

Fireproof Gypsum
BESTWALL
Building Products

1958

Products of Bestwall Gypsum Company

FIRESTOP BESTWALL[®]

For fire-rated gypsum wallboard construction in single layer application over combustible and incombustible framing. 2

BESTWALL HUMMER SYSTEMS

Laminated Bestwall[®] gypsum wallboard constructions for thin, non-bearing partitions and quality work. 4

BESTWALL 2" SOLID PARTITIONS

Non-bearing partition of Bestwall[®] gypsum lath and plaster to save space and costs in new construction and remodeling. 6

BESTWALL OLSEN GYPSUM LATH CLIPS

For fast, efficient attachment of gypsum lath. 7

BESTWALL JOINT SYSTEM

For smoother, better drywall construction. 8

BESTWALL FIREPROOF GYPSUM SHEATHING

Fireproof - Wind Resistant - Water Repellent - Glass Fibered. 8



FIRESTOP



**For Fire Rated Drywall Construction
Over Wood or Steel Framing To Meet
Many Code Requirements For Fire Resistance**

**Firestop Bestwall Gypsum Wallboard was the
first drywall material to provide:**

Up to one hour fire resistant, load-bearing walls and
ceilings with one layer application on both combustible
and incombustible framing.

Two-hour fire resistant, load-bearing walls with two
layer application.

This outstanding performance results from Best-
wall's development of a gypsum board core with
greatly improved fire resistive characteristics.

Fire Ratings Proved
(See Table Opposite Page)

Constructions surfaced with Firestop Bestwall
have been officially tested by two nationally-known
laboratories under ASTM Std. E-119, following the
standard time-temperature curve.

Fire resistance ratings based on these tests are
shown in the table on opposite page.

Fire Hazard Classification proven by test.

Easily Identified

Firestop Bestwall is made under Underwriters'
Label Service. Underwriters' representatives con-
duct frequent inspection of Firestop Bestwall at
each Bestwall plant where it is manufactured, as
a check on Bestwall's manufacturing, inspection
and quality-control operations.

It is easy to identify Firestop Bestwall for each
and every panel is branded on both front and
back with the thickness of the board and the
words "Firestop Bestwall."

The Underwriters' manifest shown below ap-
pears on the twin mounting tape which binds the
two cut ends in a bundle of two pieces (normal
shipping package). This is for 5/8" Firestop.

Meets Building Code Requirements

Firestop Bestwall may be used to meet building
code requirements for fire-resistant interior wall
and ceiling construction in buildings of all types
from highly incombustible to wood frame, and
various occupancies as dwellings, single and
multiple, institutional and commercial. Firestop
may also be used as the interior finish of exterior
load bearing walls to provide one-hour fire resist-
ance. Firestop Bestwall meets F.H.A. and V.A.
requirements and has been accepted under most
municipal, state and county codes and the national
model codes.

FIRE HAZARD CLASSIFICATION

Flame Spread	10-15
Fuel Contributed	5-15
Smoke Developed	0.45



BESTWALL

Improved Gypsum Core Aids Fire Resistance

Firestop Bestwall's extra fire protection lies in its
core. An exclusive Bestwall process minimizes
shrinking and cracking of the gypsum core thus
delaying the breaking up of the board when it is
exposed to intense heat.

Small amounts of glass fibers and unexpanded
vermiculite are added to the gypsum core of Fire-
stop Bestwall. The incombustible glass fibers
retain their strength under extreme heat, and so
help hold the gypsum core together even after all
the chemically-combined water has been released.
The unexpanded vermiculite — added in an exact
amount and well dispersed in the core — expands
under heat, just balancing the shrinkage of the
gypsum core as it loses its chemically-combined
water. Thus a solid face of calcinated gypsum stays
in place.

This thermo-stabilized gypsum core increases
Firestop Bestwall's insulation value at high temp-
eratures and provides up to three times greater fire
resistance than conventional gypsum wallboard.

Sound Transmission Rating

Results of sound transmission tests by Riverbank
Laboratories on a standard wood stud partition
faced each side with a single layer of 5/8" Firestop
Bestwall Gypsum Wallboard, are shown in the
table below.

This Firestop Bestwall construction compares
favorably with similar constructions as reported
in National Bureau of Standards Report BMS 17.

2" x 4" Wood Stud Partition 16" o.c. Surfaced on Both Sides with . . .	Ave. Noise Reduction Value	Density Per Sq. Ft.
Single lay of 5/8" Firestop Bestwall	39.0	7.2 lbs.
3/8" gypsum lath with 1/2" sanded plaster	34.9	15.0 lbs.
3/8" gypsum lath with 1/2" gypsum vermi- culite plaster	32.6	9.6 lbs.
Metal lath with 3/4" sanded plaster	39.2	20.0 lbs.
1/2" Fiberboard (no plaster)	32.2	3.8 lbs.

FIRE RETARDANT CLASSIFICATION

Floor and Ceiling	Design No. 1 - 1/2"
	Design No. 2 - 1/2"
Walls and Partitions	Design No. 5
	Design No. 10 - 1/2"
	Design No. 7 - 2 hrs. Design No. 11

