

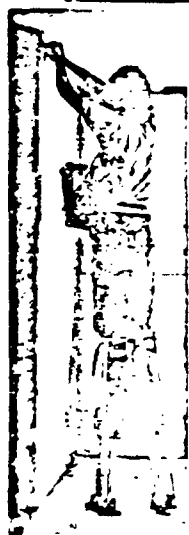
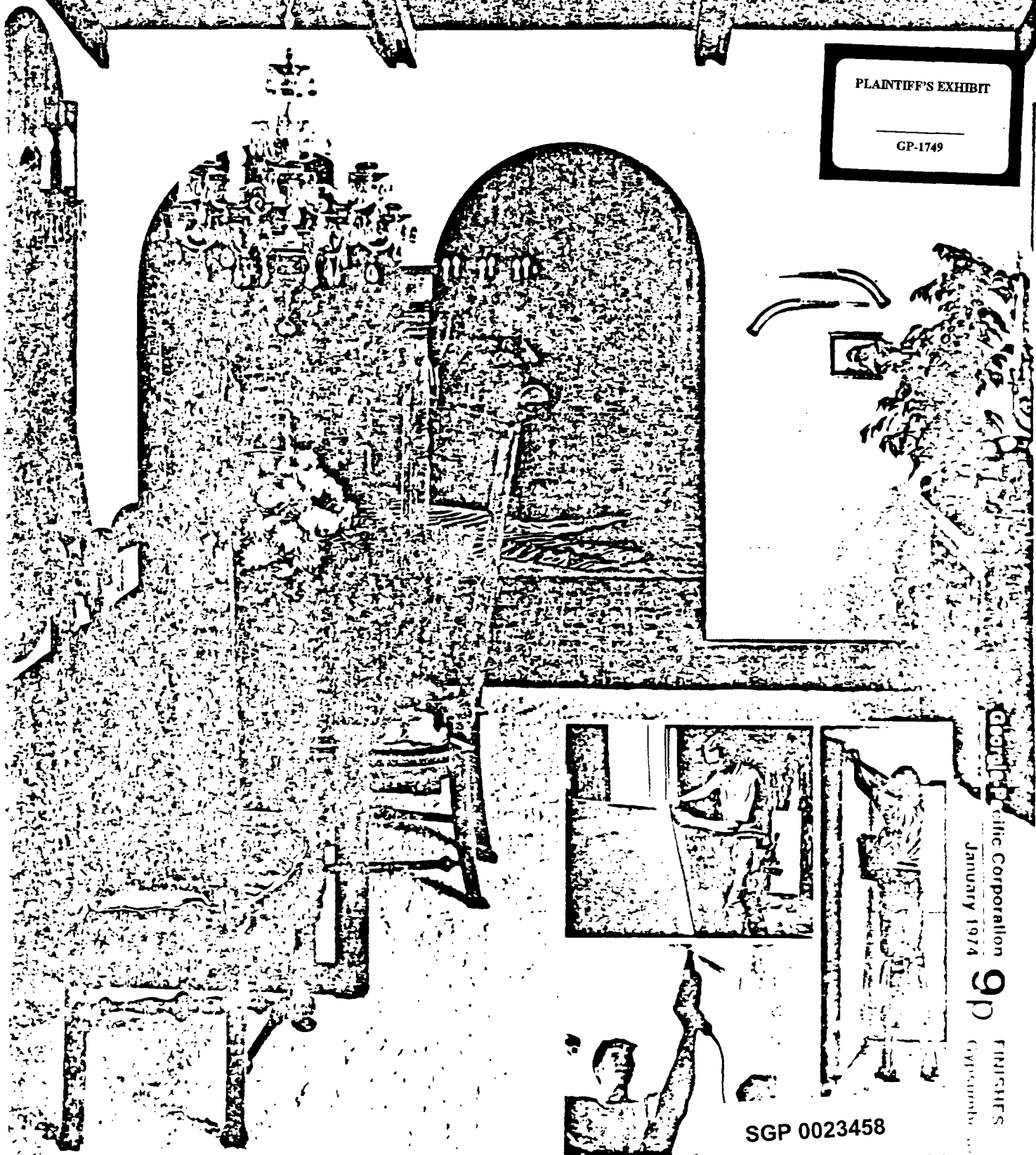
Georgia-Pacific

gypsumboard

for wall and ceiling systems

PLAINTIFF'S EXHIBIT

GP-1749



Georgia-Pacific Corporation

January 1974

GP

FINISHES
Gypsumboard

SGP 0023458

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WARRANTY

The assemblies and information in this brochure have been developed based on practical construction methods.

