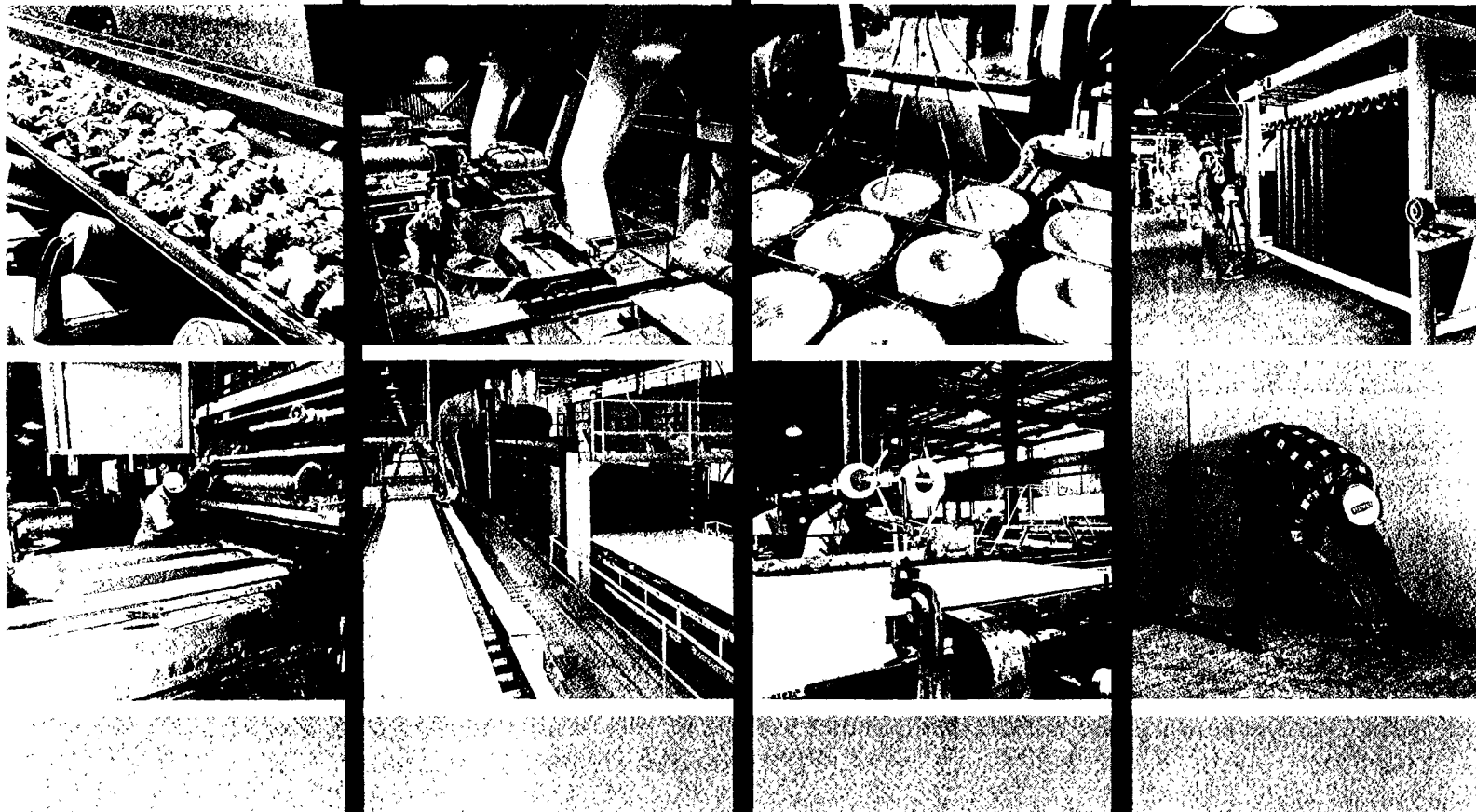


BESTWALL



GYPSUM WALLBOARD PRODUCTS

 **GEORGIA-PACIFIC** /  **GYPSUM DIVISION**

A.I.A. FILE NO. 23-1

SGP 0025213



THE ORIGINAL BESTWALL GLASS FIBER REINFORCED GYPSUM WALLBOARD

DESCRIPTION

Bestwall Gypsum Wallboard consists of a glass fiber reinforced core of gypsum rock enclosed between two layers of tough paper. The durable cream face paper is folded around the long edges to reinforce and protect the core. The ends are square cut and smooth finished. A strong gray paper is on the back side. The fiberglass content of Bestwall gypsum board products is an important and unique factor to consider in specifying drywall construction. Literally miles of glass fiber filaments of uniform strength and length are dispersed in the gypsum core to add greater resilience, strength and handling ease.

There is approximately 1 mile of glass fibers per sq. ft. in $\frac{1}{4}$ " Bestwall Gypsum Wallboard and over 12 miles of glass fibers per sq. ft. in $\frac{5}{8}$ " Bestwall Firestop.

ADVANTAGES

Fireproof—The solid core of gypsum wallboard is incombustible. Gypsum will not burn and will not transfer heat in excess of 212° F. until all its water of crystallization has been driven off in the form of steam.

Strength—Readily resists flexural stresses and will not crack or sag when applied to ceilings in the specified manner. Flexible enough to conform to moderately curved surfaces.

Joint Treatment—Bestwall Wallboard is finished with tapered edges to accommodate the Bestwall Joint Systems or square edges for exposed joints.

Fast Decoration—Gypsum Wallboard, a "dry" material, allows painting or other decoration shortly after application of Joint Treatment.

Economy—Large, lightweight panels go up fast. They may be "scored and snapped" or sawed to size.

Drywall—Plant fabricated gypsum wallboard eliminates extreme moisture in wall construction.

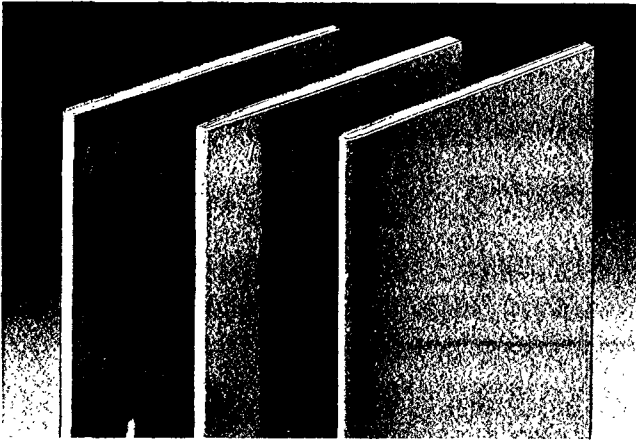
LIMITATIONS OF USE:

1. Gypsum Wallboard shall not be used where it will be exposed to water or excessive moisture. Bestwall Gypsum Tile Backer Board shall be used in any high moisture area.

2. $\frac{1}{4}$ " Bestwall Gypsum Wallboard should be applied only to existing surfaces or used in temporary or display work. Surfaces should be sound. When necessary, furring strips should not be spaced over 16" o.c. $\frac{3}{8}$ " Bestwall Gypsum Wallboard should not be applied to nailing members spaced over 16" o.c. Horizontal application must be used on ceilings. $\frac{1}{2}$ " or $\frac{5}{8}$ " Bestwall Gypsum Wallboard should not be used on nailing members over 24" o.c. When applied to ceilings with the nailing members exceeding 16" o.c. the wallboard must be applied with the paper bound edges at right angles to nailing member.

3. All furring used in application of gypsum wallboard shall have a minimum cross section of 2" x 2" (nominal), with space limitations as above.

REGULAR GYPSUM WALLBOARD



SIZES

LENGTH	WIDTH	THICKNESSES	EDGES
6' to 16' (in even feet)	4'	1/4", 3/8" 1/2", 5/8"	Tapered, Square, Beveled (special order only)

DESCRIPTION

Bestwall Regular Gypsum Wallboard is manufactured with Tapered or Square Edges and faced with a strong, cream-colored paper which will take any type of decorative treatment. 1/2" and 5/8" wallboard with Tapered Edges are recommended for single layer application in new construction. Tapered Edges are designed to be reinforced by the Bestwall Joint Systems for smooth, seamless surfaces.

Square Edges are recommended for use where exposed joints are acceptable. Increased resistance to fire exposure and sound transmission depend upon greater board thickness used (see Technical Data Chart, p. 8 and 9).

Wood stud load-bearing partitions faced on both sides with 1/2" Bestwall Gypsum Wallboard have a fire endurance of 40 minutes, as tested in accordance with E-119 Standard Method of Fire Tests of Building Construction and Materials specified by the American Society for Testing Materials. When faced with 3/8" Bestwall, the fire endurance is 25 minutes.

3/8" Gypsum Wallboard is used primarily in repair and remodeling work. Light weight permits easy handling and application. It is also recommended for use in double-layer laminated gypsum wallboard construction.

1/4" Gypsum Wallboard is a lightweight economical gypsum product for application directly over existing walls and ceilings and for use on curved surfaces and in display work.

Bestwall Gypsum Backer, designed for field lamination of gypsum wallboard, acoustical tile and other compatible materials with adhesives, provides low cost, level surfaces for further decorative treatments. It may be applied over load bearing or non-load bearing wood or metal framing with nails or clips.

INSULATING GYPSUM WALLBOARD (FOIL BACKED)



SIZES

LENGTH	WIDTH	THICKNESSES	EDGES
6' to 16' (in even feet)	4'	3/8" 1/2" 5/8"	Tapered, Square

DESCRIPTION

Bestwall Insulating Gypsum Wallboard is regular gypsum wall board with bright aluminum foil laminated to the back surface. In a single application it provides the advantages of regular gypsum wallboard, plus an effective vapor barrier and insulating qualities. It is manufactured with Tapered or Square edges.

ADVANTAGES

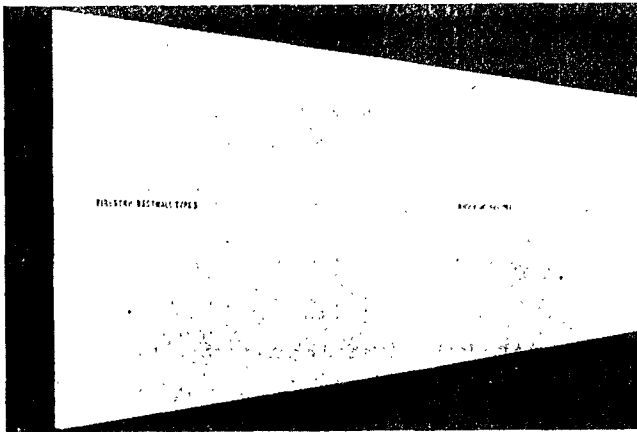
Insulation—Panels must be installed with foil side against the studs. To have reflective insulation value, FHA requires the foil to face a minimum air space of 3/4". The aluminum foil, according to U. S. Bureau of Standards Tests, reflects 90% of radiant heat. It provides insulation approximately equal to 1/2" fiberboard.

Vapor Barrier—Bestwall Insulating Gypsum Wallboard provides an efficient vapor barrier. The aluminum foil stops vapor from entering the exterior wall construction, thereby reducing condensation in stud spaces.

Economical—Large, lightweight panels handle easily and can be scored and snapped to desired size.

Glass Fiber Reinforced—Miles of glass fibers are dispersed in the gypsum core to provide added resilience, strength and handling ease.

NEW IMPROVED BESTWALL FIRESTOP



SIZES

LENGTH	WIDTH	THICKNESS	EDGES
6' to 16' (in even feet)	4'	$\frac{1}{2}$ " $\frac{5}{8}$ "	Tapered, Square or Tongue-and- Groove

DESCRIPTION

New Improved Bestwall Firestop, combining all the advantages of the original gypsum wallboard in the original Type "x" gypsum wallboard, has substantially greater glass fiber reinforcement than ever before for increased fire protection, strength and better nailing qualities. The original Type "x" gypsum wallboard provided a full 1 hour fire retardant rating in single layer application over incombustible and combustible framed walls and partitions and floor and ceiling assemblies. Now through greater glass fiber reinforcement, its fire resistance has been increased to permit two hours when used in a single layer treatment as the ceiling below an incombustible floor and ceiling assembly.

ADVANTAGES

Economical—Large, lightweight panels handle easily and can be scored and snapped to desired size.

Low Cost—New Improved Bestwall Firestop is one of the lowest cost fireproofing materials available today.

Crack-Resistance—Resists cracks due to framing movements, vibrations and settling. Unaffected by humidity or extremes in temperatures.

Strength—Resists crosswise stresses. $\frac{5}{8}$ " Firestop has flexural strength of 240 to 290 lbs. as compared to ASTM minimum requirements of 145 lbs. for $\frac{5}{8}$ " regular gypsum wallboard and a Federal Specifications minimum requirement of 105 lbs. for $\frac{1}{2}$ " regular gypsum wallboard.