SGP 0003889

Fire Resistance Ratings

RATINGS	PARTITIONS—Load Bearing or Non-Load Bearing	FLOOR AND CEILING CONSTRUCTION
	WOOD FRAME 2" x 4" Wood Studs, 16" on centers. Both Sides of Partition Covered with	WOOD FRAME 2" x 10" Wood Joist Covered with Wood Sub-Flooring, Building Paper, and Wood- Finish Flooring, Ceiling Surfaced with
30 Minutes 45 Minutes 60 Minutes (1 Hour) 120 Minutes (2 Hours)	1 layer $\frac{3}{8}$ " thick 1 layer $\frac{1}{2}$ " thick 1 layer $\frac{3}{8}$ " thick or 2 layers $\frac{3}{8}$ " thick 2 layers $\frac{3}{8}$ " thick*	1 layer $\frac{3}{8}$ " thick 1 layer $\frac{1}{2}$ " thick 1 layer $\frac{3}{8}$ " thick
	STEEL FRAME Steel Studs—24" (Max.) on centers. Both Sides of Partition Covered with	STEEL FRAME 12" Steel Bar Joists 24" on Centers. Covered with 2" Concrete Floor Slab. Ceiling Surfaced, through Metal Furring with
60 Minutes (1 Hour)	1 layer $\frac{3}{8}$ " thick*	1 layer $\frac{3}{8}$ " thick
	Non-Load Bearing Gypsum Strips for Studs Both Sides of Partition Covered with	*Independent Laboratory Tests (Name on Request)
60 Minutes (1 Hour) 180 Minutes (3 Hours)	1 layer $\frac{3}{8}$ " thick 2 layers $\frac{3}{8}$ " thick	

*Load Bearing Test by Independent Laboratory (Name on Request). **Stran-Steel Studs used in test.

Note: One layer of $\frac{1}{2}$ " thick regular gypsum wallboard on ceiling only gives 25 minutes resistance.

Nails for $\frac{1}{2}$ " thick boards—5d c.c. 13½ ga. flat head 1½" long, 6" on centers in ceiling, 7" on center in walls.

Nails for $\frac{3}{8}$ " thick boards—6d c.c. 13 ga. flat head 1½" long, 6" on centers in ceiling, 7" on center in walls.

Nails for second layer in two layer applications of $\frac{3}{8}$ " thick board—8d c.c. 11½ ga. flat head 2½" long, 7" on centers in walls.

These nailing specifications apply also to nailable steel framing with a nailing line or groove.

†Non Load Bearing Steel Framing—1 layer $\frac{3}{8}$ " Firestop Bestwall, Underwriters' Tests July 1955—UL Design No. 8—1 hr.

Six Other Advantages

In addition to its great fire resistance, Firestop Bestwall is:

1. **STRONG**—It readily resists crosswise stresses. $\frac{3}{8}$ " Firestop Bestwall has a flexural strength of 225 to 275 lbs. as compared to Federal Specifications minimum requirement of 105 lbs. for $\frac{1}{2}$ " regular gypsum wallboard.

2. **LONG LASTING**—Firestop Bestwall resists cracks due to framing movements, vibration and settling. It's unaffected by extremes in temperature and relative humidity.

3. **VERSATILE**—It is adaptable to any plan. Can be arched or curved.

4. **EASILY DECORATED**—Properly primed and sealed, Firestop Bestwall will take any type of decoration—enamel, oil paint, resin emulsion paint, water paint, wallpaper, etc.

5. **QUICKLY APPLIED**—Large, easy to handle panels cover up to 48 square feet of wall surface.

6. **ECONOMICAL**—Firestop Bestwall goes up fast, cuts by scoring and snapping, is easily nailed.

SIZES, THICKNESSES, WEIGHTS

Thickness	Width	Length	Edge	Wt./sq. ft.
$\frac{3}{8}$ "	48"	6' to 12'	Tapered	2.6 lbs.
$\frac{1}{2}$ "	48"	6' to 12'	Tapered	2.1 lbs.

SGP 0003890

BESTWALL®



Hummer

SYSTEMS

LAMINATED GYPSUM WALLBOARD CONSTRUCTIONS

Patented and Patents Pending

Available Through Licensed Applicators

Space-Saving Non-Bearing Partitions to Reduce Building Time and Costs

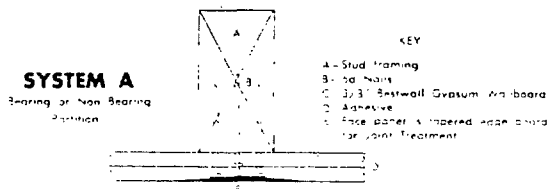
Bestwall Hummer Systems are especially designed methods for erecting Bestwall Gypsum Wallboard in multiple layer applications. They may be used with conventional framing or without framing in nonload bearing partitions to provide low-cost, high-quality wall and ceiling surfaces.

Laminated gypsum wallboard constructions provide sturdier, stronger walls and consequently less maintenance cost, greater resistance to sound and heat transmission, and better fire protection. Most

interior framing can be eliminated when laminated gypsum board constructions are combined with trussed roof construction in residential work, and with flat slab or beam and girder construction in commercial and industrial buildings.

Thin wall sections — in the range of from 2" to 2½" thick — make it possible to use many standard thin wall-opening details. Modern, thin, narrow, plain trim fits in with these thin laminated gypsum wallboard partitions.

Bestwall Hummer System A



This is the oldest and simplest laminated wallboard construction. Application is over conventional framed walls and ceilings. The first layer is nailed (spot nailed only) and the second layer is applied with adhesive and nailed. (Illustrated above.)

Bestwall Hummer System A Modified



SYSTEM A MODIFIED

System A Modified is an improved method of applying gypsum wallboard to frame constructions in two layers. It is a sure way of putting up gypsum wallboard to minimize nail popping and joint beading and provides a perfect installation. Bestwall Hummer System A Modified assures you of top quality laminated gypsum wallboard construction.

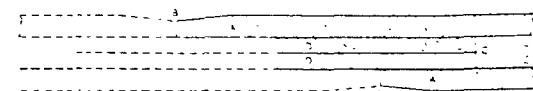
Bestwall Hummer System B Modified

System B Modified was developed to provide walls without frame or support of any material other than gypsum wallboard. Sheets of 4'

wide Bestwall Gypsum Wallboard are laminated, narrow strips being used between outer layers to reduce bulk, weight, cost, and to provide space for wiring, and to reduce sound transmission.

