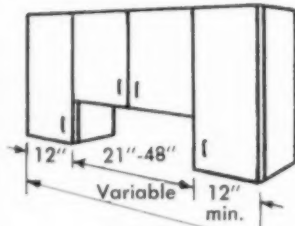


### WALL FILLER

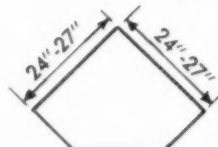
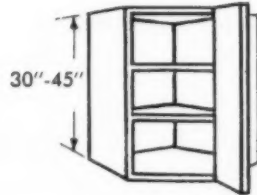


1" or Wider

### WALL-CABINET COMBINATIONS FOR USE ABOVE APPLIANCES

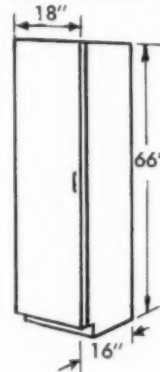


### CORNER WALL CABINET



With solid or spin shelves

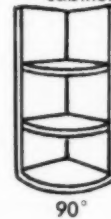
### UTILITY OR BROOM CABINET



### 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.

**NEW CONCEPT IN BUILDER KITCHENS!  
YOUNGSTOWN KITCHENS  
PRESENTS THE ALL-NEW "UNI-PAK"**



**OPEN  
HERE**

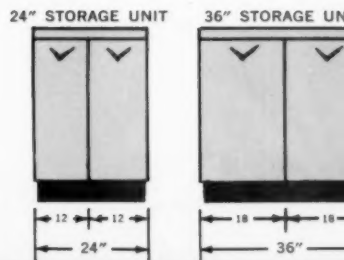
**COMPLETE KITCHEN PACKAGES  
MEAN BIG INSTALLATION SAVINGS!**  
see the full story inside

# ● HOW TO MAKE HUGE SAVINGS WITH YOUNGSTOWN KITCHENS

## NEW "UNI-PAK" BUILDER PACKAGE

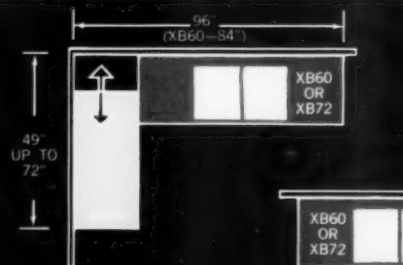
☆ Buy a Package! ☆ Receive a Package! ☆ Install

ORDER FROM THESE  
5 ONE-PACKAGE BUILDER UNITS...



## COMBINE IN ANY WAY TO FIT YOUR KITCHEN PLANS

Drawings at right show the complete flexibility of UNI-PAK units. How UNI-PAK units can be moved flush to walls or away from walls to fit almost any kitchen plan.



A XB48 IN CORNER

B XB36 IN CORNER

## SIMPLIFIED KITCHEN PLANNING

Each "Uni-Pak" sink or storage cabinet unit is a carefully pre-planned "package" which takes the place of separate cabinets you formerly had to plan for yourself. Specifically designed for builders, they're completely flexible, allow for any size kitchen...for turning corners. Choice of right or left hand drawers. Sink bowls and range units can be positioned to meet your own requirements.

"Uni-Pak" kitchens are engineered to save builders time and money. Single "Uni-Pak" units can replace 2 to 4 standard base cabinets. Used in combinations FHA-MPS requirements are fully met. All doors and hardware come completely assembled and mounted. Drawers are built in. All you do is place the units in position.

WRITE...WIRE

AMERICAN-STANDARD, YOUNGSTOWN KITCHENS DIVISION,  
WARREN, OHIO. PHONE: FRANKLYN 4-1581

## GREATER APPEAL

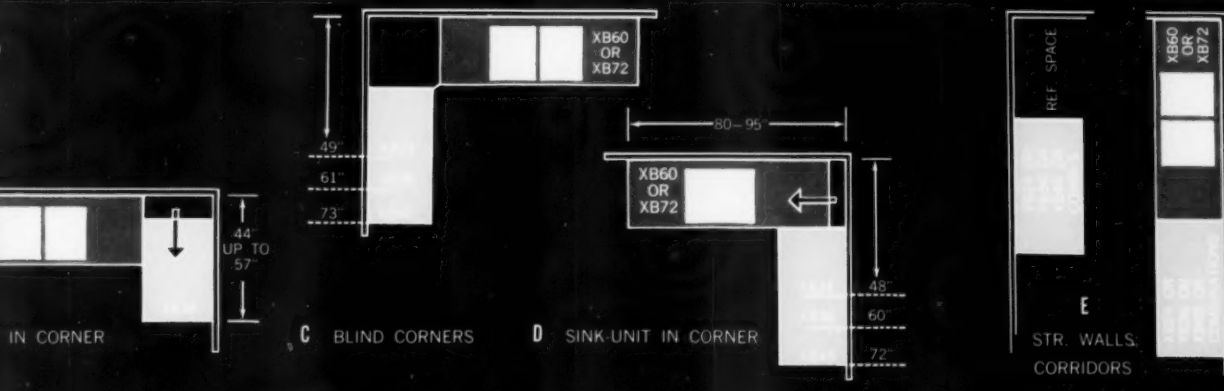
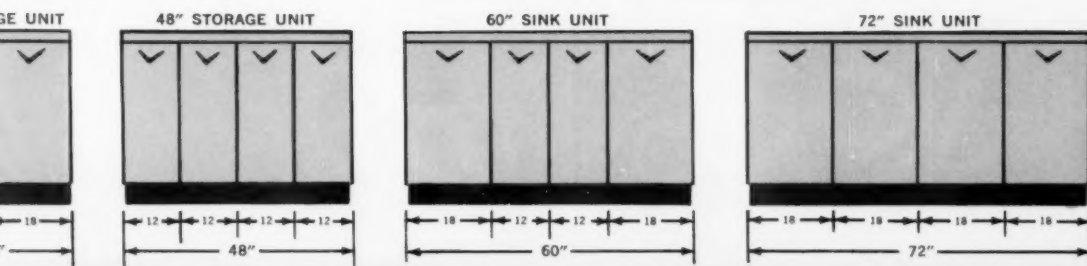
Home-buyers respond fast to new "Uni-Pak" kitchens. Beige, or Youngstown Kitchen, mar-resistant, wood-finish, and wall cabinets or independent units, a "Uni-Pak" kitchen will appeal to your model home.

Find out exactly how to save money. Get in touch with your representative...now.

# IGS ENS

## PACKAGES

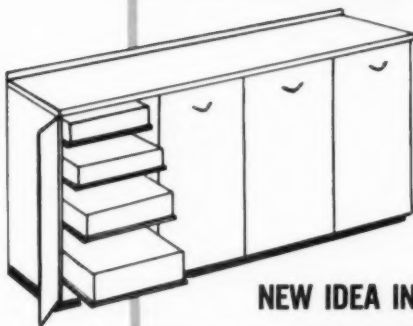
Install a Package! ☆ Save Time and Money!



## APPEAL TO BUYERS

...fast to the quality, built-in look of these  
...ens. Your choice of White, Monterey  
...n Kitchens famous "Honeywood", the  
...ashion laminate. Combined with match-  
...individual Youngstown Kitchens base  
...tchen adds definite value and sales ap-  
...omes.

...w this new "Uni-Pak" idea can save you  
...with your Youngstown Kitchens repre-



Sink units contain 4 drawer sections at left or right side. Modern, quiet pull-out "shelf-drawers" are concealed behind the smartly finished doors. No drawer handles exposed to interrupt the smooth cabinet line. Drawers are easy to lift out for cleaning.

**NEW IDEA IN KITCHEN DRAWERS!**

American-Standard, Youngstown Kitchens Div.  
Builder Information, Box #UP-2, Warren, Ohio

NAME \_\_\_\_\_  
FIRM NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_

# ANOTHER "FIRST" FROM YOUNGSTOWN KITCHENS!

## NEW "DIANA" 24" OVEN-RANGE

### ...THE ONLY BUILT-IN THAT INSTALLS LIKE A BASE CABINET



Today's newest, money-saving oven-range  
with a built-in cabinet look!

- Complete unit matches all Youngstown Kitchens base cabinets...same height, same depth, same width!
- Installs in minutes...saves time, saves work, saves money!
- 4-burner cook top...fingertip heat controls.
- Full oven, nickel-chrome lined, with broiler and baking units.
- Extra storage drawer at bottom.

**New For Builders...** a complete oven-range unit from famous Youngstown Kitchens that you can slide in place as easily as any base cabinet. The new "Diana" eliminates costly extra cabinets needed with conventional built-in ranges and ovens. The "Diana" gives your kitchen the modern built-in look. No cabinets to fasten on walls and break-up your wall space. The "Diana" fits flush with the front of all Youngstown Kitchens base cabinets. Available in White and Monterey Beige steel, Honeywood, Cherrywood, Brushed Chrome or Antique Copper. Get the full story from your Youngstown Kitchens representative.



FITS FLUSH  
NO OLD-FASHIONED  
JUT-OUT RANGE



ELIMINATES  
2 COSTLY CABINETS



## AMERICAN-Standard

YOUNGSTOWN KITCHENS DIVISION



# WHY BUY FROM DEALERS?

## QUALITY PRODUCTS FOR 20 YEARS

Your local dealer will not hesitate to speak of quality in the Precision Stairway Line. He knows that Precision Parts has built its folding stairway business on 20 years of standing behind all products 100%, and giving builders a dependable product. From the "Simplex 85" (the most economical stairway) to the "Precision Electric" (the most luxurious stairway) — all models are guaranteed and are manufactured in Precision's modern plant from the best available materials. Precision Parts Corporation is a family corporation of highest



(30" x 54") SUPER SIMPLEX

integrity — backing up dealers throughout the country with dependable products, parts and service. The nationally-advertised brand-names, PRECISION & SIMPLEX mean quality to your prospective home buyer as well as your local dealer.



ADVANCED "PUSH BUTTON" ELECTRIC STAIRWAY

## 15 MODELS

Through your local dealer, you can choose from 15 Precision & Simplex Folding Attic Stairways. Precision Parts Corporation has led the way in folding stairway development and manufacture for 20 years. Your dealer has a folding attic stairway to suit your needs and specifications. The complete Precision Parts Stairway Line includes 15 different models with wide variations in size and price range for all types of residential and commercial buildings. Contact your local dealer and let him help you choose the Precision or Simplex Attic Stairway that is right for your next job.



ECONOMICAL SIMPLEX "85"

## NATION'S LEADING FOLDING STAIRWAY MANUFACTURER TELLS WHY.

Because the dealer is a local business man, he is directly responsible to you, the builder. He is the first to receive complaints on the quality of products he sells and because his business is built on satisfaction, he must be able to stand behind the product he sells. Your local dealer is ready to back you up with quality products, parts and service. To do business on this basis (and this is the only way he can afford to do business) he must have full confidence in his manufacturer-supplier. He knows that the manufacturer must also stand behind the product and he, therefore, handles a manufacturer's product on the basis of the manufacturer's reliability. We, at Precision Parts Corporation, stand behind the dealer even after the sale is made.

## TRUSS TYPE ROOF NO LONGER STORAGE PROBLEM

Your dealer can now supply you with the NEW SIMPLEX 2' O. C. Folding Stairway for truss



SIMPLEX SPECIAL FOR 2' O.C. TRUSS ROOF

construction. Roof supports no longer prevent the use of an attic stairway to make valuable storage space accessible. Because storage space helps to sell houses, look to your local dealer for the latest, finest Precision Parts Corporation Stairways.

precision Parts Corporation, stand behind the dealer even after the sale is made. Precision Parts' Stairways feature high quality materials, expert workmanship, plus 20 years engineering experience. These things are of direct concern to the dealer if he is to recommend one product over another. So, in summing up, the dealer is as invaluable to you as he is to us. He backs up sales, deals with reliable manufacturers, offers his services, parts and quality products, and, in many cases, helps you to finance your building needs. The dealer is a local business man whose future success in the community depends on satisfying you.

*Paul V. Harmon*  
Paul V. Harmon, Pres.

Precision and Simplex stairways stocked for your convenience by more than 200 Jobbers in leading cities of the U.S.

# PRECISION PARTS CORPORATION

400 NORTH FIRST ST. NASHVILLE, TENNESSEE

## In Kitchen Business' Survey You Asked For

**Long-Bell  
gives you**

*(and has for years)*

- Faster Delivery
- Better Uniformity of Finish
- A Wider Variety of Special Purpose Cabinets

**Fast, Fast Delivery Is Yours** when you order your Kitchen Cabinets from Long-Bell.

Because Long-Bell ships direct from completely stocked distribution points . . . strategically located so close to you it's almost like having stock in your own warehouse.

**A Perfect Finish . . . Everytime!** The new Super Microseal® process is now ap-

plied to all Long-Bell Natural Wood Kitchen Cabinets (set up or knocked down). This revolutionary factory-finishing process gives cabinets the true luster of hand-rubbed wood . . . yet saves you 75% of the completed finishing job. Low-Cost Super Microseal gives Long-Bell Cabinets that Super Satin Surface® . . . needs no additional sanding . . . no primer coat.

© General Plywood Corp.

**These Special Purpose Long-Bell Cabinets can help you plan better kitchens for better profits.**

				
<b>Handy Utility Cabinet</b> ... so much in demand	<b>Kitchen Desks</b> ... "office" for homemakers	<b>Lazy Susan</b> ... every item easy to reach	<b>Condiment Cabinet</b> ... with uni-plane doors	<b>Vegetable Bins</b> ... and tray racks, too
			<p><b>Produced in Volume for Lower Unit Costs</b></p> <p>INTERNATIONAL PAPER COMPANY</p> <p><b>Long-Bell</b></p> <p>DIVISION</p> <p>Kansas City, Mo.      Longview, Wash.</p>	
<b>Elevated Oven Cabinets</b> ... always a perfect fit	<b>Breakfast Bar</b> ... and shelves, too	<b>Food Grinder Mounts</b> ... sit-down breadboards		

Long-Bell Natural Wood Kitchen Cabinets are available in units to fit any kitchen (in 3" modules)  
... Ready to Install or Knocked Down . . . Birch or Rift grain Fir.

# 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	....	2¼"	2
1 x 6 Drop Siding.....		7d siding	30	25	....	2¼"	2
1 x 8 Drop Siding.....		7d siding	23	18	....	2¼"	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	....	2¼"	2
¾ x 12 Bev. Siding.....		7d siding	60	50	....	2¼"	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
1¼" 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	....	1¼"	1
¾ x 2 Flooring, Hard Wood.....		4d casing	11	8	....	1¼"	1
¾ x 1½ Flooring, Hard Wood.....		7d casing	27	20	....	2¼"	1
¾ x 2½ Flooring, Hard Wood.....		7d casing	20	14	....	2¼"	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.

¼" 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 ½ Lb. Total  
8d Finish }

3d Fine Requires 7 Lbs.

1" Staples Requires 12 Lbs.

1¼" No. 12 Hook Head Nails Requires 15 Lbs.

1¼" 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

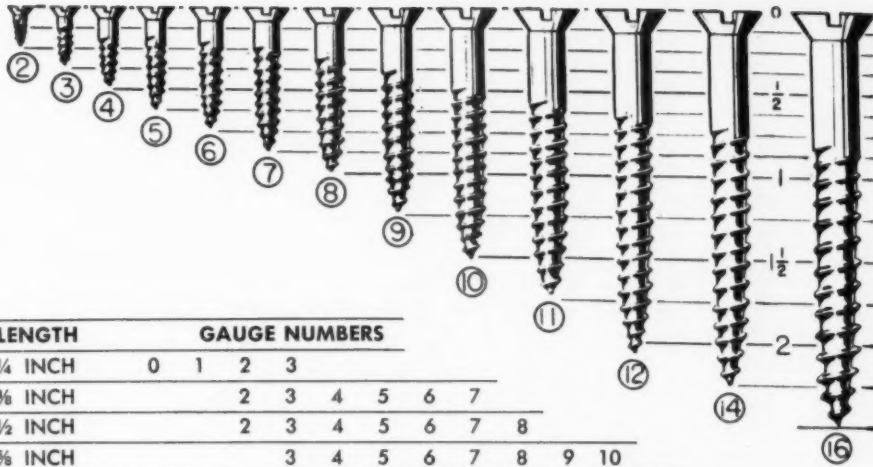
## Aluminum Nails

BUILDING MATERIAL	COVERAGE	LENGTH OF NAIL	TYPE OF NAIL	GAUGE	HEAD SIZE INCHES	NAILS REQUIRED			
						12" CENTERS		16" CENTERS	
						NO.	LBS.	NO.	LBS.
1/4" x 6" Bvl. Sdg.	1000 bd. ft.	1 3/4"	6d Wd. Sdg.—Skr. Hd.	12	3/4	2000	3.3	1500	2.5
3/4" x 8" Bvl. Sdg.	1000 bd. ft.	2 3/4"	7d Wd. Sdg.—Skr. Hd.	11 1/2	3/4	1500	3.2	1125	2.4
3/4" x 8" Bvl. Sdg.	1000 bd. ft.	2 3/4"	8d Wd. Sdg.—Skr. Hd.	10 1/2	3/4	1500	4.7	1125	3.5
3/4" x 8" Bvl. Sdg.	1000 bd. ft.	2 3/4"	10d Wd. Sdg.—Skr. Hd.	9 1/2	3/4	1500	5.1	1125	3.8
1/2" x 6" Bvl. Sdg.	1000 bd. ft.	1 3/4"	6d Wd. Sdg.—Csg. Hd.	12	3/4	2000	3.3	1500	2.5
3/4" x 8" Bvl. Sdg.	1000 bd. ft.	2 3/4"	7d Wd. Sdg.—Csg. Hd.	11 1/2	3/4	1500	3.2	1125	2.4
3/4" x 8" Bvl. Sdg.	1000 bd. ft.	2 3/4"	8d Wd. Sdg.—Csg. Hd.	10 1/2	3/2	1500	4.7	1125	3.5
3/4" x 8" Bvl. Sdg.	1000 bd. ft.	2 3/4"	10d Wd. Sdg.—Csg. Hd.	9 1/2	3/4	1500	5.1	1125	3.8
Cedar Shakes—Single Course	3 squares	1 3/4"	Cedar Shake	13 1/2	3/2	1680	1.3		
Cedar Shakes—Single Course	3 squares	1 3/4"	Cedar Shake	12 1/2	3/2	1680	2.3		
Cedar Shingles (5 in. expos.)	3 squares	1 3/4"	3d Cedar Shingle	14	3/2	3150	2.1		
Asbestos Siding—Face Nlg.	5 squares	1 3/4"	File Grip Asb. Sdg.	.114	.185	900	1.1		
Asbestos Siding—Face Nlg.	5 squares	1 3/4"	File Grip Asb. Sdg.	.114	.215	900	1.3		
Asbestos Siding—Face Nlg.	5 squares	1 3/4"	Asbestos Siding	13	3/4	900	0.7		
Asbestos Siding—Face Nlg.	5 squares	1 3/4"	Asbestos Siding	12 1/2	3/4	900	1.0		
Asbestos Siding—Cncd. Nlg.	5 squares	1 3/4"	Asbestos Siding	11 1/2	3/4	900	1.2		
Asbestos Siding—Cncd. Nlg.	5 squares	1 3/4"	Asbestos Siding	11 1/2	3/4	900	1.3		
Asbestos Siding—Cncd. Nlg.	5 squares	1 3/4"	Asbestos Siding	11 1/2	3/4	900	1.6		
General Purpose		3/4"	Standard Shingle	12 1/2	3/2				
Barn Batts, Joist, Lining, etc.		1 3/4"	3d Standard Shingle	12 1/2	3/2				
Insulating Siding—Light finish for face nailing	5 squares 60 Butt. Crs.	2 " 2 1/2"	Insul. Sdg.—Chk. Hd. Insul. Sdg.—Chk. Hd.	11 1/2 10	3/2 3/2	1680 600	2.4 2.3		
Insulating Siding—Dark finish for mortar joint nailing	60 Butt. Crs. 5 squares	2 1/2" 2 "	Insul. Sdg.—Chk. Hd. Insul. Sdg.—Chk. Hd.	10 11 1/2	3/2 3/2	600 1680	2.3 2.4		
Gypsum Lath	1000 sq. ft.	1 3/4"	Gypsum Lath	12 1/2	3/4	1534	1.6		
Gypsum Lath	1000 sq. ft.	1 3/4"	Gypsum Lath	12 1/2	3/4	1534	1.7		
Gypsum Lath	1000 sq. ft.	1 1/2"	Gypsum Lath	12	3/4	1534	2.1		
Roll Roofing	500 sq. ft.	3/4"	Roofing	10	3/4	860	1.3		
Sq. Tab Shingles	3 squares	1 "	Roofing	10	3/4	980	1.6		
Sq. Tab Shingles	3 squares	1 1/4"	Roofing	10	3/4	980	2.0		
Sq. Tab Shingles	3 squares	1 1/2"	Roofing	10	3/4	980	2.4		
Sq. Tab Shingles	3 squares	1 3/4"	Roofing	10	3/4	980	2.7		
Sq. Tab Shingles	3 squares	2 "	Roofing	10	3/4	980	2.9		
Sq. Tab Shingles	2 squares	2 1/2"	Roofing	10	3/4	650	2.4		
Aluminum Roofing	5 squares	1 3/4"	Rfg. w/w/att. Scr. Gp.	.145	3/4	525	1.8		
Aluminum Roofing	5 squares	2 "	Rfg. w/w/att. Scr. Gp.	.145	3/4	525	2.0		
Aluminum Roofing	10 squares	1 3/4"	Rfg. w/w/att. Scr. Gp.	.145	3/4	1050	3.6		
Aluminum Roofing	10 squares	2 "	Rfg. w/w/att. Scr. Gp.	.145	3/4	1050	4.0		
Aluminum Roofing	10 squares	2 1/2"	Rfg. w/w/att. Scr. Gp.	.145	3/4	1050	4.8		
Aluminum Roofing	10 squares	1 3/4"	Rfg. w/w/att. Pln. Shk.	10	3/4	1050	3.4		
Aluminum Roofing	10 squares	2 "	Rfg. w/w/att. Pln. Shk.	10	3/4	1050	4.0		

**ABBREVIATIONS:** Bvl. Sdg. = Beveled Siding  
 Cncd. Nlg. = Concealed Nailing  
 Scr. Gp. = Screw Grip  
 Pln. Shk. = Plain Shank  
 Wd. Sdg. — Skr. Hd. = Wide Siding — Sinker Head  
 Csg. Hd. = Casing Head  
 Chk. Hd. = Checked Head  
 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	

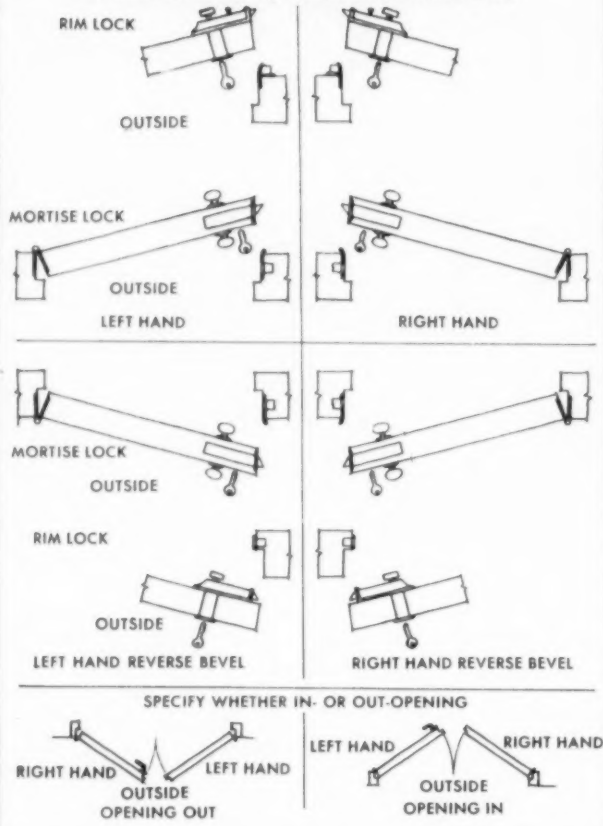
## WOOD SCREW SIZES

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	⅛-	32	.119	52	75		70	
1	.073	⅜-	28	.146	47	71		66	
2	.086	⅜+	26	.172	42	65	75	56	70
3	.099	⅝+	24	.199	37	58	71	54	66
4	.112	⅝+	22	.225	32	55	65	52	56
5	.125	⅝-	20	.252	30	53	58	49	54
6	.138	⅝-	18	.279	27	52	55	47	52
7	.151	⅝-	16	.305	22	51	53	44	49
8	.164	⅝+	15	.332	18	48	52	40	47
9	.177	⅞+	14	.358	14	45	51	37	44
10	.190	⅞+	13	.385	10	43	48	33	40
11	.203	⅞-	12	.411	4	40	45	31	37
12	.216	⅞-	11	.438	2	38	43	30	33
14	.242	⅞+	10	.491	D	32	40	25	31
16	.268	⅞+	9	.544	I	29	38	18	30
18	.294	⅞-	8	.597	N	26	32	13	25
20	.320	⅞-	8	.650	P	19	29	4	18
24	.372	⅞-	7	.756	V	15	26	1	13

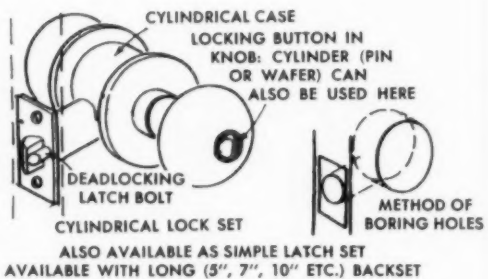
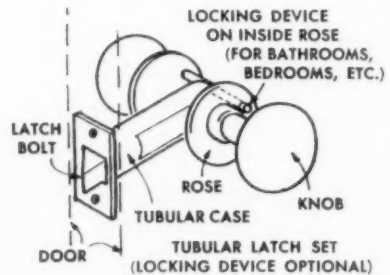
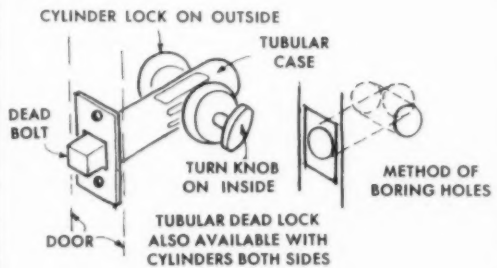
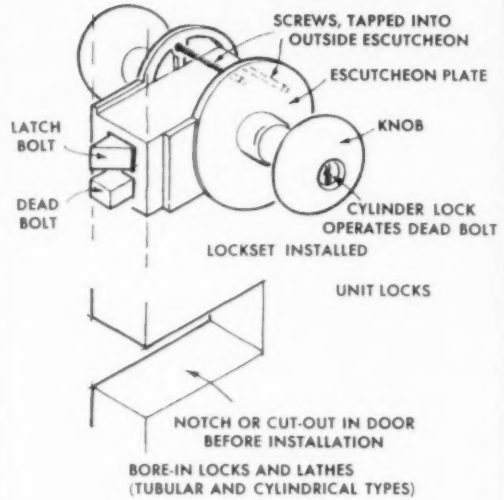
# HARDWARE, BUILDING SPECIALTIES

## Hardware Details

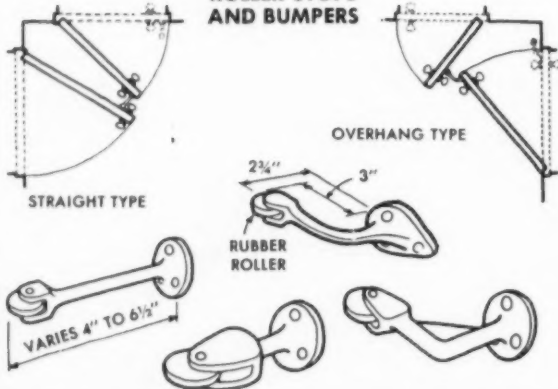
### HAND OF DOORS, CASEMENT WINDOWS



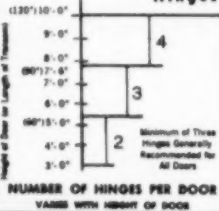
### TYPES OF LOCKS AND LATCHES



### ROLLER STOPS AND BUMPERS



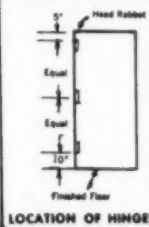
### Hinges

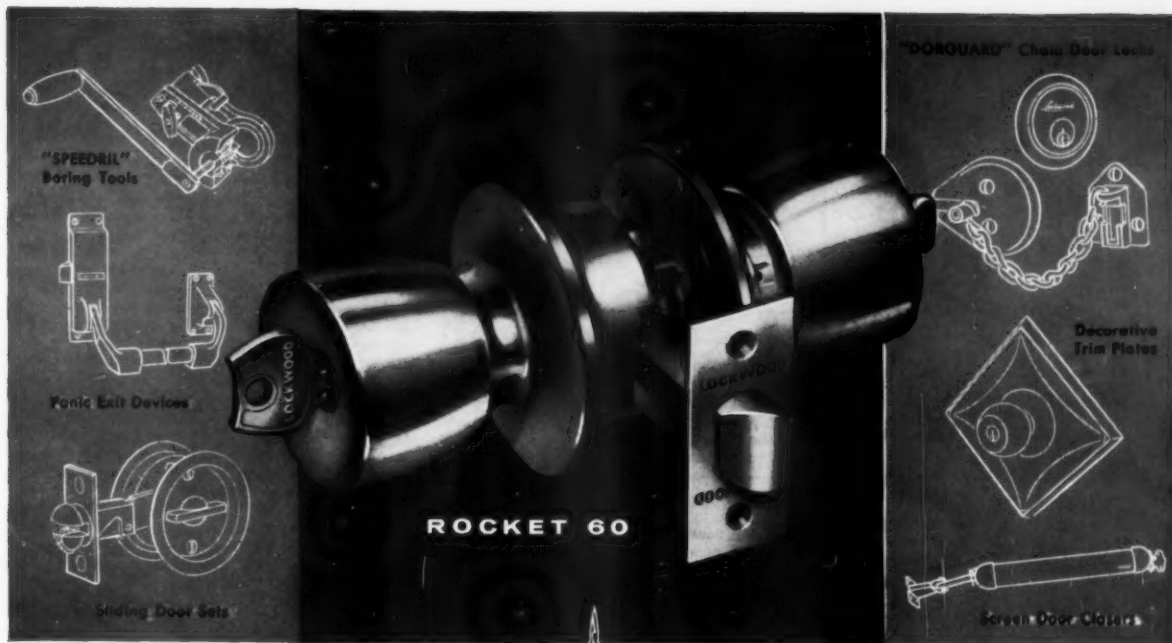


### HOW TO SPECIFY HINGES

Number in Pairs - Either Ball or Cone Bearings (if Required) - Type of Tip - 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





Ride with  
**LOCKWOOD**  
 in '60

Night Latches

"REMODELOR"  
Replacement Sets

Screen Door Locks

# ROCKET

**America's Finest Low-Cost Residential Lockset...**

In any competition there is always one stand-out. In low-cost residential locksets it's LOCKWOOD... because only in Lockwood ROCKET 60 will you get *every one* of these important features:

- **EXTRA STRENGTH**—knobs are fully reinforced
- **EXTRA SECURITY**—bolt has extra long throw
- **ENDURING SECURITY**—solid brass 5-pin cylinder
- **STEEL MECHANISM**—case hardened retractors
- **CONCEALED THRU-BOLTS**—piloted bolt sleeves
- **SELF-ADJUSTING**—equalized knob projection
- **PANIC PROOF**—inside knob is never locked
- **FRICTION-FREE NYLON BOLTS** for interior door locks and latches

Tubular Dead Locks

Decorative Trim Plates

Ball Bearing Closers

**LOCKWOOD HARDWARE MANUFACTURING CO., FITCHBURG, MASS.**



# 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



The world's most complete line of ventilating louvers . . .

# LoManCo



*153 different sizes and shapes!*

**IN ALUMINUM AND GALVANIZED**

**with more Builder Benefits!**

LoManCo Louvers meet the new FHA Revised Minimum Property Requirements

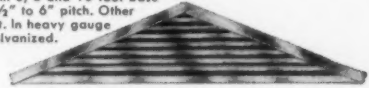
**LoManCo VARI-PITCH and JUMBO VARI-PITCH LOUVERS**

10 models and sizes, 4-12 thru 12-12 pitch. The original patented adjustable triangular louver. In heavy gauge aluminum only.



**LoManCo JUMBO STATIONARY LOUVERS**

15 models . . . in 6, 8 and 10 foot base lengths from 2 1/2" to 6" pitch. Other sizes on request. In heavy gauge aluminum or galvanized.



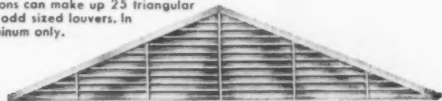
**LoManCo TWIN-SECTION JUMBO LOUVERS**

14 models . . . in 6, 8, 10 and 12 foot base lengths from 2 1/2" to 5" pitch. Other sizes on request. Available in aluminum or galvanized.



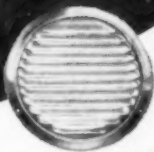
**LoManCo MULTI-SECTIONAL LOUVERS**

A new concept in louvers . . . 8 basic sections can make up 25 triangular and odd sized louvers. In aluminum only.