MEETS BUILDING CODE REQUIREMENTS

Bestwall Firestop in various assemblies meets Building Code requirements from 45 minutes to 3 hours for interior wall and ceiling construction in buildings of all types from highly incombustible to wood frame; and for various occupancies of residential, public and commercial character.

SOUND TRANSMISSION RATINGS

Official Sound Transmission Tests of various assemblies make possible partitions with Sound Transmission Class (STC) of 34 to 58. $\frac{5}{8}$ " Bestwall Firestop over $\frac{1}{2}$ " Bestwall Sound Deadening Board each side of wood studs 16" on center has been proven in a full scale fire test to have a 1 hour fire resistance. This same construction has an STC of 45.

FIRE RESISTANCE

Bestwall Firestop is recommended where extra fire resistance is required in residential, commercial and public buildings. $\frac{5}{8}$ " thickness for years has provided one-hour fire resistance in single layer application on both walls and ceilings over wood or steel, while $\frac{1}{2}$ " thickness has provided 45 minutes fire rating in single layer application when applied over wood framing, for both walls and ceilings.

See the tabulation on pages 8-9 for greater fire resistance in single layer application for both $\frac{1}{2}$ " and $\frac{5}{8}$ " thick Bestwall Firestop.

The extra fire protection offered by Bestwall Firestop is built right into the core through the use of specific amounts of incombustible glass fibers and unexpanded vermiculite.

$\frac{1}{2}$ " and $\frac{5}{8}$ " Bestwall Firestop qualify for Building Code acceptance in the constructions as shown in the table on pages 8-9. Bestwall Firestop is listed by Underwriters and carries the UL Label for 45 minutes, 1, 2 and 3 hour Fire Resistance in various Designs and for Fire Hazard Classification of 10-15.

LABEL SERVICE SYMBOL FOR $\frac{5}{8}$ " BESTWALL FIRESTOP

FIRE HAZARD CLASSIFICATION	
Flame Spread	10-15
Fuel Contributed	5-15
Smoke Developed	0.45



FLOOR AND CEILING	
Design No.	69—2 hr.
Design No.	217—2 hr.
Design No.	13—1½ hr.
Design No.	2—1 hr.
Design No.	1—1 hr.

FIRE RESISTANCE CLASSIFICATION

COLUMN PROTECTION	
Design No.	18—3 hr.
Design No.	8—2 hr.

WALLS AND PARTITIONS	
Design No.	5—3 hr.
Design No.	7—2 hr.
Design No.	5—1 hr.
Design No.	10—1 hr.

The Label Service symbol of Underwriters' Laboratories, Inc., which appears on the twin mounting tape, binding each bundle of two pieces is the method provided by Underwriters' Laboratories, Inc., to identify gypsum wallboard which has been produced under the Label Service. And especially important to architects and building inspectors, the front of each sheet is marked with " $\frac{5}{8}$ " Bestwall Firestop Type X" so that it's easy to identify when in place.

SGP 0025216

5/8" FIRESTOP GYPSUM BACKER

SIZES

LENGTH	WIDTH	THICKNESS	EDGES
8'	2'	5/8"	Tongue-and-Groove
6' to 16'	4'	5/8"	Square

DESCRIPTION

Bestwall 5/8" Firestop Gypsum Backer, with greater glass fiber reinforcement than ever before, is used as a backing for decorative surface treatments of acoustical plasters, tile, plywood and various veneers. A single layer application of 5/8" Bestwall Firestop Gypsum Backer on both sides of wood or steel framing, enables load bearing or non-load bearing wall, floor and ceiling assemblies to resist temperatures rising to 1700°F in a standard time temperature curve for one hour.

Firestop Gypsum Backer consists of a gypsum core with unexpanded vermiculite, reinforced with literally miles of high tensile strength glass fibers, firmly bonded to a fibrous grey paper on both sides. The vermiculite balances gypsum shrinkage by expanding when exposed to heat, while the textile glass filaments keep the core intact even after its chemically combined water has been released. Official tests by Underwriters' Laboratories have proven the fire resistance of wall and floor and ceiling assemblies do not need the joints treated and finished for the fire resistance ratings shown in the chart on page 8-9.

COLUMN FIREPROOFING

DESCRIPTION

Fireproofing with Bestwall Firestop Gypsum Wallboard provides a fast, efficient and economical method of protecting steel columns. Fire resistant assemblies of two and three hours are obtainable depending upon the number of layers of 5/8" Bestwall Firestop used. These layers are held in place by a combination of screws and metal studs. Both the two and three hour fire rated assemblies of Firestop have passed Official Fire Tests conducted by the Underwriters' Laboratories.

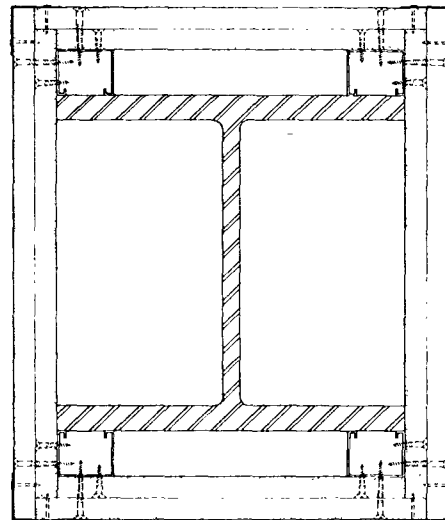
ADVANTAGES

Fire Resistance—3 hour fire resistive protection for steel columns can be obtained with three layers of 5/8" Bestwall Firestop and 2 hour fire resistive protection can be obtained with two layers of 5/8" Firestop. Where necessary 1 hour of fire protection can be obtained with two layers of 1/2" Bestwall Gypsum Wallboard and 1 1/2 hour protection with 3 layers of Bestwall Gypsum Wallboard.

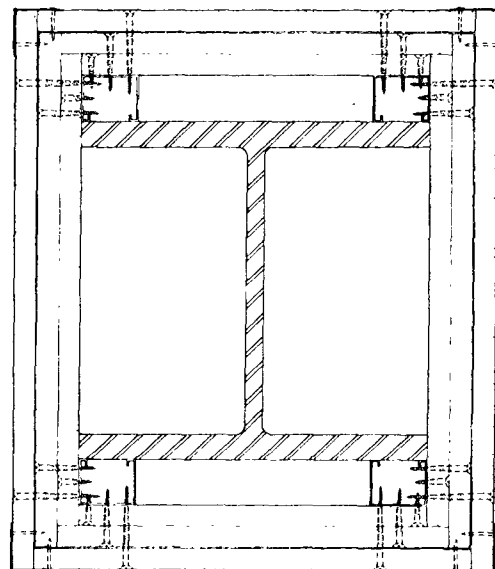
Economy—Low material cost, speed of erection and minimum number of materials provides lower construction costs.

Lighter—As compared to other types of fireproofing, a dead load saving of from 50 to 75% can be realized with Bestwall Firestop Column Fireproofing.

Speed of Erection—Bestwall Firestop Gypsum Wallboard can be installed quickly and easily when used for column fireproofing following Bestwall details. Minimum amount of the wire and adhesives are used.



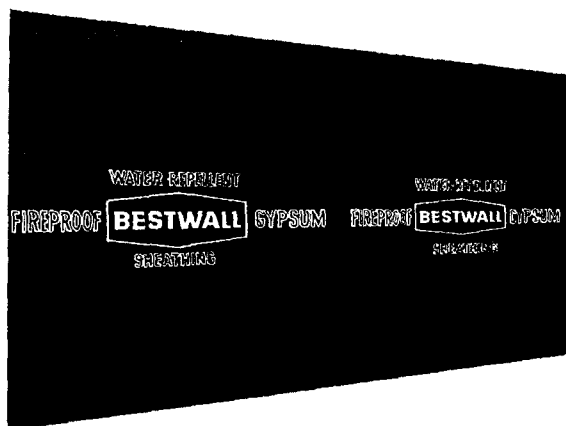
TWO-HOUR fire rated steel column assembly with 5/8" Bestwall Firestop.



THREE-HOUR fire rated steel column assembly with 5/8" Bestwall Firestop.

NOTE: For information on Georgia-Pacific Fire Retardant Panels, refer to Section 5b/Gen, Architectural File, 2b/Gen, Light Const. File, 1c/Gen, Paint Engineering File or 5a/Gen, Industrial Construction File.

GYPSUM SHEATHING



SIZES

LENGTH	WIDTH	THICKNESSES	EDGES
8'	2'	1/2"	V edge
8', 9'	4'	1/2"	Tongue-and-Groove
			Square

DESCRIPTION

Bestwall Gypsum Sheathing is the only gypsum sheathing reinforced with glass fibers. The "asphalted" reinforced gypsum core is protected by highly water repellent paper, eliminating need for an underlayer of treated building paper (except where required by local building codes).

The 2' wide sheathing is manufactured with precision formed tongue-and-groove edges to provide a structurally strong and stable wall. V-tongue-and-groove edges fit snugly minimizing wind infiltration.

The 4' wide square-edge sheathing, applied vertically, completely eliminates the need for corner bracing. It is designed to meet FHA Technical Circular 12 requirements. Racking Tests were made in conformance with ASTM E72.

ADVANTAGES

Fireproof—Exterior wood stud wall is rated for one full hour fire-resistance from both sides in combination with 5/8" Bestwall Firestop or other 1-hour interior construction applied over studs and any exterior finish (wood siding, stucco, brick, veneer, etc.) over 1/2" gypsum sheathing.

Glass Fiber Reinforced—This exclusive development assures greater flexibility and resistance to shock and setting, better nailing qualities and strength.

Water Repellent—The gypsum core contains an emulsion to provide high resistance to water absorption. Meets ASTM 79-54 including the water resistance test.

Economical—Large panels cover large areas quickly and with little waste. Building paper is not required (except where demanded by local building codes). New 4' sheathing eliminates corner bracing, thus keeping labor and material costs to a minimum.

NOTE: For other Georgia-Pacific Sheathing material and Plywood interior or exterior panels, see Section 8d/Ge. Architectural File or 3d/Ge. Light Const. File and 5b/Ge. Architectural File or 2b/Ge. Light Const. File

TILE BACKER BOARD



SIZES

LENGTH	WIDTH	THICKNESS	EDGE
8', 11', 12'	4'	1/2"	Tapered

DESCRIPTION

Bestwall Tile Backer Board is a water-resistant gypsum product with a light blue face paper, designed for use as a base for the adhesive application of ceramic, metal or plastic tile. The gypsum core consists of incombustible gypsum rock, reinforced with glass fibers, combined with an emulsion giving high water resistance. This new Bestwall product is ideal for bathrooms, kitchens, powder rooms, and all high moisture areas.

Bestwall Tile Backer Board can be erected as easily as wallboard and requires no finishing of joints or nail heads with joint treatment nor further waterproofing under tile applied adhesively. Tile Backer Board is sealed at cut edges with a special 2" wide self-adhering vinyl tape. Approximately one roll per msf. wallboard. Also used over any joints under tile.

ADVANTAGES

Water Resistant—Core is specially treated with a water resisting emulsion and the paper is treated in manufacturing to make Bestwall Tile Backer Board more water resistant.

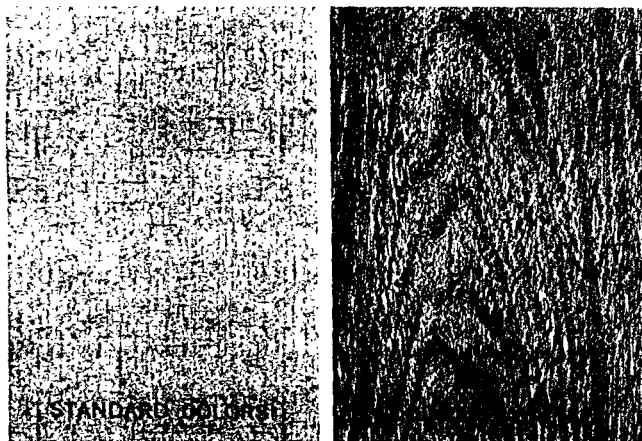
Economical—Taping joints and cut edges with vinyl pressure-sensitive tape can save time and money.

Ease of Application—Bestwall Tile Backer Board can be applied like regular gypsum wallboard. Cut edges can be sealed easily with vinyl tape and no waterproofing primer is necessary before applying the tile.

Glass Fiber Reinforced—Miles of glass fiber filaments of uniform strength and length are dispersed in the gypsum core to provide greater shock resistance and greater compressive strength.

Convenience Outside Tile Area—For areas not covered by tile, joints and nail heads may be treated as those in regular wallboard and the surface primed and painted with adjacent areas of regular wallboard.