The improved construction combines one sheet of 5/8" Bestwall Gypsum Wallboard laminated on each side of three strips of two thicknesses of 1/2" board which serve much as gypsum studs. This panel has proved excellent for interior nonload bearing partitions.

The two-layer laminated application of System A is the accepted way to finish framed ceilings and framed exterior walls. In buildings with solid masonry walls, a refinement of the non-load bearing partition (System B Modified) makes a simple, self-furring, free-standing wall surfacing. Essentially this variation in construction detail omits the full sheet on one side of the panel.



SYSTEM B MODIFIED

Non-Bearing Partition
2 1/2" x 4" x 8' sections

Bestwall's 5/8" Firestop Bestwall consistently shows a flexural strength in the direction parallel to the folded paper edges of the board of 250 lbs. (plus) against a Federal Specification (SS-W-51a) requirement of 105 lbs. for 1/2" regular gypsum wallboard.

Systems A and B Modified Require Joint Treatment

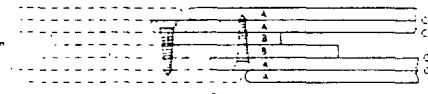
Systems A and B Modified are designed to have the joints treated with a paper tape and cement and to present a clean, unbroken surface.

This factory-fabricated narrow panel of several layers of gypsum board is ideal for walls where joints are left unfinished and for movable wall construction. Special lapped edges give a good-looking paneled effect.

The panel can be used in homes, apartments, offices and factories. It can be erected in the morning, trimmed and painted in the afternoon since there are no nails in the surface and no joints to be treated.

SYSTEM C

Non Load Bearing Partition
1. 1/2" x 8' x 4' 1/2'
2. 1/2" x 8' x 4' 1/2'
3. 1/2" x 8' x 4' 1/2'



KEY:
A. 1/2" Bestwall Gypsum Wallboard 16' x 4'
B. 1/2" Bestwall Gypsum Wallboard 24' x 4'
C. Adhesive
D. #16 Phillips Head Screw, 1" long

System C is recommended where omission of joint treatment is desired. Basic units are fabricated at Bestwall's gypsum plants, which results in a minimum amount of labor in the field.

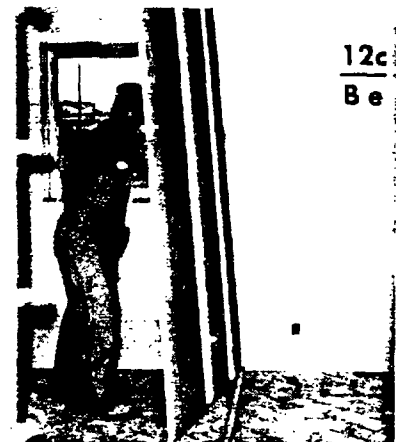
The factory-made panels are 8' long and are made of two full sheets of 1/2" Bestwall Gypsum Wallboard and two strips. The edges are so arranged as to effect a tongue and groove product. The face paper is that of regular gypsum wallboard and may be readily decorated. Two combinations are available.

In one, the full sheets are 16" wide and the edges are rounded.

The second panel is made with sheets 24" wide and the edges are beveled.

The second panel being a little wider is a little less expensive to erect. However, with the exposed joints 2' on centers, the paneled effect will be different in appearance. Although both panels can be handled easily, the 16" wide unit is the lighter.

Bestwall Hummer System B Modified panel is set against floor and ceiling runners.



Workman sets pre-hung door and frame with trim (on one side) in Bestwall Hummer System C partition.



Neither panel is recommended for use if the joints are to be treated. In addition to the extra cost of finishing the greater number of joints, the finished wall will not be as true as can be accomplished with 4' wide sheets.

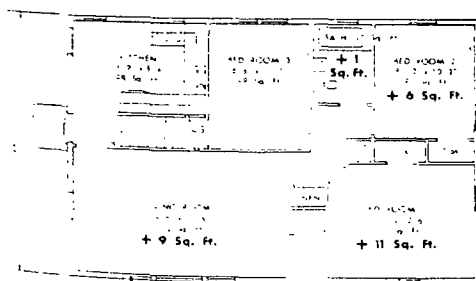
System C can be erected very rapidly with a minimum amount of field work. Besides saving the cost of the joint treatment this system uses blind nail and screw attachment to make possible one coat paint decorations with good results.

The panel is designed for use in a movable partition but will be equally satisfactory in a permanent partition. Thus, it finds its place in remodeling work as well as new construction.

The panels of System C can also be used to erect a less than ceiling high partition for fast, low-cost dividing walls in large office or loft buildings.

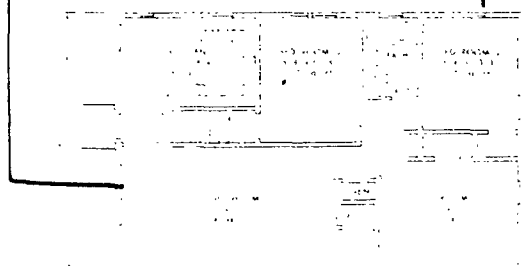
Bestwall Hummer System B Modified and C Ideal for Homes Built with Trussed Roof Construction

Bestwall Hummer System B Modified provides an ideal nonload bearing gypsum wallboard partition in the popular trussed roof construction — used to help reduce house costs in one story and so-called story-and-a-half houses. Illustrations (left) show typical small home with roof framed in conventional manner with center load bearing partition carrying the ceiling joists, and with walls finished with 1/2" gypsum board. The same home is shown in which trussed roof design is used and interior partitions are the thin gypsum wallboard construction of Bestwall Hummer System B Modified. Notice possible space savings. There are corresponding cost savings.