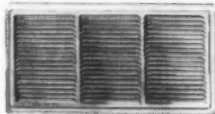
**LoManCo CIRCULAR CORNICE VENTS**

New design in cornice vents . . . eight inches in diameter, 8 x 8 mesh screen installed . . . fast, easy to install. In heavy gauge aluminum only.



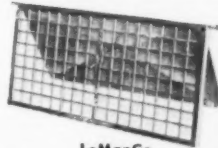
**LoManCo RECTANGULAR CORNICE VENTS**

One-piece cornice ventilator with 8 x 8 mesh screen installed. Available in three standard sizes. In heavy gauge aluminum or galvanized.



**LoManCo FOUNDATION VENTILATORS**

Die cast aluminum alloy ventilator grate with optional 8 x 8 mesh screen and shutters with lever for opening and closing. 4 models.

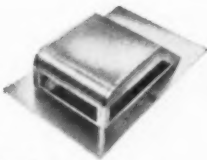


**LoManCo CIRK-L-VENTS**

- Model L-38 louver . . . 3" size.
- Model C-25 open end louver . . . 3" size.
- Model P-18 anti paint peelers . . . 1" size.
- Model D-16 rain drains . . . 1" size.

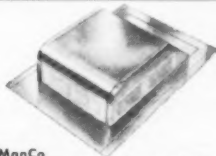
**LoManCo ROOF-LINE LOUVERS**

3 models and sizes . . . three sides open for more ventilation . . . 8 x 8 mesh screen on the outside. In aluminum or galvanized.



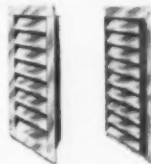
**LoManCo EXHAUST FAN VENT-HOOD**

A new combination ventilator and roof jack, perfect for use with powered kitchen and bathroom exhaust fans. Rust-proof aluminum construction, unique clutter-proof back draft damper, louvered roof hood for extra weather protection, elimination of clogged screens. Seamless one piece bottom to prevent water leakage.



**LoManCo SERIES 100 FLUSH and SERIES 200 RECESSED LOUVERS**

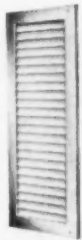
12 models and sizes in both flush series 100 and recessed series 200. Complete with 8 x 8 mesh screen. In aluminum or galvanized.



**OTHER LoManCo PRODUCTS**

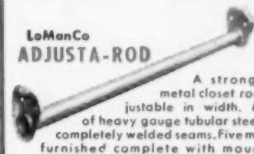
**LoManCo Beauty Line Aluminum Shutters**

Only shutters with all the features and advantages home owners want. 100% Aluminum—no rotting, warping cracking or splitting. One piece aluminum slats latched in heavy continuous frame provides deep attractive shadow lines. Completely assembled, ready for mounting. Factory finished in white baked enamel prime coat. 16 sizes for all std. windows.



**LoManCo ADJUSTA-ROD**

A strong, all metal closet rod adjustable in width. Made of heavy gauge tubular steel with completely welded seams. Five models furnished complete with mounting brackets, in enamel or plated finishes. For closets up to 160" wide.



# Louver Manufacturing Company

3609 WOODDALE AVENUE

MINNEAPOLIS 16, MINNESOTA

# ALLITH-PROUTY, INC.

Manufacturers of Hardware  
for All Types of Rolling Doors  
DANVILLE, ILLINOIS

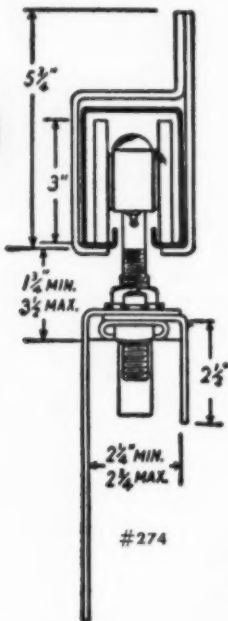
## PRODUCTS

ACCORDION DOOR HARDWARE  
AIRPORT DOOR HARDWARE  
BARN DOOR HARDWARE  
FIRE DOOR HARDWARE  
(Underwriters)  
ROUND HOUSE DOOR HARDWARE  
VERTICAL SLIDE DOOR  
HARDWARE

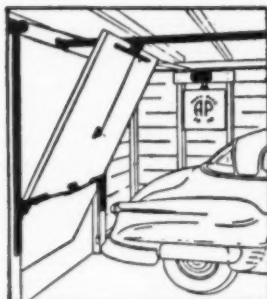
HEAVY TYPE DOOR HINGES  
OVERHEAD CARRIERS  
GARAGE DOOR HARDWARE  
Folding-Sliding  
Overhead Type  
Round-the-Corner  
Straight Sliding  
STADIUM SEAT BRACKETS



**Allith Hangers**  
for Box or Trolley.  
Tracks in all necessary sizes.

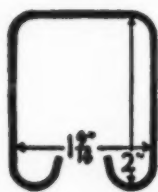


# 50-50 PUSHOVER ALLITH GARAGE DOOR HARDWARE



- USE YOUR OWN OR ANY STANDARD DOOR
- 
- NO MAINTENANCE COSTS
- 
- SIMPLIFIED INSTALLATION
- 
- ADAPTABLE FOR ANY TYPE GARAGE

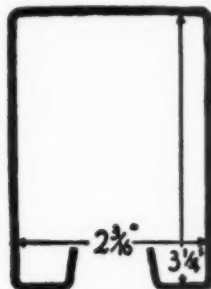
ALLITH HARDWARE permits you to use standard stock, or special doors if desired, to harmonize with design of accompanying building. All working parts are simple and sturdy—no springs to stretch or loosen. All hardware parts inside and protected from weather. Unit shipped complete down to the last screw. Quickly and easily installed. Standard set fits any opening up to 9' wide x 7'6" high when doors do not exceed 275 lbs. Other sets available for openings up to 10' wide x 10' high. Complete details furnished on request.



**Allith Track**  
No. 60-X 16 gauge  
No. 62-X 14 gauge



**Allith Track**  
No. 240-X 16 gauge  
No. 242-X 14 gauge

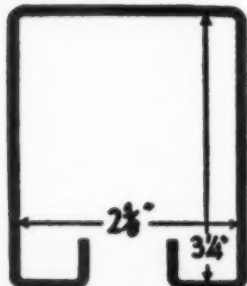


**Allith Track**  
No. 270-X 14 gauge

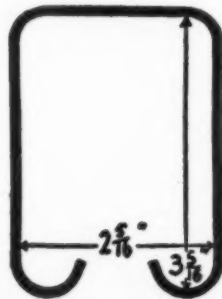
Brackets available for any of these tracks to meet any condition. Track sections shown half size.



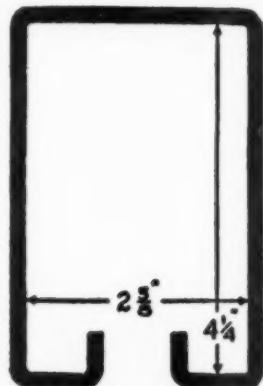
**Allith Track**  
No. 71-X 14 gauge



**Allith Track**  
No. 280-X 13 gauge  
No. 288-X 10 gauge



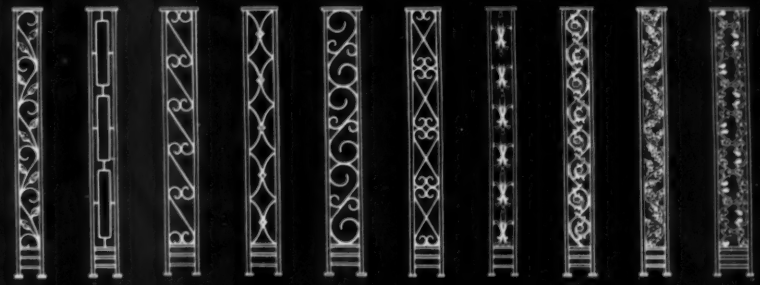
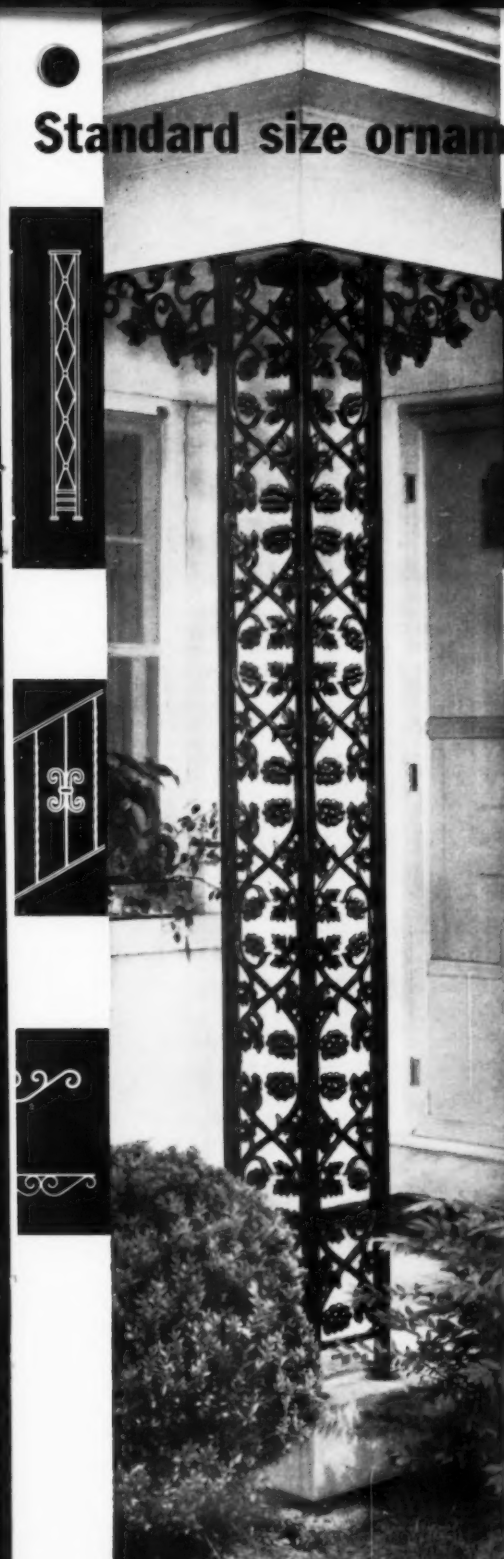
**Allith Track**  
No. 67-X 13 gauge  
No. 68-X 10 gauge



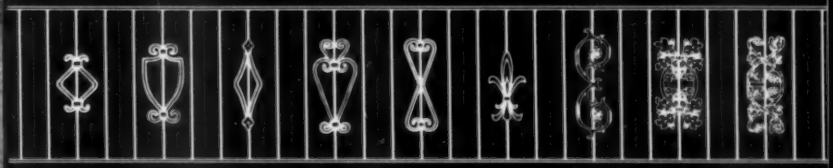
**Allith Track**  
No. 290-X 10 gauge

# ALLITH-PROUTY, INC. DANVILLE, ILLINOIS

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**SEND for free complete sales and advertising kit today.** It includes far the finest selling catalog in the business, convincing direct mail materials, giant wall chart in color; everything you need to plan and promote sales.



**Colonel Logan**  
**ORNAMENTAL IRON**  
 LOGAN CO., 531 CABEL ST., LOUISVILLE 6, KY.



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**PROVEN PERFORMANCE**



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WEDGE-FIT  
SPLIT RINGS**  
... for economical  
clear span **TECO**  
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**TRIP-L-GRIP**

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... for stronger  
framing of roofs,  
floors and walls



... and the **NEWEST** in  
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Hangers ... for  
better joist support  
at 1/2 the cost of  
old style hangers

**DU-AL-CLIP**

Framing Anchors  
... the all purpose  
economy framing  
anchor with dual  
grip action



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materials!**

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- Use any mantel
- 30" and 36" widths
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- Built-in screen
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**IMPERIAL LUX-RIGHT:** The Nation's Best, Brilliant, Light-reflecting, Extra Sturdy. Heavy zinc coating by hand-dipping after fabrication.

**ECONOMY LUX-RIGHT:** For medium-priced homes and housing developments. Of 16-gauge pre-galvanized steel sheets.

**THRIF-T:** For lower-priced housing. Full depth corrugations. Tight-coat galvanized.

**WE PREPAY FREIGHT** on 12 units or more. See your dealer or distributor, or write us. **FREE Folder.**

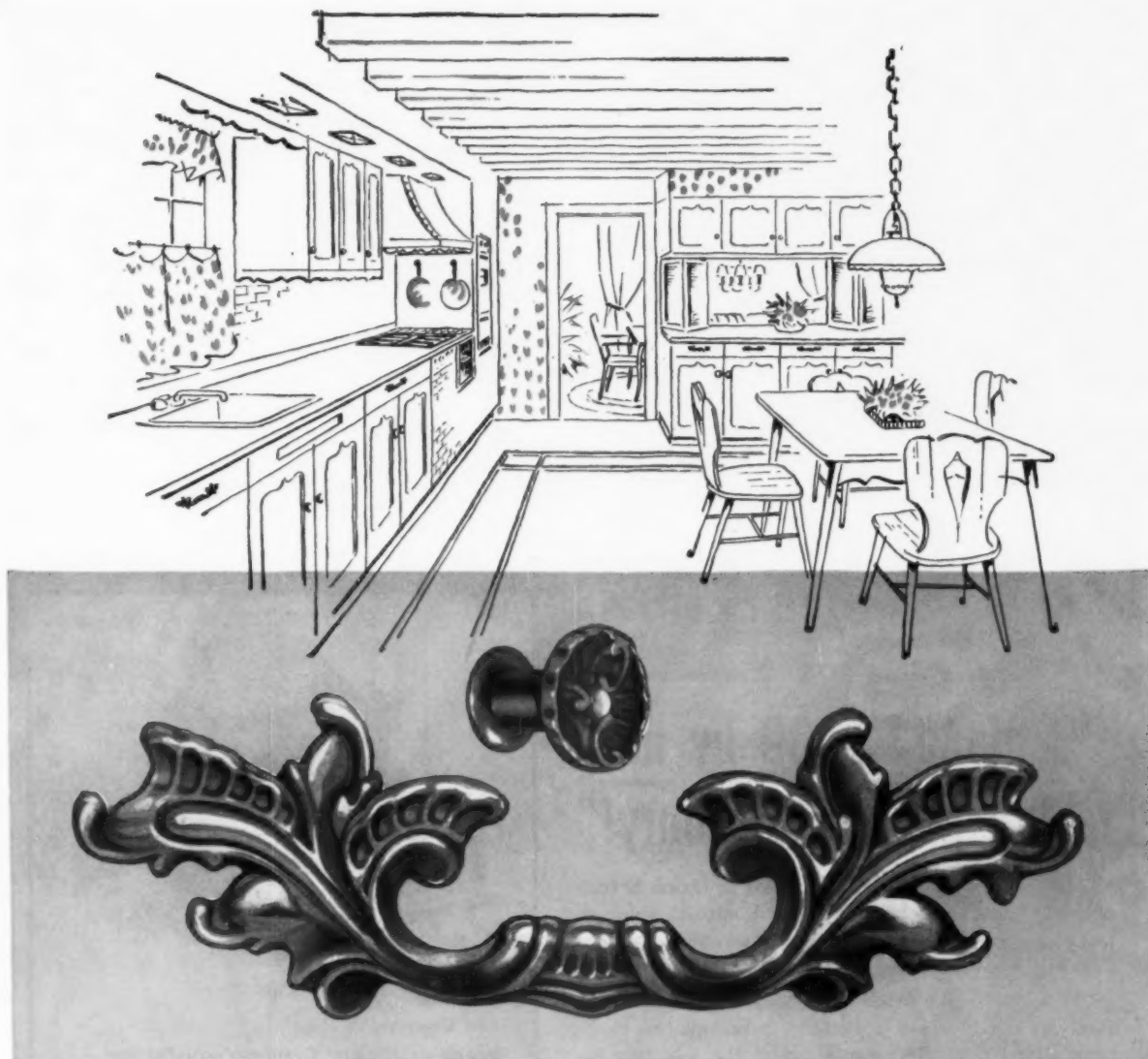
**STREAMLINED**

**ROUND**

**SQUARE**

**SAINT PAUL CORRUGATING CO.**  
Expert Fabricators of Sheet Metal Products for 75 Years.  
SOUTH END WABASHA BRIDGE • SAINT PAUL 7, MINN.

AB-4



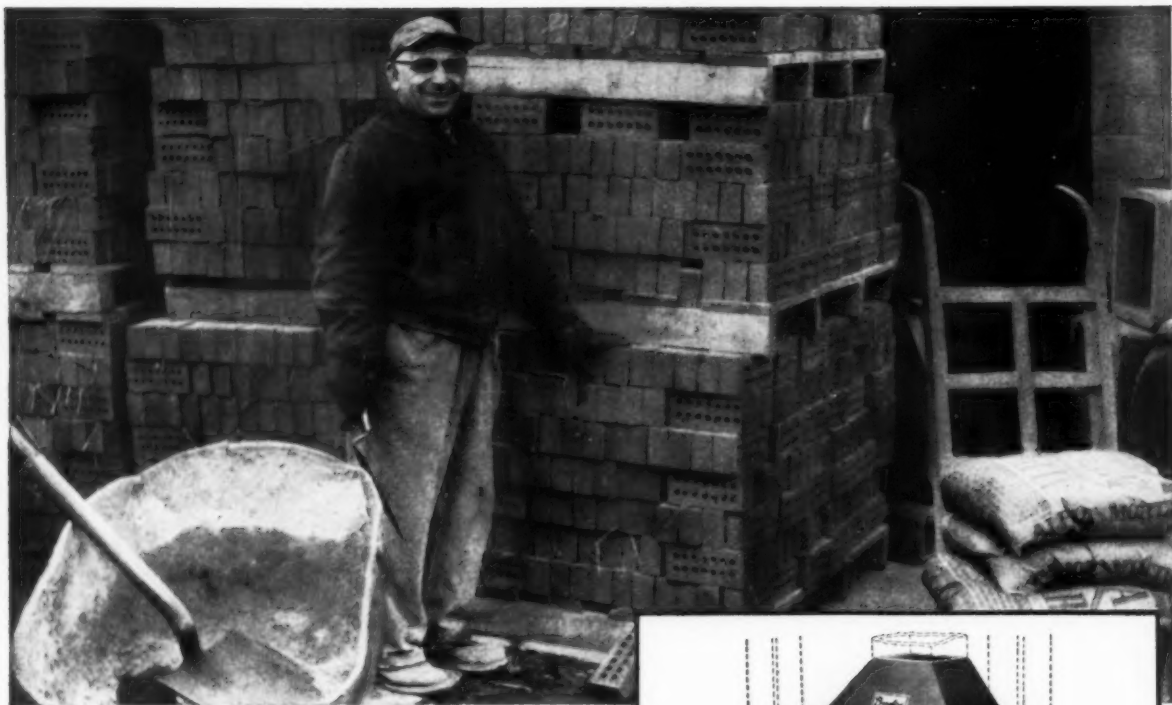
Provincial period-inspired cabinet hardware by Medalist is the perfect answer to today's increasing popularity for French Provincial decor. These authentically styled pulls, knobs and escutcheons, in various sizes, are richly finished in Antique English for application on natural or painted cabinets and built-ins. Your building material supplier has this popular decorative hardware on display now.

Write for sample Medalist Home Merchandising Aids Kit with N.A.H.B. award-winning "Harmony-in-Hardware" Brochure included



*Medalist*®

**MEDALIST HARDWARE DIVISION  
NATIONAL LOCK COMPANY  
ROCKFORD, ILLINOIS**



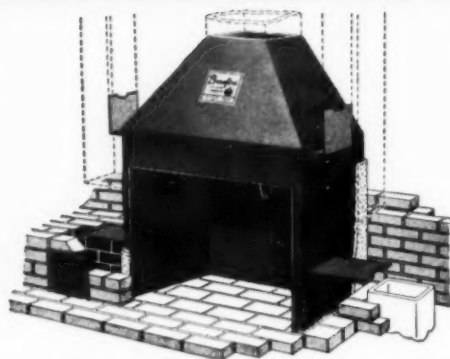
## “I made \$2,000 by not laying up this masonry!”

“This picture shows me standing next to about 30 tons of bricks. That’s how much material I actually saved on last year’s jobs by using Benefire, the complete fireplace form . . . averages about a ton a job . . .

“How do I make money by *not* laying up masonry? Well, in the first place, Benefire takes all the time-consuming “tricky” elements out of the job, because the combustion chamber, throat damper, down-draft shelf and smoke dome are *scientifically* built right into the unit. Benefire does away with fussy, diagonal courses, fancy ductwork and expensive, free-hand corbelling. That means I save plenty of *hours* on every job—as well as almost a *ton* of brick and mortar.

“As a result, I get more fireplace jobs than any other mason—because I can actually charge *less* and *net more profit* on every job. And with Benefire, I can *guarantee* a perfect, smoke-free fireplace every time!”

See your dealer today for details on the complete Bennett line, or write for complete catalog to Bennett-Ireland Inc., 460 Market St., Norwich, N. Y.



### How *Benefire* Cuts Costs and On-the-Job Time . . .

**boosts profits and Customer satisfaction**

1. **Complete Form** from hearth to flue—just follow simple directions and you’ve got it made—quickly, profitably, perfectly.
2. **Square sides** eliminate fussy diagonal courses—save masonry . . . provide bigger heating capacity.
3. **All-around sealing flange**—speeds construction—prevents smoke leaks into room.
4. **Adjustable flue connection**—just cut two tack welds to take larger size flue tile.
5. **“Ductops”**—exclusive “knockout” forms make it cheaper to build ducts than to lay solid masonry.
6. **Tight-closing Damper**—seals tightly *without packing*—stops heat loss from room, annoying drafts when fireplace is not in use.
7. **Opening** proportioned to give broadest view of fire and most radiant heat.

**AUTHORITIES ON FIREPLACES**

**BENNETT-IRELAND INC.**

*Chartered in 1906*  
NORWICH, NEW YORK



# Leading Scorer!

Kitchen Kompact Cabinets score high in a recent survey conducted by Kitchen Business regarding trends and features most wanted in wood kitchen cabinets.

Check the features shown here! You'll see why more dealers (and consumers) want Kitchen Kompact.

*Inquire for choice distribution areas still open*

*Warehouse stocks are carried by distributors in most major cities. Write today for the one nearest you.*



*Kitchen Kompact* INC.

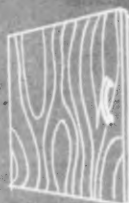
911 E. 11th St., Jeffersonville, Indiana



## FAST DEPENDABLE DELIVERY

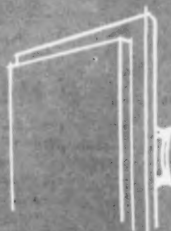
to anywhere in the U.S.  
Made possible by one of the most -  
modern efficient plants in the  
industry today.

## QUALITY WITH LOWER PRICE



MORE  
UNIFORMITY  
OF FINISH.  
WARM TONED  
BIRCH

## LIPPED DOORS



COPPER  
HARDWARE

MORE CORNER  
UNIT SIZES - ALL  
REVERSIBLE

## PLUS - ROUNDED DRAWER INTERIORS



Stronger than  
conventional  
and easy to  
clean.



BEST WAY TO "STEP UP" SALES

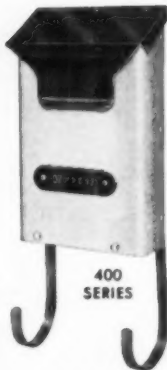
# Quality Hardware



700 SERIES



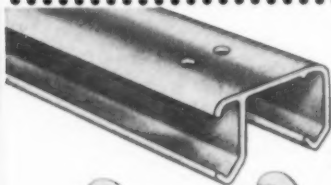
500 SERIES



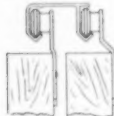
400 SERIES

## M-D MAIL BOXES

Anodized Aluminum mail boxes in 3 distinctive styles. Choice of 6 gorgeous color combinations. Never rust, tarnish or need polishing. FREE engraved name plate available with every box.



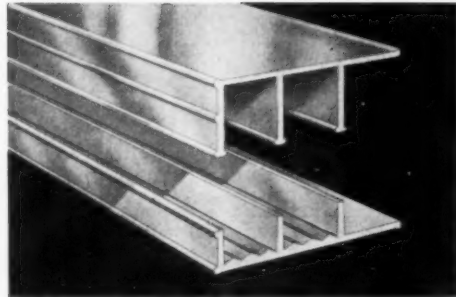
On  $\frac{3}{4}$ " doors, hanger RV-1 with deep offset is used on front panel.



On  $1\frac{1}{8}$ " doors, hanger RV-1 with the deep offset goes on back panel.

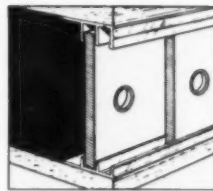
## M-D OT-400 REVERSIBLE SLIDING DOOR HARDWARE

Saves time! Cuts installation cost! OT-400 hangers are used on either  $\frac{3}{4}$ " or  $1\frac{1}{8}$ " doors just by reversing their positions. Sturdy extruded aluminum track with built-in no-jump feature. Cadmium steel hangers with silent nylon wheels. Tubular packaged sets for 3, 4, 5, 6, and 8 Ft. lengths.

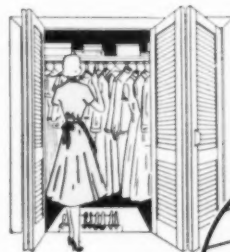


## M-D Aluma-Slide SLIDING DOOR TRACK

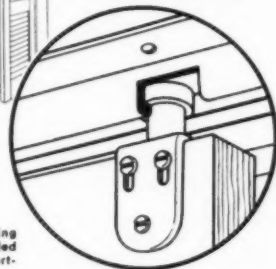
With new improved lower track, panels slide along on smooth ridges—not one flat surface. For any size cabinet. Any panel material. Comes in decorative Alchrome, Anodized Albras, Anodized Albright or Anodized Satin. Competitively packaged sets. Holes drilled—screws furnished.



Sets available for  $\frac{1}{8}$ ",  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ " or  $\frac{3}{4}$ " sliding panels of glass, plywood, masonite, etc.



## M-D FOLDING DOOR HARDWARE



### OPERATES SMOOTHLY

Silent nylon bearing gliding in top quality extruded aluminum track assures effortless, trouble-free operation.

Here's hardware that can't be matched for ease-of-operation, ease-of-installation! M-D Folding Door Hardware can be used on any interior door, on any thickness, for every opening! Gives full access to closets, yet saves valuable wall and floor space.



**BUILDERS**

Sold by Leading Hardware, Lumber and Building Supply Dealers.

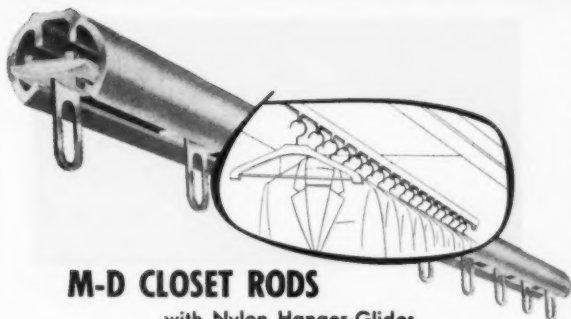
**DEALERS**

ORDER TODAY your order will receive prompt shipment.



...*"STEP OUT"* WITH THE BEST!

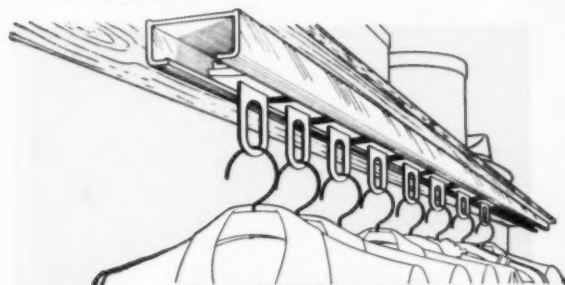
# and Building Products



## M-D CLOSET RODS

with Nylon Hanger-Glides  
for wall-to-wall mounting—Style No. EXC

Handy M-D Nylon Hanger-Glides slide along the sturdy, extruded aluminum rod silently and smoothly—with just the flick of a finger. It means no more tugging and pulling for clothes. Neater closets. Come in 4 different, beautiful, anodized finishes. Each package contains closet rod, hanger-glides, end brackets, screws and instructions.



## M-D CLOSET RODS

with Nylon Hanger-Glides  
Shelf-Mounted. Style No. CRM

Sturdy extruded aluminum is easily mounted under shelf. Comes in 4 attractive, anodized finishes. Smooth sliding Nylon Hanger-Glides are easily slipped into the mounted rod. May also be attached to ceiling for use with shower curtain, or to top of window or cornice for use as a drapery rod. Completely packaged sets in 9 lengths from 36" to 96".



## M-D ALUMINUM LEVELS

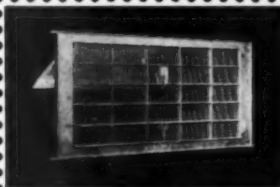
Both pro and amateur are attracted to this gleaming, sturdy, extruded aluminum level. It's a high quality, precision tool at a sensible price. Tough, non-breakable Pyrex vials are replaceable. Glossy red interior with silvery satin top and edges enhance its appearance. 10 sizes from 18" to 96". Individually packed in Poly tubing.



## M-D MOULDING AND TRIM

All shapes available in Anodized finish

Wide variety of shapes and sizes for all thicknesses of material. Available in permanent, high quality anodized aluminum finish—also furnished in polished aluminum, brass or stainless steel. Whether anodized or polished, the finish is unsurpassed in quality. Through constant checking and control, M-D produces a satiny anodized finish that is both beautiful and permanent.



Standard weight for use  
between floor joists



Extra heavy built  
for heavy duty

## M-D FOUNDATION & CORNICE VENTS

Here's variety to meet your customers' needs. Die-cast aluminum vents for crawl spaces or cornices . . . in 2 styles for brick or concrete block construction. M-D Louvered Cornice Vents are made of heavy-gauge stamped aluminum with reinforcing ribs for extra rigidity. Also available in Anodized Albrass finish. Two sizes—4" x 16" and 8" x 16". Easy and ready to install. Dozens of uses for ventilation in new homes or for remodelling.



No. 416 Louvered Cornice Vent

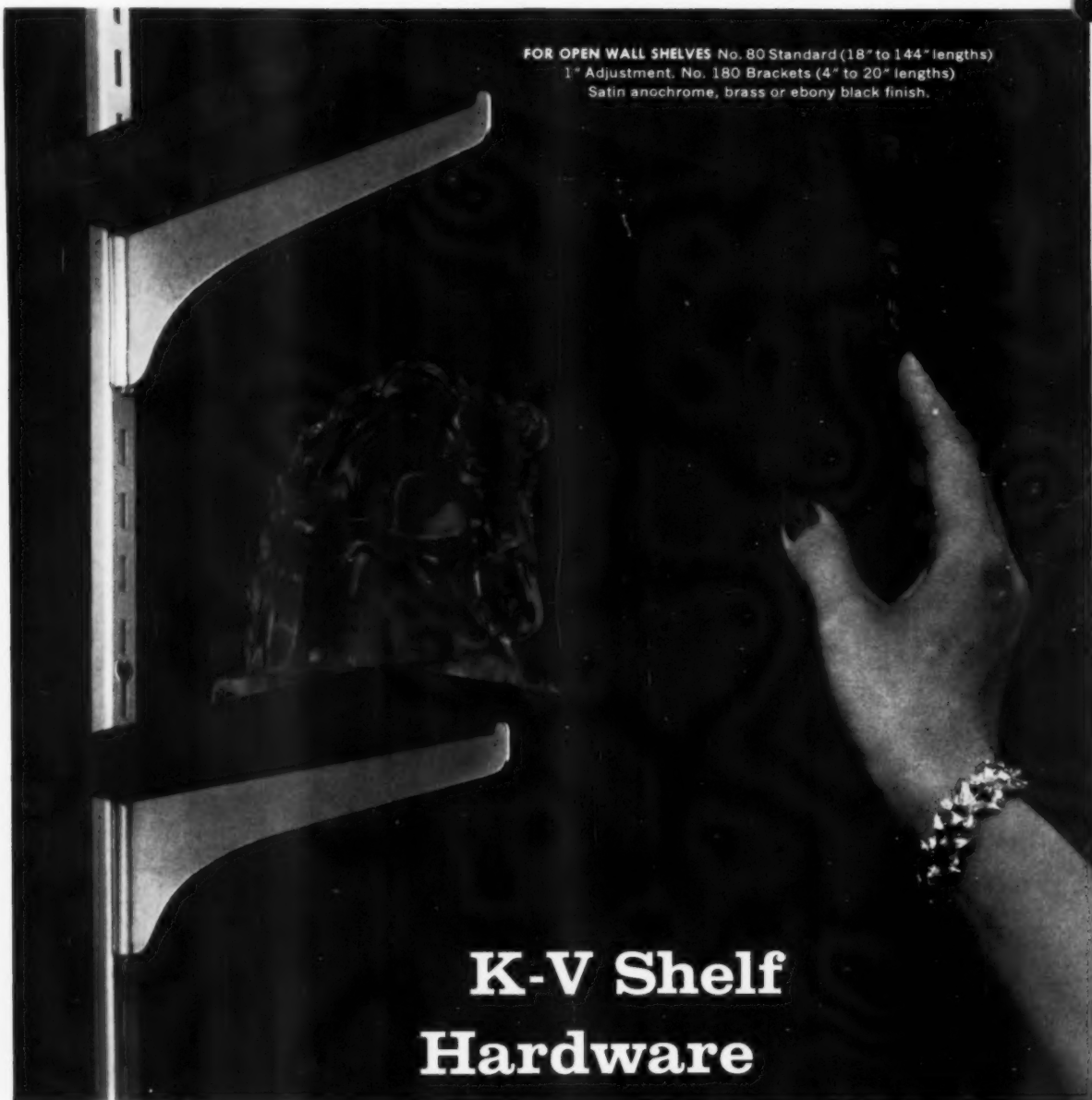


No. 816 Louvered Cornice Vent

# MACKLANBURG-DUNCAN CO.

Manufacturers of Quality Building Products • Box 1197 • Oklahoma City 1, Okla.