ETERNAWALL



SIZES

LENGTH	WIDTH	THICKNESSES	EDGES
8', 10' (other lengths on order)	4'	$\frac{1}{2}$ " ($\frac{3}{8}$ ", $\frac{5}{8}$ " on order)	Beveled

DESCRIPTION

Bestwall Eternawall combines all the advantages of regular gypsum wallboard with the beauty and durability of vinyl. The fireproof gypsum core of the panels are reinforced with glass fibers for extra strength. The deep linen-textured vinyl surface provides permanent scuff, crack and chip-resistance. Eternawall Panels are available in 5 standard colors: Sand, Shadow Gray, Snowdrift White, Seafoam Blue and Spring Green. Also available in the Standard Line of Eternawall is Woodmere Walnut, a striking new pattern that gives a rich true-wood appearance.

The Decorator Line of Eternawall is available in over 200 trend setting colors and patterns that offer unlimited design possibilities.

Both the standard colors and the Decorator Line provide bright, attractive interiors or accent walls in homes as well as commercial and institutional structures . . . whenever beautiful, easy-to-clean walls are desired.

ADVANTAGES

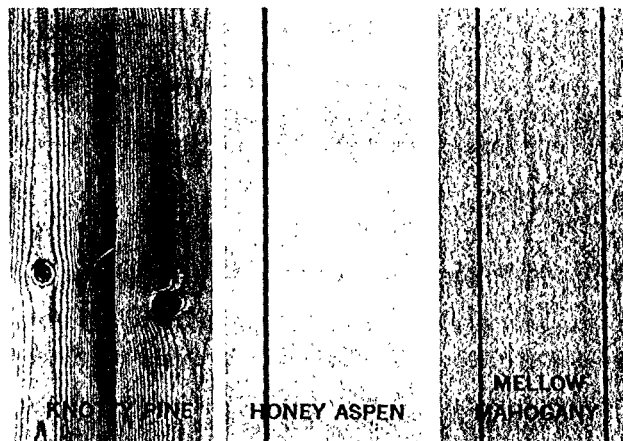
Fade-Resistant Colors—Eternawall colors are permanently fade resistant. Inexpensive to maintain, the color, texture or design will not be impaired when cleaned.

Easy Maintenance—An occasional wipe with a damp cloth keeps the vinyl surface clean and new looking. No special treatment is needed. The surface may be repainted, if desired, to accommodate subsequent changes in decor.

Easy to Install—Large panels handle with the ease of regular gypsum wallboard. Vinyl surface is easily scored and the board snapped to size. Nails of matching colors blend with the paneling.

Reinforced with Glass Fibers—Miles of glass fibers reinforce the gypsum core for added impact strength and resilience.

TRU-GRAIN



SIZES

LENGTH	WIDTH	THICKNESSES	EDGES
8', 9', 10'	4'	$\frac{3}{8}$ " ($\frac{1}{2}$ " on order)	Square

DESCRIPTION

Bestwall Tru-Grain Gypsum Paneling is regular gypsum wallboard pre-finished with beautiful photographic reproductions of selected wood panels. These reproductions are printed on a special paper and cemented to the face of the gypsum wallboard.

The Bestwall Tru-Grain Line is available in three low-cost woodgrain patterns, Knotty Pine, Honey Aspen and Mellow Mahogany. The random plank design of Tru-Grain gives a handsome true-wood look and makes joints easier to conceal. All are finished with a durable transparent coating.

Bestwall Tru-Grain Gypsum Paneling combines the beauty of wood panels with the cutting and handling ease, the incombustibility and economy of gypsum wallboard. It can be scored with a knife and snapped off to the desired size or can be sawed. Ideal for new construction as well as remodeling, it lends warmth and color to homes, offices, motels, restaurants and other commercial and institutional buildings.

ADVANTAGES

Three Finishes—Three striking true-wood reproductions are available: Knotty Pine, Honey Aspen and Mellow Mahogany.

Strength—Miles of glass fibers dispersed in the fireproof gypsum core assure added strength and resilience.

Easy to Apply—Large panels go up fast with no heavy handling. Tru-Grain is available in easy-to-apply 4' x 8' panels. Can be quickly nailed in place with matching color-headed nails.

Low Maintenance—Tru-Grain is easy to clean. Just an occasional wipe with a damp cloth will keep panels fresh and sparkling.

Fire Resistance—The core of Tru-Grain is fireproof gypsum, a mineral that will not burn.

NOTE: For Georgia-Pacific Decorative Hardwood Plywood Paneling, Woodgrained Hardboard, GPX[®] Overlaid Medium Density Plywood and Vinyl Overlay on Flakeboard, see Sec 56/Geo. Architectural File, Section 26/Geo. Light Const. File and Section 4a/Geo. Product Design File, Section 1c/Geo. Paint Engineering File and Section 5a/Geo. Industrial Const. File

TECHNICAL DATA • GYPSUM WALLBOARD CONSTRUCTION

CONSTRUCTION	THICK- NESS	WEIGHT LB./SQ. FT.	WALL SURFACE	SOUND TRANSMISSION CHARACTERISTICS										SOUND TRANS. CHAR.		FIRE RESISTANCE		MODEL BUILDING CODE APPROVALS	
				INDIVIDUAL FREQUENCIES—CPS										STC 1	SPEECH FREQ. AVE. 2	RATING 3	TEST REF. 4		
				125	175	250	350	500	700	1000	1400	2000	2800	4000					
PARTITIONS: 2" x 4" Wood Studs; 16" O.C. Load bearing except when noted "N".	4 3/8"	5.2	3/4" Bestwall. Both sides	22	23	28	32	33	41	44	46	—	—	—	—	25 Min	—	A B C	
	4 1/2"	5.9	1/2" Bestwall. Both sides	—	—	—	—	—	—	—	—	—	—	—	—	40 Min	—	A B C	
	4 3/4"	6.0	1/2" Bestwall. Both sides, with Mineral Wool in stud space	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr.	BMS-92	A B C	
	5 1/2"	—	1/2" Bestwall Firestop. 2 layers both sides	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr.	UL #6	—	
	4 3/8"	5.2	3/4" Bestwall Firestop. Both sides	—	—	—	—	—	—	—	—	—	—	—	—	30 Min	—	B C	
	4 1/2"	5.9	1/2" Bestwall Firestop. Both sides	—	—	—	—	—	—	—	—	—	—	—	—	45 Min	—	—	
	4 3/4"	6.0	1/2" Bestwall Firestop. Both sides with Mineral Wool in stud space	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr.	UL #1	—	
	4 3/8"	7.0	3/4" Bestwall Firestop. Both sides	22	16	29	31	33	38	41	41.5	36	36.5	45	34	32	38	OR 64-8	—
	5 1/2"	9.5	1/2" Bestwall Firestop. 1 layer one side, 2 layers other side	23.5	19.5	33	34.5	36	40	43	45	40	40	47	37	35	41	OR 64-11	A B C
	5 3/4"	12.0	1/2" Bestwall Firestop. 1 layer one side, 2 layers other side	26.5	22	36	37	42	43.5	48	49.5	45	44.5	51	41	39	46	OR 64-12	A B C
(N)	5 1/2"	8.5	3/4" Bestwall Firestop. Board both sides	25	30	38	43	47	52	57	58	55	54	59	46	45	54	OR 64-73	—
	5 3/4"	13.4	1/2" Bestwall Firestop. 2 layers each side staggered studs	41	41	41	43	46	48	49	—	41	—	54	—	—	—	BS-244	—
	5 1/2"	6.3	3/4" Bestwall Firestop. 1 layer nailed one side, 1 layer on resilient furring other side	29.5	28	33	41	45	48.5	52	52.5	44	41	51	44	41	48	OR 64-7	—
	5 3/4"	6.4	1/2" Bestwall Firestop. 1 layer nailed one side, 1 layer on resilient furring other side plus fiber glass insulation in stud space	33.5	35	43	50.5	51	54	55	55	54	47.5	53	50	48	53	OR 64-16	—
	6"	8.8	3/4" Bestwall Firestop. 2 layers one side, 1 layer on resilient furring other side	32.5	32	38	44.5	49	52.5	55	56.5	49	45	54	48	45	51	OR 64-15	—
	5 3/8"	8.2	3/4" Bestwall. 2 layers both sides	27	24	31	35	40	42	46	—	53	—	48	—	38	—	BS-225	A
	5 1/2"	9.9	1/2" Bestwall. 2 layers both sides	—	—	—	—	—	—	—	—	—	—	—	—	39	—	—	A
	5 3/4"	11.0	1/2" Bestwall. 2 layers both sides, staggered studs	42	40	39	40	45	42	45	—	41	—	53	—	43	—	BS-235	—
	4 3/8"	6.5	3/4" Bestwall Firestop. 1 layer each side	—	—	—	—	—	—	—	—	—	—	—	42	38	—	UL #2	A B C
	4 1/2"	6.5	1/2" Bestwall Firestop. 1 layer each side	—	—	—	—	—	—	—	—	—	—	—	47	44	—	T-209	B C
Available Steel Stud: Non Load Bearing: 3 3/8" 24" O.C. Load Bearing: 3 1/2" 24" O.C.	5"	10.4	3/4" Bestwall Firestop. 2 layers each side	25	29	35	35	40	41	44	43	33	36	44	—	—	—	—	—
	2 1/2"	5.2	1/2" Bestwall Firestop. 1 layer each side	20.5	26	31	37	41.5	46	50	50.5	42	40	48	42	36	45	TL-52-72	T-2316
	4 3/8"	6.0	3/4" Bestwall Firestop. 1 layer each side	—	—	—	—	—	—	—	—	—	—	—	—	—	—	T-2016	A B C
	3 1/2"	—	1/2" Bestwall Firestop. 1 layer each side, face layer Eternal-wall (mov. part)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5 1/2"	8.0	3/4" Bestwall Firestop. 1 layer one side, 2 layers other side	24	25	33	40	46	49	52	51	44	45	50	35	33	41	OR 64-65	T-2899
	5 3/8"	8.0	3/4" Bestwall Firestop. 1 layer one side, 2 layers other side, 3" fiber glass insulation in stud space	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	6 1/4"	10.4	3/4" Bestwall Firestop. 2 layers each side, face layer Eternal-wall	31	37	45	49	52	55	57	55	50	48	51	50	47	53	OR 64-51	T-3125
	3 3/8"	—	1/2" Bestwall Firestop. 1 layer one side, 1 1/2" fiber glass insulation in stud space	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	T-2406
	8 1/4"	8.4	1" core board other side	30	38	43	49	51	54	55	54	51	50	53	52	47	52	OR 64-61	—
	6 1/2"	11.0	3/4" Bestwall Firestop. 2 layers each side	28	29	36	44	48	52	55	53	47	51	55	47	44	51	OR 64-52	EST G A
Steel Faced Wall Non Load Bearing: Steel Faced Wall (Smith & Co.) Steel Faced Wall (Walton Corp.) Aluminum & Steel Unit Part (R.C. Mahon Co.) (R.C. Mahon Co.) (R.C. Mahon Co.) (R.C. Mahon Co.) Load Bearing: Steel Faced Wall (H.H. Robertson Co.)	6"	8.8	3/4" Bestwall Firestop. 2 layers one side, 1 layer over 1/2" fiber glass board other side	25	33	41	47	52	54	56	55	50	51	55	48	46	53	OR 64-34	—
	6 1/8"	11.1	3/4" Bestwall Firestop. 2 layers each side, fiber glass insulation in stud space	36	41	49	51	53	55	56	55	50	52	55	52	50	54	OR 64-50	—
	4 1/2"	8.0	1/2" Bestwall Firestop. 2 layers each side (for sound add 2" Fiber glass insulation in stud space)	—	—	—	—	—	—	—	—	—	—	—	47	48	54	BW-12 FL	—
	—	—	1/2" Bestwall Firestop. 4 layers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1/2" Bestwall Firestop. 4 layers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1/2" Bestwall Firestop. 5 layers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1/2" Bestwall Firestop. 4 layers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1/2" Bestwall Firestop. 2 layers each side	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1/2" Bestwall Firestop. 2 layers each side	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1/2" Bestwall Firestop. 2 layers each side	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Semi-Solid: Gypsum Stud Non Load Bearing	2 1/4"	7.2	3/4" Bestwall Firestop. 1 layer each side	21	17	27	34	36	40	39	43	36	36	39	35	32	37	BW-8 FT	UL #10
	4 3/4"	7.9	3/4" Bestwall Firestop. 1 layer each side, 2" Sound Deadening Board each side of 2 1/2" x 3" Gypsum Rn 24" O.C.	28	36	43	46	50	54	58	59	58	57	59	51	48	56	OR 64-57	T-3128
	2 1/4"	7.8	3/4" Bestwall Firestop. 2 layers each side of 1/4" x 6" Rb	23	23	31	36	36	38	39	39	36	36	41	37	34	37	TL-60-131	T-1275
	—	—	3/4" Bestwall. 2 layers each side of 1/4" x 6" Rb	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Solid Gypsum Board	2"	81	1/2" Bestwall each side, 1" Core Board	29 5	31	34 5	37	38	36 5	35	—	—	—	—	37	2 Hr	GA	—
	2"	81	1/2" Bestwall Firestop each side of 1" Core Board (Homo or Lam)	32	34	37 5	39 5	39 5	38 5	—	—	—	—	40	37	2 Hr	—	—
	2 1/4"	91	3/4" Bestwall Firestop each side, 1" Core Board	—	—	—	—	—	—	—	—	—	—	—	35	2 Hr	EST	—
	4"	13 4	1/2" Bestwall Firestop, 2 layers each side 1" Rib	29 5	31	34 5	37	38	36 5	35	—	—	—	—	37	2 Hr	UL #7	ABC
Double Solid Gypsum Board	5"	13 4	3/4" Bestwall Firestop, 2 layers each side 1" Rib	32	34	37 5	39 5	39 5	38 5	—	—	—	—	40	37	2 Hr	UL #5	ABC
	5"	13 5	3/4" Bestwall over 1/2" Bestwall Firestop, each side 1" Rib	—	—	—	—	—	—	—	—	—	—	—	—	1 1/2 Hr	UL	—
	5"	13	1/2" Bestwall over 1" Core Board, each side of 3" air space	31	35	41	47	49	49	47	51	56	60	47	46	2 Hr	T-2575	ABC
	5"	17	1/2" Bestwall, 1 layer over 1" Core Board centered in air space	29	34	40	45	47	50	54	55	59	60	51	46	3 Hr	EST	—
EXTERIOR WALLS: S.E. GLVN Panels	6"	17 2	1/2" Bestwall, 1 layer over 1" Core Board centered in air space and fiber glass insulation in space on 1 side	36	45	49	53	55	56	58	60	62	63	58	53	3 Hr	EST	—
	5"	—	3/4" Bestwall Firestop, 1 layer each side of 1 1/4" x 6" Gypsum Rib with exterior Stran-Wall (S E panel)	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	T-3039	—
	5"	—	(interior) 3/4" Bestwall Firestop	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	GA	—
	5"	—	(exterior) 1/2" Gypsum Sheathing and wood siding or other (interior) 3/4" Bestwall Firestop, 2 layers (exterior) 1/2" Gypsum Sheathing 2' x 4', T & G and 4" Brick wall	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	T-99 BMS 191-192	—
FLOOR & CEILING: Wood Joists 16" O.C. Finished floor on rough subfloor	Ceiling	11 4	3/4" Bestwall, 1 layer	—	—	—	—	—	—	—	—	—	—	—	—	2 Hr	UL #23	—
		11 4	1/2" Bestwall, 1 layer	—	—	—	—	—	—	—	—	—	—	—	—	15 Min	UL #1	ABC
		12 0	1/2" Bestwall Firestop, 1 layer	—	—	—	—	—	—	—	—	—	—	—	—	25 Min	UL #1	ABC
		13 0	1/2" Bestwall Firestop, 1 layer nailed	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	UL #46	ABC
NOTE: 2" x 4"-16" O C	Ceiling	16 0	2 layers of 3/4" Firestop with resilient furring channel 24" O.C. between layers	—	—	—	—	—	—	—	—	—	—	50	2 Hr	UL #217	—	
		13 0	1/2" Bestwall Firestop applied to resilient metal furring 24" O C	34	35	37	44	48	45	49	49	51	50	47	44	1 Hr	UL #33	—
		—	3/4" Bestwall, 2 layers	—	—	—	—	—	—	—	—	—	—	—	—	30 Min	—	—
		—	1/2" Bestwall, 2 layers	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	—	—
Steel Bar Joists 24" O.C.	Ceiling	—	3/4" Bestwall Firestop - 120" ceiling tile metal grid 24" O C	—	—	—	—	—	—	—	—	—	—	—	2 Hr	T-2104	—	
		34 2	1/2" Bestwall Firestop nailed or screwed to metal furring 16" O.C.	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	UL #7	ABC
		34 2	3/4" Bestwall Firestop Backer, nailed or screwed to metal furring 16" O.C.	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	UL #7	ABC
		32 0	3/4" Bestwall Firestop 1 layer, metal furring 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	UL #19	ABC
2" Concrete Floor on Metal lath centering	Ceiling	33 9	1/2" Bestwall Firestop, metal furring 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	1 1/2 Hr	UL #17	—	
		34 1	3/4" Bestwall Firestop, metal furring 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	1 1/2 Hr	UL #13	—	
		38 0	3/4" Firestop - 120" ceiling tile metal grid 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	—	2 Hr	UL #208	—
		38 5	1/2" Bestwall Firestop, metal furring 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	—	2 Hr	UL #237	—
With 2 1/2" Concrete Floor	Ceiling	39 3	3/4" Bestwall Firestop, metal furring 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	2 Hr	UL #59	—	
		38 0	3/4" Bestwall - Firestop - 120" ceiling tile metal grid 24" O.C.	—	—	—	—	—	—	—	—	—	—	—	—	2 Hr	UL #208	—
		—	1/2" Bestwall, 2 layers	—	—	—	—	—	—	—	—	—	—	—	—	1 Hr	GA	—
		—	1/2" Bestwall, 3 layers	—	—	—	—	—	—	—	—	—	—	—	—	1 1/2 Hr	GA	—
STEEL COLUMN Fire Proofing	Ceiling	—	3/4" Bestwall Firestop, 1 layer	—	—	—	—	—	—	—	—	—	—	—	1 Hr	UL #8	A	
		—	3/4" Bestwall Firestop, 2 layers	—	—	—	—	—	—	—	—	—	—	—	2 Hr	UL #18	A	
		—	3/4" Bestwall Firestop, 3 layers	—	—	—	—	—	—	—	—	—	—	—	3 Hr	UL #18	A	
		—	3/4" Bestwall Firestop, 4 layers	—	—	—	—	—	—	—	—	—	—	—	4 Hr	UL #18	A	