Left:
Non Load bearing
Bestwall Hummer
System B Modified
walls.

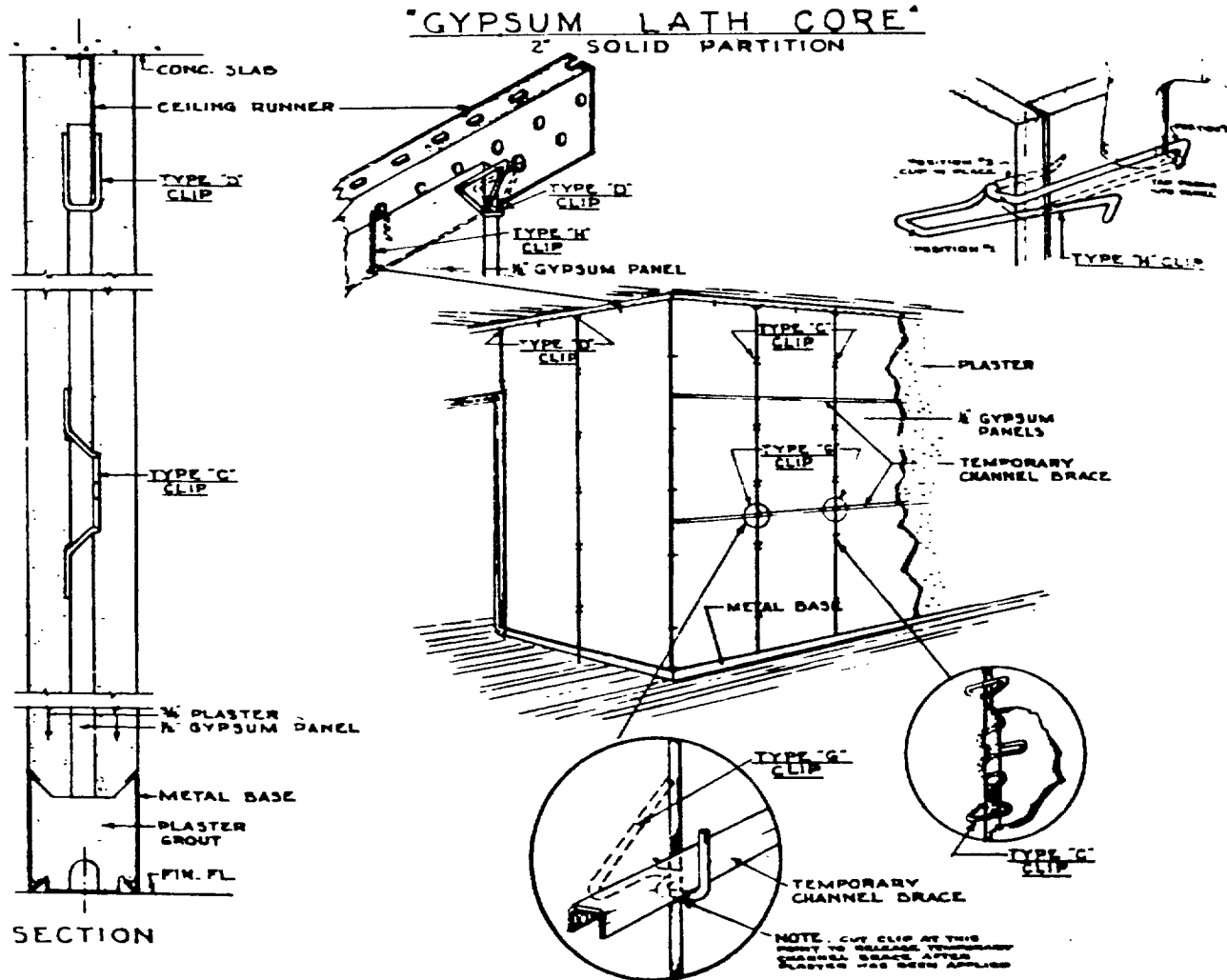
Below:
Conventional framing
2" x 4" wood
stud wall finished
with 1/2" gypsum
wallboard.



BESTWALL

2" Solid Partition Gypsum Lath and Plaster

For Lightweight, Fire-Resistant, Non-Bearing Walls in New Construction or Remodeling



Bestwall 2" Solid Plaster Partition of incombustible Bestwall Gypsum Lath and Bestwall Gypsum Plaster provides quick, inexpensive non-load-bearing walls in either new construction or remodeling. It reduces labor costs because of the

speed with which it can be erected. Lath goes up fast, especially with Bestwall Olsen Gypsum Lath Clips for attaching lath panels to each other, to ceiling, runners and to horizontal and vertical bracing.

ADVANTAGES

- | | |
|---------------------------|---|
| 1 Hour Fire Rating | Tested under A.S.T.M. standards. |
| Economical | Eliminates studs and double lath. Clips speed work. Save time, labor and materials. |
| Light Weight | 2" solid plaster partition weighs from 14 to 19 lbs. per sq. ft.
4" plastered tile partition weighs from 26 to 30 lbs. per sq. ft. |
| Solid | No hollow space for vermin, rodents, dirt. |
| Durable | Solid wall is sturdy, rigid, permanent. |

SGP 0003893

BESTWALL[®]

Olsen

Gypsum Lath Clips

ECONOMICAL

Save time and labor. Therefore, job costs are lower.

EFFICIENT

Lath is permanently and securely attached to any type of framing.

FAST

Less nailing, no wire-tying, and easy attachment enable the lath to be erected faster.

VERSATILE

Lath is easily clipped to bar joists, I-Beams, wood studs and joists, steel studs, steel channels, and Z-Bars. Single clips perform many functions.