However, since the Georgia-Pacific Gypsum Division does not have any prior knowledge of a specific building design and its construction or the methods of application used with its products, no warranty of performance is made. All test results have been obtained under controlled laboratory testing conditions where environmental variables are reduced to a minimum. In the field, such laboratory conditions are not always met, since many other variables may be introduced. Laboratory results may exceed field test results but the laboratory tests under controlled conditions are the only logical way to compare the performance of different assemblies.

The Gypsum Division of the Georgia-Pacific Corporation makes no warranty that the performance of assemblies in the field will have a performance equal to or better than that developed in the test.

LIMITATIONS

- Georgia-Pacific interior gypsumboards are non-load bearing panels.
- Regular Gypsumboard panels are not recommended for use under extremely moist conditions. G-P Tile Backer Board is to be used in bathrooms or other high moisture areas.
- $\frac{1}{4}$ " gypsumboard should only be used as an application over existing walls or as the first layer in a sound rated system.
- Maximum framing spacing for gypsumboard up to $\frac{3}{8}$ " thick is 16" on center.
- Maximum framing spacing for $\frac{1}{2}$ " and $\frac{5}{8}$ " panels is 24" on center.
- Because of the limitations of manufacturing equipment, the maximum length available in gypsumboard is 16 feet.

TESTING FACILITIES

Georgia-Pacific's major research and development center, a showplace for the nation's gypsum industry, is located at Tigard, Oregon.

The two adjacent structures, with 16,868 square feet of floor area, are equipped with many types of research and testing devices.

Quality control is an important factor in the type of product that Georgia-Pacific markets. Staff technicians develop and continually check G-P gypsum products such as Tile Backer Board, Insulating Boards, Vinyl Surfaced Eternawall and other products including wall and ceiling systems, plasters, pottery and metal moulding plasters and agricultural gypsum for farm use.

G-P developed the use of glass fibers to strengthen gypsumboard, high strength Densite plaster and special lath for veneer plaster, and the lab is carrying on a vigorous product development program.

The technical department conducts field and manufacturing plant services, solving difficult technical problems and develops improved manufacturing methods.

Gypsum products are tested several ways at the Tigard lab. Gypsumboards are subjected to severe stresses and extreme temperatures to make stronger and more fire resistant gypsum products.

Sound tests are conducted to develop wall and floor/ceiling systems to assure "sound privacy" for today's residential and commercial construction.



Gypsumboard Products

Georgia-Pacific



Georgia-Pacific Gypsum Division manufactures a full range of products to meet the needs of the construction industry. The versatile gypsum product provides builders with light-weight construction materials that are workable, fire and noise resistant and time saving. G-P research facilities have responded to the industry's requests and have developed the following multi-use, highly reliable, low cost products.

G-P GYPSUMBOARD EDGES

T—Tapered
S—Square
RE—Tapered with Round Edge
B—Beveled (Special Order)
T & G—Tongue and Groove
MB—Modified Beveled Edge