* For all 45 min. and 1 hour ratings 3/4" plywood (underlayment grade, T&E) over building paper, over 1/2" structural interior plywood (with exterior glue grade-CD) may be used over the wood joists with other ceilings as detailed.

The wallboard systems covered above have been developed with due regard to practical construction methods. However, since the Bestwall Gypsum Division does not have any prior knowledge of a specific building design and construction methods of application and use of their products, no warranty of performance is made. All of the test results have been obtained under laboratory conditions where controlled environments reduces variables to a minimum. In the field, such laboratory conditions are not always met, since many variables are introduced. Laboratory results will generally exceed results of field tests, but the tests under controlled conditions are the only logical way to compare the performance of different assemblies. The Bestwall Gypsum Division of the Georgia-Pacific Corporation makes no warranty as to the performance of assemblies in the field having a performance equal to or better than that developed in the test.

Fire Hazard Classification—Official Underwriters' Tests.
1/2", 3/4", and 1" Bestwall, 10-15 (L&LEED)
3/4", 1/2", and 3/4" Bestwall, 10-15 (NOT LABELED).

This table is a summary only, based on tests sponsored by the Bestwall Gypsum Division, the Gypsum Association and/or others. The fire resistive ratings, heights and sound characteristics are based on assemblies with specific details as covered in official test reports and/or publications of Underwriters' Laboratories, the National Bureau of Standards, Ohio State University, Geiger and

* Hamme, Riverbank Laboratories, Ohio Research Corporation and/or the Bestwall Gypsum Division.
Inconsistencies in test results are due to tests over a period of 20 years and some variations in laboratory facilities.

1. STC under Sound Characteristics is Sound Transmission Class
2. Average decibel loss in 500-2800 CPS range
3. Official Underwriters' Tests have proven joint finishing is not required for the rating in assemblies of Firestop
4. Under "Model Building Code Approvals": A. refers to International Conference of Building Officials; B. refers to Southern Building Code Congress; C. refers to Building Officials Conference of America. Additional Approvals requested.

The Bestwall Gypsum Division cooperates with all independent metal component manufacturers who supply components applicable to Bestwall Systems.

TWO LAYER Laminated Construction

ONE-HOUR FIRE RATED

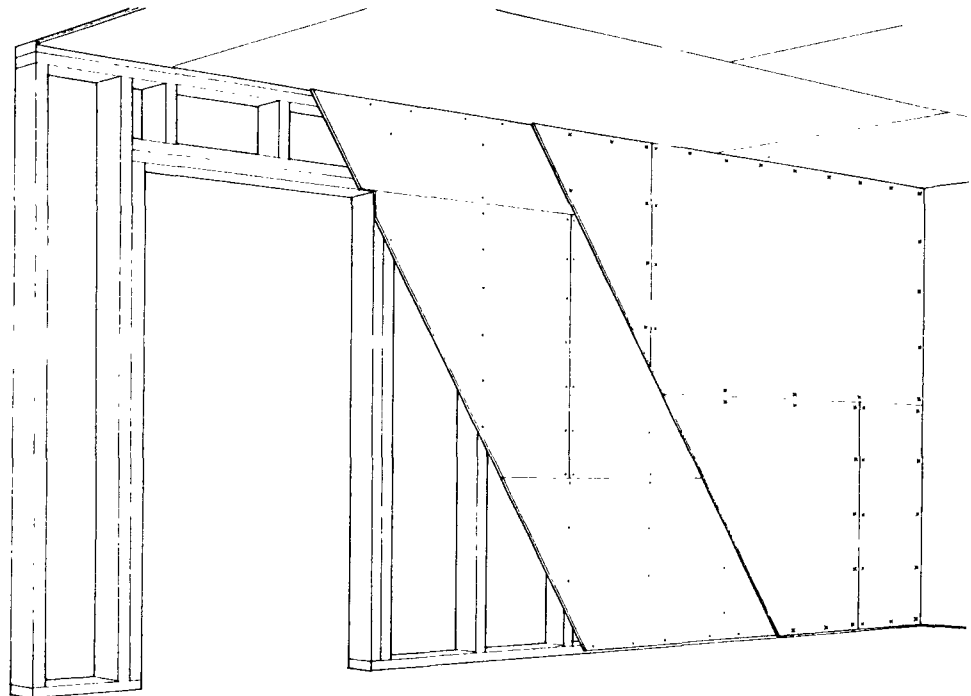
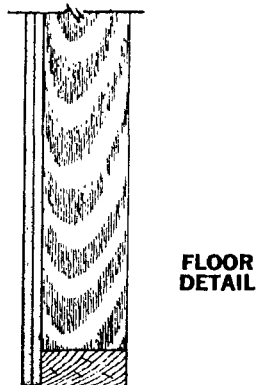
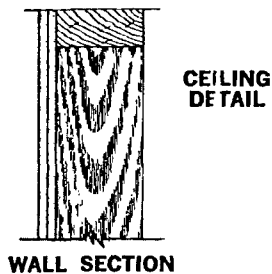
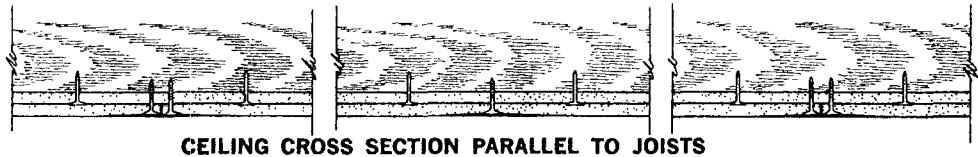
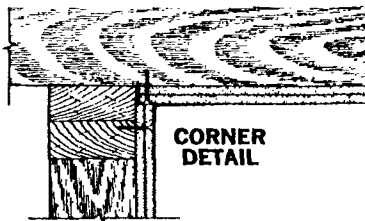
WHAT THE TWO-LAYER LAMINATION SYSTEM PROVIDES:

- FIRE RESISTANCE—ONE-HOUR (with two layers $\frac{3}{8}$ " gypsum wallboard).
- RESISTANCE TO NAIL POPPING—Freedom from nail popping and joint beading which plague conventional drywall systems.
- STRENGTH—Two-layer lamination has greater strength than single layer application.
- STRAIGHT WALL & CEILING SURFACES—Lamination creates smooth monolithic walls and ceilings.
- SOUND TRANSMISSION LOSS—43 Decibels (Tested before 1957), 38 Decibels (Tested 1958), with two layers $\frac{3}{8}$ " gypsum wallboard.

WHAT THE TWO-LAYER SYSTEM IS!

Lamination is an advanced system of wall and ceiling construction erected by laminating two layers of Bestwall Glass Fiber Reinforced Gypsum Wallboard to conventional framing. The first layer is nailed. The second is applied with adhesive and reduced number of fasteners. It is the basic system for fire-rated, durable walls and ceilings over framing for residential, institutional, commercial, and multi-dwellings work in new construction or remodeling based on the original two-layer application developed by E. B. Hummer in the early 1930's.