DURABLE

Clips are made of 12 gauge electro-galvanized wire (or heavier).

REDUCES CRACKING

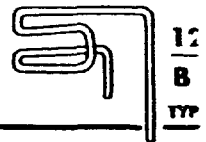
Resilient clips reduce cracks caused by movement of framing.

CONTROL SOUND

Improve resistance to sound transmission by resilient attachment of lath to studs. No solid attachment to transmit sound through the wall.

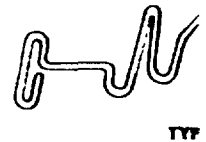
TYPE B FLOATING CORNER CLIP

Holds gypsum lath panels at right angles to each other, i.e., at wall corners and at ceiling perimeter. Type B-1 for $\frac{3}{8}$ " lath; B-2 for $\frac{1}{2}$ " lath.



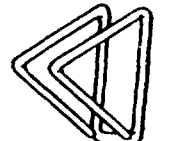
TYPE C RESILIENT AND CONNECTOR CLIP

For attaching gypsum lath panels to wood studs and joists, various steel studs, bar joists, and Junior I-Beams. Also used as a bridge clip to connect lath panels in many applications. In National Bureau of Standards test with the Type C Clip attaching gypsum lath to wood studs, a plastered partition had a Sound Transmission Loss of 44.5 decibels average from 128 to 4096 cycles per second.



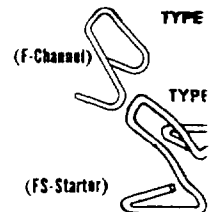
TYPE D TURN CLIP

Secures long-length gypsum lath to the ceiling runner of solid plastered partitions. Other uses: attaching gypsum lath to steel studs, channels or Z-Bars of hollow wall partitions or furred walls. Simplifies the insertion of the last lath panel of a partition or ceiling since the clip can be turned on an adjoining panel, to avoid interference, and then be turned back to engage the last panel being installed. It eliminates blind tying. Can also be used as a bridge clip to connect lath panels.



TYPE FS STARTER CLIP

is used to attach the first lath panel at the ceiling edge.

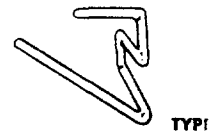


TYPE F CHANNEL CLIP

To attach gypsum lath panels to $\frac{3}{4}$ " furring channels or pencil-rod type bar joists for application of plaster or acoustical tile. Eliminates cross furring with $\frac{3}{4}$ " channels when used with this type of joists. Type F-1 is for $\frac{3}{8}$ " lath; F-2 for $\frac{1}{2}$ " lath.

TYPE G FURRING CLIP

Used to support $\frac{3}{4}$ " furring channels as a temporary horizontal bracing of gypsum lath for solid plastered partitions. Also to secure long-length gypsum lath to horizontal furring channels of furred walls. It eliminates blind tying.



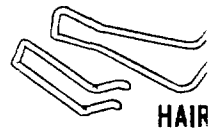
TYPE H CORNER AND CEILING RUNNER CLIP

Used to secure long-length gypsum lath to each other at corners in plastered studless partitions. Also to attach the mid-point of long-length lath to ceiling runners, when prong-type runners are not used.



HAIRPIN TYPE CHANNEL CLIP

Used in suspended ceiling construction to suspend furring channels from $1\frac{1}{2}$ " cold rolled carrying channels. One clip suspends $\frac{3}{4}$ " hot rolled furring channels; the other suspends $\frac{3}{4}$ " cold rolled channels.



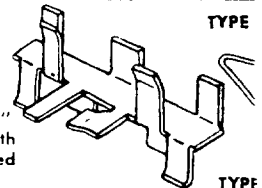
TYPE I-B I-BEAM CLIPS

Used in suspended ceiling construction to connect $\frac{3}{4}$ " or 1" furring channels to I-Beam. The clips are made of 6 gauge wire for plastered ceilings and 8 gauge for acoustical ceilings.



TYPE JX

Used to attach $\frac{3}{8}$ " gypsum lath to light gauge metal studs.

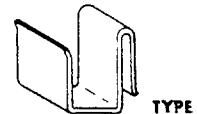


TYPE J STEEL STUD AND FURRING CHANNEL CLIP

For attaching $\frac{3}{8}$ " gypsum lath to all of the following: $\frac{3}{4}$ ", 1" $1\frac{1}{2}$ " hot or cold rolled furring channels, and metal studs with a flange $\frac{1}{2}$ " broad. It can be used in most any suspended ceiling construction and in metal-stud wall construction.

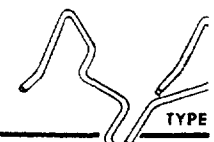
TYPE S

Used to anchor bottom edge of the bottom sheet of gypsum lath to the bottom plate in metal stud, hollow partitions.



TYPE K RESILIENT STARTER CLIP

Used in resilient wall and ceiling construction to hold the lath panels at the top, bottom, ends and corners of the wall, and around the perimeter of the ceiling.



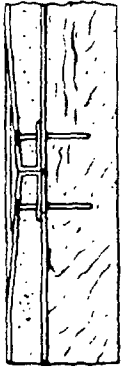
TYPE Z CENTER CLIP

For suspended ceiling construction. Attaches gypsum lath to furring channels through the center of the panel. Prevents the lath from sagging. Also used as a starter clip around the ceiling perimeter. Provides the necessary attachment for light troffers, eliminating wire tying.



BESTWALL

JOINT SYSTEM PRODUCTS



BESTWALL JOINT SYSTEM

Two different gypsum wallboard joint treatments are available.

A one-material treatment, Bestwall Joint System Cement, does for both embedding and topping tape and for spotting nail heads. The Cement has the adhesive

qualities needed to hold embedded tape and the workability needed for topping. Color of cement, when dry, matches the face paper of Bestwall Gypsum Wallboard. A good topping out job with Bestwall Joint System Cement eliminates sanding.