FOR OPEN WALL SHELVES No. 80 Standard (18" to 144" lengths)  
1" Adjustment. No. 180 Brackets (4" to 20" lengths)  
Satin anochrome, brass or ebony black finish.



## K-V Shelf Hardware

FOR BUILT-IN SHELVES No. 255 Standard (24" to 144" lengths) 1/4" Adjustment. No. 256 Support (1/4" long, 3/4" wide.) Nickel, zinc or bronze finish.



**easily installed,  
easily adjusted!**

For low cost, decorative effects or storage facilities wherever they're needed. Easily installed, easily adjusted. Lasts the lifetime of the home. Always keeps shelves straight, strong and sag-free. Ask for complete catalog.

**KNAPE & VOGT  
MANUFACTURING CO.**  
Grand Rapids, Michigan

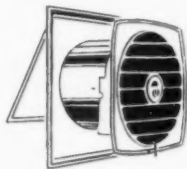


*Manufacturers of drawer slides, sliding and folding door hardware, closet and kitchen fixtures and Handy Hooks for perforated board*

# APPLIANCES

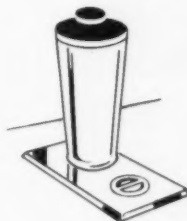
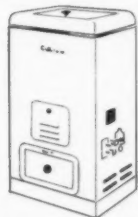
## Check Page of Appliance Extras

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.



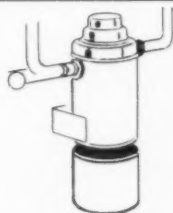
**EXHAUST FANS:** Available for vertical or horizontal discharge of air from kitchen. Can be installed in ceiling; through wall; in cabinet. For vertical discharge of air from bathroom, units are available without extras; with light; with heat; with heat and light, and with infra-red sun lamp. Most kitchen 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.

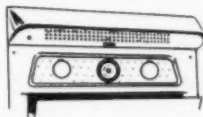


**FOOD CENTERS:** Installs so that power unit is below surface of counter. Connects to 115-volt AC outlet. Generally has six speeds. Is sold with or without its attachments, which include a mixer, blender, fruit juicer, knife sharpener, and meat grinder.

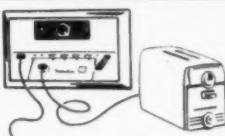
**GARBAGE DISPOSERS:** Are from 12" to 15" in length. Most operate with 1/2 HP, although 1/2 HP residential units are available. Need 115 volt 60 cycle outlet. Most disposers have a one- or more-year warranty. Average net weight is 25 lbs. Nearly all units are continuous feed types, and many have a safety 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 2/3 HP to 1 1/2 HP. Operates on 115 Volt, 60 Cycle current.

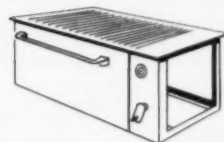


**RANGE AND OVEN HOODS:** Available with and without exhaust fans, light. Also available from some manufacturers with built-in radio-intercom, and range controls. Units produced for use over range tops, free-standing ranges set against wall, and for range tops built-in to counter island. Oven hood generally made in 24", 27" and 32" lengths. Range hoods made in lengths from 24" to 48".



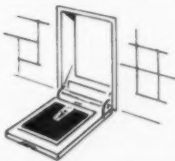
**APPLIANCE CENTER:** Generally installed on wall over kitchen counter. Fitted with circuit breakers, clock and automatic timer. Has pull-out plugs and sockets. Range from 30 to 45 amp service.

**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.



**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".



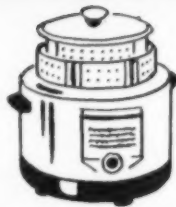
**NOTE:** For information on manufacturers of any product described here, check the yellow pages or write to Buyers Guide Editor, American Builder, 30 Church Street, New York 7, New York.

# APPLIANCES

## Dimensions of Small Appliances



**BLENDER**  
(6"-8") x 8" x (14"-16")



**DEEP FRY**  
(8"-11") x (7"-11") x (9"-13")



**COFFEE POT**  
(9"-13") x 14" x 9"



**IRON**  
(8"-10") x 4" x (4"-5")



**PRESSURE COOKER**  
(9"-10½") x (15"-16")



**WAFFLE IRON**  
(11"-14") x (11"-14") x (3"-4")



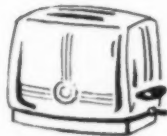
**ROASTER OVEN**  
(12"-13") x (14"-18") x (21"-24")



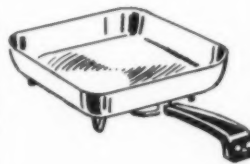
**CORN POPPER**  
9" x 14" x 9"



**GRILL**  
(9"-10") x (15"-18") x (2"-5")



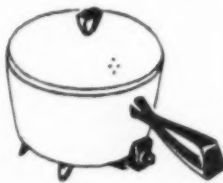
**TOASTER**  
10" x 7" x 6"



**FRY PAN**  
12" x 12" x (4"-5")



**HAND MIXER**  
6" x 5" x (2"-3")



**SAUCEPAN**  
(8"-14") x (8"-10")



**ROTISSERIE**  
(22"-24") x (14"-16") x (14" x 18")



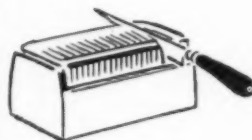
**COFFEE BREWER**  
6" x 9" x (10"-12")



**MIXER**  
(7"-8") x (12"-14") x 14"



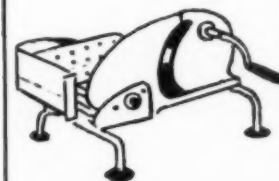
**ICE CHOPPER**  
8" x 4" x 10"



**KNIFE SHARPENER**  
6" x 3" x 3"



**ICE CREAM FREEZER**  
(8"-12") x (8"-12") x (12"-19")

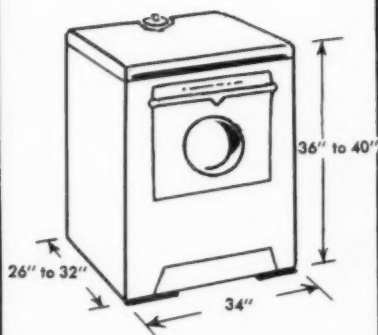


**SLICER**  
13" x 10" x 10"

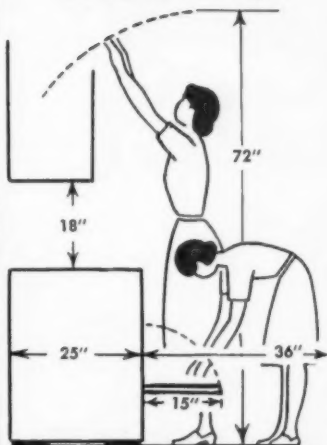
# APPLIANCES

## Laundry Planning Standards

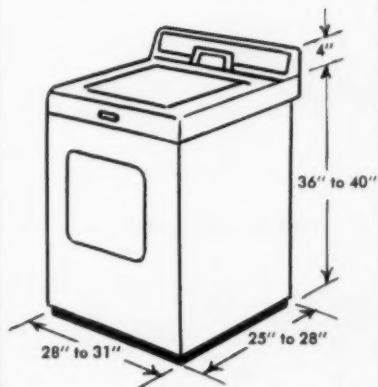
**WASHER**



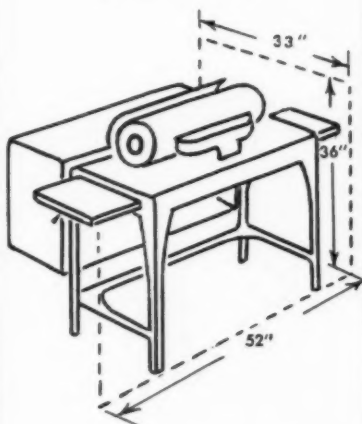
**Minimum work space for washer and dryer.**



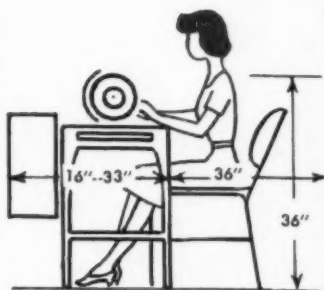
**DRYER**



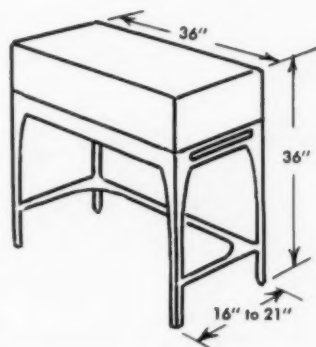
**IRONER OPEN**



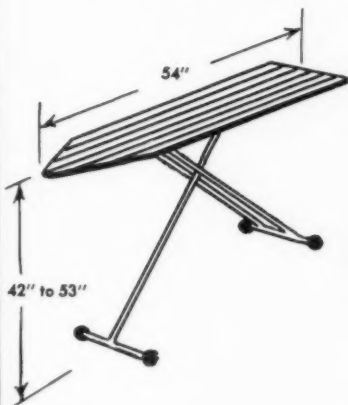
**Minimum work space for ironer.**



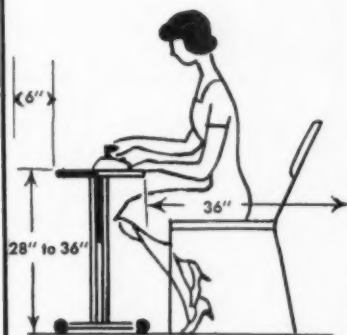
**IRONER CLOSED**



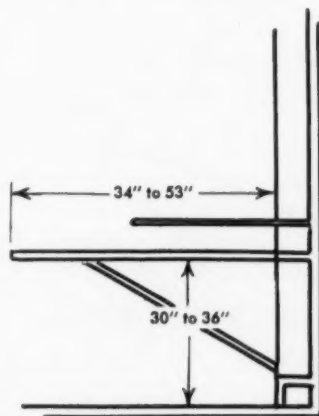
**IRONING BOARD**



**Minimum work space for ironing board.**



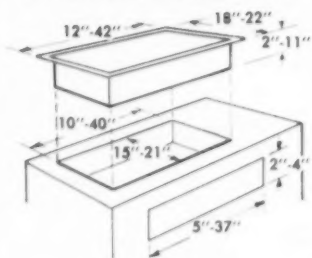
**BUILT-IN IRONING BOARD**



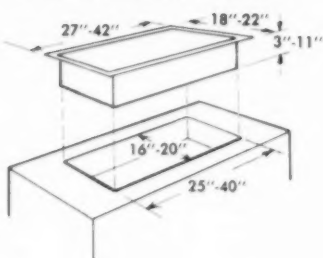
# APPLIANCES

## Planning for Kitchen Built-ins

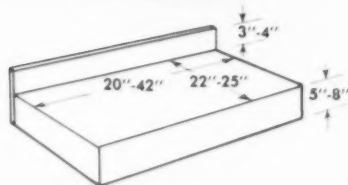
**DROP-IN RANGE (FRONT VENT)**



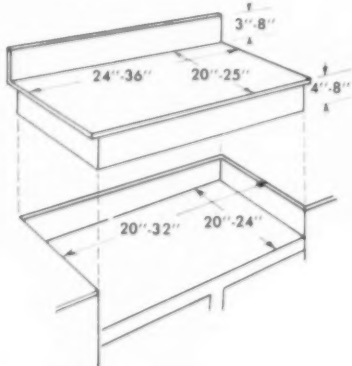
**DROP-IN RANGE (NO VENT)**



**STACK-ON RANGE**



**COUNTER-TOP RANGE**

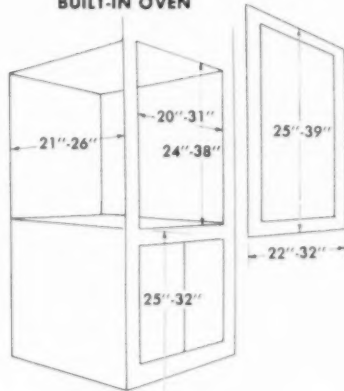


**NOTE**

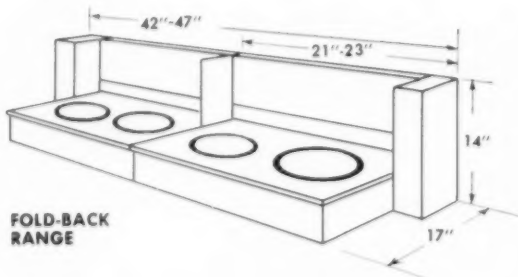
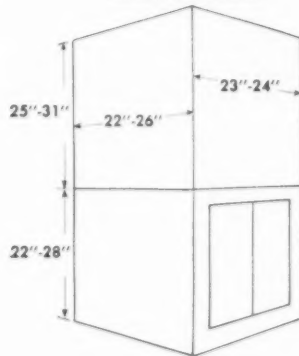
Both gas and electric models are available for each of the units shown here. Check with your supplier for exact dimensions. Oven measurements here only include single door integral broiler types. Double door (with separate broiler) and double oven types are also available.

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**



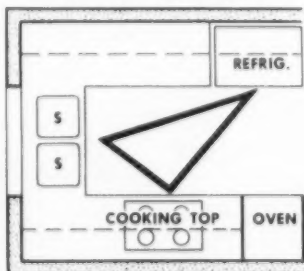
**STACK-ON OVEN**



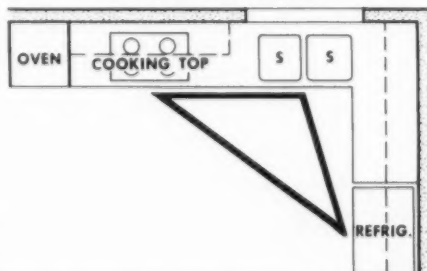
**FOLD-BACK RANGE**

### THREE BASIC KITCHEN PLANS

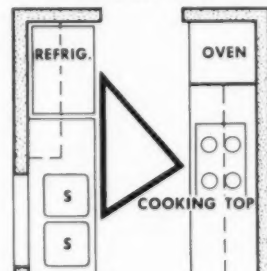
**THE U-SHAPED KITCHEN**



**THE L-SHAPED KITCHEN**



**THE CORRIDOR KITCHEN**



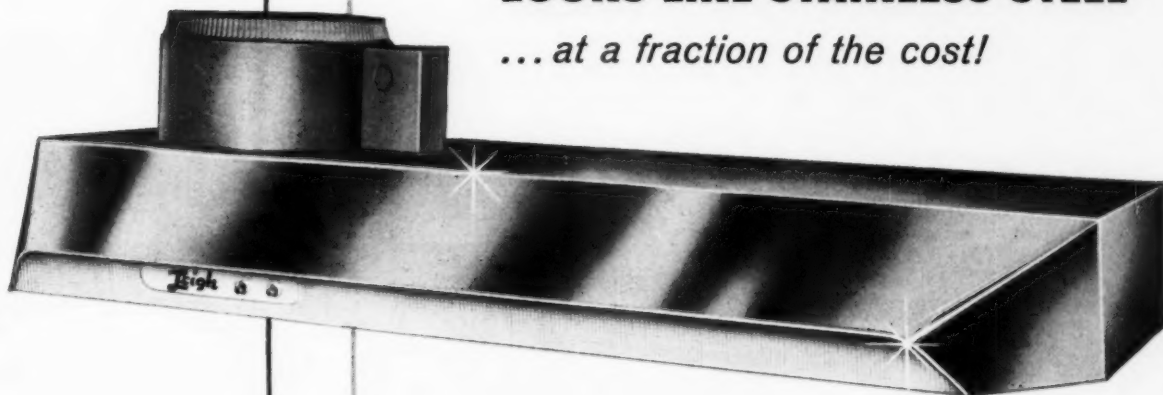
**NOTE**

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.

**AN EXCITING, NEW FINISH!**  
**"BRUSHED CHROMETONE"**  
**LOOKS LIKE STAINLESS STEEL**

*... at a fraction of the cost!*



IN FOUR SIZES, 30", 36", 42" ...  
 AND FOR THE FIRST TIME ... 24"

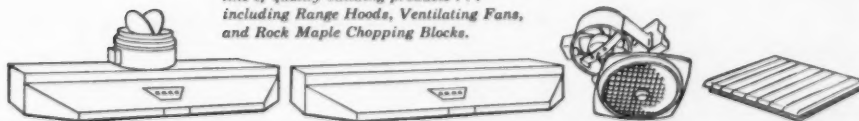
This revolutionary new Brushed Chrometone finish, with a permanent abrasion-resistant coating, has all the soft, satin beauty of stainless steel, yet sells for a price only 5% more than Leigh's popular Coppertone. Now available exclusively with Leigh 5400 series economy Range Hoods.

**FEATURES:**

- GOLD ANODIZED TEXTURED ALUMINUM CONTROL PANEL.
- COMPLETELY ASSEMBLED AND WIRED.
- NOISELESS 6-BLADED FAN WITH 593 CFM FREE AIR.
- NO ADAPTERS NEEDED. FITS CONVENTIONAL 8" DUCT.
- TOTALLY ENCLOSED MOTOR.

Build bigger profits in '60! Contact your Leigh Dealer immediately or write for catalog #268-L.

*Only from Leigh can you buy such a complete line of quality building products . . . including Range Hoods, Ventilating Fans, and Rock Maple Chopping Blocks.*



**LEIGH BUILDING PRODUCTS, COOPERSVILLE, MICH., DIVISION OF AIR CONTROL PRODUCTS, INC., 160 LEE STREET, WEST COAST WAREHOUSE; LEIGH INDUSTRIES (CALIFORNIA) INC., 649 SOUTH ANDERSON, LOS ANGELES, CALIFORNIA. MADE IN CANADA BY: LEIGH METAL PRODUCTS, LTD., 72 YORK STREET, LONDON, ONTARIO. PRAIRIE PROVINCES AFFILIATE: LEIGH-TORNEL DISTRIBUTORS LTD., 549 ARCHIBALD STREET, ST. BONIFACE, MANITOBA — COPYRIGHT 1960 LBP-ACP, INC.**

# WIN A HAWAIIAN HOLIDAY



*A fun-filled trip to America's Paradise in the Pacific awaits  
the nation's top builders and their wives in the...*

## HOTPOINT MEDALLION HOME PROGRAM



Now, a complete advertising and merchandising program to help you cash in on the public preference for Hotpoint appliances, plus 1960's greatest sales-clincher—Hotpoint Electric Baseboard Heating. This dynamic program is power-packed with everything needed to give your home sales a sensational start in '60. Call your Hotpoint distributor for complete details today!

- ★ DRAMATIC FULL-COLOR MAGAZINE ADVERTISING
- ★ NATION-WIDE NEWSPAPER ADVERTISING
- ★ PROSPECT-PULLING DISPLAY MATERIALS
- ★ PROFESSIONALLY-PREPARED HANDOUT BROCHURES
- ★ SALES-BUILDING KITCHEN PLANNING SERVICE
- ★ PROVEN PUBLICITY PROGRAM
- ★ PLUS SPECIAL MERCHANDISING ASSISTANCE

# Hotpoint

A Division of General Electric Company, Chicago 44, Illinois

ELECTRIC RANGES • REFRIGERATORS • AUTOMATIC WASHERS • CLOTHES DRYERS • CUSTOMLINE® • DISHWASHERS  
DISPOSALLS® • WATER HEATERS • FOOD FREEZERS • AIR CONDITIONERS • ELECTRIC BASEBOARD HEATING



WHAT'S **New** AND **▶ WHAT TO DO ABOUT IT**

(Continued from page 15)

election year. Although Congressman Rains' "Emergency Home Ownership Act" was approved 18 to 7 by the House Banking Committee, there was doubt that the \$1-billion bill to spur building would pass. And even if it should muster the necessary votes, predictions are that President Eisenhower would veto it.

Indications are that a bill merely extending FHA's insuring and repair loan authority may be all that will weather the election year.

### Apartment pace steps up

More builders are putting up apartments this year than last. And according to predictions of building economists, this is a trend that will continue through the sixties. Basic reason is that sharp increases are taking place in the number of both young families and older families both want small apartments.

Capitalizing on these trends, many home builders are diversifying their activities by building a few apartments in addition to their single-family houses. In some cases this is done as an investment for themselves; in others, as a joint investment project with others. In either case, builders tend to construct apartments with the same crews and techniques employed in their home operations,

▶ Key to the apartment building business is equity money. Assemble data on local profit potential to invite participation of investors as a joint venture.

### Tight money costing \$1,200 a house

Builder Herbert Sadkin of Long Island told the House Banking Subcommittee that the tight money policy of the government is adding an average of \$1,200 to the cost of building and selling the typical \$15,000 house.

### Predict 3.8% rise in home prices

The average retail sales price of new homes will rise 3.8% in 1960, reports the Federal Home Loan Bank Board. Its survey of 2,000 member associations indicated an average retail price of \$18,360.

### Outlook for spending: Bullish

U. S. Consumers are bullish, and their optimism over business conditions is at a new high, a survey by National Industrial Conference Board, sponsored by Newsweek, indicates. Builders will learn with interest

that the survey shows new home buying plans up 18 per cent, and plans to buy old houses up 10 per cent, over last year. NICB economists think tight money isn't as big a deterrent as expected.

### 20 homes—typical NAHB builder

After polling 16,000 of its builder members on their activities, NAHB reports its "typical" builder is 41 years old, has been in business 11 years, builds 20 houses a year. His major price bracket is \$18,000.

### Expert to train modernizers in new techniques and methods

A new approach to modernization on a national scale is being launched by Herbert Richheimer, one of the country's largest and best known home improvers.

He plans to help 1,000 selected contractors set up systematized home improvement firms, aiming at a minimum volume of \$750,000 for each. Richheimer's remarkably successful methods will be employed through a franchise management plan. This will make available:

- Estimating procedures that maintain a record of less than 1 per cent error in price.
- Accounting and cost control methods that assure 5 per cent net profit.
- Merchandising and sales techniques that have doubled the Richheimer business in each of the past three years.
- Training of management, sales and supervisory personnel.
- National advertising of the entire franchise network, plus a monthly advertising service for participants.
- Instructions in a variety of unique building methods, including the addition of an entire second story to trussed-roof ranch homes.
- National financing to supplement local sources that are inadequate.
- Continuing management assistance, including on-the-spot consultation and analysis.

Initially, Richheimer said, RMS will train a "pilot group" of 15-20 modernizers and launch each in his system this spring. On the basis of this experiment, RMS hopes then to train as many as 25 other franchised modernizers per month, starting July 1st.

▶ Contractors or builders who are interested should write or contact Richheimer Modernizing Systems, Inc., 280 Madison Ave., New York 16, New York.

*Rangaire Builder-Engineering-Research brings you  
of products... to please your prospects and*

# **Rang**



a complete line  
profit you . . .

  
**RANGAIRE**

## Builder-Engineered Products!

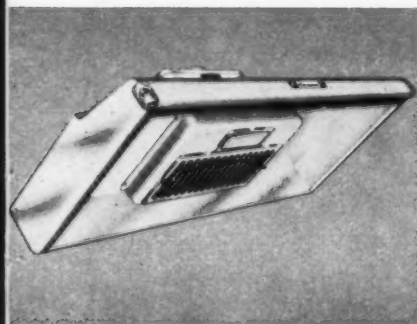
Designed, Engineered, Manufactured, and Priced to give you the **Quality, Style, and Features** you need for maximum sales appeal . . . with a range of prices to fit any budget.

Rangaire Builder-Engineered Products are designed to help you "upgrade" your homes for more buyer appeal—yet keep you in the market you're trying to sell. You get Top Quality Products, Easy Installation, Trouble-Free Performance, and Competitive Prices.

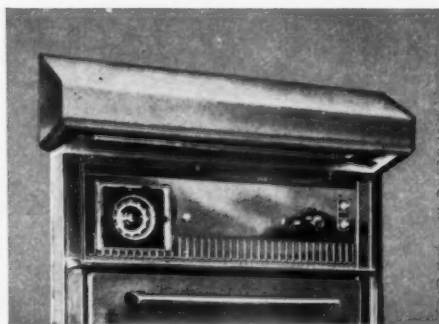
With Nationally advertised Rangaire you can offer your prospects *exactly what they*

*want*, since Rangaire offers you complete flexibility in styling, sizes, and prices. Rangaire Hoods and Radio-Intercoms can be color-matched to all major appliances.

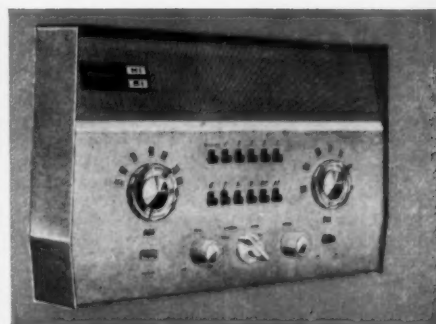
Rangaire Builder-Engineered Products are designed to add to your reputation as a quality builder. Call your Rangaire Dealer today.



**RANGAIRE KITCHEN VENTILATING HOODS** Come complete, right down to the screws, in one package. Hoods and accessories color-match perfectly with all major appliances. Permanent, Washable Filters, Recessed Frosted Glass Lights, Powerful Exhaust Units. America's most complete line, with sizes and models to fit any kitchen.



**RANGAIRE OVEN HOODS** Newest addition to the Builder-Engineered line and designed for flexible installation, the Rangaire Oven Hood requires minimum cabinet space. The powerful exhaust vents through either wall or roof. Perfectly styled canopy color-matches all major appliances accurately *at no extra cost*.



**RANGAIRE RADIO INTERCOM SYSTEMS** A complete line of models and prices to choose from. Whether you select the economical WR90 or the luxurious AM-FM High Fidelity RI-95, each Rangaire intercom system is Builder-Engineered for easy installation, smart styling, simple operation, and maximum performance. They add new charm and sales appeal to your homes.

TESTED AND SELECTED FOR USE IN NATIONAL



HOMES

**VIKING** LINE

For additional information write  
**Roberts Manufacturing Company**  
Cleburne, Texas  
Dept. A12



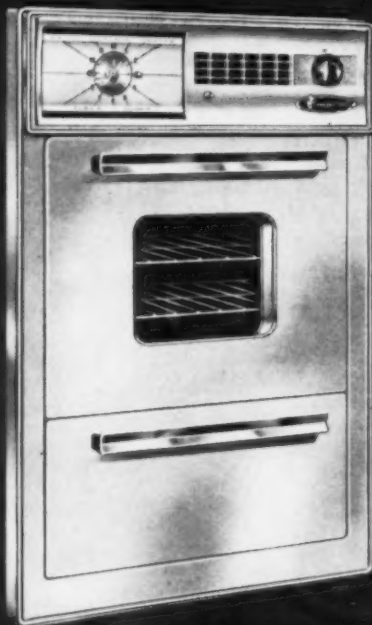
put

*a Touch of*

*Magic* in your sales  
with new **MAGIC CHEF** built-in ranges



The new Magic Control Center with clock-controlled oven starts and stops the Magic Chef Oven automatically; cooks an entire meal while the housewife is away from home.



New MAGIC CHEF Built-in gas ranges put a Touch of Magic in the homes you build . . . with new, automatic features, new installation economy and outstanding consumer acceptance.

Today, more than ever, the consumer acceptance of MAGIC CHEF is an invaluable sales asset to you. As an extensive national advertising campaign further expands MAGIC CHEF'S outstanding consumer recognition, today, MAGIC CHEF is the name the modern homemaker knows . . . the range that puts a Touch of Magic in your sales.



New Magic Chef Countermasters with recessed controls in the counter top reduce carpentry to a single rectangular cut.

**Magic Chef**  
CLEVELAND, TENNESSEE

CLEVELAND, TENNESSEE

# CUSTOM KITCHENS FOR CUSTOM HOMES...

WITH NATIONAL DISPOSER'S NEW

## Citation

POWER SERIES MODEL 744-P

- New Triple Sound Barrier Acusti-Shell for whisper quiet operation!
- New Styling—fresh, clean, modern!
- New Power— $\frac{1}{2}$  H.P. Capacitor motor for more efficient performance than ever!
- Power Surge Reversing—the most effective means of clearing a jam!
- New Lok-Top Cover Control—one-piece cover rotates to "grind" (safer—unit operates only with cover locked in "grind"), to "seal" (new positive cam-locking action for leak-proof seal), and "drain" for open drain sink use!

### New, new "Lazy Susan"

- The handiest "extra" ever devised—holds bottles, brushes, cleaning materials, sponges, etc. Keeps under-sink area clean and clutter-free!

### Other National Models

- New Supreme Model—twin of the Citation in a continuous feed model!
- New Custom—Cover control model.
- New Super—Power Surge Reverse continuous feed model.
- New Sprite—continuous feed model.

**THERE'S A NEW NATIONAL FOOD WASTE  
DISPOSER FOR EVERY HOME, EVERY KITCHEN**



### NATIONAL *Instant-HOT* WATER DISPENSER

Let's you "toss away the teakettle"... Pressure-free hot water (190°-200°F.) at a touch—so handy for preparing instant foods and for all the little chores that require "hotter-than-tap" water.

**ANOTHER PROFIT BUILDER FROM NATIONAL**

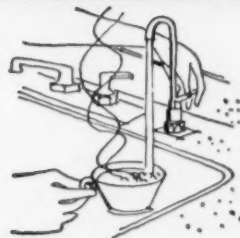
For detailed information about the NEW National Disposers and Instant-Hot write.....

Dept. 1064



# NATIONAL® / *Instant-HOT* DISPOSER

PRODUCTS OF PLUMBING EQUIPMENT DIVISION • NATIONAL RUBBER MACHINERY CO. • 920 LAFAYETTE RD. • MEDINA, OHIO



NEW HOTPOINT BUILT-INS

# MAKE ORDINARY KITCHENS



Model RU35-A

**Offer the Extra Convenience of Pushbutton Surface Cooking—at no extra installation cost!**

Touch a button and Hotpoint Calrod® Recipe Heat Units give accurately measured heat for recipe-perfect meals every time. Surface section with built-in pushbutton controls needs only one cut-out, fits in a standard 30" cabinet.

## **1960 Hotpoint Extra-Value Oven puts extra salespower in your kitchen**

**NEW** lift-off door makes oven cleaning easier and faster than ever before.

**NEW** ventilation system assures natural circulation for better baking on each shelf.

**WIDE** Super-Oven lets you cook banquet-size meals.

**OVEN TIMING CLOCK** and Minute Timer.

**NEW** extra-large Insulated Panorama Window.

**REMOVABLE** Calrod® bake and broil units.

**INTERCHANGEABLE** Oven Door Panels in Sunburst Yellow, Turquoise, Coral Pink, Copper Brown, Silver Satin and Classic White.

# EXTRAORDINARY

## AT NO EXTRA COST!

Today's home buyer expects more for his money than an "ordinary" kitchen. And Hotpoint Extra Value built-ins in the kitchen take even the most moderately priced home out of the ordinary . . . and into a sale.

Compare these 1960 Hotpoint Extra-Value built-ins with any others and you'll find only the price is ordinary. Hotpoint's extra features say "better living electrically" the minute your prospects see them. Hotpoint's extra styling and design make any kitchen a showplace. Hotpoint's extra values mean extra salespower for you, extra satisfaction for your customers. For extraordinary results at no extra cost, call your Hotpoint distributor today.

**WIN** A HAWAIIAN  
HOLIDAY  
in the HOTPOINT  
MEDALLION HOME PROGRAM



Call your Hotpoint distributor today and see how this dynamic merchandising program can help you sell more homes faster.



Model DA25-A

### EXTRA CAPACITY Hotpoint Dishwasher holds complete dinner service for 10

See these Extra-Value Features:

- Two washes, two rinses
- Calrod® electric drying
- Front loading Roll-R-Racks
- Lifetime porcelain finish tub



Model MA25-A

### EXTRA powerful EXTRA quiet EXTRA easy to install Hotpoint DISPOSALL®

Designed by plumbers, for extra economical installation. Extra-strong nickel alloy grinding teeth give you added years of outstanding performance.

When you build in Hotpoint, you build in Public Preference

# Hotpoint

A Division of General Electric Company, Chicago 44, Illinois

ELECTRIC RANGES • REFRIGERATORS • AUTOMATIC WASHERS • CLOTHES DRYERS • CUSTOMLINE® • DISHWASHERS  
DISPOSALLS • WATER HEATERS • FOOD FREEZERS • AIR CONDITIONERS • ELECTRIC BASEBOARD HEATING

# HARDWICK BUILT-IN

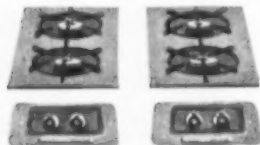
## GAS RANGES



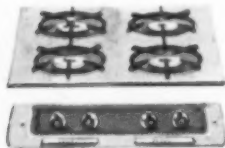
### COUNTER UNITS AVAILABLE IN Brushed Chrome or Coppertone



Drop-In Unit



Divided Unit



Cluster Unit

### Dazzling Decorator-Design, Six Sparkling Fashion Colors!

Yellow • Pink • Turquoise • Coppertone  
Brushed Chrome • White

Hardwick offers three styles of surface units for maximum flexibility in price and kitchen design. A new, economical Drop-In Unit has controls on the cooking surface, necessitating only one cabinet cut-out. A Divided Unit consists of two, high-speed burners. Two or more of these can be installed. The Cluster Unit, with four, high-speed burners, has control panels in front and is used alone or with Divided Units.