Reference: Bestwall Hummer Systems Brochure #BW-62380



STRIP LAMINATION

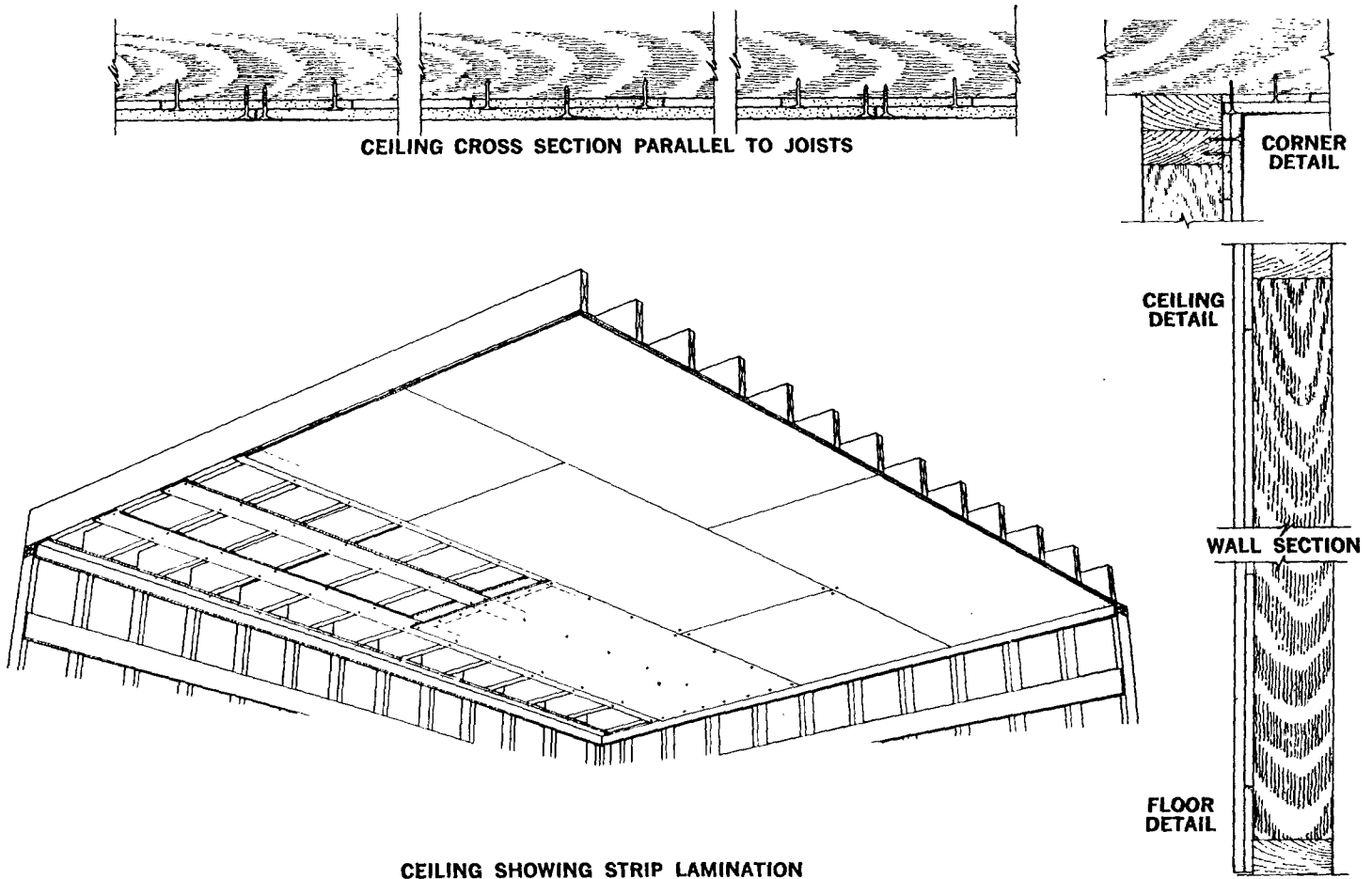
WHAT THE STRIP LAMINATION SYSTEM PROVIDES:

- RESISTANCE TO NAIL POPPING—Same freedom from nail popping and joint beading provided by two layer system.
- STRENGTH—Lamination at board center, edges, and ends greatly strengthens application.
- STRAIGHT WALL AND CEILING SURFACES—Lamination creates smooth monolithic walls.
- SOUND TRANSMISSION LOSS—34 Decibels (Tested before 1957).

WHAT STRIP LAMINATION IS!

This **original** strip laminated method of applying Bestwall Gypsum Wallboard provides nearly all the advantages of two-layer lamination at lower cost. 8" wide strips of $\frac{3}{8}$ " gypsum wallboard 2' on center (4" wide at ceiling and sidewall intersection and at floor) are applied at right angles to framing of walls and ceilings. $\frac{1}{2}$ " Bestwall Gypsum Wallboard is laminated to these strips. The System is recommended for framed residential and commercial work in new construction or remodeling—wherever straight walls and ceilings of long-lasting strength and smooth surface appearance are desired.

Reference: Bestwall Hummer Systems Brochure #BW-62385



SEMI-SOLID Non-Load Bearing Partitions

ONE-HOUR FIRE RATED

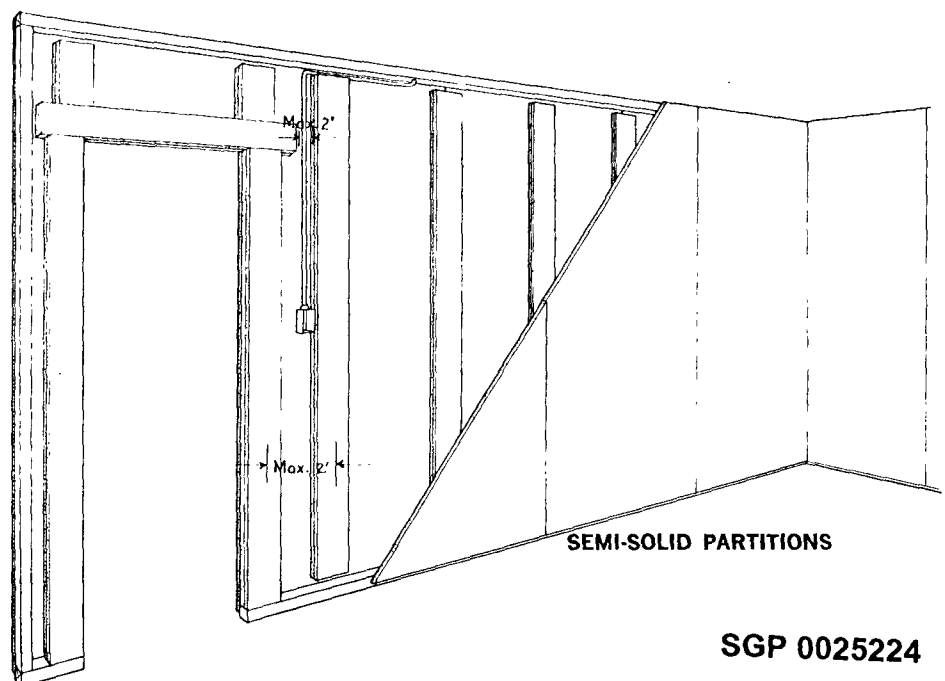
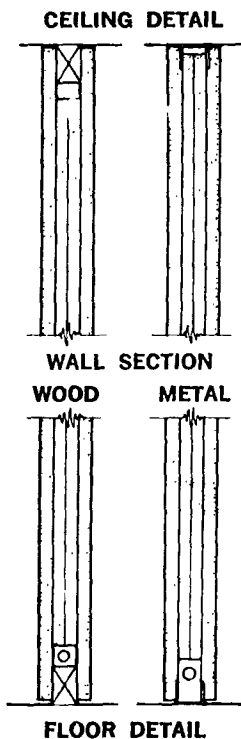
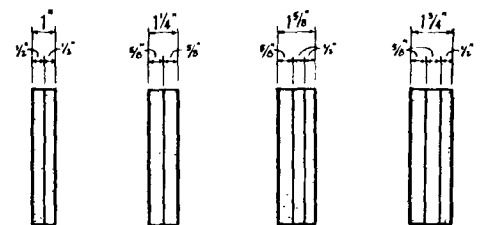
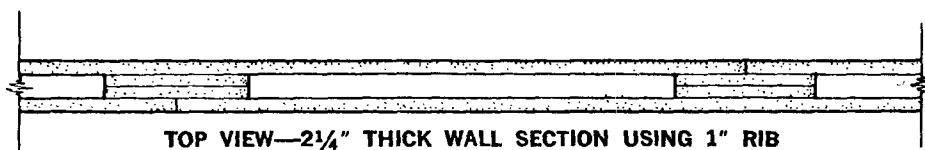
WHAT THE SEMI-SOLID SYSTEM PROVIDES:

- FIRE RESISTANCE—ONE-HOUR with $\frac{5}{8}$ " Bestwall Firestop.
- FREEDOM FROM NAIL POPPING.
- ECONOMICAL—Ease of application and speed of installation can save time and money.
- STRENGTH—More rugged as determined by ASTM E 72-55 Impact Test than wall with 2" x 4" studs, 16" o.c., faced with $\frac{1}{2}$ " gypsum wallboard.
- STRAIGHT WALL SURFACES—Lamination creates smooth monolithic walls and reduces joint beading.
- EXTRA USABLE FLOOR SPACE—With 2 $\frac{1}{4}$ " thick partitions, 20 sq. ft. additional floor space when compared with 2" x 4" stud wall construction for every 100 lin. ft. of wall.
- SOUND TRANSMISSION LOSS—35 Decibels (Tested before 1957), 30 Decibels (Tested 1958). (2 $\frac{1}{4}$ " partition.)

WHAT THE SEMI-SOLID LAMINATED SYSTEM IS!

The Bestwall Hummer Semi-Solid Gypsum Partition System is the original non-load bearing construction erected by laminating $\frac{5}{8}$ " Bestwall Firestop Gypsum Wallboard to 1" x 6" gypsum ribs spaced 24" on center. Other board facings may be used. 6" wide ribs of 1 $\frac{1}{4}$ ", 1 $\frac{5}{8}$ ", and 1 $\frac{3}{4}$ " thickness are also available for wider air space. The Semi-Solid Partition is recommended for institutional, commercial, and residential work in both new construction and remodeling wherever the best in fire-rated, non-load bearing thin partitions is required.

Reference: Bestwall Hummer Systems Brochure #BW-62390



SGP 0025224

4" and 5" SEMI-SOLID Non-Load Bearing Partitions

TWO-HOUR FIRE RATED

WHAT THE 4" SEMI-SOLID NON-LOAD BEARING SYSTEM PROVIDES:

- FIRE RESISTANCE—TWO-HOURS with two layers of $\frac{5}{8}$ " Bestwall Firestop.
- SOUND TRANSMISSION LOSS—42 Decibels (Tested before 1957), 37 Decibels (Tested 1958).

WHAT THE 5" SEMI-SOLID NON-LOAD BEARING SYSTEM PROVIDES:

- FIRE RESISTANCE—THREE-HOURS with two layers of $\frac{5}{8}$ " Bestwall Firestop.
- SOUND TRANSMISSION LOSS—47 Decibels (Tested before 1957), 40 Decibels (Tested 1958) with 1" low density fiber board in air space.

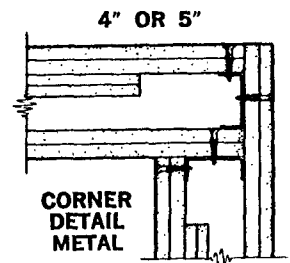
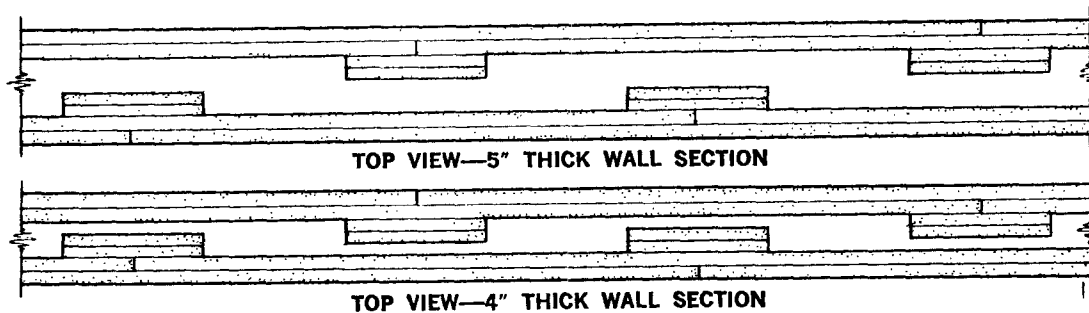
Both Systems Provide:

- STRENGTH—Will withstand abuse as determined by ASTM E-72-55 Impact Test.
- STRAIGHT WALL SURFACES—Lamination creates smooth monolithic walls.

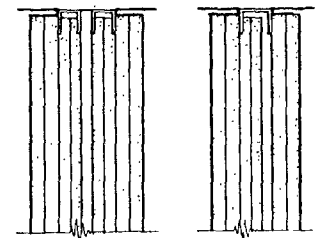
WHAT THE 4" AND 5" SEMI-SOLID NON-LOAD BEARING SYSTEMS ARE!