A two-material treatment provides Bestwall Bedding Compound for bedding tape, and Bestwall Topping Compound for covering tape, finishing the joint and covering nail heads. Topping Compound is soft enough when dry to be sanded, so is preferred by applicators who wish to sand their joint work.

PACKAGING: Bestwall Joint System Cement.

No. 1 Package 18 lbs. Cement; 250 ft. Tape.

No. 2 Package 4 lbs. Cement; 60 ft. Tape. (6 to carton)

No. 3 Package 4 lbs. Cement; 60 ft. Tape; 1 Plastic Broad-knife. (6 to Carton).

Cement only — 5 lbs. (6 to carton) — 25 lb. bags.

Bestwall Bedding Compound — 25 lb. bags.

Bestwall Topping Compound — 25 lb. bags.

Bestwall Certex Texture — 25 lb. bags.

Bestwall Tape — 250 ft. and 500 ft. rolls. (5000 ft. to carton).



FIREPROOF GYPSUM SHEATHING



Insert shows close-up of tongue-and-groove edges.

BESTWALL FIREPROOF GYPSUM SHEATHING

Bestwall Fireproof Gypsum Sheathing is reinforced with textile glass filaments for easier, quicker application, cleaner breaks, and greater flexibility. Insist on Bestwall Fireproof Gypsum Sheathing.

Bestwall's precision-made 2' x 8' panels, applied horizontally across framing members, tie 7 studs together. Precision-cut tongue-and-groove edges fit together to help make a permanent, rigid surface, structurally strong and dimensionally stable.

**FIREPROOF • WIND RESISTANT • WATER REPELLENT
REINFORCED WITH GLASS FIBERS**

STRUCTURAL STRENGTH • DIMENSIONAL STABILITY

During the devastating Kansas flood in 1951, only the roof of this house was visible for days. When the raging waters receded the gypsum sheathing was found to be undamaged. The water-repellent core returned to its original hardness without any warpage, shrinkage or buckling. Note that most of the shingles, secured by double-headed nails with double shanks that expand in the gypsum core were held fast against the fury of the flood. Those which were torn away were easily replaced.

Bestwall Gypsum Sheathing is extra water-repellent because the moisture has to get through the tough, treated covering paper before it can attack the treated core. This extra measure of water repellence provides a solution to the old, nagging problem of outside on-the-job storage.



Manufactured by

BESTWALL GYPSUM COMPANY

Sold Through

General Offices: Ardmore, Pennsylvania

* DISTRICT OFFICES *

ATLANTA, GA.
BUFFALO, N. Y.
CHICAGO, ILL.
CHICAGO HEIGHTS, ILL.

CLEVELAND, OHIO
DALLAS, TEXAS
DES MOINES, IOWA
DETROIT, MICH.

EAST ST. LOUIS, ILL.
JACKSON, MISS.
KANSAS CITY, MO.
MINNEAPOLIS, MINN.

RICHMOND, CALIF.
SALT LAKE CITY, UTAH
TACOMA, WASH.
WILMINGTON, DEL.

APPENDIX

specifications for gypsum plastering (cont'd)

section 4

E. *Metal Grounds* and other accessories, such as corner beads, screeds, picture molds, etc., shall be carefully examined to see that they are straight, curved, plumb, level, square, or true to the acquired angles, as the case may require, before the plaster is applied.

10. APPLICATION OF BASE COAT

A. *Two-Coat Work*.—Base (first) coat shall be applied with sufficient material and pressure to form good bond on gypsum lath or masonry as the case may be, and to cover well. Then, before this scratch coat has set, and without raking its surface, material of the same proportions shall be doubled back to bring the plaster out to grounds struck to a true surface with rod and darby, and left rough, ready to receive the finish (second) coat. Slow-setting plaster shall be accelerated to provide a set (mixed material) of less than 4 hrs.

B. *Three-Coat Work*.—Scratch (first) coat shall be applied with sufficient material and pressure to form good full keys on wood and metal lath, wire lath, and wire fabric, and good bond on gypsum or fiber insulation lath or masonry, as the case may be, and to cover well and then be scratched to a rough surface. Slow-setting plaster shall be accelerated to provide a set (mixed material) of less than 4 hrs.

Brown (second) coat shall be applied after the scratch (first) coat has set firm and hard, brought out to grounds, straightened to a true surface with rod and darby, and left rough, ready to receive the finish (third) coat (Note 2).

Note 2—To insure full plaster thickness, plaster screeds should be applied to the scratch coat prior to the application of the brown coat.

C. *Plastering on Monolithic Concrete*.—Surfaces of walls and columns shall have a scratch coat of bond plaster, followed by a brown coat of gypsum plaster (in the proportions of 1 part of gypsum neat plaster to not more than 3 parts of sand, by weight, or 100 lb. of gypsum neat plaster to not more than 3 cu. ft. of vermiculite or perlite) troweled into the scratch coat before it has set. The brown coat shall be brought out to grounds, using a double-back application if required, straightened to a true surface with rod and darby, and left rough, ready to receive the finish coat.

Surfaces of ceilings shall have a coat of bond plaster, scratched in thoroughly, doubled back, and filled out to a true, even surface and left rough, to receive the finish coat.

D. *Studless Solid Partitions* (Gypsum Lath and Plaster, Single-thickness $\frac{1}{2}$ " Lath) shall be plastered in accordance with the specifications in the Bestwall Solid Plaster Partition booklet.

11. APPLICATION OF FINISHES

The finish coat shall be applied to a partially dry base coat or to a thoroughly dry base coat which has been evenly wetted by brushing or spraying. The use of excessive water shall be avoided in the application of all types of finish coat plastering.