No other manufacturer offers anything like the Hardwick two-oven installation. One oven features the famous Hardwick EquaFlo burner for perfect balanced-heat baking and broiling. The other has MicroRay, the sensational ceramic burner, with the thermostatically-controlled rotisserie. This unique combination speeds sales of luxury homes, such as shown in the illustration below.

*Write for full information*

### FOR HOMES IN EVERY PRICE BRACKET

Hardwick, America's foremost manufacturer of gas ranges, presents a new, greatly expanded line of beautiful Built-Ins... six fashion colors, two ovens and three surface unit designs. The most complete, trouble-free, salable line ever offered. Hardwick Built-Ins accent ease and economy of installation—for budget and luxury homes.



Since 1879

**HARDWICK  
STOVE COMPANY**

Cleveland, Tennessee

Please send me a full-color folder on the new line of Hardwick Built-In Gas Ranges.

I am a BUILDER  BUILDING SUPPLIER  KITCHEN SPECIALTY FIRM

ARCHITECT  \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

AB-4-60



# MORE

Popular  
Practical  
Profitable

## LP-GAS "LIVING PLEASURE" HOMES

**More popular with Mrs. Home Buyer—** because women everywhere prefer LP-Gas appliances. They like the quicker-cooking automatic ranges and clock-controlled ovens, more economical LP-Gas water heaters and clothes dryers, silent, frost-free refrigeration.

**More practical for Mr. Home Buyer—** because he knows that the "Living Pleasure" fuel, LP-Gas, gives the cleanest, most economical and dependable heating and air conditioning of all.

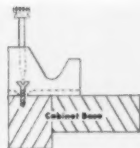
**More profitable for you—** because LP-Gas homes take less expensive insulation—cost less to build—give you a competitive head start on sales. LP-Gas helps you sell more and make more with homes everywhere—town, suburb or farm. Your local National LP-Gas Council dealer will be glad to show you how. See him this week! You'll know him by this seal:



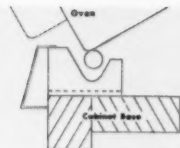
**FREE** Fact-filled book of uses of LP-Gas (Liquefied Petroleum gas—some call it propane, bulk or bottled gas), the "Living Pleasure" fuel. Write for your copy to National LP-Gas Council, Dept. F-3, 1515 Chicago Ave., Evanston, Illinois.

EASIEST OF ALL TO QUICKLY INSTALL...

# SAVE UP TO 25% ON LABOR COSTS!



Hinge plate attaches easily to cabinet opening.



Oven hinge rod on lower oven front fits plate.

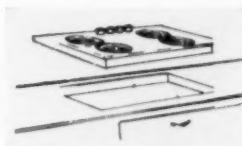


Oven tilts into place—no shims or blocks needed!



Snap-on frame always fits snugly to cabinet surface!

Drop-in cook-top fits simple, square-corner opening!



MAGNIFICENCE  
IN EVERY INCH...  
GAS OR ELECTRIC!



- GIANT 24" OR STANDARD 16" DOUBLE OVEN
- FULL YEAR FACTORY WARRANTY
- STAINLESS STEEL OR FOUR PORCELAIN ENAMEL COLORS
- NATIONALLY ADVERTISED

# VESTA®

*the luxury touch*



ALSO BUILDERS  
OF FAMOUS  
VESTA RANGES

I'm a  builder  dealer. Please rush me full details on the new Vesta Built-ins!

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City & State \_\_\_\_\_

ATHENS STOVE WORKS, INC.

DEPT. 7

ATHENS, TENNESSEE

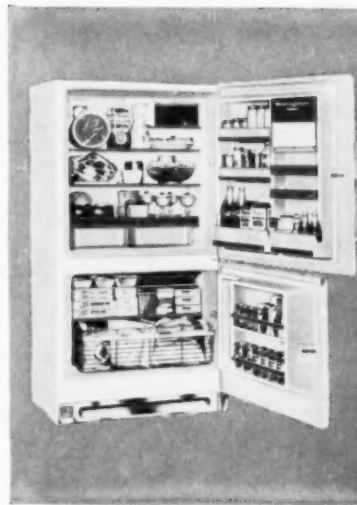


Now, from Westinghouse, comes this exciting new 14 cu. ft. refrigerator with revolutionary pull-out Center Drawer, so easy to use . . . see into . . . reach into. Use it as a powerful demonstration in your model homes. Special compartments in the exclusive new Center Drawer keep meats and vegetables fresh for days . . . even hamburger stays fresh a full week without freezing. Moreover, this new Cold Injector Westinghouse is Frost-Free throughout. There's no defrosting in the refrigerator . . . the freezer . . . or the Center Drawer. Doors open 90 deg. within cabinet width, and there are no coils on the back. In addition to 5 Cabinet colors\* and 8 Choose-N-Change Door Panels—40 combinations in all—there are doors in Coppertex and Brushed Chrome, enabling you to carry out any kitchen color scheme.

\*Mint Aqua (shown opposite with Westinghouse Heirloom Maple Wood Cabinets), Frosting Pink, Lemon Yellow, Sugar White, Coppertan.

## Newest Advance in Home Appliances

# CENTER DRAWER REFRIGERATOR FROM WESTINGHOUSE



Westinghouse Refrigerators come in all sizes from 9 to 16 cu. ft., and may be installed free-standing, or built-in. Accessory Trim Kits are available for all except the 9 cu. ft. models, for which trim may be made locally. All units have doors that open 90 deg. within cabinet width.

(Left)  
14 cu. ft. capacity, including 161 lb. bottom-mounted home freezer • Cold Injector System • Meat Storage Pan • Twin Porcelain Crispers. Dimensions: 33" w x 65 $\frac{5}{8}$ " h.

(Right)  
12.6 cu. ft. capacity, including 101 lb. top-mounted home freezer • No coils on back • Cold Injector System • 5 Colors, plus 8 Choose-N-Change Door Panels. Dimensions: 30" w x 64 $\frac{1}{4}$ " h.



WATCH "WESTINGHOUSE LUCILLE BALL-DESI ARNAZ SHOWS" CBS-TV ALTERNATE FRIDAYS



where everything is done electrically  
. . . even the heating



Wood and Steel Cabinets    Food Waste Disposers    Refrigerators and Freezers    Laundromats and Dryers



Dishwashers    Ovens and Platforms    Electric Water Heaters    Appliance Centers

YOU CAN BE SURE...IF IT'S **Westinghouse**

Send coupon for complete information on Westinghouse Appliances and Cabinets.

Westinghouse Electric Corp., Contract Sales Dept. AB-1  
216 East Fourth Street, Mansfield, Ohio.

- Please send descriptive catalog on Westinghouse Refrigerators, plus the complete line of other Westinghouse Appliances.
- Please have a representative call.

NAME \_\_\_\_\_  
TITLE \_\_\_\_\_  
COMPANY \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ ZONE \_\_\_\_\_  
STATE \_\_\_\_\_

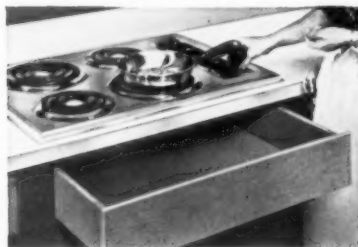


# New space-saver kitchen for \$10,000 homes

*The luxury of a Suburban built-in range  
plus unique stow-a-wall cabinets—  
both practical and profitable*

Designed by Bruce McCarty, A.I.A.  
PAINTER, WEEKS, McCARTY-ARCHITECTS

**1st** in a series of best-seller kitchens—all blueprinted and ready to use—each designed to give you the most value, the most *sales-talk* for a home in a specific price range. Suburban's Idea Kitchen shown here is for homes in the \$10,000 price range—a kitchen pre-engineered especially for a home of that price, a kitchen you can easily recreate in the home you build. The plans—complete with specifications, product lists and all the know-how—are yours free for the asking. Just mail the coupon at the bottom of this page.



## New cook-tops—a blessing to home buyer and builder

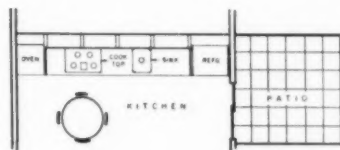
These beautiful, new Suburban thin-line units with recessed controls on top allow full, useable drawer space underneath—and pots and pans can't be knocked over by accidentally brushing against knobs.

Gas or electric, Suburban cook-tops are quickly installed (only one cut-out necessary) and easily removed or interchanged. All mounting screws are accessible from the top—no concealed mounting lugs, no special lugs needed for extra-thick counter tops.

## These cabinets built on the job, save space, cost; add storage

Now you can use the kitchen wall, ceiling *and* studs as part of your cabinets. This unique stow-a-wall design not only saves space and materials but adds *extra* storage that

home buyers love. The combination of stow-a-wall cabinets and a Suburban built-in range adds glamour that is otherwise difficult to achieve in a \$10,000 home.



## Free plans; free "Ideas File"

The sketch above shows how easily the Idea Kitchen presented on these pages may be adapted for varying space requirements. The details on design, equipment, sizes, dimensions and approximate cost are yours for the asking.

A specially prepared expansion-file, "New Home Ideas Kit," is also available for you to collect other ideas, articles and product dope with separate indexed sections for every room in the house. Just say "send it!"

**Samuel Stamping & Enameling Co.,**  
Department AB, Chattanooga 1, Tenn.  
I want more information on Suburban:  
Built-in Electric Ranges   
Built-in Gas Ranges   
I am an architect  realtor  kitchen  
remodeler  builder (sales mgr.)   
builder (chrg. of purchasing)   
Please send me free Kitchen Plan & Specs  
for \$10,000 Home   
free New Home Ideas File Kit

Name \_\_\_\_\_

Firm \_\_\_\_\_

Street \_\_\_\_\_

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

**suburban**<sup>®</sup>  
Built-in Ranges

LOOK FOR SUBURBAN IN YELLOW PAGES

*New General Electric built-ins—the ranges with all*



## New! Cooktop with Sensi-Temp automatic unit

This new built-in makes top-of-the-range cooking completely automatic. Temperature is simply dialed, and the automatic Sensi-Temp\* Unit maintains the perfect cooking heat.

Pushbutton panel with dial for automatic unit and other cooktop controls can be placed in back or side wall. Roomy 21-inch Custom oven has automatic timer and minute timer, charcoal-type broiler,

automatic rotisserie and meat thermometer, floodlight, two shelves and removable door.

General Electric Built-Ins offer so many other wanted features. There are single and double ovens, 2 and 4-unit cooktops, a wide range of Mix-or-Match colors and a choice of three types of push-button controls. Figure General Electric Built-In Ranges into *your* plans for 1960!

For specifications and installation information on all General Electric Built-In Ranges, contact your local distributor, or write Range Dept., General Electric Co., Appliance Park, Louisville 1, Ky.

\*Trademark of General Electric Company.

*The Golden Value Line of the 60's*

*the most-wanted features!*



## Popular Mark 27 one piece built-in

Practical glamour . . . that's the Mark 27. Compact, smartly designed, this one-piece built-in is easy to install in so many settings.

Features? Big capacity oven, removable oven door, automatic oven timer, minute timer, high-speed units with pushbutton controls—easy to see why more than 1000 builders have installed Mark 27's in the first four months of production alone.

**GENERAL**  **ELECTRIC**

APRIL 1960



SLIDES INTO PLACE—  
SAVES SPACE,  
TIME AND LABOR

**Only one unit to install,** one control to connect . . . needs space only 27" wide x 24" deep. Smart between cabinets or in island or wall installations. Leaves room for extra appliance or cabinet. Control mounts wherever convenient.

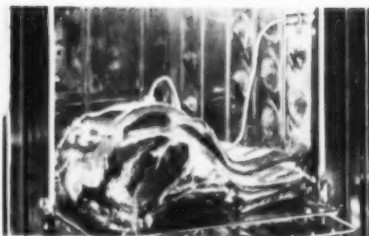
**Hefty savings, too** with the Mark 27. It takes one connection, needs no oven cabinet nor cook-top base cabinet. And you save on costly counter-top covering.

357

Show you know...



with a new **TAPPAN** Gas built-in  
that's won the **Gold Star!**



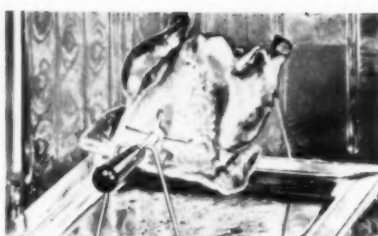
New features show you know quality!

This Tappan has the features women want—like automatic roast control, that turns Gas off when roast is perfectly done. Clock controls give perfect baking—and the famous Gas Burner-with-a-Brain® makes range-top cooking automatic, too!



Easy upkeep shows you know women's wants!

No messy boil-overs to clean up, when she cooks on the automatic Burner-with-a-Brain! This award-winning Tappan is easy-to-clean *all over*, too! Grates, racks, *even the oven bottom* lift out easily, wipe clean. Rustproof, stainproof surfaces resist dirt!



Good design shows you know kitchen planning!

This sparkling automatic rotisserie is sure to be the center of many a party meal. *Build it in* as a feature of your homes—at no extra construction cost—simply by choosing a modern, fully-automatic Gas range like this Tappan.

The Gold Star Award shows you  
know appliances!

This Gold Star is awarded by A.G.A. to the finest ranges of all. Each must be more automatic, more modern, better designed in every one of at least 28 specifications—to win a Gold Star. It means they cook faster, cooler, cleaner than ever—*automatically!*



**No wonder...**

The Gold Star sells for you, too! Most women judge your whole house by what they think of details like this—silly, perhaps, but true. When you build in a fabulous new Gas range, built to Gold Star standards they trust, *you build your reputation for quality!* The popularity of Gas helps sell your homes, too; remember, Gas is chosen to heat 8 out of 10 new homes! Call your local Gas company for help in planning better kitchens.

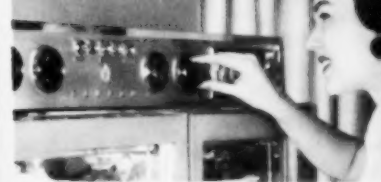
AMERICAN GAS ASSOCIATION

\*A.G.A. Mark ©Am. Gas Assoc., Inc.

**TAPPAN**

today more people than ever are cooking with  **GAS!**





All cooking controls at eye-level.



Two ovens and broiler at reach-in height.



Surface units that let the cook see into pans.



Cutting board where it's handiest.



Fabulous '400' shown here on a base cabinet—also hangs on wall. 40 inches wide, 25 $\frac{1}{2}$ " deep, adjusts to any height. Self-vented, no fans or hood needed.

# Tappan 'Fabulous 400'

Looks like a million  
Saves you  
**\$166**  
installation costs



**BUSINESS REPLY MAIL**  
First Class Permit No. 3 (C.F.R. 34.9), Mansfield, Ohio

**THE TAPPAN COMPANY**  
Dept. AB 4-0  
Mansfield, Ohio

**ATTENTION: MR. KEN BERKEY**



**Tappan**  
**30-inch wide**  
**'Debutante 400'**  
**installs for**  
**\$166 less than**  
**regular built-ins**



**QUICKEST, EASIEST BUILT-IN INSTALLATION YOU'VE EVER SEEN!**



11:00—wiring, vent roughed in



11:05—base cabinet in place



11:20—set and connect wires



11:30—soup's on!

**MAIL THIS COUPON for specific local material, equipment and labor costs**

Please supply me with complete specification, installation and model information on Tappan:

- 'Fabulous 400'     
  'Debutante 400'     
  Electronic Range  
 Built-In Gas Ranges     
  Built-In Electric Ranges     
  Built-In Refrigerators

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_

**PROOF: YOU SAVE \$166  
 INSTALLING EITHER  
 '400' RANGE**

	<b>Save*</b>
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
	<b>\$166.00</b>

\*Savings approximate

Gas, electric or electronic, nothing cooks or looks like a

**TAPPAN**

Mansfield, Ohio; Montreal, Quebec

17" and 24" built-in electric ovens

New, easy-to-install electric surface units

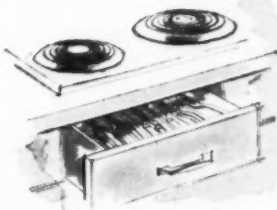


## NEW RCA WHIRLPOOL

# BUILT-IN COOKING CENTERS



**Removable oven door**  
Eliminates tiresome stretching when cleaning oven interior. Lifts on and off easily.



**New Thintop\* design**  
Enables storage drawers to be placed directly under electric range top. No waste space.

**add a roomful of buying reasons to your homes!**

Look at all these cooking extras. Balanced-Heat ovens that baste meats, make shish-kabobs, barbecue, bake, start and stop cooking, and signal when done . . . all automatically. Range tops feature automatic surface units that maintain constant heats, built-in griddle, infinite heat controls and exclusive Dispos-A-Bowls\* for quicker cleaning. Gas or electric models in choice of colors.

\*Tmk.




*Your family will love our family of home appliances*

**RCA Whirlpool**

Products of WHIRLPOOL CORPORATION St. Joseph, Michigan

**It's easier to sell RCA WHIRLPOOL equipped homes!**

Use of trademarks  and RCA authorized by trademark owner Radio Corporation of America

Contract Sales Division AB-1-0  
Whirlpool Corporation, St. Joseph, Michigan  
Please send me complete information on the new RCA WHIRLPOOL built-in ranges.

Name \_\_\_\_\_ Title \_\_\_\_\_

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

Firm Address \_\_\_\_\_

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

County \_\_\_\_\_ State \_\_\_\_\_



# It goes in fast

Builders say the new General Electric Dishwasher is the easiest, quickest dishwasher to put in its place. ¶ And it just happens to wash dishes better than any other dishwasher. So why break your back and waste valuable time with lesser machines? ¶ And why mess with dishwashers that lack the very essence of dependability and customer confidence embodied in the "General Electric" name. Why?

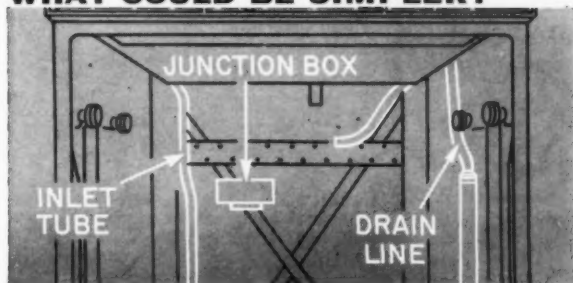
THE GOLDEN VALUE LINE OF THE 60's





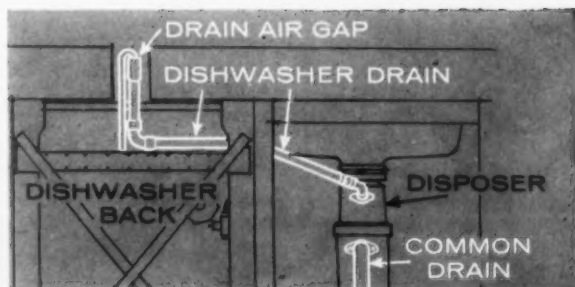
# ...you get out fast

## WHAT COULD BE SIMPLER?



**Saves time and work.** Tub rolls out of cabinet while you make electrical and plumbing connections. (Four wood wedges let you shim and level cabinet while in place.)

Available in five colors, five woods and three new fashion finishes. It's the only dishwasher with Power Shower, top and bottom washing action and four cycles. Who knows, it might just help you sell your homes faster! General Electric Company, Louisville 1, Kentucky.



**Sanitary Air Gap.** Provides maximum sanitation, uses one drain for both dishwasher and sink. (Optional: sanitary drain which utilizes existing sink.)

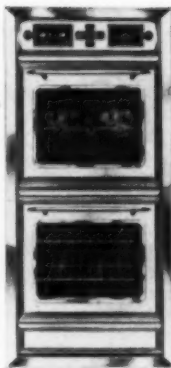
*Progress Is Our Most Important Product*

**GENERAL  ELECTRIC**

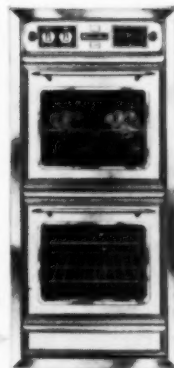
# Modern Maid

THE ONLY LINE OF BUILT-INS WITH INTERCHANGEABLE GAS AND ELECTRIC DOUBLE OVENS AND "SUPER THIN" TOPS

**MODERN MAID**  
SCORES AGAIN WITH THE INTRODUCTION OF THE DOUBLE OVEN GAS BUILT-IN AND THE AMAZING NEW "INFRA-RAY" CERAMIC BURNER



GO-103PAR



EO-103PR

EACH MODEL HAS 2 FULL-SIZE 18 INCH WIDE OVENS.  
INTERCHANGEABLE

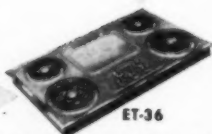
"SUPER THIN" RANGE TOPS ONLY 3" DEEP

DROP IN ABOVE DRAWER SPACE



GT-36

36-INCH "SUPER THIN" BUILT-IN RANGE TOP WITH 4 SURFACE UNITS AND GRIDDLE.



ET-36

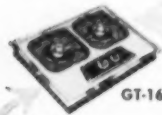


GT-30

30-INCH "SUPER THIN" RANGE TOP ALSO DROPS IN ABOVE DRAWER SPACE.

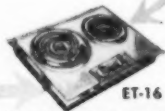


ET-30

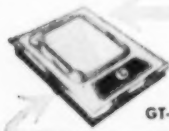


GT-16

TWO BURNER "SUPER THIN" DROP-IN TOPS — COMPLETELY INTERCHANGEABLE

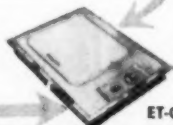


ET-16



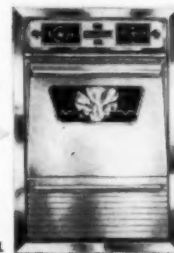
GT-G

GRIDDLE UNITS WITH COVERS ALSO INTERCHANGEABLE



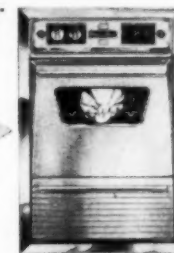
ET-G

GO-42PAR



CONVENTIONAL SINGLE OVEN MODELS ALSO INTERCHANGEABLE

EO-82PR

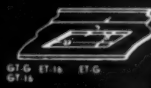
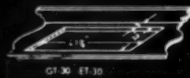
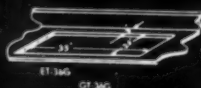
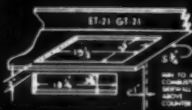
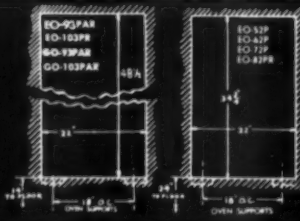


GT-21

4-UNIT COOKING TOPS WITH FRONT CONTROLS. NO EXPOSED BOLTS ON TOP. INTERCHANGEABLE



ET-21

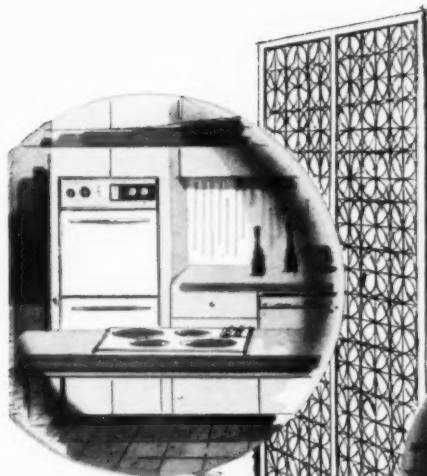


**TENNESSEE STOVE WORKS CHATTANOOGA 1, TENNESSEE**

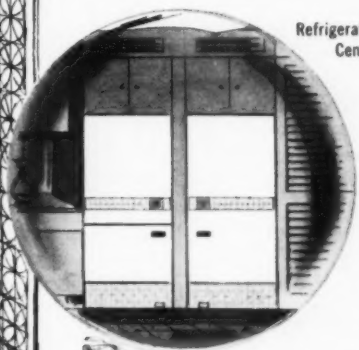
# How to plan a "Holiday from Apron Strings" Kitchen

## one light-hearted center at a time

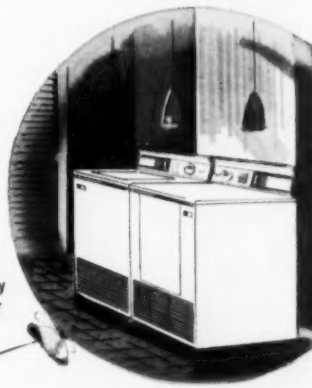
Here, in handy, easy-to-use form, is your 1960 Frigidaire Planning Guide to more usable, salable kitchens. All information is organized to help you plan the way women think—in terms of time-saving, step-saving work centers: Food Preparation Center, Kitchen Clean-up Center, Refrigerated Food Center, Laundry Center, and even a Kitchen Comfort Center. A feature-packed consumer version of this Planning Guide appears in many leading home building annual and semi-annual magazines. Your best prospects are directed to bring their ideas, along with this Planning Guide, to you for a modern, built-in "Holiday from Apron Strings" kitchen.



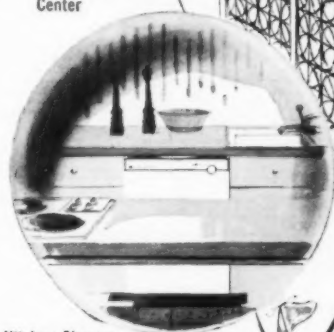
Food Preparation Center



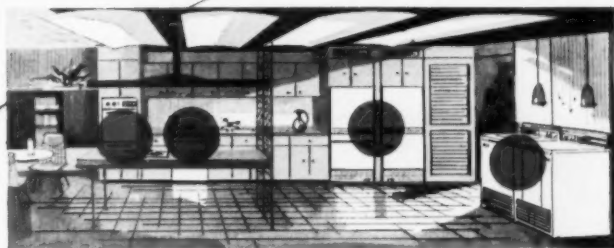
Refrigerated Food Center



Laundry Center



Kitchen Clean-up Center



*She'll feel like a queen in your new home or remodeled kitchen!*

**Built-Ins and Free-Standing Appliances... Dimensions and Ideas! These 4 pages can help you...**

Here's how—all the facts you need, including sizes, colors, models, and dimensions of Frigidaire Appliances to aid you and your architect. Advanced appliances designed to make women home-hunters linger longingly in your model kitchen. No matter what price homes you build or remodel, new Frigidaire completeness of line gives you more flexibility, makes it possible for more families to enjoy modern living—Frigidaire-style!

### Why choose Frigidaire?

- "Sculptured Sheer Look" styling that blends in beautifully with standard wood or steel cabinetry.
- Most models available in 5 lovely-to-live-with Kitchen Rainbow Colors: Sunny Yellow, Mayfair Pink, Turquoise, Charcoal Gray, and Aztec Copper—plus Snowcrest White and Satin Chrome.
- Products of General Motors, engineered and built to be a lasting improvement to your home.
- Factory-trained Service through Frigidaire dealers everywhere.

**1960 FRIGIDAIRE Planning Guide**

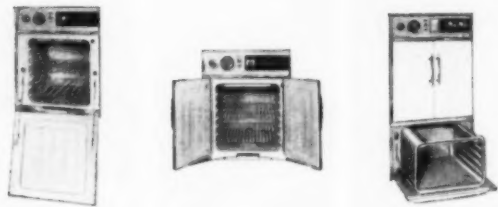
# Good lookin', good cookin' and

Eight new wall ovens to fit any home, any budget!

Food  
Preparation  
Center



Now easiest-ever oven cooking! Three beautiful new double-oven models! Controls are easy to read and reach. Automatic Cook-Master Control, simplest-to-set ever, turns oven on, cooks dinner, turns off when foods are done. Famous Frigidaire Spatter-Free Broiler Grill (standard on RBGB-99, RBB-99 and RBB-92, optional all others) for broiling time and again without cleaning the oven.



Frigidaire Wall Ovens are designed to end cleaning drudgery forever! Left—Imperial RBGB-99, (shown with Imperial Cooking Top RBB-101) and Custom DeLuxe RBB-98 Double Ovens offer two Drop-Leaf Doors that lower all the way down for easiest cleaning. Above left—DeLuxe RBB-94 (illustrated) and Super RBB-93 feature single Drop-Leaf Doors. Above center—Imperial RBB-90 has space-saving French Doors that take up to 10" less opening space. Above right—New Custom Imperial RBB-92 has French Doors on top oven, Drop-Leaf Door on the lower oven. RBB-92, RBGB-99 and RBB-99 models offer exclusive easier to clean Pull 'N Clean lower oven.

**Frigidaire Features for gracious living.** Eight double and single oven models only 23 1/4" wide. Optional Automatic Rotisserie for all models except Super RBB-93. Meat Tender Roast Control and Broiler Grill Control included on Imperial RBGB-99 and RBB-99 and Custom Imperial RBB-92. Time Signals and Automatic Signal Lights on most models. Models RBGB-99 and RBGB-94 also have glass window doors. Simplified installation—RBB-90 and RBB-92 are mounted in minutes with new lever-action clamps, all others install in a jiffy with concealed screws. All models available in 5 Frigidaire Kitchen Rainbow Colors or Satin Chrome finish.



Model	Exterior Dimensions—Inches		
	Height	Width	Depth
A. Super RBB-93	29 3/4	23 1/2	23 1/2
A. DeLuxe RBB-94*	29 3/4	23 1/2	23 1/2
B. Custom DeLuxe RBB-98	44 1/2	23 1/2	23 1/2
A. Imperial RBB-90	29 3/4	23 1/2	23 1/2
B. Imperial RBB-99*	44 1/2	23 1/2	23 1/2
B. Custom Imperial RBB-92	44 1/2	23 1/2	23 1/2

\*Specifications also apply to glass window door models RBGB-94 and RBGB-99



Model	Wall Opening Dimensions—Inches		
	Height	Width	Depth
C. Super RBB-93	28 1/2	21 1/2	23 1/2
C. DeLuxe RBB-94*	28 1/2	21 1/2	23 1/2†
D. Custom DeLuxe RBB-98	44	21 1/2	23 1/2†
C. Imperial RBB-90	28 1/2	21 1/2	23 1/2†
D. Imperial RBB-99*	44	21 1/2	23 1/2†
D. Custom Imperial RBB-92	44	21 1/2	23 1/2†

\*Specifications also apply to glass window door models RBGB-94 and RBGB-99 †For optional Rotisserie, add 1/2" to depth.

## Cooking Top Convenience, Finger-tip Controls



Frigidaire Built-In Cooking Tops are available in 5 Kitchen Rainbow Colors or Satin Chrome. (Super RBB-102, Satin Chrome only.) Super model installs with spring-clips. All others mount with two clamps. Optional Hudee Ring, except RBB-102.

**Super RBB-102:** 3 Standard 6" Units and 1 Standard 8" Unit. Aluminum Drip Bowls. **DeLuxe RBB-100:** 2 Standard 6" Units and 2 Standard 8" Units. Porcelain Enamel Drip Bowls. **Imperial RBB-101:** 1 Speed Heat Unit, 6". 1 Heat-Minder Unit, 8". 1 Standard 6" and 1 Standard 8" Unit. Porcelain Enamel Drip Bowls. **Custom Imperial RBB-201:** Same Units as RBB-101. Remote Controls. Time Signal. Porcelain Enamel Drip Bowls.

Model	Cooking Top Dimensions—Inches			
	Width	Depth	Depth Below Top of Counter	Counter Top Opening Width Depth
Super RBB-102	23	21	3 1/2	22 1/2 20
DeLuxe RBB-100	32 1/2	20 1/2	3 1/2	31 19
Imperial RBB-101	32 1/2	20 1/2	3 1/2	31 19
Custom Imperial RBB-201	32 1/2	20 1/2	3 1/2	31 19

## Fold-Back Surface Units for Extra Space



Frigidaire Fold-Back Surface Units install on the counter-top, fold back out of the way (even while hot). Smart Satin Chrome. Single 2-Unit (24"), or 4-Unit (48") Double Assemblies. 8" Heat-Minder and 6" Speed-Heat Units on RBB-82 and RBB-84.

**DeLuxe RBB-81:** 1 Standard 6" Unit. 1 Standard 8" Unit. Porcelain Enamel Drip Bowls. Left-Hand Control Panel. **Imperial RBB-82:** 1 Speed-Heat Unit, 6". 1 Heat-Minder Unit, 8". Porcelain Enamel Drip Bowls. Right-Hand Control Panel. **Custom Imperial RBB-84:** 1 Speed-Heat Unit, 6". 1 Heat-Minder Unit, 8". 1 Standard 6" Unit. 1 Standard 8" Unit. Porcelain Enamel Drip Bowls. Left and Right-Hand Control Panels.