These Semi-Solid Gypsum Partition Systems are non-load bearing constructions erected by laminating two layers of $\frac{5}{8}$ " Bestwall Firestop Gypsum Wallboard to 1" x 6" gypsum ribs. Recommended for commercial and multi-story dwelling work in both new construction and remodeling—wherever the best in fire-rated, non-load bearing partitions is required.

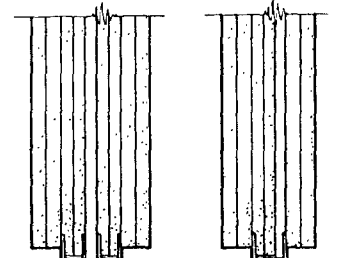
Reference: Bestwall Hummer Systems Brochure #BW-62390



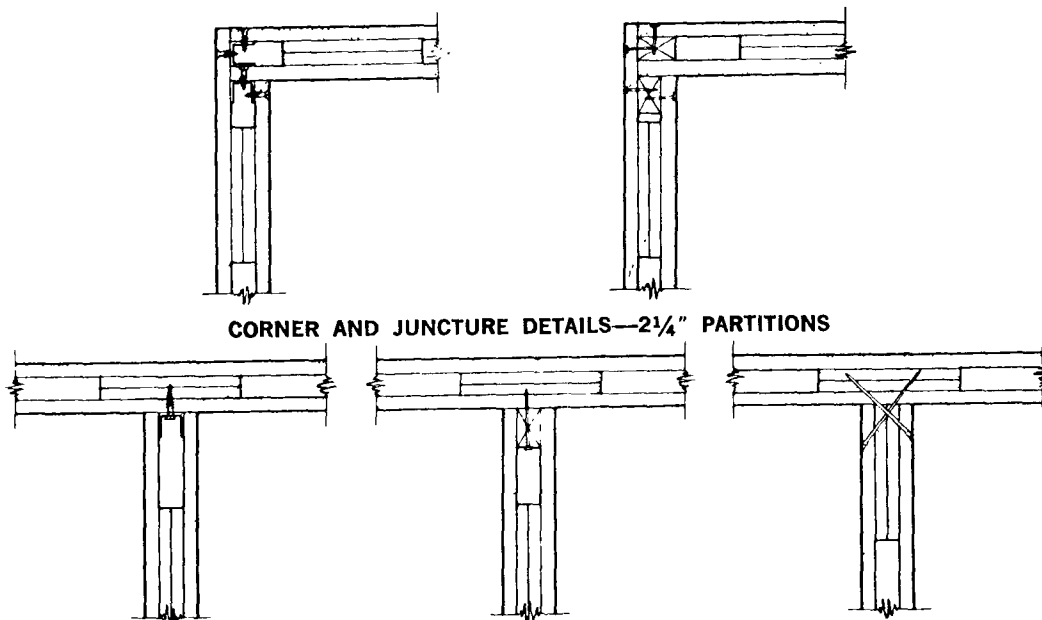
CEILING DETAIL



WALL SECTION



FLOOR DETAIL



Semi-Solid GYPSUM STUD Partition

ONE- and TWO-HOUR FIRE RATED

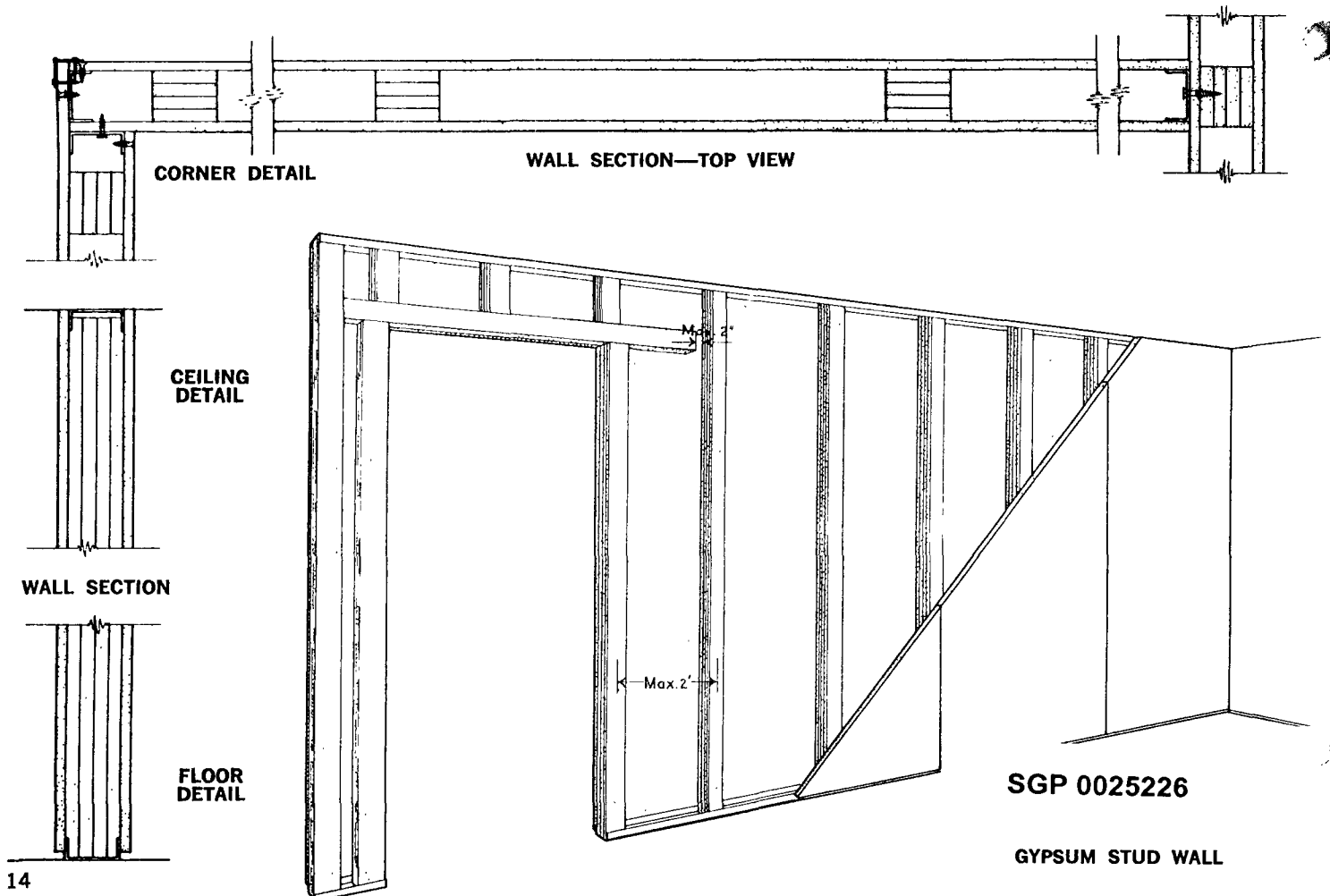
WHAT THE GYPSUM STUD PARTITION SYSTEM PROVIDES:

- FIRE RESISTANCE—ONE HOUR with $\frac{5}{8}$ " Bestwall Firestop each side over $\frac{1}{2}$ " Bestwall Sound Deadening Board. Estimated TWO-HOUR rating with 2 layers of $\frac{5}{8}$ " Bestwall Firestop each side.
- SOUND TRANSMISSION LOSS— $\frac{5}{8}$ " gypsum wallboard applied over $\frac{1}{2}$ " Bestwall Sound Deadening Board each side of gypsum studs carries an STC of 51.
- STRENGTH—Proven in ASTM E-72-55 Impact Test to be the most rigid of many gypsum non-load bearing partition systems.
- ECONOMICAL—Needs fewer screws than other partition systems. Requires no expensive lumber or metal, goes up fast.
- ADAPTABILITY—Conducive to installation of electrical facilities.
- EASY THREE-STEP ERECTION—(1) Place metal runners top and bottom. (2) Place gypsum studs 24" o.c. (3) Apply wallboard faces on each side.

WHAT THE GYPSUM STUD SYSTEM IS!

The Bestwall Hummer Gypsum Stud Partition System is the most advanced gypsum drywall partition system. It consists of 2½" thick by 3" wide solid gypsum studs, ½" or ⅝" gypsum face boards, and metal or wood floor and ceiling runners.

The gypsum stud is a four-layer laminate of 3" wide strips of ⅝" gypsum board. The face panels are Bestwall Regular or Fire-Rated Gypsum Wallboard. This Gypsum Stud Partition is an incombustible, non-load bearing partition system recommended especially for residential, multi-story dwelling, and commercial construction. It goes up like a metal stud partition.



2" SOLID LAMINATED Partitions

TWO-HOUR FIRE RATED

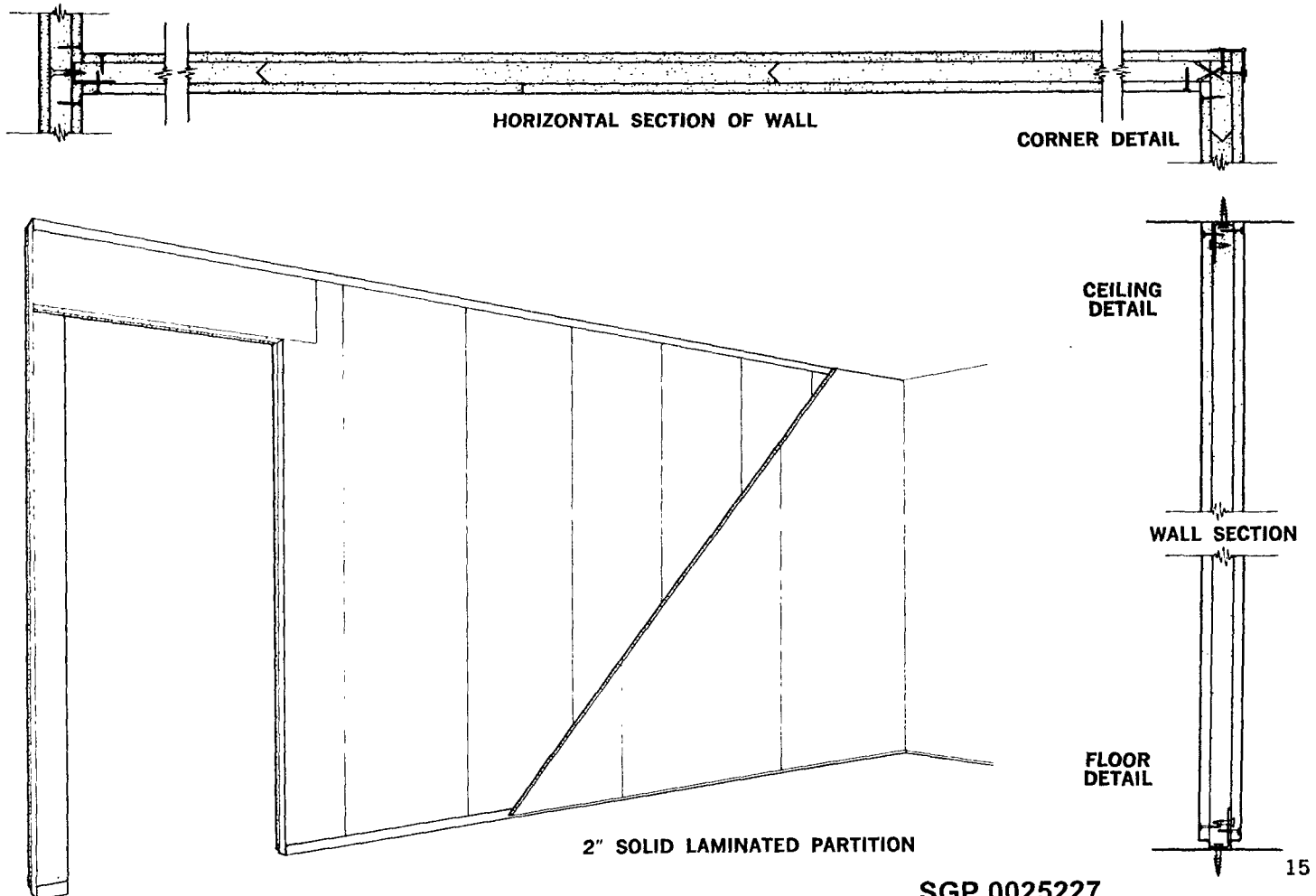
WHAT THE 2" SOLID SYSTEM PROVIDES:

- FIRE RESISTANCE—TWO-HOUR with Bestwall Gypsum Wallboard.
- STRENGTH—Will withstand abuse as determined by ASTM E-72-55 Impact Test.
- STRAIGHT WALL SURFACES—Lamination creates smooth monolithic walls.
- EXTRA USABLE FLOOR SPACE—20 sq. ft more floor space compared with 2" x 4" stud wall construction for every 100 lin. feet of partition.
- ECONOMICAL—Low material and construction costs.
- SOUND TRANSMISSION LOSS—36 Decibels (Tested 1958).