A. Trowel Finishes:

Gypsum-Lime Putty Trowel Finish:

Shall be applied over the base coat scratched in thoroughly, laid on well, doubled back and filled out to a true, even surface. The general thickness shall be $\frac{1}{16}$ to $\frac{1}{8}$ in. The finish shall be allowed to draw a few minutes and then it shall be well-troweled with water to a smooth finish, free from cat faces and other blemishes or irregularities.

Vermiculite Trowel Finish:

Shall be applied over the base coat, scratched in thoroughly, laid on well, doubled back and filled out to a true, even surface. The general thickness shall be $\frac{1}{16}$ to $\frac{1}{8}$ in. The finish shall be allowed to draw a few minutes and then it shall be well-troweled with water to a smooth finish, free from cat faces and other blemishes or irregularities.

Prepared Gypsum Trowel Finish:

Shall be applied to a general thickness of $\frac{1}{16}$ to $\frac{1}{8}$ in. It shall be well-troweled with a minimum of water to a smooth finish, free from cat faces and other blemishes or irregularities.

B. Keene's Cement-Lime Putty Finish:

Shall be applied over the base coat, scratched in thoroughly, laid on well, and doubled back and filled out to a true, even surface. The general thickness shall be from $\frac{1}{16}$ to $\frac{1}{8}$ in. unless the finish coat is to be marked off or jointed, in which case the thickness may be increased as required by the depth of the marking or joint. The finish coat shall be allowed to draw a few minutes and then it shall be well-troweled with water to a smooth finish, free from cat faces and other blemishes or irregularities. Troweling shall be continued until the finish sets.

C. Float Finishes:

The following float finishes shall be applied over the base coat, scratched in thoroughly, laid on with a trowel to an even surface, and then floated (with wood, carpet, cork, rubber or other type floats, depending on the texture desired) to a true, even surface free from slick spots or other blemishes:

Prepared Gypsum—Sand-Float Finish.

Gypsum—Sand-Float Finish.

Keene's Cement-Lime Putty—Sand-Float Finish.

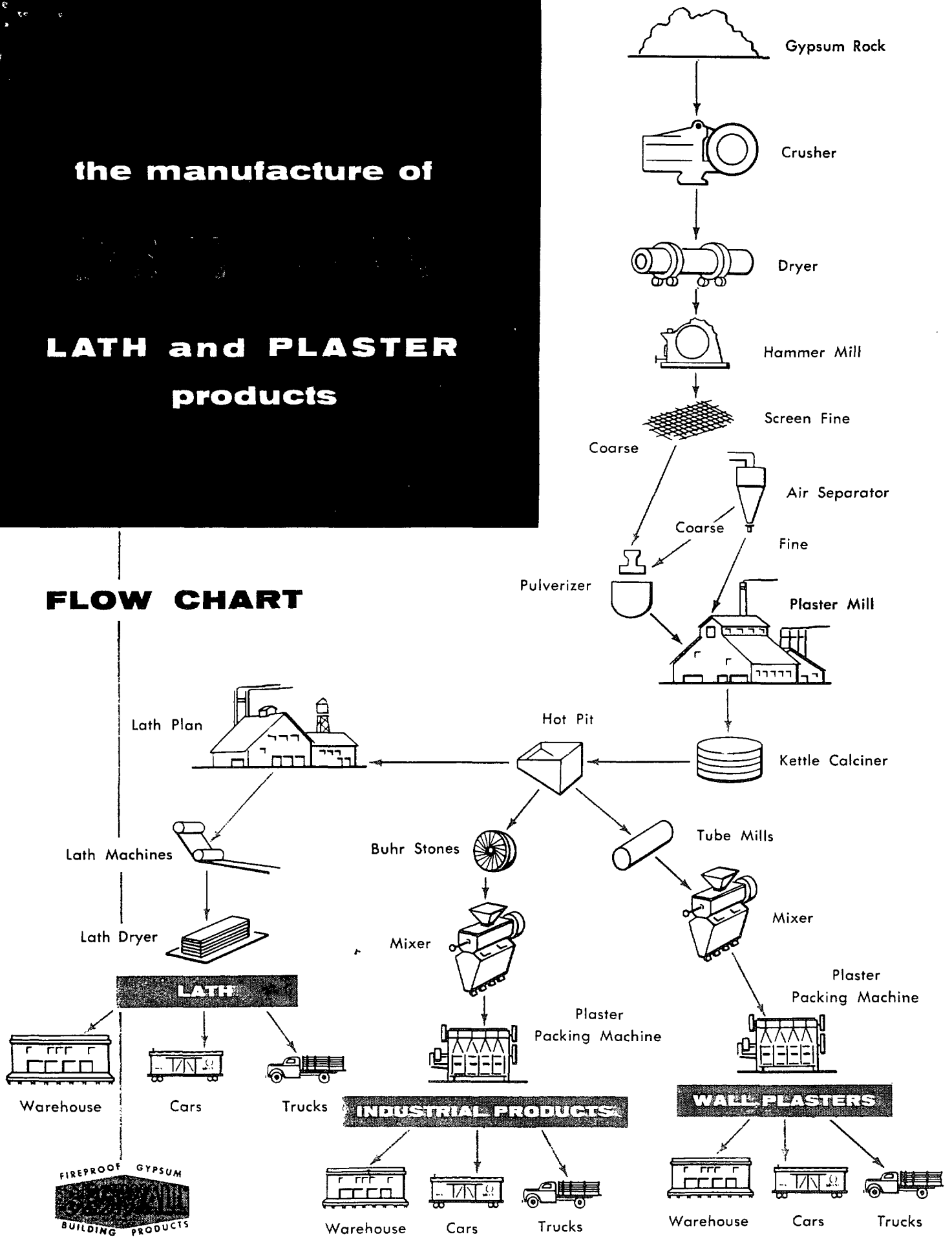
D. Acoustical Plaster and Other Special Plasters:

Shall be applied in accordance with the directions of the Manufacturer.

the manufacture of

LATH and PLASTER products

FLOW CHART



APPENDIX

product data

PLASTER	BRANDS	USE	COVERAGE (square yards per ton)	Plaster THICKNESS	LBS. PER BAG
base coat NEAT Unfibered	BESTWALL	Scratch coat on all backings except metal lath and monolithic concrete. Brown coat on all backings.	(sanded 2:1) Gypsum Lath: 190 - 220 Metal Lath: 100 - 130 Gypsum Tile: 210 - 240 Clay Tile: 165 - 200	½" ¾" ½" ¾"	100
Fibered (glass fiber or sisal fiber)	BESTWALL	Scratch coat on wood and metal lath. Brown coat on all backings.	same as above	same as above	100
Extra-Fibered (glass fiber or sisal fiber)	BESTWALL	Scratch coat on metal lath.	same as above	same as above	100
LIGHT-WEIGHT (pre-mixed) Fibered Unfibered Masonry Mix	BESTWALL Lite-Mix	Where lightness is desired, for faster, easier application.	Gypsum Lath: 135 - 150 Metal Lath: 75 - 90 Gypsum Tile: 135 - 150 Clay Tile: 110 - 125	½" ¾" ½" ¾"	80
WOOD FIBERED	BESTWALL	Without sand-scratch coat and brown coat on all backings except masonry. With sand-scratch coat on masonry and brown coat on all backings.	(without sand) Gypsum Lath: 100 - 120 Metal Lath: 50 - 65 Gypsum Tile: 85 - 100 Clay Tile: 65 - 85	½" ¾" ½" ¾"	100 50 10
CONCRETE BOND (pre-mixed)	BESTWALL	Double back coat on monolithic concrete, or as scratch coat only.	Monolithic Concrete: 90 - 120	⅛" - ¾"	100
finishing PREPARED TROWEL FINISH (pre-mixed)	BESTWALL	Where uniformity and extra hardness are desired. Can be decorated when dry—no waiting period. For use over gypsum basecoat only. White or gray color.	350 - 400	⅛" Maximum	100
PREPARED SAND FLOAT FINISH (pre-mixed)	BESTWALL	Same as prepared trowel finish except surface will be textured. White or gray color.	250 - 275	⅛" Maximum	100
WHITE GAUGING	BESTWALL Satin Spar	Mixed with lime for use over gypsum basecoat. Great workability; hard, smooth, white surface. Highest-grade rock.	1600	⅛" Maximum	100

COMMON GAUGING	BESTWALL	Mixed with lime for use over gypsum basecoat. Selected quality rock, light gray color. Gives hard, smooth surface. Available in quick set and slow set.	1600	1/8" Maximum	100
KEENE'S CEMENT	BESTWALL	Mixed with lime. Gives strong, dense surface with high resistance to abrasion and water. Two sets: regular and fast finish.	(4:1 Mix) 550	1/8" Maximum	100
MOLDING AND CASTING	BESTWALL Sunflower	Made from rock over 98% pure. Gives hard, strong molds and casts with low expansion. Mixed with water only for casts. Mixed with lime and water for molds.			100
ACOUSTICAL PLASTER	BESTWALL Kalite	Applied over gypsum basecoat with ordinary plastering tools. Noise reduction coefficient for 1/2" thickness is .55. Fireproof, permanent, washable. Buff and natural gray colors.	115 77	1/2" 3/4"	80
	BESTWALL Light Acoustical Plaster	Applied by plaster machine or hand troweling over gypsum basecoat, monolithic concrete or other surfaces which are firm, clean and free of efflorescence or water soluble substances. Sound coefficient .55 to .60. Natural white color.	350 to 400	1/2"	40
	BESTWALL Smooth Finishing Lime (Normal Hydrated) Builder's Lime (Autoclaved)	Mixed with gauging and molding plasters and Keene's cement to give workability, strength and bulk. Ohio Dolomite Lime furnished normal hydrated and autoclaved.	Up to 750	1/8" Maximum	50

LATH	EDGE	THICKNESS	WIDTH	LENGTH	WEIGHT LBS./1000 FT. ²	FRAMING WIDTH	NAILS LBS./1000 FT. ²	NAIL SIZE	NAIL SPACING	PACKING
BESTWALL LATH (Plain, Perforated, Insulating)	Rounded	3/8"		48"	1500	16" o.c.	6.8	13	5" o.c.	
BESTWALL Long-length Lath	Rounded or tongue and groove edge	1/2"		up to 12'	2000	24" o.c.	5.2	30/00	5" o.c.	Not Applicable

* 3/8" only 16-1/5" width on Pacific coast, packed 5 panels per bundle.



SGP 0003899

FIREPROOF GYPSUM

BUILDING PRODUCTS

Bestwall Gypsum Plaster

Bestwall Lite-Mix Plaster

Bestwall Satin Spar Gauging Plaster

Bestwall Sunflower Molding Plaster

Bestwall Common Gauging Plaster

Bestwall Kalite Acoustical Plaster

Bestwall Light Acoustical Plaster

Bestwall Keene's Cement

Bestwall Builder's Lime

Bestwall Smooth Finish Lime

Bestwall Speedy Lime

Bestwall Mason's Lime

Bestwall Metro-Mix

Bestwall Gypsum Form Board

Bestwall Gypsteel Plank

Bestwall Gypsum Lath

Bestwall Gypsum Sheathing

Bestwall Olsen Clips

and other gypsum products

BESTWALL *Gypsum Company*

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