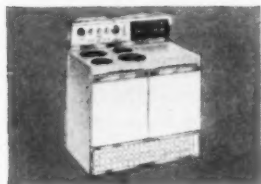
Model	Fold-Back Surface Unit Dimensions—Inches					
	Width			Height		Depth
	Overall	Each Fold-Back Section	Control Panel	Overall	Units in Operating Position	Units in Operating Position
DeLuxe RBB-81	23 1/2	20 1/2	3 1/2	14 1/2	4	5 1/2 17 1/2
Imperial RBB-82	23 1/2	20 1/2	3 1/2	14 1/2	4	5 1/2 17 1/2
Custom Imperial RBB-84	47 1/2	20 1/2 (2)	3 1/2 (2)	14 1/2	4	5 1/2 17 1/2

## 1960 FRIGIDAIRE Planning Guide



*such a joy to use and clean!*

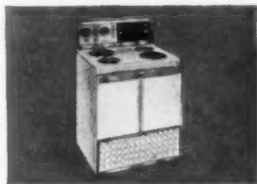
Eleven brand new Ranges... eight with Pull 'N Clean Ovens!



40" Model RCI-75-60 with Double Pull 'N Clean Ovens!



40" Model RD-20-60, the most range for the money!



30" Model RCI-39-60 with a Frigidaire only—French Doors!



30" Model RD-38-60, many top-line features for a budget kitchen!

If she prefers a free-standing range for her new or remodeled kitchen, 1960 Frigidaire Automatic Electric Ranges offer cooking with confidence and cleaning without slaving! All 30" and 40" models feature the new "Sculptured Sheer Look" to make them the most feminine ranges ever. Clean, simple design eliminates dirt-catching cracks and crevices, gives that built-in look without extra construction expense. All are available in gleaming Snowcrest White, and many in choice of five Kitchen Rainbow Colors.



Features to make any woman feel like a Queen!

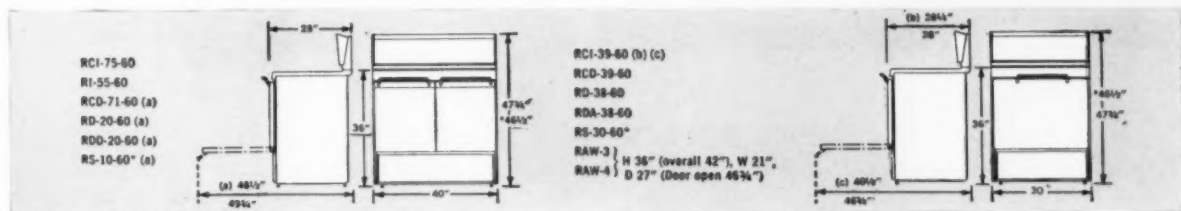
Pull 'N Clean Ovens slide out like a drawer for easiest cleaning. On all Custom Imperial (both ovens on RCI-75-60), Imperial, Custom DeLuxe (both ovens on RCD-71-60), and DeLuxe except RDA-38-60.

Cook-Master Automatic Oven Controls on most models.

Automatic Heat-Minder Units and extra-fast Speed-Heat Unit on RCI-75-60, RCI-39-60, RI-55-60 and RCD-39-60.

Infinite Heat Surface Unit Controls (except RAW-3, RAW-4). Lift-up, Stay-up Hinged Units and Removable Porcelain Enamel Drip Bowls on all models.

Built-In Electric Clock and Separate Electric Time Signal on all models except RS-10-60, RS-30-60, RAW-3, RAW-4. All Frigidaire Ranges are wired for 115/230—120/240 volt, 3-wire service. 120/208 volt models are available on special order. Models operating on other electrical frequencies are available for export.



## Frigidaire Dishwashers

Swirling Water Action scrubs and sanitizes every dish!



Here's real kitchen convenience! Front-loading Roll-to-You Racks glide out smoothly, load easily, hold a full day's dishes, pans and silver for average family of four. Swirling Water Action scrubs, rinses and sanitizes every dish from between the racks. No dish can hide!



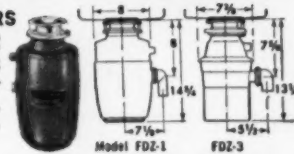
### Frigidaire Features for a "Holiday from Apron Strings"

Custom Imperial Models feature two fresh detergent washes, and three rinses (including final "Spots-Away" rinse) plus heated-air drying. DeLuxe Model has one wash. "Snap-on" lower panel speeds installation and service. New 1000-watt Radiantube Heating Unit for better washing and drying. New Drain-Guard and Strainer keeps food particles from being re-deposited on dishes. Under-counter models available in 5 Kitchen Rainbow Colors plus Snowcrest White and Satin Chrome. Free-standing in Snowcrest White only (colors optional). Custom Imperial Dishwasher-Sink Combination in Mayfair Pink, Turquoise, Sunny Yellow and Snowcrest White.



### FRIGIDAIRE DISPOSERS

30% to 35% faster! Quiet—insulated jacket (FDZ-1) and rubber cushioned connections. Fits most 3 1/2" drain-opening sinks.



Model	Height		Width	Depth		
	Overall	Work Surface		Counter-Top	Over Hardware	Door Open
DeLuxe Under-counter DW-DUB	34 1/2"	—	23 1/2"	—	25 3/4"	44 3/4"
Custom Imperial Under-counter DW-IUB	34 1/2"	—	23 1/2"	—	25 3/4"	44 3/4"
Custom Imperial Free-standing DW-IFB	40	36	24	25 1/2"	26 3/4"	46
Custom Imperial Dishwasher-Sink DW-ISB	40	36	48	25	25 3/4"	45 1/2"

1960 FRIGIDAIRE Planning Guide

# Frost-Proof Refrigerators and Freezers

for the handiest, finest foodkeeping possible!



**Guaranteed\* Foodkeeping without Frost!** "Sculptured Sheer Look" styling! Frost is stopped before it starts! No frost to defrost! So practical for recessed "built-in" installations. Many models in 5 colors or Snowcrest White.

## FRIGIDAIRE REFRIGERATORS

Frost-Proof Freezer Section (FPI-15B-60, FPI-13B-60, FPI-13T-60, FPD-13T-60)

Flowing-Cold Refrigerator Section (FPI-15-B-60, FPI-13B-60, FPI-13T-60, FPD-13T-60, FI-13T-60, FD-13T-60, FD-13-60)

Cycla-matic Defrosting in refrigerator section\*\*

Completely separate Zero Zone Food Freezer\*\*

Flowing-Cold Meat Tender (FPI-15B-60, FPI-13B-60, FPI-13T-60, FI-13T-60)

Flip-Quick Ice Ejector (FPI-15B-60, FPI-13B-60, FPI-13T-60—optional in all other models)

Removable Full-Width Metal Shelves all models.

\*FPI-15B-60, FPI-13B-60, FPI-13T-60, FPD-13T-60, FI-13T-60, FD-13T-60, FD-13-60, FD-11-60.



FPI-15B-60

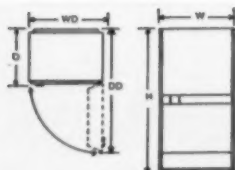


UFPI-16-60

## FRIGIDAIRE UPRIGHT FOOD FREEZERS

4 Full-Width, Full-Depth Shelves. "See-Thru" Removable Grille Fronts tilt down to become loading shelves (UFPI-16-60 and UFPI-15-60). Glide-out Basket Drawer(s) (except UFD-10-60 and UFD-12-60). 5 Full-Width Removable Door Shelves (4 in UFD-12-60). Adjustable Cold-Control.

\*Frigidaire Frost-Proof Guarantee—Without any cost to owner or user, at any time within one year from date of delivery, Frigidaire will make all necessary adjustments to the Frost-Proof Refrigerator-Freezer or Food Freezer to prevent accumulation of frost!



Refrigerators	H	W	WD*	D	DD*
Super SA-9-60	57½	24	26¾	28½	47¾
SS-9-60	57½	24	26¾	28½	47¾
S-9-60	57½	24	26¾	28½	47¾
DeLuxe DA-11-60	64	28	31½	28½	52½
D-11-60	64	28	31½	28½	52½
D-13-60	64	32	35½	28½	56½
FD-11-60	64	28	31½	28½	52½
FD-13-60	64	32	35½	28½	56½
FD-13T-60	64	32	34¾	28½	56½

\*Required only when cabinet is against wall on hinge side of door.

Refrigerators	H	W	WD*	D	DD*
Imperial FI-13T-60 ††	64	32	35½	28½	56½
DeLuxe Frost-Proof FPD-13T-60	64	32	34¾	28½	56½
Imperial Frost-Proof FPI-13T-60 ††	64	32	35½	28½	56½
FPI-13B-60 ††	64	32	35½	28½	56½
FPI-15B-60 ††	69½	32	35½	29½	57

††Also available in white porcelain enamel.

†Additional 2" required if lock on left flush with front

Upright Food Freezers	H	W†	WD*	D	DD*
DeLuxe UFD-10-60	64	28	29¾	29½	53
UFD-12-60	64	32	33¾	29½	57
UFD-15-60	69½	32	33¾	30½	58½
UFD-21-60	70	36	43¾	32½	65½
DeLuxe Frost-Proof UFD-16-60	69½	32	33¾	30½	58½
Imperial UFI-15-60	69½	32	35¾	30½	58½
Imperial Frost-Proof UFPI-16-60	69½	32	35¾	30½	58½

# Frigidaire Automatic Washers and Dryers

No matter what she'll wash and wear... she'll feel like a Queen!



Designed for satisfaction... a "Three-Ring Agitator" Washer that bathes deep dirt out without beating! And a perfectly matched "Wrinkles-Away" Dryer. Equip your homes with the washer that's rated No. 1 for All-Around Performance by the U.S. Testing Co., Inc.† Many models available in choice of 5 colors or Snowcrest White.

## Washer and Dryer Dimensions

x Overall Height varies as follows:  
 Custom Imperial Washer and Dryer 45"  
 Imperial Washer and Dryer 45"  
 Custom DeLuxe Washer and Dryer 43¾"  
 DeLuxe and Super Washers and Dryers 42"

\* The Frigidaire Washer proved best of 6 leading automatic washers in controlled laboratory tests. Report No. 63243, dated January 26, 1960.

††55" (width—Custom Imperial pair)  
 †30" for Custom Imperial Dryer



## FRIGIDAIRE STEREO-COOLING

—a new dimension in room air conditioning that gently surrounds you with cool, dry, quiet comfort... now available in three smartly-styled Imperial models (AI-100, AI-100M and AIR-100). Attractive "thru-the-wall" application is easy with low-cost "pre-installation" kit.

Frigidaire reserves the right to change specifications and prices, or to discontinue models, without notice.

13 High-Capacity Models—3 Cabinet Sizes	Model	Width	Depth	Height	Cooling Capacities BTU/HR.*
Imperial AI-100, AIR-100†, AI-100M		26	18½	16	8,000 to 10,000
	Custom DeLuxe ACD-100†, ACD-100, ACDM-100†, ACD-120†	26	18½	16	6,000 to 12,100
DeLuxe AD-100L, AD-100M, AD-100		25	15¾	20½	6,000 to 9,500
	Super AS-100L	25	15¾	20½	6,000
Heavy Duty Imperial AI-150, AI-200		26	37¾	16½	14,100 to 16,500

\* "All-Seasons" models with cooling and heating.  
 † "Lone Star" model provides continuous cooling and dehumidification even when the weather is mild and humid.  
 †† NEMA Standard CNI-1958

**FRIGIDAIRE**  
 Product of General Motors

*Advanced Appliances designed with you in mind*

For more information, and detailed individual specification sheets ask your Frigidaire Bullder Representative, Dealer or write FRIGIDAIRE Division, Dayton 1, Ohio.

built-in evidence of quality construction

# KitchenAid®

THE BUILDER'S DISHWASHER



KITCHENAID, the finest made... by Hobart, the World's Largest Manufacturer of Food, Kitchen and Dishwashing Machines.

Your built-in appliances go a long way in carrying the quality appeal of your homes to your prospects—especially a built-in KitchenAid dishwasher which says immediately and emphatically, "This is a quality house!" Home buyers want the convenience of automatic dishwashing and they know that KitchenAid represents the finest made.

KitchenAid's reputation for rarely needing service is a very important long-range sales advantage for the builder. The word-of-mouth advertising of a satisfied homeowner pays off again and again in more homes sold.

Millions of home-buying prospects know about the superior features of KitchenAid through continuous national advertising... through other satisfied users. They know that no other dishwasher can match its washing and drying features. And they know that the builder who includes a KitchenAid dishwasher in his plans is a *quality builder*.

KitchenAid Home Dishwasher Division, Dept. KAB  
The Hobart Manufacturing Co., Troy, Ohio

- Please send complete information and specifications on the complete line of KitchenAid dishwashers.
- Please send name of nearest distributor.

Name \_\_\_\_\_

Firm \_\_\_\_\_

Address \_\_\_\_\_

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

Each time you specify **KitchenAid**...it starts to sell for you

The Golden Value Line of the 60's...



## GENERAL ELECTRIC'S **PPP** PROFIT THROUGH PLANNING

**"Profit" is PPP's middle name and the name belongs to General Electric**

**P**LANNED PROFIT PACKAGE is the way General Electric Major Appliances (The Golden Value Line of the 60's) can help you net more dollar profit.

A big part of the plan is Planning and Styling Help, and here's what it includes:

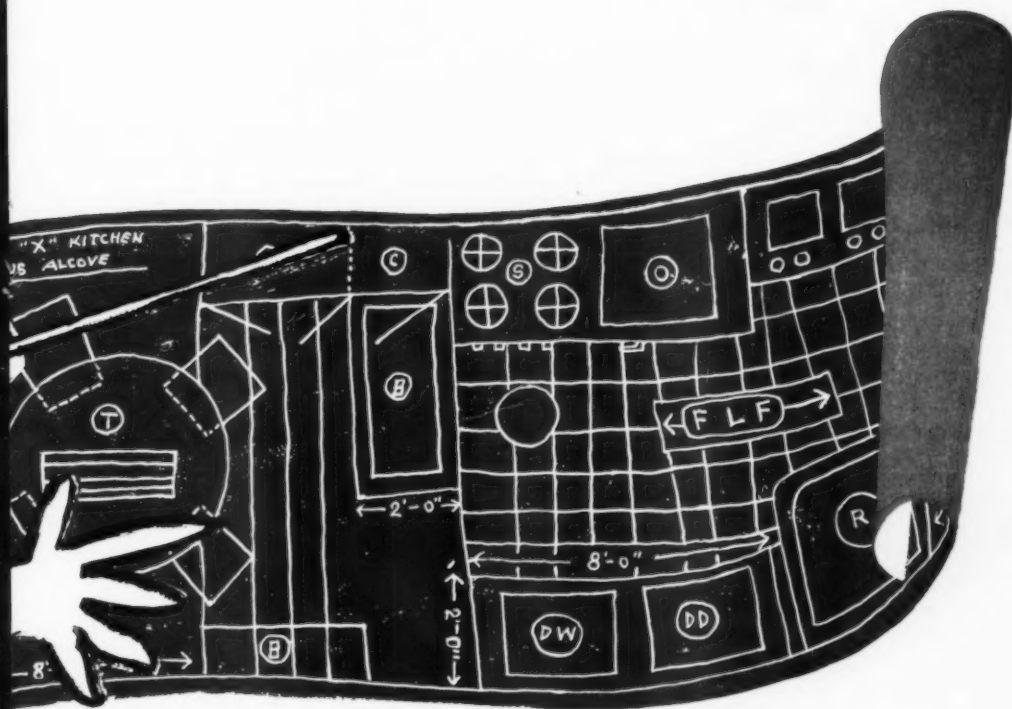
- Custom Kitchen Design Service, available at no cost to you through your General Electric distributor or dealer.
- Help with layouts and color coordination.
- Assistance from General Electric builder sales

specialist in planning your kitchen—positioning of appliances to conserve maximum space; ways to get more use of space for your money; other tips on saving costs.

It all adds up to *more* profit for you!

**Would you like** to know the other ways you can save money through General Electric? Then send for the "PLANNED PROFIT PACKAGE" kit with information about planning and styling help, product availability, complete merchandising program, product service and much more.

# The Golden Value Line of the 60's



## GIVES YOU MORE AND STYLING HELP



As an authorized builder of "Live Better Electrically" MEDALLION HOMES, you get prestige and promotional advantages. Ask your local utility about this program.

*Progress Is Our Most Important Product*

**GENERAL  ELECTRIC**

APRIL 1960

For information, mail coupon to:  
General Electric Co., Home Bureau,  
Appliance Park, Louisville 1, Ky.

Have local General Electric builder  
sales representative contact me.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

AB-4

## 6-IN-ONE

### "BIG SIX" NEWS FOR BUILDERS

GENERAL CHEF combines six kitchen-essentials in one compact, efficient unit:

**REFRIGERATOR • OVEN • SINK  
STOVE • FREEZER • STORAGE**

Every model available in white or several wood-grain finishes. Entire base unit factory-assembled and shipped in one crate. Available on all units: garbage disposal; one-piece stainless steel tops. And don't forget: GENERAL CHEF is the only Complete Kitchen Unit with factory-owned, nation-wide sales and service.



For complete details write:  
General Air Conditioning Corp.  
Dept. J-14, 4542 E. Dunham St.  
Los Angeles 23, California

**GENERAL CHEF**  
World's largest-selling  
**COMPLETE KITCHEN UNIT**

## BRAND NAMES DIRECTORY

(Continued from page 298)

SPARTAN Mansfield Sanitary Inc  
SPARTAN Parker S Hdwe Mfg Corp  
SPARTAN (SPLITTER) Lithibar Co  
SPECIAL 12 Johnsons Wax  
SPECIAL 16 Johnsons Wax  
SPECIALMESH Inland Steel Products Co  
SPECIFICATION Allied Chemical Corp  
SPECIFICATION GRADE DEVICES Lev-  
iton Manufacturing Co Inc  
SPECTRIM Pittsburgh Plate Glass Co  
SPECTRO-MATIC TINTING SYSTEM  
Rockcote Paint Company  
SPECTRO-MATIC WOOD TONES Rock-  
cote Paint Company  
SPEE-DEE Dalton Mfg Co  
SPEED Louisville Cement Co  
SPEED Speedway Mfg Div Thor Power  
SPEEDAIRE Dayton Electric Mfg Co  
SPEED-BARROW American Conveyor Co  
SPEEDCAT Mead Specialties Co  
SPEED CLIPS Tinnerman Products Inc  
SPEDECK Mobile Paint Mfg Co  
SPEE DEE PRINTER Copymation Inc  
SPEED-GRITS Behr-Manning Co  
SPEED LOADER Macklanburg-Duncan  
SPEEDMASTER Copymation Inc  
SPEED NUTS Tinnerman Products Inc  
SPEED QUEEN Speed Queen Div  
SPEED-RAIL Hollaender Mfg Co  
SPEEDRIL Lockwood Hardware Mfg Co

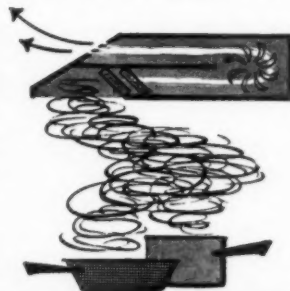
(Continued on page 374)

Now, every kitchen can have

## PURIFIED AIR ... with NO outside ducts!

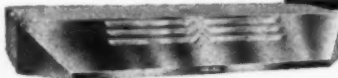
**DUCTLESS HOOD**  
banishes cooking odors...  
removes smoke, grease—even  
pollen—by a time-tested  
scientific miracle. This is the  
magic of Activated Charcoal  
—the substance that purifies  
the air men breathe in  
atomic submarines.

**SIMPLE TO INSTALL...**  
**DUCTLESS HOOD**  
uses no expensive outside  
vents or louvres. Instead,  
powerful motor-blowers re-  
circulate kitchen air through  
filters to remove impurities.

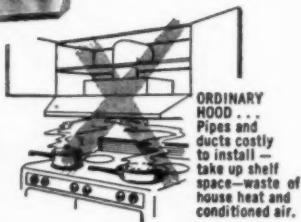


**Ductless Hood**

U. S. Patent No. 2886126



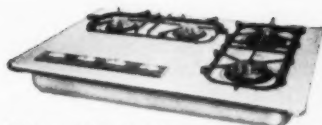
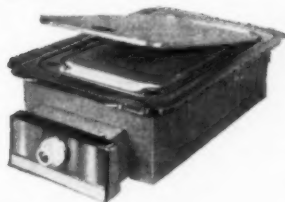
**TOTAL FREEDOM  
IN KITCHEN DESIGN!**  
**DUCTLESS HOOD** is self-  
contained, permitting kitchen  
units to be placed in any  
desired location. Sizes  
and colors for every decor.  
*For other rooms—the built-in  
DUCTLESS AIR PURIFIER*



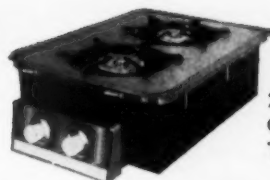
**ORDINARY  
HOOD...**  
Pipes and  
ducts costly  
to install—  
take up shelf  
space—waste of  
house heat and  
conditioned air.

Write for literature: **THE DUCTLESS HOOD CO., INC.**  
Dept. 75, 601 Plandome Rd., Manhasset, N. Y.

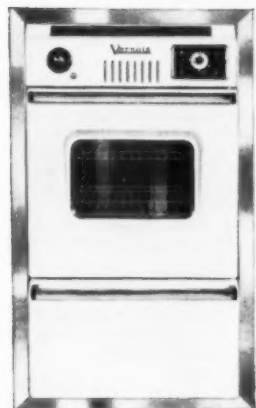
**GAS GRIDDLE**  
Available with or without  
Thermostatic Controls



**"SHADOW SLIM"**  
4-burner GAS DROP-IN UNIT.  
Requires only single top cut-out.



2-burner  
GAS COUNTER-  
TOP UNIT



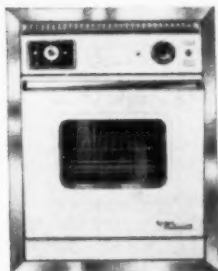
GAS OVEN  
with low broiler



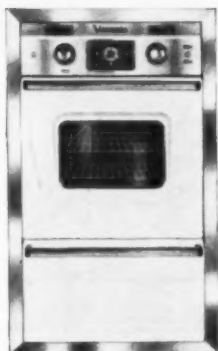
2-burner  
ELECTRIC COUNTER-  
TOP UNIT



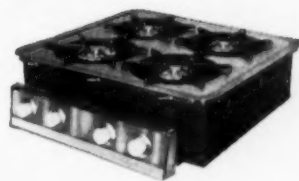
4-burner  
ELECTRIC  
COUNTER-TOP  
UNIT



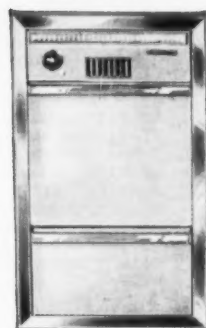
**BROILMASTER ELECTRIC OVEN**  
with high broiler



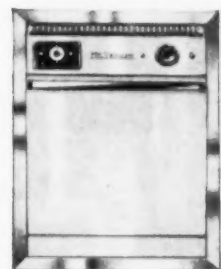
**BROILMASTER  
ELECTRIC OVEN**  
with low broiler



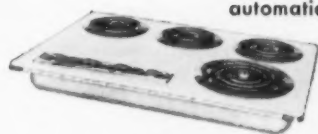
4-burner  
GAS COUNTER-  
TOP UNIT



MT. VERNON  
"BUILDER'S SPECIAL"  
Gas Oven with low broiler



MT. VERNON  
"BUILDER'S SPECIAL"  
Electric Oven with  
high broiler and  
automatic clock



**"SHADOW-SLIM"** 4-burner  
ELECTRIC DROP-IN UNIT.  
Requires only single top cut-out.

and now for '60 . . .  
**THE BIGGEST NEWS  
IN BUILT-INS!**



**GIANT CAPACITY  
DOUBLE OVENS!**

- Gas and electric models — fully automatic, with clock controls
- A wide, wide 18" — top oven 16" high, 19½" deep, lower unit 14" high
- The only gas oven on the market with flame-set controlled broiling
- Cast aluminum frame fits into 24" cabinet
- Also promotional models for builders
- Nationally advertised

**LOOK FOR THE "BIG D" IN '60!**

**MT. VERNON  
FURNACE & MFG. CO.**  
Mt. Vernon, Illinois

Dealers and Distributors: Write Today for Literature and Prices.  
Some Territories Still Open for Qualified Distributors.

## BRAND NAMES DIRECTORY

(Continued from page 372)

STANDARD DUOLOX Masonite Corp  
STANDARD-FLUSH DOOR Hardwood Products Corporation  
STANDARD I F B COMBUSTION CHAMBER Green A P Fire Brick Co.  
STANDARD PRESSEDWOOD Masonite Corp  
STANDARD-SPEED MASTER Handley-Brown Co  
STANLEY-HANDYMAN Stanley Tools  
STANLOCK Standard Register Co  
STANSCREW Stanscrew Fasteners Div  
STANTHONY Stanthony Corp  
STAR Richbilt Manufacturing Co  
STARALUM ALCLAD Hanover Wire  
STAR BRAND Turner & Seymour Mfg Co  
STARBRITE Hanover Wire Cloth Div  
STAR DRYVIN HAMMERDRIVE Star Expansion Industries Corp  
STAR GRIPZIN Star Expansion Indus  
STAR HAMRFLUTE Star Expansion  
STARLIFE Hanover Wire Cloth Div  
STAR LIGHT Thomas Industries Inc  
STARLINE O'Keefe & Merritt Co  
STARLINER AURORA PUMP DIV New York Air Brake Co  
STARLITE Elkay Mfg Co  
STAR PINGRIP Star Expansion Indus  
STARRETT Starrett L S Co  
STAR SSS SELFDRIIL SHIELDS Star Expansion Industries Corp  
STAR STRIKR Star Expansion Indus Corp

STAR STUDS Star Expansion Indus Corp  
STA-TITE Sta-Tite Inc  
STAY BACK Henry W W Co  
STAYBRITE Horn A C Companies Inc  
STAY-RIB Inland Steel Products Co  
STAY-STRATE United States Plywood  
STAZON Plastic Products Co  
STEAROLITH Master Builders Co  
STEELBINDER Gerrard A J & Co  
STEEL-FASHIONED Walters Mfg Co  
STEELITE Cloday Corp  
STEELMASTER Stanley Tools  
STEEL-PAK Slant-Fin Radiator Corp  
STEELTEX Pittsburgh Steel Products  
STEEL-X Taber Bushnell Inc  
STEEP-SLOPE Bennett-Ireland Inc  
STEP SAVER Schenck William & Co  
STERGLAZE Sterling Quality Prods Inc  
STEREO-COM Music & Sound Inc  
STERLING Waldorf Heater Co  
STERLING (GRINDERS) McDonough Manufacturing Company  
STEWART-AIRE Stewart Industries Inc  
STILEMAKER Russell & Erwin Div  
STILEMANOR Russell & Erwin Div  
STILE MATE Grand Rapids Hardware Co  
STILLE-YOUNG Chicago Bronze & Color  
STIL-WITE Moore Benjamin & Co  
STOKER-VEYOR American Conveyor Co  
STONE-DRI Sapolin Paints Inc  
STONEFIL Thomas Moulding Floor Co  
STONESULITE Certain-Teed Sales Corp  
STONEWALL BOARD Ruberoid Co  
STOP GAP Sapolin Paints Inc

STOP IT Tamms Industries Co  
STORAWAY ENCLOSURES Birdair Structures Inc  
STORM-MASTER Textron Metals Co  
STORMGUARD Maze W H Co  
STORM KING Allied Chemical Corp  
STORMTIGHT Sonneborn L Sons Inc  
STOV-MASTER Textron Metals Co  
STOWAWAY Lennox Industries Inc  
STOW-IT Gordon Mfg Co  
STRADDLE TRUCK Hyster Co  
STRAN-MASTER Stran-Steel Corp Div  
STRAPBINDER Gerrard A J & Co  
STREAMLINE Mueller Brass Co  
STREAMLINER Ferguson Harry J Co  
STREAMLINER Auer Register Co  
STREAMLINER (SANDER) Holt Mfg Co  
STRETCH LATEX PAINT Tamms Indus  
STRONG BOY Master Lock Co  
STRONGBARN Granite City Steel Co  
STRONGBORD Johns-Manville Corp  
STRONGHOLD NAILS Independent Nail & Packing Corp  
STRONG-WALL Celotex Corp  
STRUCTOGLAS A Structoglas Inc  
STRUCTOGLAS S E Structoglas Inc  
STRUCTOLITE United States Gypsum Co  
STRUTWALL Andersen Corp  
STRY PANEL Cermak Tile Co Inc  
SUPER KROME Sheffield Bronze Paint  
SUPER-LOKS Globe Roofing Products  
SUPERMARKETER Miller Co  
SUPER MATIC Clipper Mfg Co  
SUPER MEZURALL Lufkin Rule Co  
SUPER POWER Coffing Hoist Div  
SUPER SANITAS Standard Coated Prods  
SUPER SATIN SURFACE General Plywood Corporation  
SUPER SAW R C S Tool Corp  
SUPERSEAL Globe Roofing Prods Co Inc  
SUPERSHEATH General Cable Corp  
SUPER 16 Johnsons Wax  
SUPER-SOLID Morgan Company  
SUPER SPEED American Floor Machine  
SUPERSPEED Ruud Mfg Co  
SUPER STRIP Savogran Co  
SUPER-TITE United States Gypsum Co  
SUPER-TURBINE Decatur Pump Co  
SUPERWALL Superior Window Co  
SUPERWOOD Parkwood Laminates Inc  
SUPERWOOD Superwood Corp  
SUPRADUR Supradur Corp of N Y  
SUPRATEST American-Saint Gobain  
SUPREME General Water Heater Corp  
SUPREME (Tile) Goodyear Tire & Rub  
SUPREMO Zurn Industries Inc  
SUPREX KOROSEAL Goodrich B F Co  
SURAMIC Supradur Corp of N Y  
SUREBOND American Asbestos Prod Co  
SURE-FLOC Pennsalt Chemicals Corp  
SURE GRIP Samson Cordage Works  
SUREGRIP Bridgeport Hardware Mfg  
SUREKRETE American Asbestos Prod Co  
SUREMASTIC Camp Co Inc  
SURE PRIME Jaeger Machine Co  
SURE-X Schalk Chemical Co  
SURFACEDUCT National Electric Div  
SURFCO ROCK Surface Protection Co  
SURFCO SHIELD Surface Protection Co  
SURFCO SILASEAL Surface Protection  
SURFEX Pass & Seymour Inc  
SURFOAM Stanley Tools  
SURF-FOAM U S Plywood Corp  
SURFTONE Celotex Corp  
SURFWOOD United States Plywood Corp  
SWAN Lehman Sprayshield Co  
SWEEPOLENE Thomas Moulding Floor  
SWING-O-MIR General Bathroom Prod  
SWIRL-FLO Aeronca Mfg Co  
SWIRL-TONE Chesler J & Sons Inc

For wooden shingles — shakes  
— siding and masonry surfaces

# Cabot's OLD VIRGINIA TINTS®

A uniform oil base finish

- One coat usually sufficient
- Easy to apply and maintain
- Waterproof and weather resistant
- Preserve and protect wood

18 MODERN COLORS,  
BLACK & OLD VIRGINIA WHITE

WRITE FOR COLOR CARD TODAY



### SAMUEL CABOT INC.

424 South Terminal Trust Bldg.  
Boston, Mass.

Please send color card on Old Virginia Tints

(Continued on page 377)



# 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																		
	Bright Red	X	X	X				X	X								X	X	X	X											
	Red-orange	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	
	Cream	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	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	
	Blue-gray	X	X			X	X		X				X				X	X					X							X	
	Violet	X	X						X														X								
	Brown					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		

### 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	Transparent Sealer	Cement Base Point	Rubber Base Point	Exterior Clear Finish	Aluminum Paint	Wood Stain	Roof Cement	Roof Coating	Asphalt Emission	Metal Roof Point	Trim-and-Trellis Point	Awning Point	Spar Varnish	Primer or Undercoat	Porch-and-Deck Point
Clapboard Siding	X.					X										X
Brick	X.	X	X	X	X	X										X
Cement & Cinder Block	X.	X	X	X	X	X										X
Asbestos Cement	X.	X														X
Stucco	X.	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
Iron Surfaces	X.					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
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

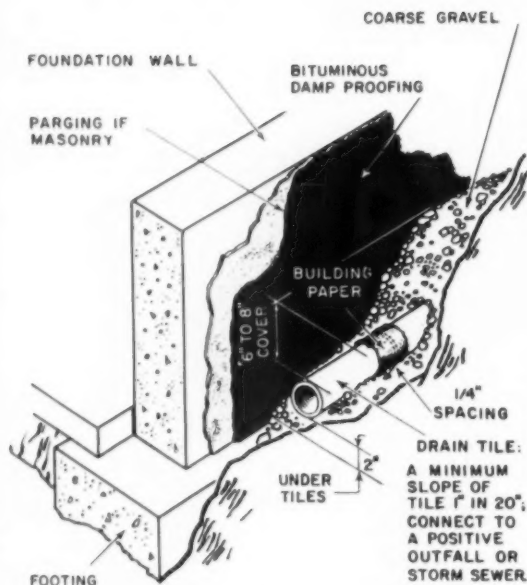
The following are natural-finish systems for outdoor use on redwood. **WATER REPELLENTS:** Easy to apply. Easy and inexpensive to maintain. No special preparation required prior to refinishing. Field experience indicates that paintable water-repellent preservatives provide the most satisfactory natural 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 objectionable 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.