WHAT THE 2" SOLID SYSTEM IS!

This laminated non-load bearing Solid Gypsum Partition System consists of 1" homogeneous core board with face layers of $\frac{1}{2}$ " Bestwall Gypsum Wallboard. A 1" laminated core (two $\frac{1}{2}$ " boards) may also be used.

Reference: Bestwall Hummer Systems Brochure #BW-62395



DOUBLE SOLID Laminated Partitions

TWO-HOUR FIRE RATED

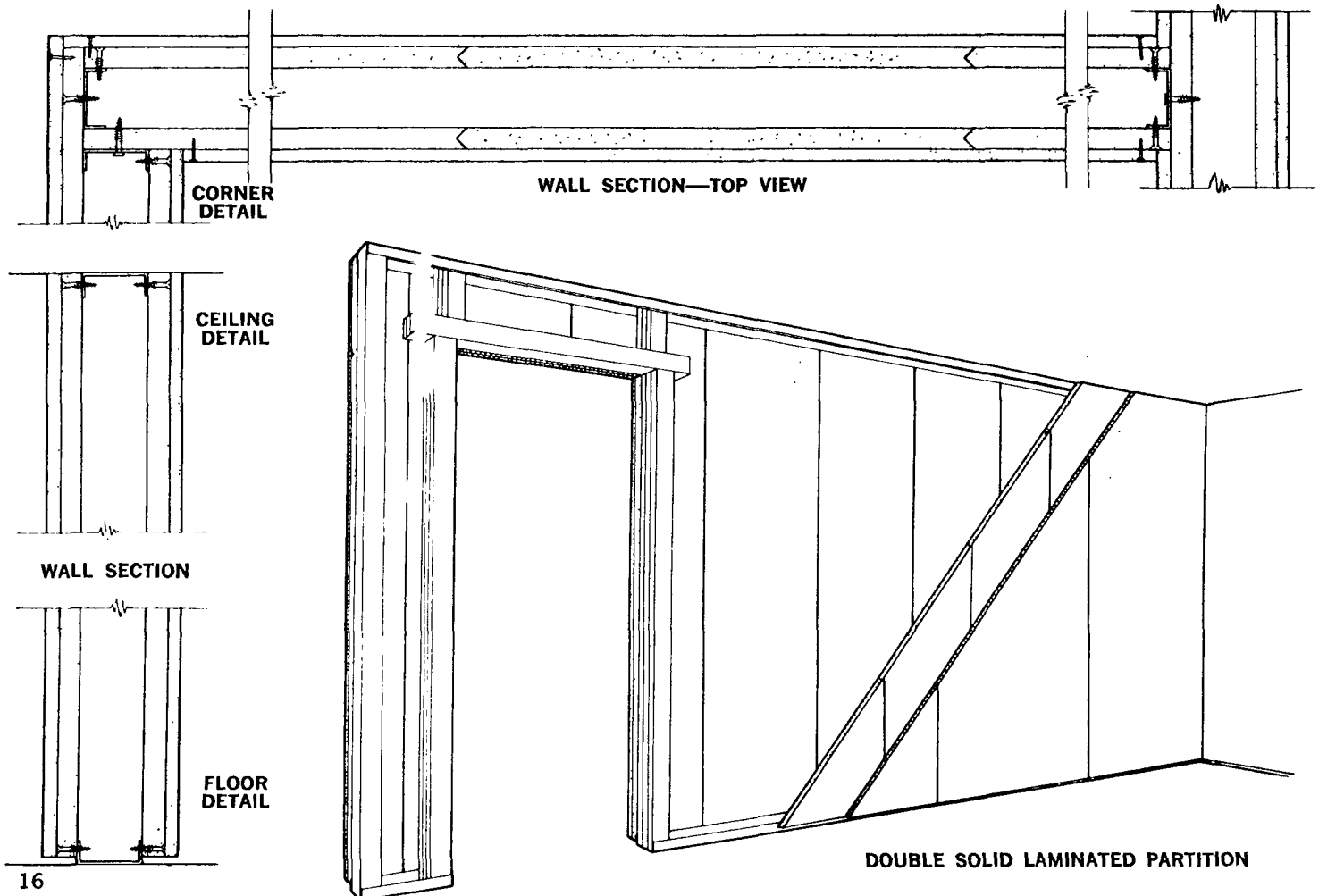
WHAT THE DOUBLE SOLID SYSTEM PROVIDES:

- FIRE RESISTANCE—TWO-HOUR (1½" gypsum each side of 3" air space).
- STRENGTH—Proven in ASTM E-72-55 impact test to have greater resistance to abuse than a standard frame or thin solid wall.
- STRAIGHT WALL SURFACES—Creates smooth monolithic walls.
- 3" CENTER AIR SPACE—Space for piping—conduit—fixture framing—for additional sound transmission loss.
- SOUND TRANSMISSION LOSS—47 Decibels (Tested 1961).

WHAT THE DOUBLE SOLID SYSTEM IS!

This non-load bearing Double Solid Gypsum Partition System is erected by laminating ½" Bestwall Wallboard to 1" tongue and groove core board each side of an air space. A 1" laminated core (two ½" boards) may also be used. It is recommended for corridor and party walls in high rise construction where good sound transmission resistance and fire resistance are needed.

Reference: Bestwall Hummer Systems Brochure #BW-62400



SOUND DEADENING SYSTEM

ONE-HOUR FIRE RATED

WHAT THE SOUND DEADENING SYSTEM PROVIDES:

- **SOUND TRANSMISSION LOSS**—Excellent sound isolation properties, up to 51 STC in various assemblies.
- **FIRE RESISTANCE**—ONE HOUR fire rating with 1 layer of $\frac{5}{8}$ " Firestop.
- **LAMINATED CONSTRUCTION**—Fewer nails and laminated construction practically eliminates nail popping and joint beads.
- **ECONOMICAL**—Easy to install, fast erection.

WHAT THE SOUND DEADENING SYSTEM IS!

The Bestwall Sound Deadening System is a low cost system designed for use in wall and floor and ceiling systems where a reduction in the passage of sound from room to room is desired. Specially manufactured, Bestwall Sound Deadening Board is ideal for residential or apartment type construction.

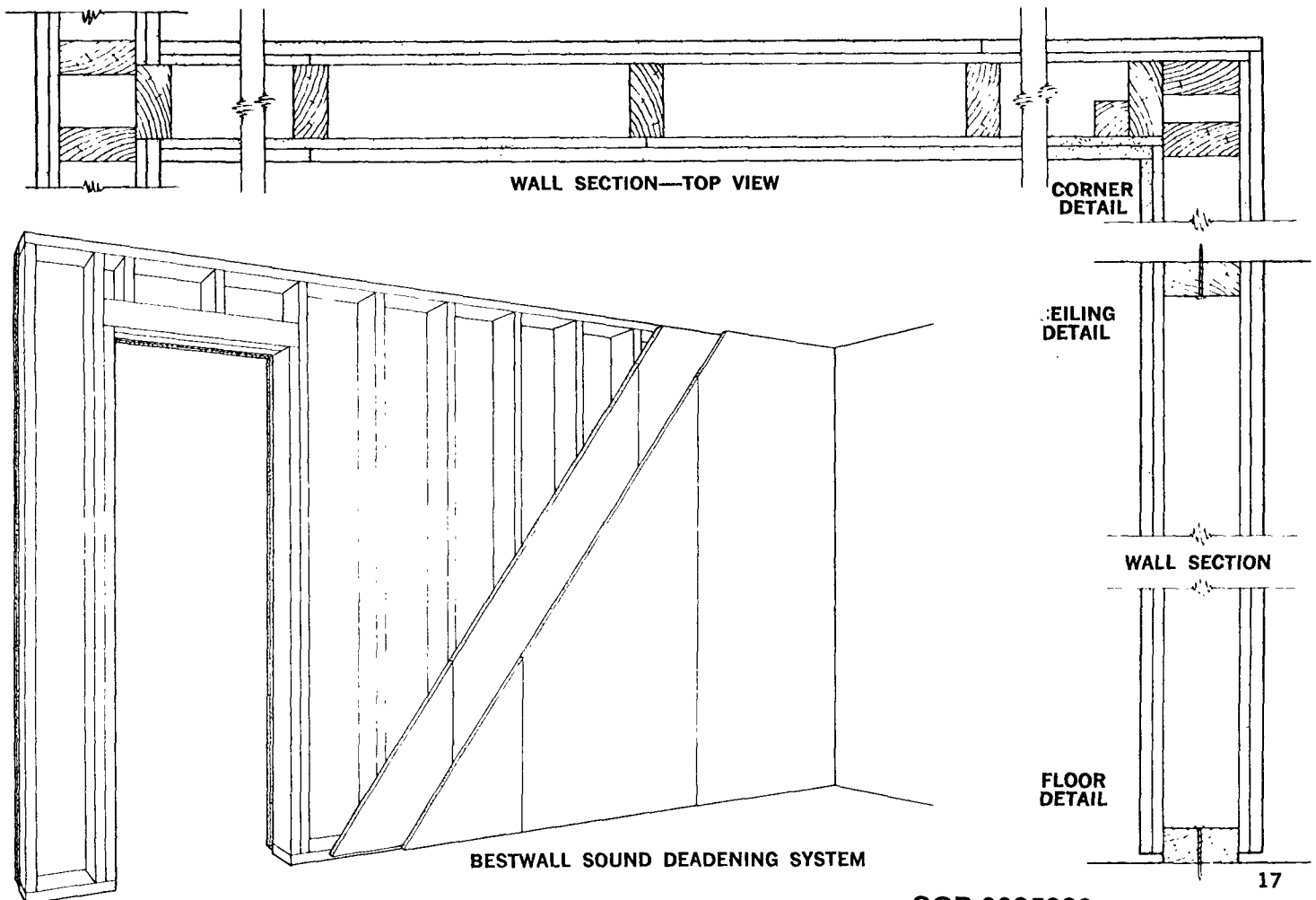
In addition to this system's excellent sound control properties, it can be used in combination with $\frac{5}{8}$ " Firestop to provide an exclusive One-Hour Fire Rating as proven by the Ohio State Testing Laboratory in Test Number T-3006.

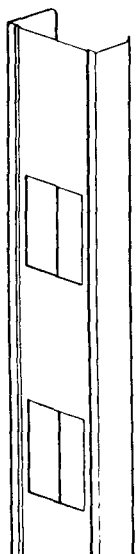
In this test, $\frac{1}{2}$ " x 4' x 8' Bestwall Sound Deadening Board was applied vertically to each side of 2" x 4" wood studs spaced 16" o.c. top and bottom with joints staggered on

opposite sides by nailing with 5d coated nails spaced 24" o.c. at joints, edges and intermediate framing.

$\frac{5}{8}$ " Bestwall Firestop was then applied vertically over the Sound Deadening Board with joints staggered on opposite sides and was nailed 12" o.c. around the perimeter with one nail per stud in the field of the board.

Bestwall Firestop was laminated to the Sound Deadening Board, using Bestwall Laminating Compound applied in 6" wide strips around the perimeter and vertical centerline of each full Bestwall Firestop sheet and the wallboard joints were taped and finished. This assembly developed an STC of 45, as well as resulting in the exclusive One-Hour Fire Rating.





METAL STUD PARTITIONS

What Metal Stud Framing Provides:

- Simple and fast erection
- Variety of sound and fire ratings available
 - 1 Hour Fire Rating with $\frac{5}{8}$ " Firestop on each side of $1\frac{1}{8}$ ", $2\frac{1}{2}$ ", or $3\frac{5}{8}$ " metal stud—STC of 42 ($3\frac{5}{8}$ " stud)
 - $1\frac{1}{2}$ Hour estimated fire rating with $\frac{5}{8}$ " Bestwall Firestop two layers one side, one layer other side—STC of 43 ($3\frac{5}{8}$ " stud)
 - 2 Hour Fire Rating with two layers of $\frac{5}{8}$ " Bestwall Firestop each side—STC of 47 ($3\frac{5}{8}$ " stud)
 - 2 Hour Fire Rating with same as above with $1\frac{1}{2}$ " blanket in cavity—STC of 52 ($3\frac{5}{8}$ " stud)
- All incombustible components

What Metal Stud Framing Is!

Metal Stud framed partitions are non-load bearing constructions consisting of metal studs inserted into floor and ceiling tracks with Bestwall Gypsum Wallboard (or Firestop) attached to studs with drywall screws. These partitions are recommended for institutional, commercial and multi-story dwellings work in new and remodeled construction when low cost incombustible partitions with good fire and sound ratings are required.