See page 5 for detailed description

PRODUCT DESCRIPTION	Thickness	Widths	Lengths	Edge
G-P REGULAR GYPSUMBOARD				
G-P Regular Gypsumboard is faced with a strong, cream colored paper which will accommodate almost any type of decorative treatment. The back paper, which is gray, is as strong as the face paper. The 1/2" and 3/4" gypsumboard Tapered Round edges are recommended for single layer application in new construction. They are designed to be reinforced with G-P Joint System products resulting in a smooth, seamless surface. Square edges are recommended for use where exposed joints are acceptable. The resistance to fire exposure and sound transmission increase with the use of greater board thickness and the number of layers of board used. Bevel edge can be used where a panel effect is desired.	1/4" 3/8" 1/2" 3/4"	4'	6' to 16' in even feet	T, S, B, RE
G-P FIRESTOP® GYPSUMBOARD				
G-P Firestop develops 45 minute to 3 hour fire resistant ratings in various wood and steel wall and floor/ceiling assemblies. Unexpanded vermiculite in the core balances gypsum shrinkage by expanding when exposed to heat, while the textile glass filaments keep the core intact even after the chemically combined water has been released. The results are a thermal stabilized core.	1/2" 3/4"	4'	6' to 16' in even feet	T, S, B, RE
G-P 1/4" GYPSUM SOUND DEADENING BOARD				
G-P 1/4" Incombustible Gypsum-Sound Deadening Board meets the requirements of the most sophisticated sound control systems available with the added convenience of being one of the easiest sound control materials to install. When combined with other gypsumboard, it reduces sound transmission, has high structural strength and incombustibility. It has a distinctive green face paper. When applied over 2 1/2" steel studs or 2 x 4 wood studs, one layer of 1/2" G-P Firestop Type XXX over one layer of 1/4" Gypsum Sound Deadening Board produces a 1-hour fire resistive wall and a 45 S.T.C.	1/4"	4'	8'	S
G-P REGULAR TILE BACKER BOARD				
This 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, combined with an emulsion giving high water resistance. Ideal for bathrooms, kitchens, powder rooms and other moisture areas. G-P Tile Backer Board can be erected as easily as regular gypsumboard and requires no finishing of joints or nail heads with joint treatment nor further waterproofing under tile applied adhesively unless required by local code.	1/2"	4'	8' to 12'	T
G-P FIRESTOP® TILE BACKER BOARD				
Same as Regular Tile Backer Board plus the addition of unexpanded vermiculite and glass fiber reinforcement which gives increased fire protection and strength. Where fire rated assemblies are required in areas subject to moisture, such as partitions between bathrooms and other interior areas, most building codes allow the use of G-P Firestop Tile Backer Board. The use of 3/4" Firestop Tile Backer Board will give the same fire resistant rating as other Firestop board.	5/8"	4'	8' to 12'	T
G-P REGULAR INSULATING GYPSUMBOARD				
Regular Insulating Gypsumboard is regular gypsumboard with bright aluminum foil laminated to the back surface. The foil paper provides a continuous vapor barrier on the warm side of the wall. To have reflective insulation value, FHA requires the foil to face a minimum air space of 3/4". The aluminum foil, facing a 3/4" minimum space, reflects 90% of radiant heat, providing insulation qualities equal to 1/2" of fiberboard insulation (tested by U. S. Bureau of Standards). Panels must be installed with foil side against the studs.	3/8" 1/2" 5/8"	4'	6' to 16'	T, S, RE
G-P FIRESTOP® INSULATING GYPSUMBOARD				
This is the regular insulating gypsumboard with the addition to the core of unexpanded vermiculite and glass fiber content for increased fire protection. Through the proper use of this product desired fire-rated assemblies can be achieved.	5/8"	4'	6' to 16'	T, S, RE

SGP 0023460

PRODUCT DESCRIPTION	Thickness	Widths	Lengths	Edge
P REGULAR ETERNAWALL™—VINYL SURFACED GYPSUMBOARD				
Standard Line. Colors—Avocado, Gold, Flax, White, Beige, Stucco, Buff, Willow Green, Fawn, Snow-drift white, Alabaster, Tangerine, Cherry, Pecan and American Walnut. New Colors and Textures. Colors—Honey Maple, Shadow Beige, Teak, Rosewood, Oak, Desert Yellow, Smokey Mint, Spanish Haze, Winter Green, Tarnished Gold, Powder Brown, Chocolate Malt, Autumn Orange, Burnt Sugar, Pebble White. This panel has the vinyl surface factory laminated to Regular Gypsumboard. Available in a variety of colors and textures, it provides beauty and utility to commercial, institutional and home interiors. Eternawall is strong and resilient. The solid gypsum core is incombustible. Eternawall colors won't fade. The deep linen-textured vinyl surface can be scrubbed without damage to color, texture or design. Because of its ability to take hard wear and to resist stains, Eternawall is ideal for restaurants, hotels, clubs, and hospitals as well as home use. It is also ideally suited for movable partitions.	$\frac{1}{2}$ " (Special order $\frac{3}{8}$ " & $\frac{5}{8}$ ")	4'	8' (Other lengths available on special order.)	MB

G-P FIRESTOP' ETERNAWALL™—VINYL SURFACED GYPSUMBOARD

This panel has the vinyl surface factory laminated to a Firestop panel which has unexpanded vermiculite and glass fibers added to the core to give it additional fire resistance. With this technically designed gypsum core, a 1 hour or greater fire rating may be obtained on wall assemblies. Same colors available as with regular Eternawall.	$\frac{1}{2}$ " $\frac{3}{8}$ "	4'	8' (Other lengths available on special order.)	MB
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G-P FIRESTOP' GYPSUM SHEATHING