**BRAND NAMES  
DIRECTORY**

(Continued from page 374)

SWIVEL-EZE Allied Metals Inc  
 SYMENTARD Horn A C Companies  
 SYMENTREX Horn A C Companies  
 SYSTEMETTE Zurn Industries Inc  
 SYNTHE-WOOD Ambroid Co  
 SYRIAN Standard Brick & Tile Corp  
 SYSTEM WEATHERMAKER Carrier Corp  
 T B S Turner & Seymour Mfg Co  
 T F C Tennessee Fabricating Co  
 T M B Thomas Moulding Floor Co Inc  
 T V P Tamms Industries Co  
 TAB LOCK Certain-Teed Sales Corp  
 TABLE-CABLE Buschman E W Co Inc  
 TACK-IT O'Brien Corp  
 TAINTOR Smith Seymour & Son  
 TAKE-OUT Zegers Inc  
 TALK-A-RADIO Talk-A-Radio Mfg Co  
 TAMCO Tamms Industries Co  
 TAM COTE Tamms Industries Co  
 TAMPA McPherson Inc  
 TAMTEX Tamms Industries Co  
 TAP-EEZ Bryant Electrical Co  
 TAPER Capitol Products Co  
 TAPER SEA., Capitol Products Co  
 TA-PER-TAPE Marvan Corp  
 TAPER1ABS Globe Roofing Prods Co Inc  
 TAPE-R-TRACK Winfield Door Corp  
 TAP-N-ROL B & T Metals Co  
 TAR-ROK Allied Chemical Corp  
 TASGON Cabot Samuel Inc

(Continued on page 386)



**the basement is beautiful  
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THOROSEAL**

Builders everywhere are finding that handsome, guaranteed-dry basements make homes easier to sell. And this can be your least expensive sales feature. Using our new long-handled broad brush, one man can coat the inside walls of the average new basement in less than one hour. A single coat will do except in extreme moisture conditions. Ask for a job sign, because we advertise nationally to prospective home owners. Thoroseal is available in white, pearl gray and a variety of attractive pastel colors. There is a dealer in every locality to insure prompt supply. Write for our new 20-page specification guide.



Please send me your free new specification guide.

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Company \_\_\_\_\_

Address \_\_\_\_\_

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Products, Inc.

Box X, New Eagle, Pa.

Plants at New Eagle, Pa., and Centerville, Ind.

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SUPER-STRENGTH ADHESIVES**

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**TUFF-BOND QUIK-SET ADHESIVE**... An excellent all purpose FAST-SETTING ADHESIVE with neoprene base ... brush consistency.

\***TUFF-BOND GENERAL PURPOSE**... An ALL PURPOSE water resistant adhesive that sticks almost anything to anything.

\***TUFF-BOND NO. 2-S**... An oyster white CERAMIC TILE ADHESIVE.

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**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.

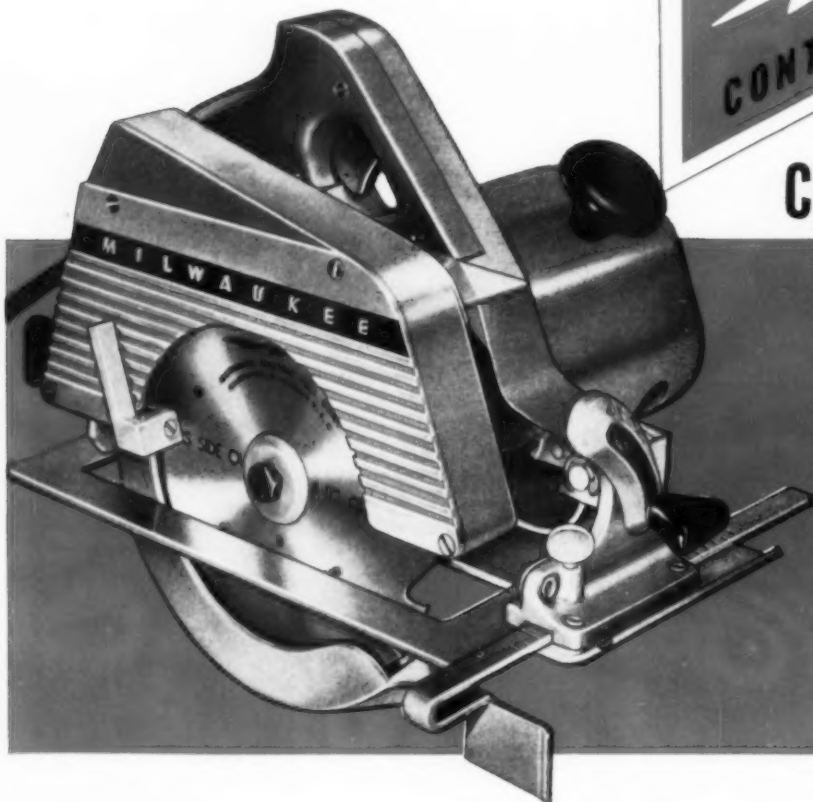
**GOODLOE E. MOORE**  
INCORPORATED  
**DANVILLE 6, ILLINOIS**

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Exclusive coaster-brake clutch drive prevents kickback... protects gears, shafts, and motor.

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6 $\frac{1}{2}$ " Heavy-Duty Model - \$69.50

7 $\frac{1}{4}$ " Heavy-Duty Model - \$79.50

8 $\frac{1}{4}$ " Heavy-Duty Model - \$89.50

All models furnished complete with combination blade and rip fence. Also available with steel carrying case.

AO-102



Look under —Tools—Electric

# 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	14
2	16	16	16	16	16	16	16	16	16	14	14	14	14	14	14	12	12	12	12	12	12
3	16	16	16	16	16	16	16	14	14	14	12	12	12	12	12	12	12	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	10
5	14	14	14	14	14	14	12	12	12	12	12	10	10	10	10	10	8	8	8	8	8
6	14	14	14	14	14	12	12	12	12	10	10	10	10	10	8	8	8	8	8	8	8
7	14	14	14	14	12	12	12	10	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	8
9	14	14	14	12	12	10	10	10	8	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	8
11	12	12	12	12	10	10	10	8	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	8
13	12	12	12	12	10	10	8	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	8
15	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
17	10	10	10	10	10	8	8	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	8
19	8	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	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 1/4 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 1/2 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		230 V		230 V		115 V D.C.		230 V D.C.	
	1 Phase A.C.		1 Phase A.C.		3 Phase A.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

### 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	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	$1\frac{1}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	
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	$\frac{1}{32}$ "	$\frac{1}{16}$ "	$\frac{3}{32}$ "	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "
	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	$\frac{1}{16}$ "	$\frac{3}{32}$ "	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "
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.

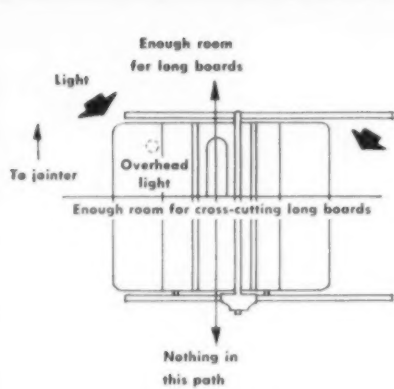
### Comparative Grading Chart for Abrasives

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	0	
100 " "			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

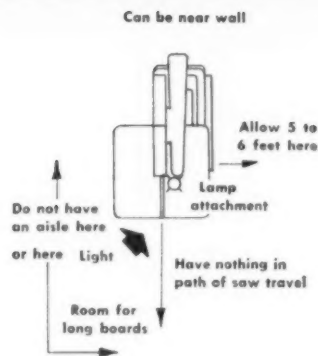
From "How to Use Portable Power Tools" by Maurice H. Reid, Thomas Y. Crowell Co., Publisher

# TOOLS, EQUIPMENT

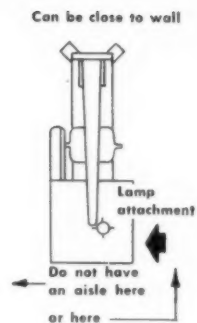
## Shop Layout For Wood Working Machines



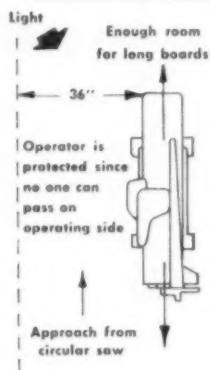
CIRCULAR SAW



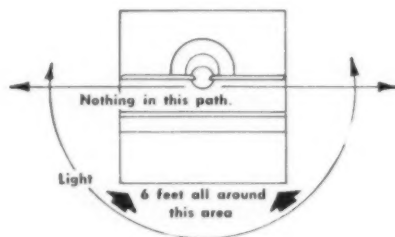
BAND SAW



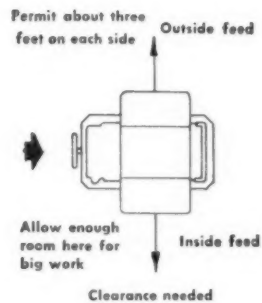
SCROLL SAW



JOINTER

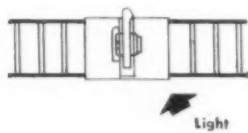


SHAPER

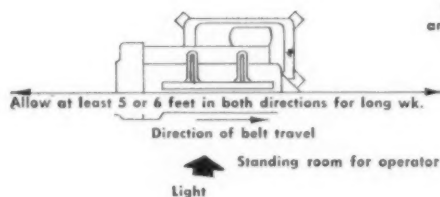


PLANER

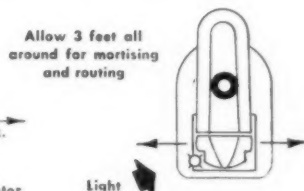
Provide ample light to read dimensional and angle dials and controls.



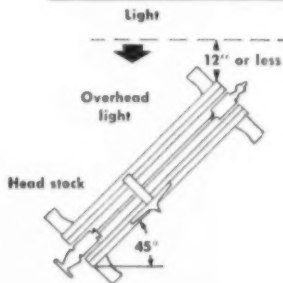
RADIAL ARM SAW



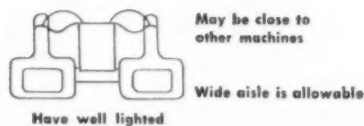
BELT SANDER



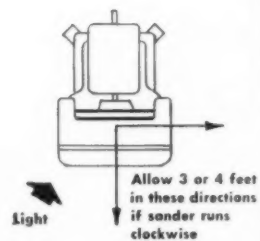
DRILL PRESS



WOOD TURNING LATHE



GRINDER



DISK SANDER



# TOOLS, EQUIPMENT

## Contractors Pumps

### MINIMUM CAPACITY TABLES FOR A. G. C. SELF-PRIMING CENTRIFUGAL PUMPS

The following tables have been adopted as minimum capacity standards by the Contractors Pump Bureau of The Associated General Contractors of America, Inc., and set forth the performance requirements under average job conditions for these pumps.

#### MODEL 4-M—1½ in.—1 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
15 ft.....	67			
20 ft.....	66	59		
25 ft.....	65	58	47	
30 ft.....	63	56	47	33
40 ft.....	54	49	44	32
50 ft.....	37	35	34	29
55 ft.....	25	25	25	25
60 ft.....	13	13	13	13

#### MODEL 7-M—2 in.—2 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
25 ft.....	115	100	85	
30 ft.....	114	98	84	65
40 ft.....	107	92	79	63
50 ft.....	94	78	68	57
60 ft.....	68	55	48	43
65 ft.....	48	40	35	31
70 ft.....	25	21	19	17

#### MODEL 10-M—2 in.—3 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
25 ft.....	166			
30 ft.....	164	145	115	80
40 ft.....	157	140	113	79
50 ft.....	145	130	107	75
60 ft.....	122	110	97	68
70 ft.....	85	82	75	53
80 ft.....	20	20	19	18

#### MODEL 15-M—3 in.—5 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
30 ft.....	266	224	182	142
40 ft.....	245	214	177	140
50 ft.....	216	200	169	135
60 ft.....	184	176	156	127
70 ft.....	142	138	130	114
80 ft.....	102	98	95	90
90 ft.....	52	52	52	52
95 ft.....	26	26	26	26

#### MODEL 20-M—3 in.—7½ H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
30 ft.....	333	280	235	165
40 ft.....	310	268	230	162
50 ft.....	275	245	220	155
60 ft.....	220	210	195	143
70 ft.....	160	156	155	125
80 ft.....	90	90	90	88
85 ft.....	50	50	50	50

#### MODEL 30-M—4 in.—16 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
30 ft.....	500	435	350	250
40 ft.....	495	430	345	250
50 ft.....	475	415	340	245
60 ft.....	450	400	325	240
70 ft.....	415	370	300	230
80 ft.....	355	325	270	210
90 ft.....	250	240	215	175
100 ft.....	100	100	100	100
105 ft.....	20	20	20	20

#### MODEL 40-M—4 in.—22 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
25 ft.....	655			
30 ft.....	660	575	475	355
40 ft.....	645	565	465	350
50 ft.....	620	545	455	345
60 ft.....	585	510	435	335
70 ft.....	535	475	410	315
80 ft.....	465	410	365	280
90 ft.....	375	325	300	220
100 ft.....	250	215	195	145
110 ft.....	65	60	50	40

#### MODEL 90-M—6 in.—30 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
25 ft.....	1500			
30 ft.....	1480	1280	1050	790
40 ft.....	1430	1230	1020	780
50 ft.....	1350	1160	970	735
60 ft.....	1225	1050	900	690
70 ft.....	1050	900	775	610
80 ft.....	800	680	600	490
90 ft.....	450	400	365	300
100 ft.....	100	100	100	100

#### MODEL 125-M—8 in.—40 H.P.

The following table gives capacity in gallons per minute:

TOTAL HEAD INCLUDING FRICTION	HEIGHT OF PUMP ABOVE WATER			
	10 Ft.	15 Ft.	20 Ft.	25 Ft.
25 ft.....	2100	1850	1570	
30 ft.....	2060	1820	1560	1200
40 ft.....	1960	1740	1520	1170
50 ft.....	1800	1620	1450	1140
60 ft.....	1640	1500	1360	1090
70 ft.....	1460	1340	1250	1015
80 ft.....	1250	1170	1110	950
90 ft.....	1020	980	940	840
100 ft.....	800	760	710	680
110 ft.....	570	540	500	470
120 ft.....	275	245	240	240

## 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-planked 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.

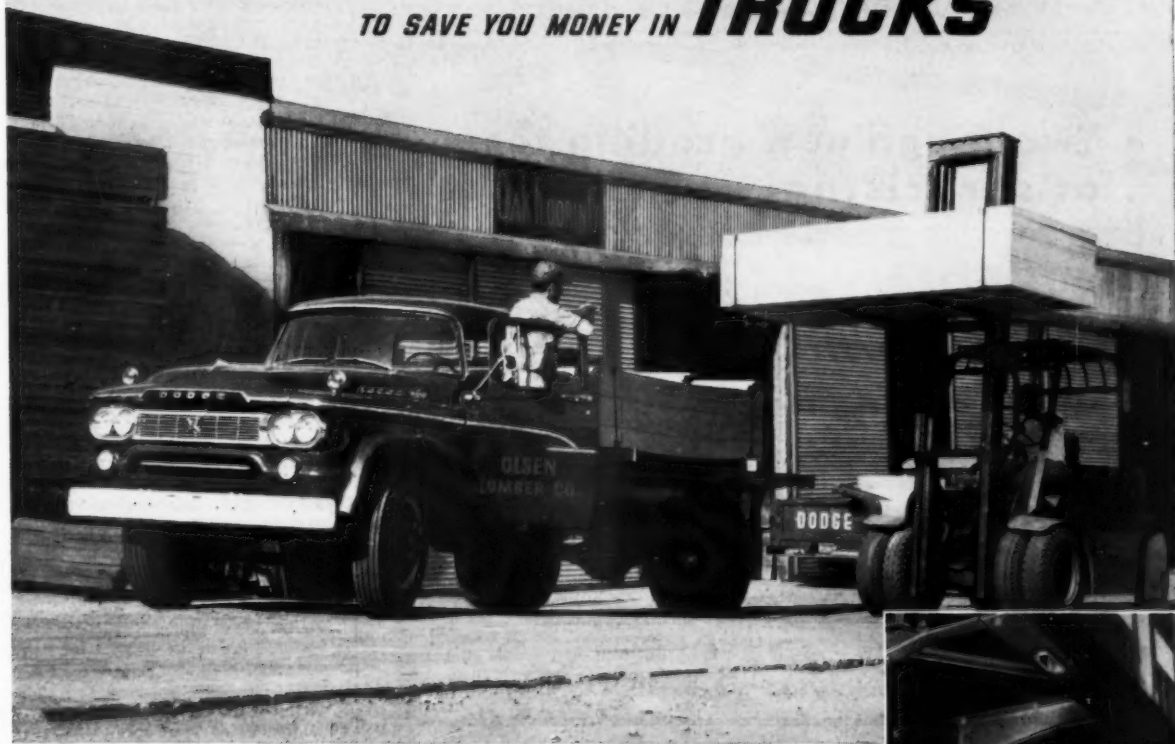
*Tough loadtender...*

**1960 DODGE TRUCK** Pile it on! For here's a stake-platform you can load up with little fear of loading down. A tough truck, quality-built to weather big-load punishment.

Heavy-duty frame, springs and axles allow a top payload of nearly seven tons in the rugged D500 model shown below . . . and an all-steel underbody supports your cargo. Four engine options (two V-8's, two Sixes) let you pick the power that's thriftiest for your kind of driving. Horsepower from 125 to 202.

Other models from 4,250 lbs. G.V.W. to burly new C500 Cab-Forwards rated at 19,500 lbs. maximum G.V.W. Stake body lengths from 7½ to 14 feet. Whatever your truck requirements, get in touch with your Dodge dealer soon. Let him give you the lowdown on why you can

DEPEND ON **DODGE**  
TO SAVE YOU MONEY IN **TRUCKS**



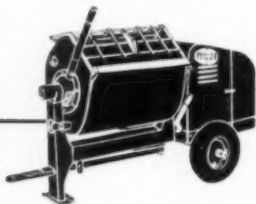
**Quality Construction**—Heavy-gauge steel supporting rails run full-length, full-width under the Dodge stake body for top strength and durability. Just one of a host of quality features exclusive with Dodge in the low-price field.

A PRODUCT OF CHRYSLER CORPORATION

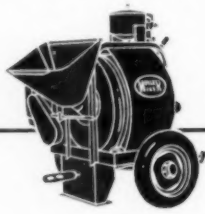
TILTING CONCRETE MIXERS 3½ and 6 cu. ft. (mix concrete). Electric or gasoline. Timken Bearings.



PLASTER and MORTAR MIXERS 5 sizes, 2 to 12 cu. ft. Electric or gasoline. Power throw-out on smaller models, disc clutch on larger.

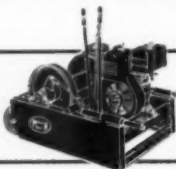


NON-TILTING CONCRETE MIXERS 2 Models: 3½ cu. ft. with batch hopper, and 6 cu. ft. with power loader skip.



## MULLER MACHINES are RUGGED!

BUILDERS' and ROOFERS' HOISTS 6 models—200, 300, 400, 500, 750 and 1000 lbs. capacity. Portable, easily set up. Positive chain and sprocket drive.



4-BLADED POWER TROWELS 24", 29", 34", and 44" dia. Air-Cooled Engines. Clutch and speed controls on handle.

ALL MULLER MACHINES are tough! They stand up to rough handling without break-downs or frequent parts replacements, because they are products of the best in engineering, ma-

terials, and workmanship. Yet, for all their strength and durability, **MULLER MACHINES** are not high-priced...in fact, no other machines of comparable quality are priced lower.



In addition to the units illustrated here, Muller also manufactures: Floor and Tower Hoppers, Concrete Carts, Foundry Core Sand Mixers, and Space Heaters.

Ask for literature, prices and full details.

**MULLER MACHINERY COMPANY, Inc.**

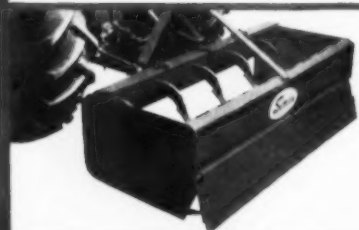
248 Whitman Avenue, Metuchen 4, N. J.

## Two tough new grading tools at surprisingly low prices!



### New Lone Star Blade

We state flatly, this will be the largest selling light blade in the country, because it is the greatest value. All welded, sturdy, 240 lb. construction. 13" mouldboard plus 6" replaceable cutting edge of ½" grader-blade steel. 8 adjustments for angling and reversing. And... in most parts of the country it retails for under \$100!



### New Soil Scraper

At last, a scraper that really takes the ground. Can scarify and scrape at same time. Levels, grades, backfills. Curved mouldboard rolls dirt up for full load: 17 and 20 cu. ft. respectively in 66" and 72" models. A heavy duty tool, but favorable plant location means competitive delivered prices.



WRITE TODAY FOR MORE DETAILS

**EQUIPMENT COMPANY**

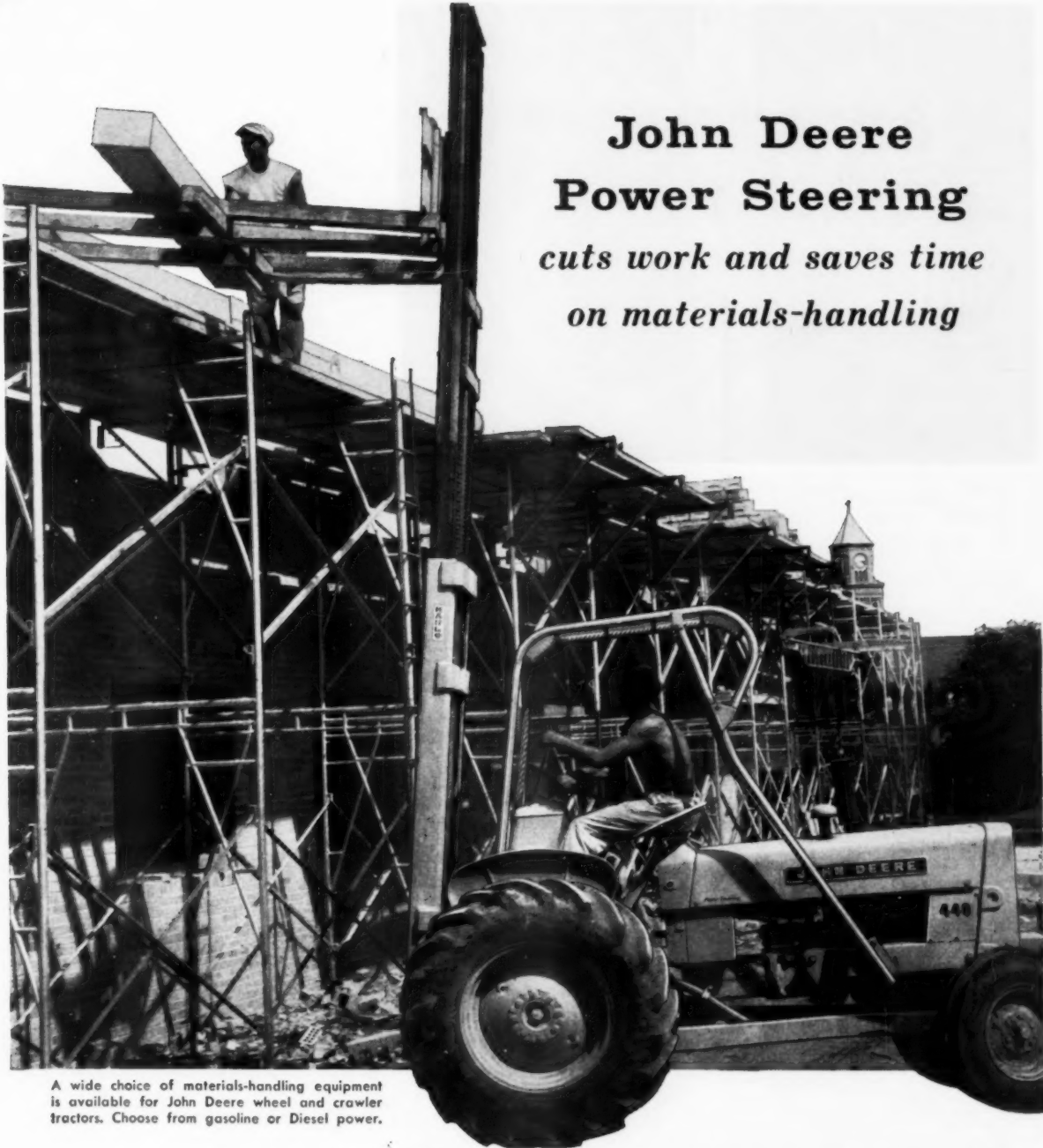
1012 Singleton Blvd. • Dallas 21, Texas

## BRAND NAMES DIRECTORY

(Continued from page 377)

TAYLOR MADE Taylor Garage Doors  
T-CHORD LONGSPAN JOISTS Haven  
Busch Co  
TEBCO Evans Brick Co  
TECO Timber Engineering Co  
TECO FAS-LOC Timber Engineering Co  
TECO-U-GRIP Timber Engineering Co  
TECO WEDGE-FIT Timber Engineering  
TECTUM Tectum Corp  
TECTONA Bangkok Industries Inc  
THE PRESIDENT General Air Condition-  
ing Corp  
THERMALUME Globe Roofing Products  
THERMASTER Thatcher Furnace Co  
THERMAX-W General Cable Corp  
THERMO-BASE Gerwin Industries Inc  
THERMO-BORD Carey Philip Mfg Co  
THERMO-ETCHSTONE Globe Roofing  
THERMOFAX Minnesota Mining & Mfg  
THERMO-KOLORGRAIN Globe Roofing  
THERMOKOTE Vita-Var Corp  
THERMO-PAD Wood Conversion Co  
THERMORAMIC General Controls Co  
THERMOPANE Libbey-Owens-Ford Glass  
THERMO-O-PANEL Ohio Plate Glass Co  
THERMO-SASH Kesko Prods Inc  
THERMOSEAL Russel F C Co  
THERMO-SHADOW-GRAIN Globe Roof-  
ing Products  
THERMOTILE Curtis Companies Inc  
THERMO-TRIEX Triangle Conduit &  
Cable Co.  
THERMOWALL Globe Roofing Products  
THERMOWOOD Globe Roofing Products  
THERMO-VENT Damp-Vent Co  
THICK BUTT Ruberoid Co  
THILCO Thilmany Pulp & Paper Co  
3-D TEXTURE PAINT Lowe Bros  
38 PRATT & LAMBERT INC  
3 G FULL WALL WIDTH Jeffery Form  
3 M BRAND Minnesota Mining & Mfg Co  
#33 COMPOUND DAP Dicks Armstrong  
3 PURPOSE B I N Zinsser William & Co  
337 KITCHEN SLIDE Grant Pulley  
THOMAS A EDISON Coolerator Mc-  
Graw-Edison  
THOR Speedway Mfg Div Thor Power  
THOROCLEAR Standard Dry Wall Prod  
THORITE Standard Dry Wall Products  
THOROSEAL Standard Dry Wall Prods  
THOROBOND Standard Dry Wall Prods  
THOROCLEAN Standard Dry Wall Prods  
THOROPATCH Standard Dry Wall Prods  
THOROSHEEN R W 7 Standard Dry Wall  
Prods  
THOROSPAN Standard Dry Wall Prods  
THOR SPEEDTOOLS Speedway Mfg Div  
THREE-TWENTY Congoleum-Nairn Inc  
THREPLEX Chase Brass & Copper Inc  
THRIFT-LINE Southwestern Plastic Pipe  
THRIFTMASTER Crawford Door Co  
THRIFT-TRIM Markel Electric Prods Inc  
THRIFTY Vento Steel Products Co Inc  
THUNDER-TWIST New England Carbide  
TIGER Samson Cordage Works  
TIGER Tiger Brands Div Basic Inc  
TIGER BRAND Columbia Geneva Steel  
TIGER BRAND Lawrence W W & Co  
TIGER BRAND Tennessee Coal & Iron  
TIGER LIME Tiger Brands Div Basic Inc  
TILEMASTER Tilemaster Corp  
TILE-TITE Allied Chemical Barrett Div  
TILE-TEX Pioneer Div Flintkote Co  
TILE-WELD Larsen Products Corp  
TIMBERLOCK Kees F D Mfg Co  
TIMBERTOX Wood Treating Chemicals

(Continued on page 395)



**John Deere**  
**Power Steering**  
*cuts work and saves time*  
*on materials-handling*

A wide choice of materials-handling equipment is available for John Deere wheel and crawler tractors. Choose from gasoline or Diesel power.

*John Deere Industrial Division*  
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Masonry and mortar, panels and pipe are moved at minimum expense with low-cost John Deere fork lifts and materials-handling units. Advanced power steering and direction reverser insure smooth operation and all-day efficiency. Thrifty John Deere engines and simple maintenance requirements keep operating costs low. Parts and service available in major cities everywhere.

All John Deere Industrial Units can be purchased on terms of the John Deere Credit Plan. Terms are arranged confidentially with the John Deere Industrial Dealer. Contact him through the classified section of your telephone directory or write direct today.

**JOHN DEERE**



*"Specialists in Low-Cost Power with a Heavyweight Punch"*

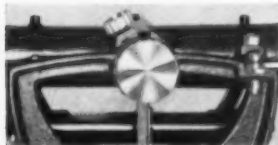
# TRIO OF "EXCLUSIVES"

FOR QUICKER MORE ACCURATE SURVEYING

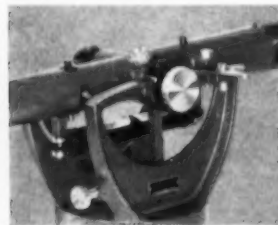
NEW... Completely redesigned Dietzgen Builders' Transit-Level has three exclusive features that you should know about...



**EXCLUSIVE.** Totally enclosed leveling screws—removable and replaceable. To keep lubricant in—and the harmfully abrasive effect of dirt and dust out—leveling screws and threads are completely enclosed. They will last longer than any "open" kind. And they are removable and replaceable. When they have outlived their usefulness, just remove a cap and pull out the leveling screws and bushings. New assemblies may be purchased. Spare yourself the time and money involved in replacing an entire unit.



**EXCLUSIVE.** Side-mounted focusing knob for easier focusing. Now, the focusing of the telescope may be done without disturbing its line of sight. Located on the end of the horizontal axis of the telescope, not on the telescope itself, the focusing knob may be operated without inadvertently moving the telescope. Here is a practical feature with real convenience.



**EXCLUSIVE.** Top-mounted "rough" aiming sights for quick alignment. Because time is money on the job, the fast but reasonably accurate initial sighting by means of "rough" aiming sights is a cost-cutter. An operator can quickly and easily swing on target... lock the instrument in approximate position... and then make fine adjustments with the tangent screw.



**NEW**... tough plastic cover that fits tightly over light metal base. Large catches flip open or shut easily. Base plate threaded to hold instrument snugly and securely. A rugged case for safe carrying even with rough handling.

This rugged, two-in-one instrument can do all your surveying work from start to finish... run boundary lines, lay out foundations, find elevation differences, level up excavation, align foundation piers, determine and set grades, plumb vertical lines, walls, uprights, chimneys and poles, run sewer and drainage lines, landscape... all kinds of jobs, big and small.

And, this all-purpose instrument is exceptionally simple and easy to use... no special mathematical or technical training is needed. Each Dietzgen Transit-Level is furnished with a free, easy to understand, self-teaching instruction manual containing complete operating instructions plus practical problems of many important applications.

For an instrument for all your surveying, with ease of operation, simplicity, ruggedness and accuracy, the Dietzgen Builders' Transit-Level is unexcelled. Write or call today for complete information. Ask for Bulletin N6385-D-23.

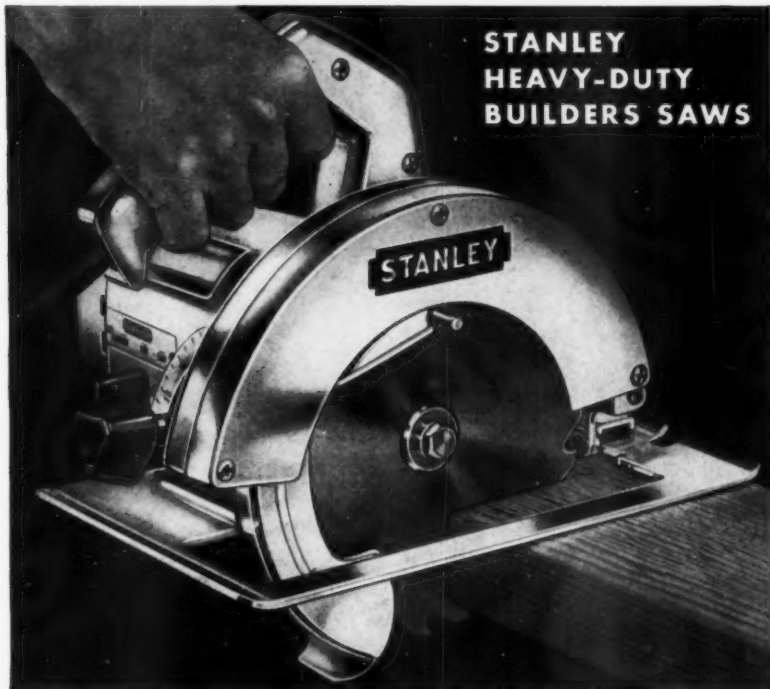
**DIETZGEN**

EVERYTHING FOR DRAFTING  
SURVEYING & PRINTMAKING

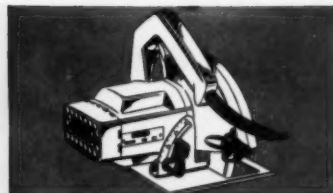
**EUGENE DIETZGEN CO.**

PRINCIPAL OFFICES: Chicago • New York  
New Orleans • San Francisco • Los Angeles • Calgary

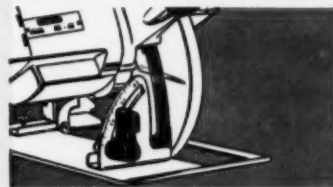
SALES OFFICES AND DEALERS IN ALL PRINCIPAL CITIES



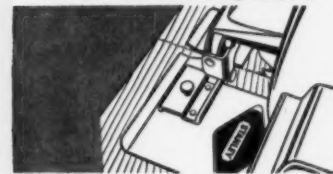
**STANLEY  
HEAVY-DUTY  
BUILDERS SAWS**



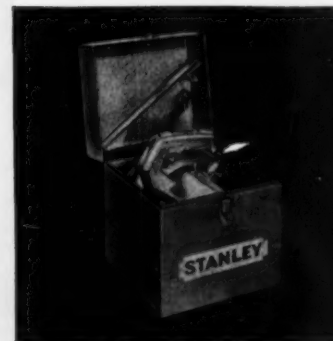
New rear-position control! You set depth or bevel from the cutting position—fast!