Reference: Bestwall Metal Stud Partitions #BW-64210

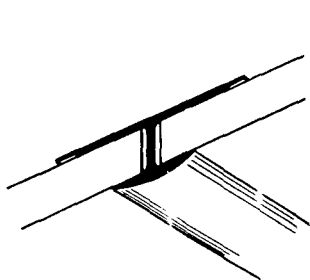
CEILING SYSTEMS

See Bestwall Gypsum Sweet's catalog Number $\frac{11a}{Ge}$ for:

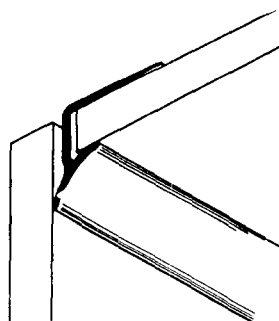
- a—Bestwall Gypsum Incombustible Ceiling Tile
- b—Bestwall Gypsum Incombustible "Firestop-120" Ceiling Tile (Two-hour rated ceiling assembly)

METAL ACCESSORIES

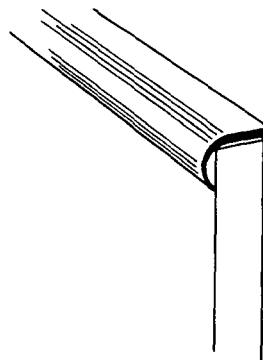
Pre-Decorated (Aluminum sections in matching finish for Eternawall available for $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " thick wallboard).



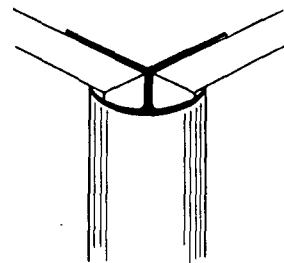
DIVIDER



INSIDE CORNER

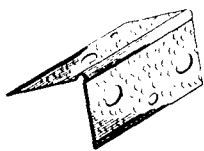


END CAP

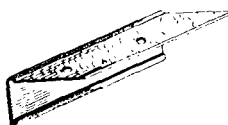


OUTSIDE CORNER

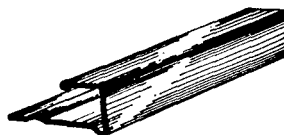
METAL TRIM



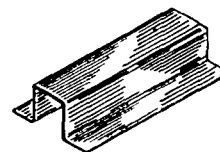
METAL CORNER



ANGLE EDGE
METAL CASING



SQUARE NOSE
METAL CASING



HAT SECTION

JOINT SYSTEM PRODUCTS

Bestwall Joint System Products are designed to conceal joints and nail heads. All have easy working characteristics and very low shrinkage. Used in recommended joint treatments, they literally surface weld Bestwall Gypsum Wallboard panels together, providing smooth, uninterrupted walls with joints as strong as wallboard itself. Instructions are included on each container.

Bestwall Joint System Compound—A plasticized compound used for both bedding and topping Bestwall Tape and for spotting nail heads. Sanding may be eliminated by careful application.

Ready Mix Joint Compound—A prepared wet mix product which is used for taping and finishing joints, cornerbead, and nailheads.

1-Day Wallboard Joint Compound—A setting type material that is formulated to harden in 2½ to 3 hours. It is designed for taping and all coats preceding the final coat on joints, cornerbead, and nailheads.

Bestwall Bedding Compound—Designed to provide maximum adhesion of tape to the joints. It spreads smoothly.

Bestwall Topping Compound—Used for finishing taped joints and spotting nail heads. Sanding is unnecessary. Long working and low shrinkage.

Triple Duty Joint Compound—A vinyl base multi-purpose joint system product used for all coats in the reinforcing of joints, spotting of nail heads, filling cornerbead and texturing.

Bestwall Tape—Includes skived edges and center crease, this tape is roughened for excellent bonding qualities. It achieves good porosity and rapid drying of joint adhesive. Stabilized against varying humidity conditions, it reduces uneven expansion and edge wrinkling.

JOINT TREATMENT SPECIFICATIONS

Scope—All walls and ceiling surfaces are included. Furnish all labor and material necessary to reinforce and conceal joints between gypsum wallboards and cover nail heads in a first-class workmanship manner.

- Materials**—1. One-Material Treatment—Bestwall Joint System Compound, Triple Duty Joint Compound, or Bestwall Ready Mix Joint Compound. Used for bedding and for spotting nail heads.
2. Two-Material Treatment—Bestwall Bedding Compound or Bestwall 1-Day Wallboard Joint Compound and Bestwall Topping Compound. Specially designed for use on large projects.

Reinforcing Tape—Bestwall Tape.

Joint Work—Apply Bestwall Wallboard Joint Compound, Triple Duty Joint Compound, Ready Mix Joint Compound or Bestwall Bedding Compound to taper edge joints, end joints and nail heads. Shear off surplus leaving no material on high edges. Allow 12 hours drying before taping, leaving uniform depth of taper for uniform shrinkage of joint finishes over and under tapes.

Apply Wallboard Joint Compound, Triple Duty Joint Compound, Ready Mix Joint Compound, 1-Day Wallboard Joint Compound or Bedding Compound, and embed tape leav-

ing uniform thickness of material under tape. If Bestwall center taper Gypsum Wallboard is used on ceilings embed tape in center taper.

When Wallboard Joint Compound, Triple Duty Joint Compound, Bedding Compound or Ready Mix Joint Compound has dried completely, cover taped joint with Wallboard Joint Compound, Triple Duty Joint Compound, Ready Mix or Topping Compound. (When 1-Day Wallboard Joint Compound is used, the taped joint can be covered as soon as initial coat is set and before it is dry.) Shear off surplus leaving uniform coverage over tape with edges well feathered.

When preceding coats are completely dry (where 1-Day is used it is only necessary for it to be hardened, not completely dry) cover joints second time with Wallboard Joint Compound, Triple Duty Joint Compound, Ready Mix Joint Compound, or Topping Compound. Shear off surplus leaving smooth, well feathered joint.

For best results and more uniform suction, apply skim coat of Wallboard Joint Compound, Triple Duty Joint Compound, Ready Mix Joint Compound or Topping Compound over entire surface shearing off excess material tightly. (See Joint Treatment Product Sheet BW-6510.)

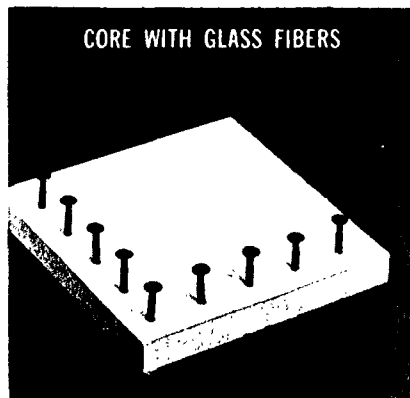
Texturing—Bestwall Bestex A, B, and C can be used to produce various texture finishes over drywall construction. Bestex A produces fine texture finishes, B produces medium sand texture finishes and Bestex C produces coarse simulated acoustical texture finishes. Bestex A can be applied by hand or spray while B and C by spray only. All provide excellent hiding power, superior hardness and whiteness. (See Bestex A, B, and C Product Sheet BW-6515.)

Decorating—Gypsum Wallboard properly prepared can be decorated with any treatment ordinarily used for walls or ceilings. Surface shall be sealed with vinyl or pigmented varnish primer before any decoration, including texture.

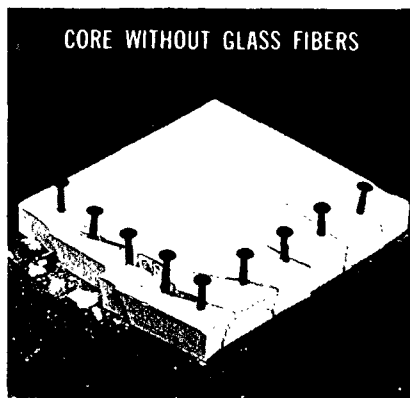
Laminating Compound—Bestwall Laminating Compound is a casein base dry powder product requiring addition of water only. Add 25 lbs. of Laminating Compound to 4½ to 5 gal. of water. Consistency of the mixed materials should be such that when spread over gypsum board with a 12" serrated sheet metal blade having notches ⅛" wide, ¼" high, ¾" o.c., it will not self-level. Ribbons of glue may be applied with serrated knife or mechanical glue spreader. Coverage is approximately 30 lbs. per thousand sq. ft. glue line. (See Laminating Compound Product Sheet BW-62675.)

Bestwall Grabit—Grabit is an adhesive developed by Bestwall, which permits direct attachment of Gypsum Wallboard to interior masonry walls. It may be used on poured concrete, or block walls which are reasonably straight and true and are free from surface decoration or protrusions. The adhesive fills in all normal irregularities in the masonry. In 3 to 4 hours Grabit sets hard, and joint taping and finish operations may then be started. (See Grabit Product Sheet BW-62680 Rev.)

BESTWALL GYPSUM WALLBOARD
 NOW WITH GREATER GLASS FIBER REINFORCEMENT THAN EVER BEFORE

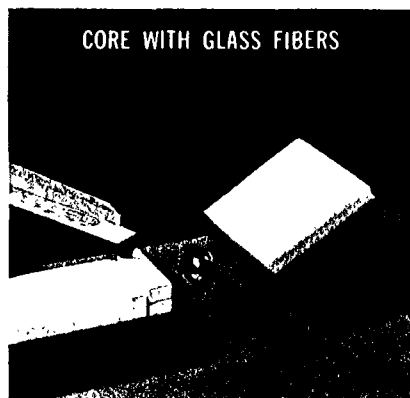


CORE WITH GLASS FIBERS

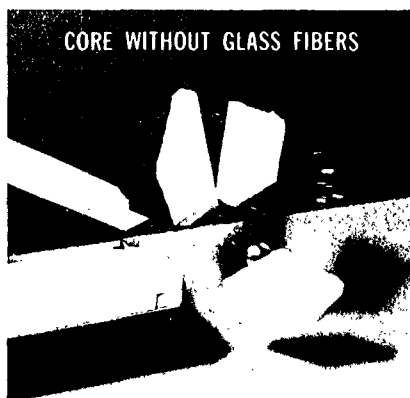


CORE WITHOUT GLASS FIBERS

GLASS FIBERS PROVIDE STRONGER CORES

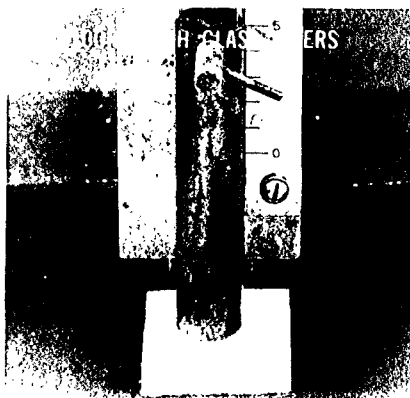


CORE WITH GLASS FIBERS

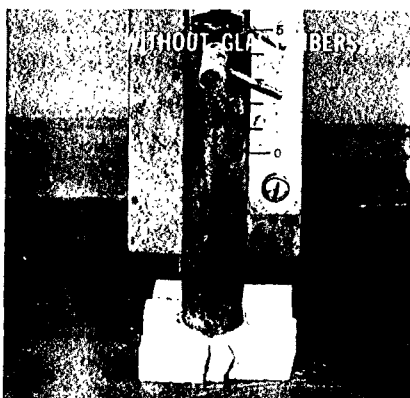


CORE WITHOUT GLASS FIBERS

GLASS FIBERS PROVIDE GREATER RESISTANCE TO SHOCK



CORE WITH GLASS FIBERS



CORE WITHOUT GLASS FIBERS

GLASS FIBERS PROVIDE GREATER IMPACT RESISTANCE

BESTWALL GYPSUM WALLBOARD
 THE ORIGINAL WALLBOARD WITH GLASS FIBER REINFORCEMENT

SALES OFFICES

ATLANTA
 801 Peachtree 25th Building
 1720 Peachtree, N.W.
 Atlanta, Georgia 30309

BRUNSWICK
 Foot of Union Street
 Brunswick, Georgia 31521

CHICAGO
 5544 W. St. Charles Road
 Berkeley, Illinois 60162

CLEVELAND
 3530 Warrensville Center Road
 Shaker Heights
 Cleveland, Ohio 44122

DALLAS
 600 Exchange Bank Building
 Dallas, Texas 75235

DETROIT
 Suite 227, Offcenter Building
 Detroit, Michigan 48235

HOUSTON
 Bayou Building
 3322 Richmond Avenue
 Houston, Texas 77019

KANSAS CITY
 4233 Blue Ridge Boulevard
 Kansas City, Missouri 64133

NEW ORLEANS
 7800 Alamonaster Drive
 New Orleans, Louisiana 70126

SAN FRANCISCO
 301 El Cerito Plaza
 El Cerito, California 94532

WESTERN
 Room 404, Tribune Building
 143 S. Main Street
 Salt Lake City, Utah 84101

WILMINGTON
 Wilmington Marine Terminal
 Wilmington, Delaware 19899

SGP 0025232

GP GEORGIA-PACIFIC / BESTWALL GYPSUM DIVISION
 2 INDUSTRIAL BOULEVARD • PAOLI, PENNSYLVANIA 19301