Treated—G-P Firestop Gypsum Sheathing consists of incombustible gypsum rock combined with an asphalt emulsion to provide high resistance to water. All G-P Firestop Gypsum Sheathing is manufactured to meet ASTM C79 including requirement for water resistance. This eliminates the need for building paper (except where required by local building code). An untreated (no asphalt) gypsum sheathing is available. The 2' wide sheathing, applied horizontally, is made with precision-cut tongue and groove edges. The 4' wide square edge sheathing, applied vertically, completely eliminates the need for corner bracing. It is designed to meet requirements of FHA Technical Circular 12.	$\frac{1}{2}$ "	2' 4'	8' 8' & 9'	T & G S
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G-P GYPSUM FIRESTOP' BACKER BOARD

G-P $\frac{1}{4}$" Firestop Gypsum Backer is used as a backing for decorative surface treatments of acoustical plasters, tile, plywood and various veneers. A single layer application of $\frac{1}{4}$" G-P Firestop Gypsum Backer on both sides of wood or steel framing, enables loadbearing or non-loadbearing wall assemblies to resist temperatures rising to 1700° F. in the ASTM 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 fibres, firmly bonded to a fibrous gray paper on both sides.	$\frac{1}{2}$ " $\frac{3}{8}$ "	2' & 4'	8' to 16'	S, T & G
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G-P REGULAR BACKER BOARD

G-P Gypsum Backer Board is designed for first or base layers in field lamination of gypsumboard, for acoustical tile and other compatible materials. Provides low cost, even surfaces for further decorative treatments. It may be applied over loadbearing or non-loadbearing wood or metal framing with nails, screws or staples.	$\frac{3}{8}$ " $\frac{1}{2}$ " $\frac{5}{8}$ "	2' & 4'	8' to 16'	S, T & G
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PREDEC™ TEXTURED GYPSUM

This combination of non-combustible gypsumboard with factory applied, distinctive, evenly balanced textures is a new development in the construction industry. The textures are baked on and are available in 2 patterns, stipple and stucco. The panels are $\frac{5}{16}$", $\frac{1}{2}$" and $\frac{3}{4}$" thick with square edges. The texture is a thermo-set in White, Beige, Gold and Light Green water resistant paint. This product eliminates job site finishing and installation time. It is impact and abrasion resistant and ideal for residential construction, factory built mobile and modular homes and movable or fixed partitions. It can be cleaned with a damp cloth and mild soap and water. PreDec has a flame spread rating of 20. Samples available on request.	$\frac{5}{16}$ " ($\frac{1}{2}$ " & $\frac{3}{4}$ " special order)	4'	cut to size	S
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SHAFT LINER™

G-P Shaft Liner is a laminated gypsumboard partition for enclosing elevator shafts, stairs, smoke towers and air ducts. It is a non-load bearing wall, designed for resistance to air pressures without excess deflection. This system can save over 20 lbs. per square foot over masonry and is noncombustible, can be erected from one side and eliminates the need for scaffolding. The partition consists of a basic prelaminated core $1\frac{1}{4}$" thick by 24" wide which fits into a top metal "U" track and bottom "U" runner. Metal "T" splines separate each core unit; and the shaft liner is then secured to the "T" splines and both top and bottom runners. This system was fire tested in accordance with ASTM E119. G-P shaft liners available in lengths up to 16'. With G-P's own auxiliary bracing system heights beyond 16' are attainable. Various fire resistive and sound ratings available. Solid and cavity wall types available. See pages 29-35 for details.	$1\frac{1}{4}$ " Core plus facing layers	2'	cut to size	S
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PRODUCT DESCRIPTION	Thickness	Widths	Lengths	Edge
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G-P 1" COREBOARD

1" Gypsum Coreboard is available in two styles. a. A homogenous core with a tongue and grooved joint. b. Two layers of 1/2" backer board, laminated. 1" Gypsum Coreboard is used for the core material in various, all-gypsum partition assemblies.	1"	2'	Custom cut up to 14'	S, T & G
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G-P SOFFIT BOARD

G-P Gypsum Soffit Board is used on exterior soffits where not exposed directly to the weather. It's an inexpensive soffit material for schools, shopping center malls, apartments and houses. It finishes and decorates like interior gypsumboard with no nails or joints showing. It has light blue face paper for identification.	1/2", 5/8"	4'	8'	RE
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G-P FIRE FIGHTER GYPSUMBOARD