Spring steel beam and wrought aluminum base give saws extra strong structure.



Big window lets you see clearly. One notch on base guides both 45° and 90° cuts.



Kits include saw, rip guide, wrench and this sturdy steel carrying case.

**SPRING SPECIAL! Save up to \$15.00  
on complete Builders Saw Kits**

Take advantage of these terrific savings on Stanley Saw Kits for your busy season ahead. Saws pack nearly 40% more cutting force, feature ball-bearing construction, and weigh up to 2½ lbs. less than previous models—advantages that let you do *more* work with a lot *less* effort. And just look at the time-saving, work-saving advancements shown above.

Stop in and see these big bargains at your dealer's today. For catalog on Stanley's whole line of heavy-duty power tools, write: Stanley Electric Tools, Div.

of The Stanley Works, 1004 Myrtle St.,  
New Britain, Connecticut.

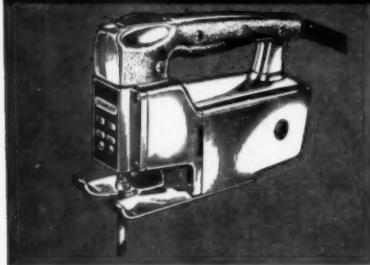
**SPECIAL SPRING SAVINGS**  
Offer ends July 31, 1960

	Reg. Price	NOW YOU SAVE	
H288 6½" Saw	\$54.95	\$49.95	\$ 6.00
H288K 6½" Saw Kit (If items bought separately)	69.95	56.95	13.00
H288K 6½" Saw Kit (If items bought separately)	79.95	67.95	12.00
H270K 7" Saw Kit (If items bought separately)	94.95	79.95	15.00

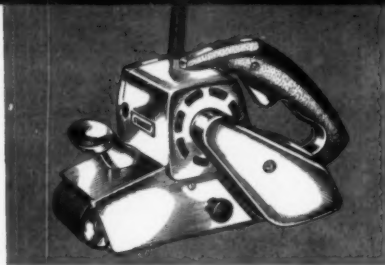
\*ALL BALL AND NEEDLE BEARINGS

Prices slightly higher in Canada • Subject to change without notice.

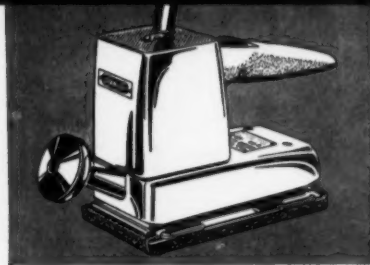
**TRY STANLEY ELECTRIC TOOLS—*the complete line with new design***



Extra-heavy-duty H76 sabre saw speeds cutting of lath, counter tops, wall and floor holes, laminator, hard plastics, cable, sheathing. Cuts to ¼" along a wall! \$59.50.



Stanley's powerful H31 belt sander rough-sands and finishes wood, metal or plastic. Takes all the work out of sanding. Includes fine, medium, coarse belts. \$89.95.



Stanley's H36 orbital sander is tough, heavy-duty. Ideal for small work areas, flush sanding. Comfortable, tapered handle, perfect balance. Air-cooled motor. \$49.95.

**STANLEY**

REG. U.S. PAT. OFF.

**AMERICA BUILDS BETTER AND LIVES BETTER WITH STANLEY**

This famous trademark distinguishes over 20,000 quality products of The Stanley Works, New Britain, Conn. — hand tools • electric tools • builders hardware • industrial hardware • drapery hardware • automatic door controls • aluminum windows • stampings • springs • coatings • strip steel • steel strapping — made in 24 plants in the United States, Canada, England and Germany.

CANADIAN PLANTS: HAMILTON, ONTARIO AND FORTYON POND, P. Q.

# ANNOUNCING THE NEW

America's lowest priced\* pickup truck!



up to 30 mpg!



*Totally new for total savings!* Ford's new Falcon Ranchero delivers up to 30 miles on a gallon, yet its new 90-hp Six is geared to do a real job! There are lower costs for oil, tires, brakes, parts . . . nearly everything!

lowest priced\* pickup!



The Falcon Ranchero is priced from \$89 to \$210 under competitive 1/2-ton pickups!\* And that's just the start of your savings. Single-Unit construction saves on maintenance . . . it's tighter, quieter, with main underbody members zinc-coated against rust and corrosion. See your Ford dealer!

\*Based on latest available manufacturers' suggested retail delivered prices with comparable standard equipment.



# FORD Falcon RANCHERO



## big 6-foot box!



STANDARD PICKUP



NEW FALCON PICKUP

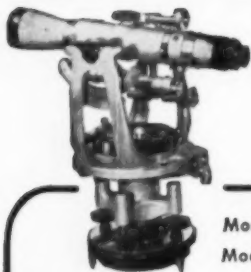
Load capacity is more than ample for most pickup hauls—nearly 7½ feet of load length with tailgate flat. And thanks to the low loading height, loading and unloading is faster, easier!

- Up to 30 miles on a single gallon of gas
- Up to 4000 miles between oil changes
- Diamond Lustre finish needs no waxing
- Low loading height
- Instant-lock tailgate opens, closes with a single, one-hand motion
- Roomy comfort for three passengers
- Styled to capture admiration

## FORD TRUCKS COST LESS

LESS TO BUY... LESS TO RUN... BUILT TO LAST LONGER, TOO!

## MORE FOR YOUR MONEY with a WARREN-KNIGHT TRANSIT-LEVEL



### NEW DESIGN

There has never been a Transit-Level like the 38-bf. Offers new usefulness — almost indestructible.

Model 38-bf \$320.

Model 39-bf (Without compass) \$295.

You've never seen a Transit-Level like the new Warren-Knight. It looks and is operated like a transit, yet it has the exclusive advantage of being adjusted like a Wye level, and costs less than half as much as the average transit. The new design Model 38-bf is so sturdy that maintenance and repair charges will be practically eliminated. Assures a LIFETIME OF SERVICE. This expert new design includes such features as a steel center, 24x coated optics, covered leveling screws, and limb vernier reading to one minute.

### 10 DAY FREE TRIAL

So sure are we of your reception to this magnificent new instrument that we offer it for 10 days trial — No obligation to purchase.

Ask for Bulletin F-40 that lists Full Details.



136 N. 12th St., Phila. 7, Pa.

# REPAIR FOR YOUR B&D TOOLS



Check the Yellow Pages under "Tools-Electric" for the location of the nearest Black & Decker factory service branch or authorized service station.

Free tool inspection when requested • Genuine B&D parts used • Factory-trained technicians • Standard B&D Guarantee at completion of recommended repairs • Fast service, reasonable cost, always.

Or write for address of nearest of more than 50 branches and service stations to: THE BLACK & DECKER MFG. CO., Dept. 4204-S Towson 4, Md.

## Black & Decker



QUALITY TOOL SERVICE

## COMBINATION SAWS can now be filed automatically with the New Model 200 FOLEY Automatic SAW FILER



This is the FIRST and ONLY machine which will file the so-called "combination" (rip and crosscut) circular saws; also crosscut circular saws, band saws, all types of hand saws.

The new model 200 Foley Saw Filer files the first tooth in each segment of a combination saw, clear around the saw; then the second tooth in each segment, and so on, until the saw is finished. The exclusive Foley principle of jointing the saw as it is filed, keeps all teeth uniform in size, shape and spacing; keeps circular saws perfectly round, usually doubles saw life.

**CONTRACTORS—CARPENTERS—CUSTOM FILERS**—Here is the ideal machine for contractors to keep all their power and hand saws in top-notch cutting condition and greatly prolong their life. For the carpenter who wants to make from \$3 to \$6 an hour in spare time—and for the full-time custom saw filer—the new model 200 Foley Saw Filer turns out perfectly sharpened saws that build repeat business and quickly pay for the Filer. Time payments if desired. Send coupon today—no salesman will call.

**FOLEY MFG. CO.** 424-0 Foley Bldg. MINNEAPOLIS 18, MINN.

• Please send full information and Time Payment Plan on New Model 200 Foley Automatic Saw Filer.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_



**“Our OC-46  
turns  
on a dime...  
and gives  
9¢ change”**



**Work-test an Oliver OC-46 loader... see how “Spot-Turn” steering eases all your work!**

This Oliver OC-46 works and ranges over hundreds of acres—moving, grading, loading thousands of yards. It's one of six Oliver tractors owned by Baldwin Construction Company, Bloomfield, New Jersey.

Operator Nicholas Psiahas reports on its easy handling and maneuverability: “‘Spot-Turn’ steering is terrific—the OC-46 is so comfortable to operate. Controls are simple. Our OC-46 turns on a dime...and gives 9¢ change.”

Simple operation with low-effort steering is just the start of the OC-46's benefits. This compact, easily transported,  $\frac{5}{8}$ -yd. crawler loader is official champion of its class in *pounds-pull*—meaning greater *work power*. It has the shortest turn radius. A factory-built, *integrated* tractor-loader, the OC-46 has low-profile design with shorter pedestals for greater stability and work safety.

Get all the facts on the OC-46 loader. Choice of 30-plus h.p. gasoline or diesel engine.

LOOK TO OLIVER FOR YOUR BEST BUY IN WHEEL AND CRAWLER TRACTORS



**THE OLIVER CORPORATION**

Dept. 2232, 400 W. Madison St., Chicago 6, Illinois

**Most versatile, all-job crawler you can own**  
Double the work scope of your OC-46. Add the quick-hitch (only three minutes) Oliver backhoe and handle trenching, excavating and loading jobs of all kinds. Fully hydraulic operation with deep 12'8" digging and high 9'6" loading. Full 180° boom swing. A perfect low-cost digging-loading package for towns, parks, contractors, etc.

**Jobs, jobs, jobs—**See how valuable the OC-46 can be in your operations. Review its many important features and job advantages in this big, 16-page catalog.





**NEW!  
SKIL RECIPRO SAW**

2 SPEEDS FOR WOOD  
AND METAL CUTTING



**NEW! SKIL 1/2"  
RIGHT ANGLE DRILL**

USES SELF-FEEDING BITS

## Two of the work-savingest tools you can own!

### NEW SKIL RECIPRO SAW

Cuts anything that can be cut by hand—faster, easier and better. Does the work of keyhole, hack and handsaws 5 to 20 times quicker.

**Two separate speeds**—LOW for fast metal cutting with minimum blade wear, HIGH for wood and compositions.

**Off-center blade** cuts close to walls and corners—blade reverses in clamp for right or left situations.

**Saves blades, too!** When one section wears, shoe easily repositions for cutting with unused part of blade.

### NEW SKIL RIGHT ANGLE DRILL

Lets you drill freely between joists and studding, in tightest quarters. And with new self-feeding bits you drill large holes—from 1 1/4" to 2 3/8"—without bearing down on the tool!

**Handles any drilling job**—Right angle

drive unit mounts two ways to give a low speed for boring large holes, or a higher speed for smaller holes. For straight-line drilling, simply remove unit. Comes complete with carrying case and 2 3/8" self-feeding bit.

Ask your Skil distributor to demonstrate these work-saving Skil tools. He's listed under "Tools—Electric" in the Yellow Pages. Or write for full information to Skil Corporation, 5033 Elston Avenue, Chicago 30, Illinois, Dept. AB-40.



... and SKILSAW POWER TOOLS

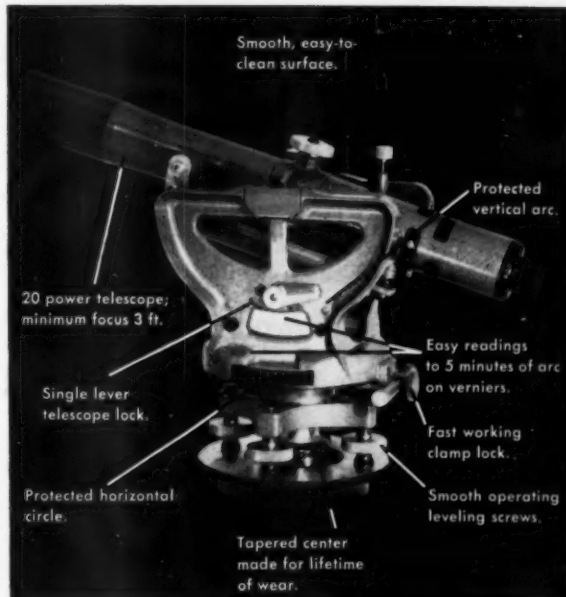
**BRAND NAMES  
DIRECTORY**

(Continued from page 386)

TIMBLEND Roddis Plywood Corp  
 TIMBLEND Roddiscraft Inc  
 TIME-SAVER Speakman Co  
 TIMFAST Timber Fasteners Inc  
 TIM JALOUSIES Regulux Sash & Door  
 TIN-O-LIN Calbar Paint & Varnish Co  
 TINY TOT Extension Drawer Support Co  
 TIPIIT Manning Maxwell & Moore Inc  
 TIP TOP Relton Corp  
 TITE KOTE Reeves Steel & Mfg Co Div  
 TITE LITE Truscon Labs Inc  
 TITE-ON Ruberoid Co  
 TITWALL A A Wire Products Co  
 T M T PLASTERING MACHINE Plastering Development Center  
 TOASTMASTER McGraw-Edison Co  
 TOASTMASTER HOT-FOOD SERVER  
 Toastmaster Div McGraw Edison  
 TOMAHAWK True Temper Corp  
 TOMB Allied Chemical Corp Barrett Div  
 TOMMY AXE True Temper Corp  
 TOOTHPICK Tilley John S Ladders Co  
 TOP-FLIGHT Mengel Co  
 TOP FLITE Eagle Rule Mfg Corp  
 TOP-FLITE HEX Globe Roofing Products  
 TOPLITE Owens-Illinois  
 TOPPER A C SWITCHES Hubbell Harvey Incorporated  
 TOP-TY Woodmack Products Inc  
 TORIDHEET Toridheet Div Cleveland  
 TORKMASTER Tork Time Controls Inc  
 TORRIVENT Trane Co  
 TOTRUST Wilbur & Williams Co  
 TOUCHETTE Rodale Mfg Co Inc  
 TOUCH-O-MATIC Universal Fabricators  
 TOUCH-PLATE Touch Plate Mfg Corp  
 TOURNAPULLS LeTourneau-Westinghouse Co  
 TOURNATRACTOR LeTourneau-Westinghouse Co  
 TOWELINK Miami Cabinet Div  
 TOWERMOBILE Mixermobile Mfrs  
 T-POWER Motorola Communications  
 TRACTAIR Le Roi Div Westinghouse Air Brake Co  
 TRACTAIR COMPRESSOR Le Roi Div Westinghouse Air Brake  
 TRACTOHOE Tractomotive Corp  
 TRACTO-LIFT Ottawa Steel Div Young  
 TRACTO-LOADER Tractomotive Corp  
 TRACTOR DONKEY Hyster Co  
 TRADE-WIND INTERCOM Trade-Wind Div Robbins & Myers  
 TRAFFIC-COTE Johnson's Wax  
 TRAFFIC GARD Dietz R E Co  
 TRANSCRETE Construction Machinery  
 TRANSEAL Forrers Div Spray-O-Bond  
 TRANSFALT Johns-Manville Corp  
 TRANSFLO Marchant Div Smith-Corona  
 TRANSITE Johns-Manville Corp  
 TRANSITONE Johns-Manville Corp  
 TRANSITOP Johns-Manville Corp  
 TRANSLOT Cannelton Sewer Pipe Co  
 TRANSLOT (BLOCK) Texas Vitriified  
 TRANSMIX Universal Pulleys Co Inc  
 TRANSPORTER Automatic Transport Co  
 TRAVERTONE Armstrong Cork Co  
 TRAV-MAR X-Pando Corp  
 TRAXCAVATOR Caterpillar Tractor Co  
 TRAX ROD Bridgeport Brass Co  
 TREADLITE Congoleum-Nairn Inc  
 TREASURE TONES Devoe & Reynolds  
 TREDON Sapolin Paints Inc  
 TRED-TEX Rockcote Paint Co  
 TREELIFE St Paul & Tacoma Lumber Co  
 TREMLUX Tremco Mfg Co  
 TRENCHLAY General Cable Corp  
 TRENCHLAY-UF General Cable Corp

(Continued on page 397)

# INVEST IN THE BEST



SPECIFY A **K+E**

## BUILDERS' TRANSIT LEVEL

Buying a transit level is an investment in your business. And buying a K&E Transit Level is the surest way to get maximum return on your investment. So simple to use yet with built-in precision that will last over years of rugged use, this sturdy instrument will help you lower labor costs, increase efficiency and worker output. Objects can be seen clearly even in poor, inside-building light . . . and you can get sharp focus on objects as close as three feet.

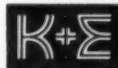
**Price: (NP 5153) including new open-dome BOLTARON® carrying case .....\$208.00\***

For leveling and reading horizontal angles only, ask for the K&E Builders' Level. Except that the telescope doesn't tilt, it gives you the same fine qualities and service as the K&E Builders' Transit Level.

**Price: (NP 5153) including new open-dome BOLTARON® carrying case .....\$148.00\***  
 \*without tripod

For further details see your local K&E representative or write to Keuffel & Esser Co., Hoboken, New Jersey.

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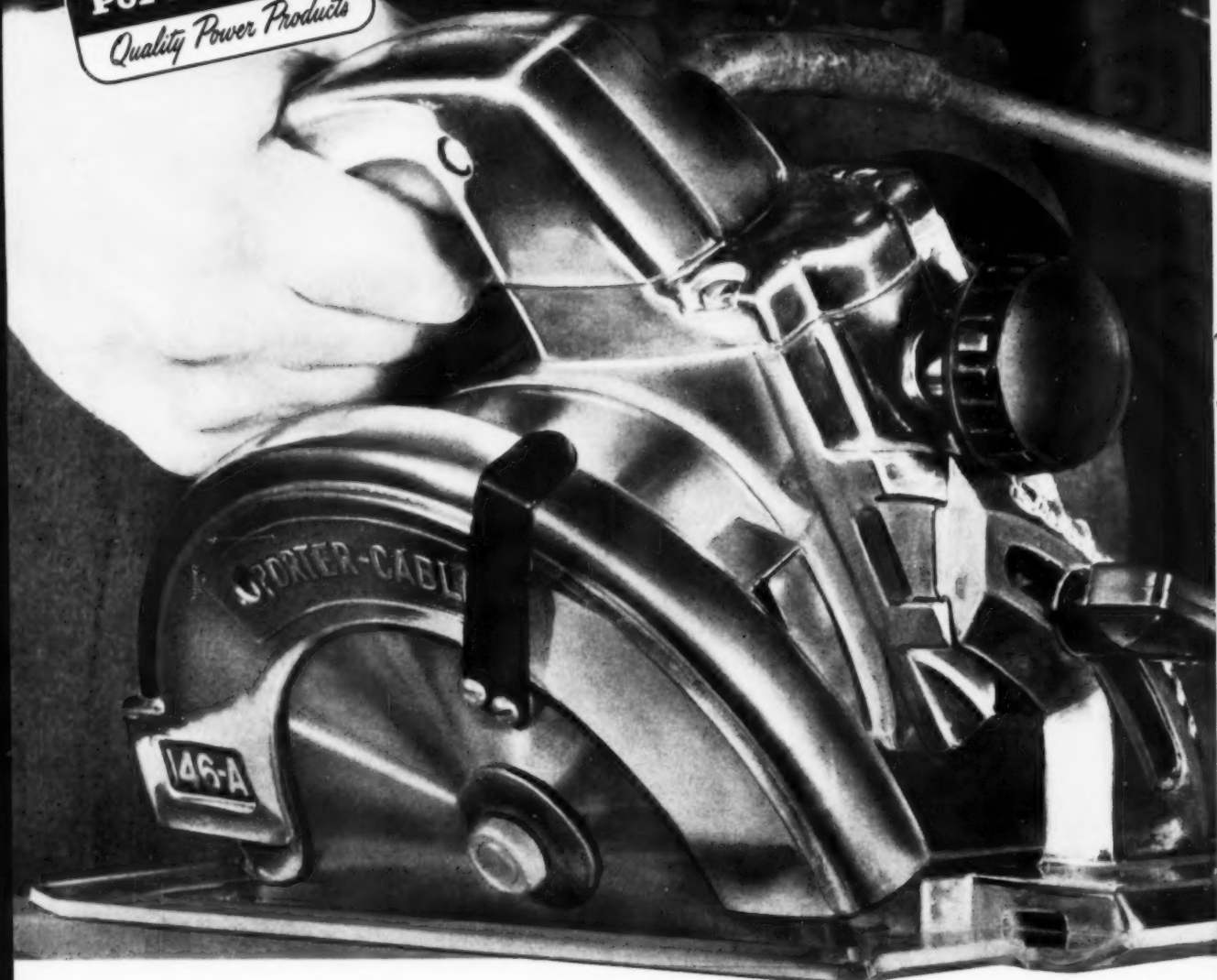


**KEUFFEL & ESSER CO.**

NEW YORK • HOBOKEN, N. J.

Detroit • Chicago • St. Louis • Denver • Dallas • San Francisco • Los Angeles • Seattle • Montreal

**Porter-Cable**  
Quality Power Products



## **BUILT FOR THE TOUGH JOBS...**

### **Porter-Cable PORTABLE SAWS**

Take a close look at these *professional* saws and you'll see why they can handle the toughest jobs, day-after-day, without a whimper. Contractors and builders choose Porter-Cable saws for every type of cutting operation—from light trim work to hour-after-hour heavy construction projects. Check such quality features as... ball-bearings throughout, precision depth and bevel adjustment, blower to clear line of cut, safety kickproof clutch, exclusive gear lubricator, extra powerful motor.

See the most complete line of Builders' Saws at your Porter-Cable dealer or write for folder.

**PORTER-CABLE MACHINE COMPANY**

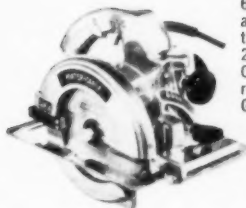
**6014 Marcellus Street, Syracuse, N. Y.**

# PORTER-CABLE MONEY-SAVING SPECIAL!\*

## ON HEAVY-DUTY SAW KITS



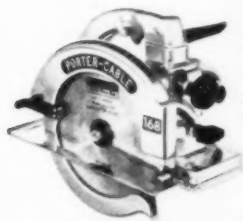
Save \$13 on Model 146A Saw Kit. With 6 3/4" dia. blade, 10 amp Universal motor, cutting depth 2 7/32" at 90°. Complete with Carrying Case and Rip Guide. Reg. \$89.95  
**NOW ONLY \$76.95**



Save \$13 on Model 115A Saw Kit. With 7" dia. blade, 12 amp Universal motor, cutting depth 2 5/16" at 90°. Complete with Carrying Case and Rip Guide. Reg. \$99.95  
**NOW ONLY \$86.95**



Save \$15 on Model 168K Saw Kit. With 8 1/4" dia. blade, 13 amp Universal motor, cutting depth 2 7/8" at 90°. Complete with Carrying Case and Rip Guide. Reg. \$114.95  
**NOW ONLY \$99.95**



\*Limited Offer Only Until July 30, 1960. Don't be disappointed — take advantage of this BIG Special and SAVE. Ask your Porter-Cable Dealer or write for folder, Porter-Cable Machine Co., 6014 Marcelus Street, Syracuse 4, N. Y.

**Porter-Cable**  
Quality Power Products

APRIL 1960

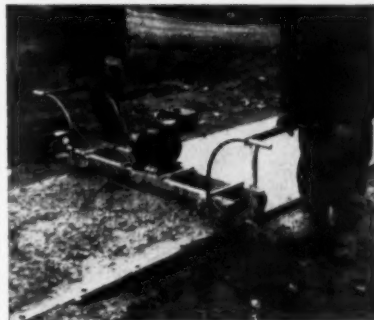
## BRAND NAMES DIRECTORY

(Continued from page 395)

TRENDOR Farley & Loetscher Mfg Co  
TRIADRY Triangle Conduit & Cable Co  
TRIBATCH Koehring Co  
TRI-BOND Mastro Plastics Corp  
TRI-COATER PLASTERING MACHINE  
Plastering Development Center Inc  
TRICON Triangle Conduit & Cable Co Inc  
TRIEK Triangle Conduit & Cable Co Inc  
TRILINE Calder Mfg Co  
TRIM-BOY Coleman Co Inc  
TUBELOX Patent Scaffolding Co  
TUB-O-ROD Mirro Chrome Co Inc  
TUCKAWAY DRYER United Metal  
Cabinet Corporation  
TUDUCO Tucker Duck & Rubber Co  
TUFBAK Behr-Manning Co  
TUFOR Granco Steel Prods Co  
TUFOR Cortland Grinding Wheels Corp  
TUFENSE Tufcrete Co Inc  
TUFCRETE LIQUITILE Tufcrete Co Inc  
TUFCRETE RESURFACER Tufcrete Co  
TUFCRETE TUFDEK Tufcrete Co Inc  
TUFF-BOND Moore Goodloe E Inc  
TUFF-CHAMP Ludlow Papers Inc  
TUFFIE Eveready Brik Saw Co  
TUF-FLEX Millers Falls Co  
TUF-FLEX Biddle Co  
TUFFLEX Serviced Prods Corp  
TUF-FLEX DOORS Libbey-Owens-Ford  
TUF-FLEX PLATE GLASS Libbey-  
Owens-Ford Glass Company  
TUFF-TRED Moore Goodloe E Inc  
TUFF-WELD Moore Goodloe E Inc  
TUFF-WOOD Wood Conversion Co  
TUFSEAL Tufcrete Co Inc  
TUFTAB Certain-Teed Sales Corp  
TUFTITE Tufcrete Co Inc  
TUFTOP Tufcrete Co Inc  
TUGIT Manning Maxwell & Moore Inc  
TUNNELITE Thomason Plywood Corp  
TURBINE TYPE Smith T L Co  
TURF BOY Wood Shovel & Tool Co  
TURN-A-BORE Turn-A-Bore Equip  
TURN-A-SHELF Amerock Corporation  
TURNER TORCHES Turner Corp  
TURNETTE Miami Cabinet Div  
TURNLOK Pass & Seymour Inc  
TURNLOX Benjamin Electric Co  
TUSKY Tubular Structures Corp  
TWIN General Electric Co  
TWIN ANCHOR Manhattan Terrazzo  
TWINBATCH Koehring Co  
TWIN LeTourneau-Westinghouse Co  
TWIN CUSHION Macklanburg-Duncan  
TWIN DISH Gyro Brass Mfg Corp  
TWINDOW Pittsburgh Plate Glass Co  
UNIVERSAL Certain-Teed Sales Corp  
UNIVERSAL Buschman E W Co Inc  
UNIVERSAL Cribben & Sexton Co  
UNIVERSAL Johns-Manville Corp  
UNIVERSAL Newark Ladder  
UNIVERSAL CEMENT Universal Atlas  
UNIVERSAL LIGHTING DUCT Bulldog  
Electric Prods Div I-T-E Circuit Brkr  
UNIVERSAL ROTO Universal Fabricators  
UNIWALL Nateco Corp  
UNIWELD Permagine Corp of America  
UNXLD Yawkey Bissell  
UPSON KUPER-KRAK Upson Co  
UPSON STRIATED Upson Co  
UPSON STRONG-BILT Upson Co  
U/R Universal-Rundle Corp  
USCOLITE United States Rubber Co  
U S G GYPSUM SHEATHING United  
States Gypsum Company  
USM U S Mineral Wool Co

(Continued on page 402)

# HOW SCREEDING SIDEWALKS SAVES 20 PER CENT IN PRODUCTION TIME



To cut production time in sidewalk construction, and eliminate bull floating, many contractors have begun to use the twin beam vibrating screed, manufactured by STOW. Through use of this screed, ordinary vibrators can be eliminated, and stiffer concrete can be poured since the STOW screed vibrates and strikes off at the same time. The twin beams actually give the effect of making two passes at once, result in really smooth surface.

Amplitude delivered by the screed is adjustable, can be varied so that the screed actually walks itself along the side forms, while operators simply guide it. Contractors report that the unit can keep up with the ready mix truck as it dispenses the concrete along the length of the sidewalk.

For additional information on STOW screeds, concrete grinders, tampers, roto-trowels, vibrators, contact your STOW distributor, or send in the coupon below.

**STOW MANUFACTURING CO.**  
Dept. G-4, 142 Shear St.  
Binghamton, N. Y.

Please send me your pamphlet titled "The Advantages and Use of the Vibrating Screed" and Catalog 580.

NAME .....

ADDRESS .....

COMPANY .....

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

397

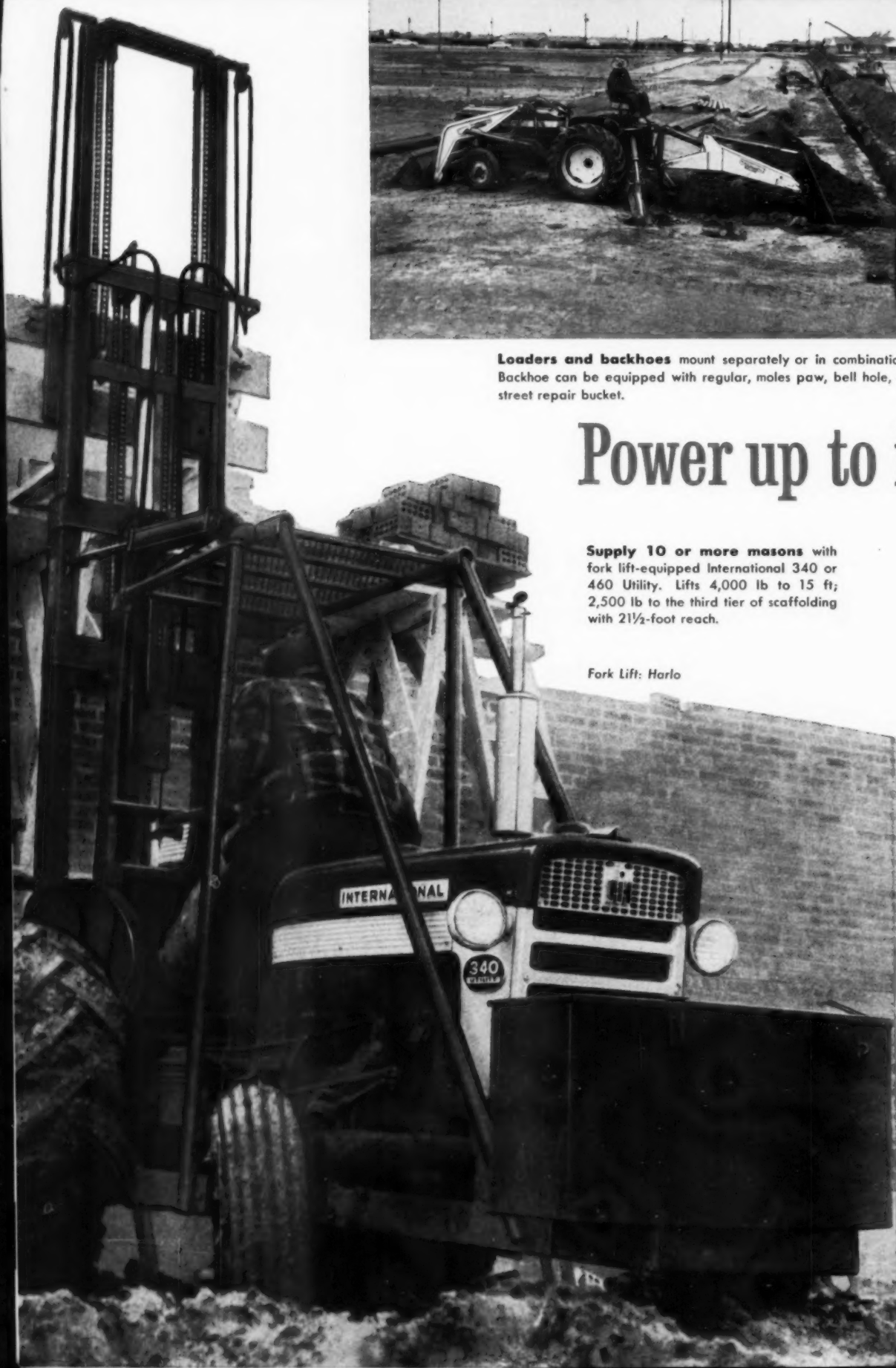


**Loaders and backhoes** mount separately or in combination. Backhoe can be equipped with regular, moles paw, bell hole, or street repair bucket.