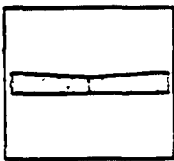
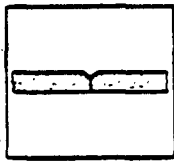
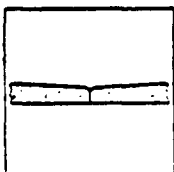
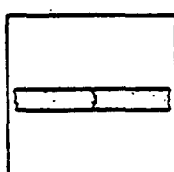
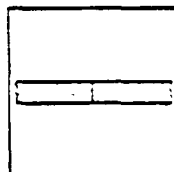
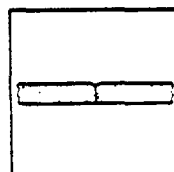
New product designed for use on roofs, over rafters, and under sheathing and roof covering. Tests prove it blocks roof fires from entering attic and living areas. It has a special core and paper.	1/2"	2'	8'	S
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G-P DENS-COTE® GYPSUM BASE

A 4' wide, long length, tapered edge, plain base. For use as a base layer for G-P Dens-Cote® veneer plaster. It has a highly absorbent face with pinholed surface.	3/8", 1/2" 5/8" Reg. and 1/2" and 5/8" Firestop®	4'	8', 10', 12'	T
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G-P DENS-COTE® VENEER PLASTER

One coat and two coat systems give a strong durable finish with maximum speed and minimum material. Apply total thickness of 3/32". Available in smooth or textured finishes. 80 lb. bags.
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TAPERED EDGE:		BEVELED EDGE:	
	The tapered edge was originally called the "recessed edge" but is now commonly called tapered, because of the incline from the edge to about 2" into the board. This taper allows for tape and joint treatment to be applied and the completed job will be flat, smooth and monolithic.		The beveled edge is a suitable edge to give a paneled effect. After fasteners are covered with a compound the board is ready for paint with grooves exposed.
TAPERED w/ROUND EDGE:		"T & G" EDGE:	
	Georgia-Pacific round edge (RE) gypsumboard can be used for wall and ceilings in both new construction and remodeling. It is designed to reduce the beading and ridging problems commonly associated with standard type gypsumboard. This edge formation provides a stronger, more rigid joint and results in a smoother wall surface.		Georgia-Pacific's "tongue and groove" edge is used on 2' wide sheathing and backer boards.
SQUARE EDGE:		MODIFIED BEVELED EDGE:	
	The gypsumboard square edge was the original wallboard edge. Initially designed to be a base with a final covering such as wallpaper, paneling, or tile, square edge can be finished with joint compounds to form a clean monolithic wall suitable for paint. Also can be used where an exposed joint is desired.		The modified beveled edge is available only on Eternawall™ panels. This particular edge more readily accommodates the vinyl surface decoration, which is delivered completely edge wrapped. The vinyl surface material is available in 15 standard patterns and colors and 15 new colors and textures.

JOINT SYSTEM PRODUCTS

G-P Joint System products are designed to conceal joints and nail heads and "surface-weld" gypsumboard panels together. Properly used, these products assure smooth, seam-

less appearance of walls and ceilings, with joints as strong as the gypsumboard itself.

G-P BEDDING COMPOUND

Bedding Compound is designed to provide maximum adhesion of tape to the joints and for initial application to nail heads and corner bead. It spreads smoothly and may be

hand or machine applied. Coverage: 15 lbs. per 1,000 sq. ft. (Used in conjunction with 45 lbs. of Topping Compound.) 25 lb. bags.

G-P TOPPING COMPOUND

G-P Topping Compound is specifically designed for the second and third coats over the bedding compound. Since it is used only for topping, the amount of adhesive can be reduced and other materials incorporated which reduce

the shrinkage and make it easier to sand and work. Coverage is approximately 45 lbs. per 1,000 square feet. Available in 25 lb. bags.

G-P TRIPLE DUTY™ JOINT COMPOUND

G-P Triple Duty Gypsumboard Joint Compound is a vinyl multipurpose joint system product. A single bag offers taping, topping and texturing. It can be used for all coats in the reinforcing and concealing of joints in gypsumboard construction. The binder, a vinyl, gives this product a wet life of 30 to 60 days duration. This allows premixing in large quantities prior to application. Triple Duty can be

applied using standard hand or mechanical tools. There is low shrinkage and it is easily sanded. When the application is completed, the surface is ready for priming and decoration as desired with no further preparation necessary. Coverage: 60 lbs. per 1,000 sq. ft. 25 and 50 lb. bags. Can be used as a Texture. Coverage: 12-50 lbs. per 1,000 sq. ft.

G-P READY MIX JOINT COMPOUND

Ready Mix Joint Compound is an easy-working material for embedding the joint reinforcing tape and the filling and finishing of joints in gypsumboard construction. Furnished in cans and cartons ready to use, this stable, all-purpose compound is also excellent for use in covering nail heads and forming interior and exterior angles. Ready Mix Joint Compound assures a standard mixture for uniform work-

ability throughout the job. It has a long wet life and will not spoil even when the container is left open. Ready Mix Joint Compound produces an excellent surface for any type of decoration. For best results, the surface should be primed before being decorated. Coverage: 5 gal. per 1,000 sq. ft. Package—1 and 5 gal. cans, 4 gal. cartons.

G-P ALL PURPOSE JOINT COMPOUND

G-P All Purpose Joint Compound is used for bedding tape, topping, corner bead, nail spotting and texturing. When taping be sure the compound under the tape, and the first coat over the tape is thoroughly dry before applying the next coat over the joints. When used for texturing, for best re-

sults, apply a vinyl primer to the entire area before texturing. The texture may be applied with a roller, sponge, brush or can be sprayed, depending on the type of configuration desired. Coverage: 60 lbs. per 1,000 sq. ft. 25 lb. bag and packaged 18 lbs. of compound plus 250' roll of tape.

G-P SPEED SET™

G-P Speed Set Joint Compound makes possible the taping and finishing of all gypsumboard joints within a single day. It can be used for all coats. Speed Set is a setting rather than a drying type of compound, and will not shrink. Comes

in two ways—"1 Hour Working Time" and "2 Hour Working Time". For best results, use a primer sealer over surface before painting or texturing. 25 lb. bags.

WALL TEXTURES

G-P Wall Texture is an unaggregated texture compound for hand tool or spray application. When applied with a spray, a splatter or orange peel texture is formed. When applied by hand, a stipple, swirl, or brocade texture can be produced. G-P Wall Texture can be applied immediately after G-P Ceil-

ing overspray wipedown. It is made for fast, volume application. Because of its formulation, G-P Wall Texture matches G-P Ceiling Textures, without overlap discoloration.

Coverage: 12-50 lbs. per 1,000 sq. ft. depending upon texture. 25 Lb. Package.

CEILING TEXTURES

G-P Ceiling Textures are designed for spray application over ceilings constructed with gypsumboard or concrete. The resulting texture simulates acoustical texture finish.

Vermiculite—A 40 lb. bag of this aggregate is available in (3) particle sizes (fine, medium and coarse). An ideal product for concealing surface defects. Coverage: 200-300 sq. ft. per bag. Texture samples available on request.

Polystyrene—A new powder product in a 32 lb. bag. This rich white texture finish has strong adhesion with maximum

coverage and excellent hiding qualities. The beads of this very rough texture retain their size and shape during mechanical mixing. Coverage: 200-300 sq. ft. per bag.

Especially designed for volume operations, these products give unsurpassed economy. The texture dries harder and tighter. The texture maintains a high quality white decorative finish, and gives exceptional coverage if used as instructed.

G-P GRABIT™

G-P Grabit is an adhesive which permits direct attachment of gypsumboard to masonry walls. It may be used on poured concrete, cinder block or concrete block walls which are reasonably straight and true and are free from surface treatment, decorations, or protrusions. Grabit may be used on exterior walls which are above grade level without waterproofing. Grabit can be used to adhere gypsumboard to polystyrene insulation material.

Adhesion is secure and permanent, with no need for furring strips or fasteners. After being mixed with water as directed,

Grabit can be applied with blade or caulking gun. Only four 1" ribbons are needed for each 4' wide gypsumboard panel. The adhesive fills in all normal irregularities in the masonry. In 3 to 4 hours, Grabit sets hard, and joint taping and finishing operations may then be started. This adhesive may be used wherever there is need to attach gypsumboard to masonry walls: in homes, apartments, hotels, offices, and plants. Coverage: Up to 1/4 lb. per sq. ft. depending on roughness of base surface. 50 Lb. Package.

G-P GYPSUMBOARD TAPE

G-P Tape is a full 2" width, "Miracle Crease" spark perforated tape with skived edges and sanded surface both

sides. Excellent bonding qualities. Stabilized against shrinkage and movement.

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