## Power up to fit

**Supply 10 or more masons** with fork lift-equipped International 340 or 460 Utility. Lifts 4,000 lb to 15 ft; 2,500 lb to the third tier of scaffolding with 21½-foot reach.

*Fork Lift: Harlo*







Keep both ends of your IH tractor profitably busy with a front-end loader and an International Danuser Terra-Scoop, blade, or Scarifier-Scrapper (shown).



The husky, four-cylinder International T-340 develops 45 hp, delivers more than 6,400 lb drawbar pull, gives top fuel economy in its power class.

# your jobs and your budget...

## What a difference IH built-in brawn makes!

The first time you watch an International® tractor at work, you'll see a big difference in the traction, the capacity, and the working speed, compared with that of the lighter weight rigs you've been used to. That's because these sturdy IH tractors have greater *built-in* weight. The result is an im-

proved *power-weight* ratio for greater traction, as well as *stamina*, to keep you on the job under the pressure of tight schedules!

Whatever the size of your jobs and your budget, you'll find an International sized, priced, and powered to match. With six sizes of wheel tractors from which to select, you don't have to pay for a bigger unit than you need, nor slow down your work with an under-powered rig.



Unit-Engineered  
LOADERS AND BACKHOES

Loader Model	No. 45	No.120*	No.140*	No.150*	No.265* self-leveling	No. 365 self-leveling	No. 465 self-leveling
For International Tractor Model No.	Cub-Lo-Boy	240	340	B-275	460	560	T-340
Rated full lift capacity, lb	450	1,300	1,600	1,600	2,500	3,000	3,500
Breakaway capacity	1,000	2,800	3,200	3,600	3,600	4,000	6,500
Dumping height	6 ft, 3 in.	8 ft	8 ft	8 ft, 2 in.	8 ft	8 ft	8 ft, 4 in.
Maximum lift height, top of bucket	9 ft, 9 in.	11 ft, 8 in.	11 ft, 8 in.	12 ft, 8 1/2 in.	12 ft, 4 in.	12 ft	13 ft
*Side-Dump bucket available							
Backhoe model	For International tractor No.		Digging depth, ft		Range of bucket size		
No. 65	240, 340, 460, B-275		10		2—5 1/2 cu ft		
No. 65T	T-340 Crawler				2—5 1/2 cu ft		
No. 95	340, 460, 560		13 1/4		2—5 1/2 cu ft		

New International B-275 Diesel tractor saves up to 50 per cent on fuel while delivering 29 drawbar hp. Exclusive differential lock pulls you through soggy footing.



### KEY INTERNATIONAL TRACTOR SPECIFICATIONS

Tractor model	Max. flywheel horse power*	No. of cyl.	Max. drawbar horse-power*	LP-Gas engine	Diesel engine	Base working weight, lb††	Speeds forward	Hydraulic pump capacity, gpm	Power Steering
Cub Lo-Boy	13.4	4	10.1			1,895	3	2.8	
240	38.5	4	28.9			3,637	4	9.3	Yes
B-275 (Diesel)	35	4	29.2		Yes	3,875	8	6.5	
340	45.0	4	32.4			4,365	5 or 10†	9.3, 12, or 17	Yes
T-340 Crawler	45.0	4	31.0			6,695	5 or 10†	9.3, 12, or 17	
460	61.0	6	48.1	Yes	Yes	5,015	5 or 10†	12 or 17	Yes
560	72.5	6	59.4	Yes	Yes	6,563	5 or 10†	12 or 17	Yes
660 (Diesel)	95.0	6	74.3	Yes	Yes	9,875	5 or 10†	12 or 17	Yes

\*At standard sea level conditions.  
†With optional Torque-Amplifier drive.  
††With 175-lb operator... no wheel weights or fluid in tires.

Ask your IH Dealer to prove International tractor performance with an on-the-job demonstration. For dealer's name and full-line catalog, write International Harvester Company, Dept. AB-4, P. O. Box 7333, Chicago 80, Illinois.



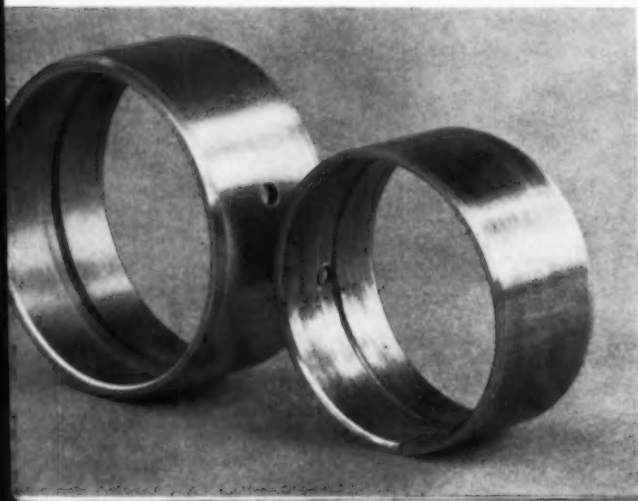
International Harvester Products pay for themselves in use—Farm Tractors and Equipment...Twine...Industrial Tractors and Equipment...Motor Trucks...Construction Equipment—General Office, Chicago 1, Illinois

# Onan Electric Plants are when this independent



**Big, beefy bearings for longer life.** (Lower left) double-size Onan bearings vs. small bearings (right) used in many other makes. Larger bearing surface reduces wear, stretches time between overhauls. Onan builds up to performance—never down-to-a-price.

**The engine that ran equivalent to 487,888 automobile miles.** Here's endurance no auto could begin to match. Onan engine #1068 was operated for 12,197 hours. It was stop-started 100 times. At test's end #1068 and generator were delivering their stated output.



# Performance Certified only tester says O.K.

*His job is to provide a double-check on Onan's  
own tests and testing methods*

The man at the left is an expert from an independent testing laboratory. On the job, he believes nothing except what his trained eyes, ears and scientific testing instruments tell him.

He, and others like him, pay frequent surprise visits to Onan factories. He can pull any Onan plant off the test line. Put it through its paces. Recheck the checks Onan engineers and inspectors have already made. He has authority to pull a whole series of plants off the line if he

finds one fault. He does all this even though every Onan plant is tested for hours by Onan personnel *before it is shipped.*

Onan takes these special precautions to make *doubly* sure that you get all that you pay for, and more, when you own a Performance Certified Onan. For more details—and an analysis of your primary and stand-by power needs—see the Onan distributor nearest you. He's listed in the telephone classified section in all major cities. Or write direct.

**ONLY ONAN GIVES YOU THIS GUARANTEE**



**PERFORMANCE  
CERTIFIED**

We guarantee that when properly installed and operated this Onan electric plant will deliver the full power and the voltage and frequency regulation promised by its nameplate and published specifications. This plant has undergone several hours of running-in and testing under realistic load conditions, in accordance with procedures certified by an independent testing laboratory.

**D. W. ONAN & SONS INC.**  
Minneapolis 14, Minnesota



*World's  
Leading Builder  
of Electric  
Power Plants*

**D. W. ONAN & SONS INC., 2544 UNIVERSITY AVE. S.E., MINNEAPOLIS 14, MINN.**

## BRAND NAMES DIRECTORY

(Continued from page 397)

U S S AMERICAN American Steel  
 UTILAIRE Burnham Corp  
 UTILATUB Mustee E L & Sons Inc  
 UTIL-A-VEYOR Mulkey Sam Co  
 UTILIDOR Wagner Mfg Co  
 UTILITRUC Clark Equipment Co  
 UTILITY Chesler J & Sons Inc  
 U TUBE Handley-Brown Co  
 VAC-KING American Floor Machine Co

VAC-KLEEN Atlas Floor Surfacing Machinery Corporation  
 VAC-MOR Atlas Floor Surfacing Mach  
 VAG-O-JECT Smith & Loveless Inc  
 VACOL Anderson V E Mfg Co Inc  
 VACU-BREAK SAFETY SWITCH Bulldog Elect Prods Div I-T-E Cir Break  
 VACU-FLO H-P Products Inc  
 VALIANT WINDOWS Alasco Inc  
 VALUAIRE Auer Register Co  
 VALVENT Swartwout Co

VELON Firestone Plastics Co  
 VELTONE Congoleum-Nairn Inc  
 VEL-VE-LUX Elliott Paint & Varnish Co  
 VELVET McMinville Mfg Co  
 VELVETEX Mosaic Tile Co  
 VELVETONE Dooroscope Co  
 VELVETONE Mosaic Tile Co  
 VELVETONE Globe Paint Works Inc  
 VELVETRED Allied Compositions Co Inc  
 VENETIAN MEDICINE CABINETS Rienter Woodwork Specialty Company  
 VENI-FLEX Aeroshade Co  
 VENI-FLEX Consolidated General Prod  
 VENI-SHADE Consolidated General Prod  
 VENT-A-BATH Emerson-Pryne Co  
 VENTAMATIC Angel Co  
 VENTDOME Wasco Products Inc  
 VEN-TROL-HINGES Grand Rapids Hdwe  
 VENT-VIEW Wisco Inc  
 VENUS Shower Door Co of America  
 VERDORA Pratt & Lambert Inc  
 VERI-FAT Ash Grove Lime & Portland Cement  
 VERI NEET Northern Industries Inc  
 VERMICULITE Graybeal C R & Sons  
 VERMICU-PUMP JR Karelius Albert  
 VERNCO (Fans) Vernco Corp  
 VERNOS Mt Vernon Furnace & Mfg Co  
 VERSABASE Weyerhaeuser Co Silvatek  
 VERSABORD Weyerhaeuser Co Silvatek Division  
 VERSA-TILE LAVATORY Universal-Rundle Corporation  
 VERSA-VISE Will-Burt Co  
 VERTIFLOW Young Radiator Co  
 VERTI-GROOVE Celotex Corp  
 VERTISEAL Serviced Prods Corp  
 VERTIVENT Young Radiator Co  
 VESTA Athens Stove Works Inc  
 VIBRAPAC Besser Co  
 VIBRA-STOP Wilson Grant Inc  
 VIBRECHORD Edwards Co Inc  
 VIBRO-GRAVER Burgess Vibrocrafters  
 VIBRO-SPRAYER Burgess Vibrocrafters  
 VIBRO-TOOL Burgess Vibrocrafters Inc  
 VIC-EASY Victaulic Co of America  
 VICTOR LADDER Rich Howard B Inc  
 VICTOR SUN CONTROL Victor Tool  
 VIKING Forsberg Mfg Co  
 VIKING Lehman Co  
 VIKING STONE General Concrete Prods  
 VIKING (Windows) Aluminum Industries  
 VIKON Vikon Tile Corp  
 VINA-LUX Azrock Floor Products  
 VINALUME New York Wire Cloth Co  
 VINYLBEST Congoleum-Nairn Inc  
 VINYLCONGO WALL Congoleum-Nairn  
 VINYL GLO Seal Rite Caulking Co  
 VINYL KOTE Seal Rite Caulking Co  
 VISADOR Visador Co  
 VISIONAIRE Silvray Lighting Inc  
 VISION-VENT Republic Steel Corp  
 VISIPAK Griffin Mfg Co  
 VISQUEEN Visking Co  
 VISTARAMA Wabash Screen Door Co  
 VISTA-VUE Mirro Chrome Co Inc  
 VITA-LUX Vita-Var Corp  
 VITE O'Brien Corp  
 VITRALITE Pratt & Lambert Inc  
 VITRAMIC Ruberoid Co  
 VITRE-STEEL Weis Henry Mfg Co  
 VITRIFLEX Serviced Prods Corp  
 VITRINEER (3/4") Robinson Brick & Tile  
 VITRITILE Nateo Corp  
 VITROCK Davidson Enamel Products Inc  
 VIT-ROCK Coleman Co Inc  
 VITROLENE Minnesota Paints Inc  
 VITROLINER Condensation Engineering  
 VITROLUX Libbey-Owens-Ford Glass Co



You can do more with

**DELTA**

### More finishing on the job



Delta Saw-Jointer Combination  
 —available in 3 models.

Cut to fit, plane to finish by just moving a step—you'll save money on trim and finish work with this rugged, compact unit. A Deluxe 4" precision jointer and Delta 9" Tilting Arbor Circular Saw mounted on a single stand, powered by a single motor give you capacity and performance you can't buy at anywhere near the same low price!

Let your Delta Distributor show you how this machine (and other Delta woodworking tools) can put more profit in your pocket. He's listed under "TOOLS" in the Yellow Pages. Write for FREE literature: Rockwell Manufacturing Co., Delta Power Tool Division, 646D N. Lexington Ave., Pittsburgh 8, Pa.

DELTA INDUSTRIAL TOOLS

another fine product by

**ROCKWELL**



(Continued on page 406)

# SAFWAY

## LOW-COST 4 BY 4 STEEL SCAFFOLDING

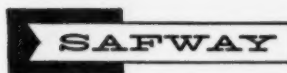
fits all your needs for residential, commercial and light industrial construction



### 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.

Sold and rented everywhere



SAFWAY STEEL PRODUCTS, INC., 6228 W. STATE ST., MILWAUKEE 13, WIS.

WRITE FOR FREE BULLETIN

64E





**PORTABLE ELECTRIC POWER**

*With Exclusive*

**AUTOMATIC CONSERV-er®** Idling Control

**SAVES up to 60% in FUEL COST**

- FULL POWER at either 115 or 230V from one outlet.
- LIGHTER WEIGHT
- SAVE TIME AND LABOR
- PACKAGED POWER UNITS from 1500 to 10,000 Watts.





WINCO LITE  
2500 Watts AC  
Model 205B14352D-FM10C  
with Exclusive FULL POWER Feature

WRITE FOR COMPLETE SPECIFICATIONS AND PRICES DEPT. AB 46

**WINCHARGER CORPORATION**  
SIOUX CITY, IOWA  
Subsidiary of Zenith Radio Corporation

## BOSTROM LEVELING INSTRUMENTS

Are simple to operate, accurate as instruments costing twice their price, durable to withstand rugged use and are complete with Tripod, Rod, Target, Dust Cap and Sun Shade.

Thousands of contractors and builders are satisfied users of Bostrom Levels as they have found them to be the most dependable and cheapest instruments to operate.

No. 5 BOSTROM Convertible Level Detachable Compass when desired



No. 4 BOSTROM Contractors' Level



Bostrom Levels are carried in stock by distributors from coast to coast. Mail the coupon below for complete literature, prices and name of our distributor near you.

**BOSTROM-BRADY MFG. CO.**  
Stonewall and Bailey Streets, S.W.  
Atlanta 3, Georgia

**BOSTROM-BRADY MFG. CO.** Dept. AB-60  
Stonewall and Bailey Streets, S.W., Atlanta 3, Ga.  
Please send catalog page on Bostrom Levels and name of your distributor near me.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_



## "We get profitable renovation jobs through the Yellow Pages"

says B. A. Pollok, Jr., Pres., Norport Construction Co., Inc., Norfolk, Va. "Our Yellow Pages advertising effectively reaches people in our area who want renovation work done. And we *know* it's paying off! "Just at random, I can think of two commercial jobs, one for \$7500 and the other \$3500, that recently came to us as a direct result of our Yellow Pages advertising. And we just finished three different dormer jobs—all of which came in through the Yellow Pages, too." Yes, Yellow Pages advertising *does* pay off. That's because people turn to the Yellow Pages when they want renovating jobs done. To get more inquiries and jobs, be sure you are telling prospects *what* you specialize in and *where* you are located. Build **AWHERENESS** of your business by advertising in the Yellow Pages. Contact the Yellow Pages man at your Bell telephone business office to help you plan an effective Yellow Pages campaign in *your* selling area.

**Norport Construction**  
*Co., Inc.*

BRUCE A. POLLOK, JR., President — GARLAND L. ISBELL, V. President

**REMODELING SPECIALIST**  
**COMPLETE HOME**  
**IMPROVEMENT SERVICE**



• ROOFING & SIDING	• JALOUSIES
• ADDITIONS	• PORCH ENCLOSURES
• FLOOR & WALL TILE	• RECREATION ROOMS
• ALTERATIONS	• ATTICS FINISHED
• BRICK WORK	• STITCHING MODERNIZED
• CRIBBY WORK	• GARAGES

**REPAIRS OUR SPECIALTY**  
LIBERAL TERMS      NO DOWN PAYMENT  
FREE ESTIMATES

**UL 3-5820 or UL 3-5921**  
E. PRINCESS ANNE RD. & EARLY ST.

**NORPORT CONSTRUCTION** has two large display ads in the Norfolk Directory. One appears under *Home Improvements* (shown reduced) and one under *Contractors-Building*.

Find Us Fast  
In The  
Yellow Pages



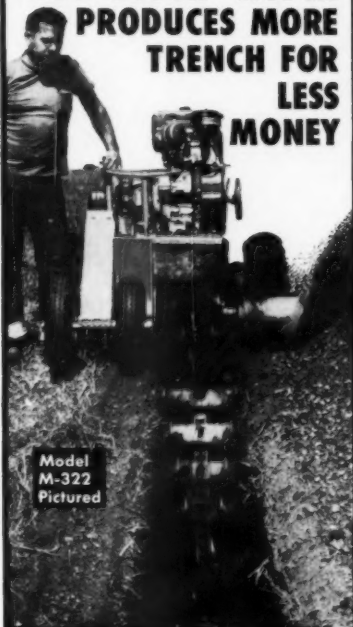
Display this sales-building emblem wherever your prospects can see it.  
The Yellow Pages representative will gladly supply as many as you need.

*"More or Less"*  
**THE BEST**



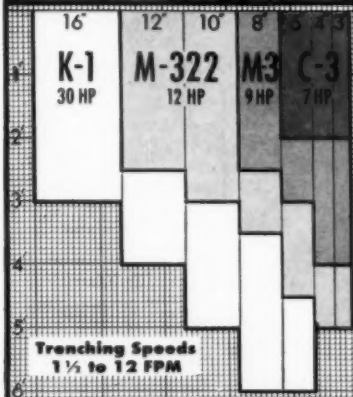
Other trenchers cost *"More or Less"*  
Other trenchers dig *"More or Less"*

**BUT DITCH WITCH  
PRODUCES MORE  
TRENCH FOR  
LESS  
MONEY**



Model  
M-322  
Pictured

**TRENCH SIZES FOR 4 MODELS:**



- USE FOR:**
- Utility Services
  - Sewer Laterals
  - Gathering Lines
  - Road Crossings
  - Signal Lines
  - Sprinklers
  - Footings, etc.

**CHARLES Machine Works, Inc.**  
631 B Street • Perry, Okla.

To Locate Distributor, Look Under "Contractors Equipment" in 1960 Metropolitan Telephone Directory Yellow Pages for Ditch Witch Trade-mark; or Call Collect FE 6-4404, Perry, Okla.

**6 WAYS TO SAVE**

*with*



**BIL-JAX**

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.

Write for catalog.

**BIL-JAX, INC.** Archbold, O.

RENTAL AND SALES OUTLETS THROUGHOUT U.S. AND CANADA



SECTIONAL



TUBE-N-CLAMP  
STEEL SCAFFOLDS



HOIST TOWERS  
and CONCRETE EQUIPMENT



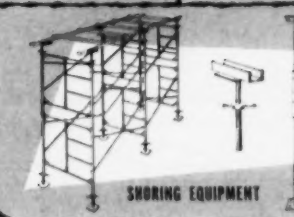
SWING SCAFFOLDS - CATWALKS - STAGES



MAINTENANCE  
TRESTLE



ALL-PURPOSE  
SCAFFOLDS  
in STEEL and ALUMINUM

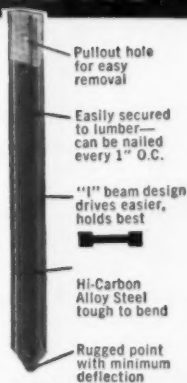


SHORING EQUIPMENT

**SYMONS Steel Stake**

**Can Be Reused Indefinitely**

Drives easily into hard earth. Can be used for practically any type of stake work. This popular item is available in 12", 18", 24", 30", 36" and 42" sizes.



**FREE!**

**Stake Puller with order of 100**

**Sizes can be mixed**

Prices and items shown are net F.O.B. Chicago, Illinois factory and subject to change without notice.

TERMS: (check one) Check enclosed; If satisfactory mercantile rating or reference is furnished, net 30 days; C.O.D.

**Symons CLAMP AND MFG. CO.**

4261 Diversey Avenue Dept. DO Chicago 39, Illinois

Please ship the following Steel Stakes:

Quantity	Size	Price Each	Total Price	Quantity	Size	Price Each	Total Price
	12"	\$1.00			30"	\$1.30	
	18"	1.10			36"	1.45	
	24"	1.20			42"	1.60	

PLEASE PRINT

Prices slightly lower in California

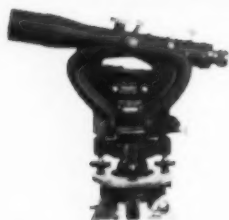
Firm Name \_\_\_\_\_

Address \_\_\_\_\_

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

By \_\_\_\_\_ SIGNATURE \_\_\_\_\_

— there's a BERGER instrument  
for every builder...every budget



**MASTER BUILDER CONVERTIBLE  
TRANSIT-LEVEL — Model 320**

22-power telescope; coated optics, 3-ft. short focus. Horizontal circle and vertical arc read to 5 min. Sliding bar-type level lock. \$229.50\*



**SPEED-A-LINER BUILDERS  
TRANSIT-LEVEL — Model 200**

New brilliant optical system. Horizontal circle; vertical arc. Plate and telescope fine motion controls. Built-in sunshade. \$112.50\*



**HEAVY DUTY 12" DUMPY LEVEL  
Model 150**

24-power coated optics. Dust protected horizontal circle and vernier reads to 5 min. Rugged, accurate center construction. \$174.95\*



**SERVICE TRANSIT-LEVEL  
Model 143**

Reinforced one-piece yoke frame. 10-power. Fine motion controls on horizontal circle and telescope. Telescope and plate vial. \$99.95\*



**SPEED-A-LINER DUMPY LEVEL  
Model 190**

Internal focusing 11 1/2" telescope. Circle reads in degrees. Built-in sunshade. 4-screw fully enclosed, dust-proof leveling head. \$69.95\*



**SERVICE DUMPY LEVEL  
Model 110**

12-power. Horizontal circle reads in degrees. Micrometer tangent screw and clamp for "on target" pointing. Underslung level vial. \$59.95\*

\*Prices include stiff leg tripod, plumb bob, and case—F.O.B. Factory

Other Berger low-cost, easy-to-use instruments include:

DUPLX Tilting Level \$79.95\* SIGHT "n" SURFACE Pocket Level \$3.85

**MAIL COUPON FOR DETAILS**

C. L. BERGER & SONS, INC., 47 Williams St., Boston 19, Mass.

Send me literature on

Convertible  12" Dumpy Level  SPEED-A-LINER Transit-Level

SPEED-A-LINER Dumpy Level  Service Transit-Level

Service Dumpy Level  Duplex Tilting Level  Pocket Level

Name \_\_\_\_\_ (Please print)

Address \_\_\_\_\_

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

THE BEST IN  IS **BERGER**

Engineering and Surveying Instruments... Since 1871

**BRAND NAMES  
DIRECTORY**

(Continued from page 402)

- V-LINE Millers Falls Co
- VOGUE-LITES Swivelier Co Inc
- VOLTMASER Pioneer Gen E Motor
- VONNEGUT Grinding & Polishing Machine Corp
- VOSS Pacific Pre-Cast Products Inc
- V-PLANK United States Plywood Corp
- V-PLY PLYWOOD Midwest Plywood Co
- VU-ALL Cable Electric Products Inc
- VUDOR Hough Mfg Corp
- VULCATEX Horn A C Companies
- VUL CO-ETT Vulcan Metal Prods Inc
- VULCO STORM DURA DOOR Vulcan Metal Products Incorporated
- VYN-GARD O'Brien Corp
- WACO TRANSWALL Waco Transwall Folding Partition Div Waco Mfg Co
- WAKCO Warren-Knight Co
- WAKE FIELD 20 Wakefield Co
- WAL-BOARD HAMMER Wallboard Tool
- WALCREST Stamford Wallpaper Co Inc
- WALCREST WAL-PASTE Stamford Wallpaper Co Incorporated
- WAL-DOR Closures Sales Corp
- WAL-DOR Clopay Corp
- WALDORF Waldorf Heater Co
- WEAVER Mastic Tile Div Ruberoid Co
- WEAR-KOTE Camp Co Inc
- WEATHERBAN Minnesota Mining & Mfg
- WEATHER-BAR Allied Chemical Corp
- WEATHER-BLOC Weather-Bloc Co Inc
- WEATHER-KING Barber Colman Co
- WEATHERLOK Johns-Manville Corp
- WEATHER-LOK Western Pine Mfg Co
- WEATHERMAN Tannus Industries Co
- WEATHER-SELECTOR Typhoon Air Conditioning Co
- WEATHER-TEX Bird & Son Inc
- WEATHER-TITE Ives H B Co
- WEATHERTITE Johns-Manville Corp
- WEATHERWISE Barkow Aug G Mfg Co
- WEBCOM Weber Showcase & Fixture Co
- WEBERWALL Weber Showcase & Fix
- WEB-PLY Weber Veneer & Plywood Co
- WEDGELOCK Cannelton Sewer Pipe Co
- WEDGE LOCK Robinson Clay Product
- WEDGE-LOCK Logan Clay Prods Co
- WEDGE-LOCK (Pipe) Pomona Terra-Cotta Company
- WEDGE TIGHT Calder Mfg Co
- WEDGWOOD Wedgwood-Holly Appl Co
- WEDGWOOD HOLLY Wedgwood-Holly
- WEIR-MEYER Meyer Furnace Co
- WEISART Weis Henry Mfg Co
- WEISTEEL Weis Henry Mfg Co
- WEISWAY Weis Henry Mfg Co
- WELD-CRETE Larsen Products Corp
- WELDED FENCE Gilbert & Bennett Mfg
- WELDMASER Lewis-Shepard Products
- WELDTEX United States Plywood Corp
- WELD-TITE PRIMER Minnesota Paints
- WELDWOOD U S Plywood Corp
- WELDWOOD CONTACT CEMENT US Plywood Corporation
- WELDWOOD PLASTIC RESIN GLUE United States Plywood Corporation
- WELDWOOD WOOD-TRIM U S Plywood
- WELTRUS Republic Steel Corp Truscon
- WESCO Northwest Foundry & Furnace
- WESGLAS Wessels Co
- WESLOCK Western Lock Mfg Co
- WESTERN Tuck-Aire Furnace Co
- WESTERN (Ladder) Rich Howard B Inc
- WESTERN-HOLLY Wedgwood-Holly App
- WESTFIR Hines Edward Lumber Co
- WESTON Round David & Son Inc
- WEST WIND West Wind Corp

(Continued on page 407)



# BRAND NAMES DIRECTORY

(Continued from page 406)

WETHERMATIC COOLING Williamson Company  
 WEVELITE Insulite Div  
 WEYBASE Weyerhaeuser Co Silvatek Div  
 WEY FAIR Weyerhaeuser Co Silvatek  
 WEYLITE Weyerhaeuser Co Silvatek Div  
 WEYTEX Weyerhaeuser Co Silvatek Div  
 WEYSTONE Weyerhaeuser Co Silvatek Div  
 WHALE Forsberg Mfg Co  
 WHEELERS Minneapolis-Moline Co  
 WHEEL-EZY Rapids-Standard Co Inc  
 WHEELOADERS Minneapolis-Moline Co  
 WHIRLERS Clyde Iron Works Inc  
 WHIRLETTES Clyde Iron Works Inc  
 WHIRLEYS Clyde Iron Works Inc  
 WHIRLWIND Toro Mfg Co  
 WHISPER QUIET Rybolt Heater Co  
 WHITCO Whitney Vincent Co  
 WHITE-CLAD Lufkin Rule Co  
 WHITE LATEX SUREMASTIC Camp Co  
 WHITE ROSE York Wall Paper Co  
 WHITE-TAPES Evans Rule Co  
 WHITE TOP Johns-Manville Corp  
 WHITE 2000 SERIES White Motor Co  
 WHITE 3000 SERIES White Motor Co  
 WHITE 5000 SERIES White Motor Co  
 WHIZ SAWS Forsberg Mfg Co  
 WILWEAR Turner & Seymour Mfg Co  
 WINCO Wincharger Corp  
 WINCROFT Stove Works Inc  
 WINDALUME Windalume Corp  
 WINDLOCKS Globe Roofing Prods Co Inc

WINDMASTER Acme Eng & Mfg Corp  
 WINDMASTER Carey Philip Mfg Co  
 WINDMASTER DRAFT CONTROLS Lima Register Company  
 WINDO-GRILLE Tennessee Fabricating  
 WIND-O-ROBE Rockwell of Randolph  
 WINDO-TITE Ludman Corp  
 WINDOWALLS Andersen Corp  
 WIND SEAL Bird & Son Inc  
 WINDSOR Miraplas Tile Co  
 WIND-WAY Stewart S J Electric  
 WING-DING Diamond Expansion Bolt  
 WINGFLEX Dennis W J & Co  
 WINGFOOT Goodyear Tire & Rubber Co  
 WINN-MAID Nevamar Carefree Kitchens  
 WINSLOW Warren-Knight Co  
 WINSULITE Winsulite Mfg Co  
 WINTER WEATHERMAKER Carrier Corp  
 WINTITE Amerock Corporation  
 WIREDUCT Wiremold Co  
 WIREMOLD Wiremold Co  
 WISCONSIN KNIGHT Wisconsin Door Co  
 WISSCO Colorado Fuel & Iron Corp  
 WOOD-LOK Structural Products  
 WOODMASTER New Castle Products Inc  
 WOOD-MODE Wood Metal Industries  
 WOOD-NU STAIN Minnesota Paints Inc  
 WOODSLASHER True Temper Corp  
 WOODSULITE Certain-Teed Sales Corp  
 WOODTAPE Elliott Bay Mill Co  
 WOODTEX Certain-Teed Sales Corp  
 WOODTONE Protective Products Co  
 WOODTOX Wood Treating Chemicals Co  
 X-PANDOTITE X-Pando Corp

XTRA CUT Eveready Brikshaw Co  
 XTRU-LITE Mayes Bros Tool Mfg Co  
 XXL R Cleveland Heater Co  
 YANKEE Stanley Tools  
 YANKRAFT Rayco Products Inc  
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## QUALITY PAYS OFF

One of the longest standing gripes that builders have had against FHA and VA appraising is in the field of quality and reduced maintenance. "Why," goes the complaint, "should I put better materials and workmanship into my houses, when that other guy down the street is cutting all the corners, and still getting the same appraisal that I am? I just can't compete on this basis."

## A LEGITIMATE COMPLAINT

Certainly you can't blame the builder for objecting. And, where the complaint has proven true, too often the solution has been to cut quality and compete with the other guy on equal terms. So a good house goes off the market, and the buyer gets it in the neck.

Now there are indications of things brightening up for the quality-minded builder. A recent memorandum issued from FHA's Washington office urges all field offices to consider such things as long-lasting finishes and low maintenance costs in making their appraisals. It points out that in many cases the increased cost of the house will be more than offset by the lowered cost of maintaining it.

## THIS CAN HELP YOU NOW

Certainly you should hop down to your own FHA office and talk this over at the earliest opportunity. Quality and low maintenance are strong sales points, and you may be able to get them literally for nothing.

## A question of identity

Do you ever get the feeling these days that you aren't quite sure just what you are? You have always considered yourself purely and simply a homebuilder. But from all sides you hear that the homebuilding industry is going through a revolution, and from now on you'll have to be an engineer, or a businessman, or a merchandiser, if you want to stay in business.

There's a certain amount of truth in all of this. Homebuilding is changing from a craft to a manufacturing process, and as a builder you'll have to change with it. But, if you're building and selling houses successfully right now, you're already playing several roles. You're a builder, a buyer, a designer, a salesman, and a businessman. And, while no one can be expert in all these fields, you're expert in some, and you have a good working knowledge of most of the rest.

In short, you're a professional—a professional builder.

## Just what is a "Professional Builder"?

Let's consider the implications of this term. As a professional builder, you build a quality home and you stand behind it. As a professional builder you bear the ultimate responsibility for all phases of your operation. You probably hire some outside professions—architects, accountants, or sales help—but in the final analysis you are the one who decides what to build, how to build it, and how to sell it.

And, as a professional builder, you plan to stay in the building business.

## It's getting tougher all the time

This last point is a critical one. The so-called homebuilding revolution is in its early stages; as it moves faster, you're going to have to move faster too to keep up. So let's add one more definition: the professional builder keeps up with his profession. He knows what new construction techniques can help him most. He knows what new products are available. And he knows and builds what his market wants.

So whether you build new homes, remodel, or do commercial work, remember: you have to be a professional builder. The 60s will be the decade of the professional builder.

**IN THE NEXT ISSUE: a look at the opportunities in the vacation and retirement housing market...what's new in the electrical field, and how it can help you merchandise your houses...how to build and sell contemporary homes: advice from one of the country's best builders of modern design.**

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