

INTERDEPARTMENTAL COMMUNICATION

DATE: June 15, 1972

TO: All Gypsum Managers (see below)

LOCATION:

FROM: T. R. Godfrey

LOCATION: Portland

SUBJECT: C.S.I. SPEC-DATA PROGRAM

PLAINTIFF'S EXHIBIT

GP-1090

|     |                    |                    |
|-----|--------------------|--------------------|
| To: | Mr. L. H. Kaboos   | Landover           |
|     | Mr. K. E. Raybuck  | Detroit            |
|     | Mr. R. C. Hartman  | Wilmington Del Gyp |
|     | Mr. E. G. Reynolds | Seattle            |
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|     | Mr. W. D. Brooks   | Carrollton         |
|     | Mr. H. F. Umbreit  | City of Industry   |

THIS COPY FOR

The Construction Specifications Institute (CSI) has had a program of simplifying spec writing, and making it easier for specification writers to find references to products and manufacturers.

Consequently, several years ago the Spec-Data Sheet program was initiated. It gives spec writers, architects, engineers and consultants a standardized, central source of product information filed within their own offices. The regular system of file numbers is used, most of our products being in File 9 (finishes).

The CSI program does not supercede the Sweet's Catalog, but supplements it. We have found that so many architectural offices refer to the CSI Spec-Data to see what products are available that Georgia-Pacific should participate. Attached are copies of our Sheets for 1/4" Sound Deadening Board and Eternawall. One for the Shaft Liner System is in the works. Most architectural and engineering offices have at least one person as a CSI member. Each member automatically receives a copy of these Sheets for his file. Extra copies are available from Portland.

TRG/mf  
encl.

T.R.G.

CC: Mr. G. F. Baitinger - Portland  
Mr. G. S. Nelson - Portland

SGP 0025521

## 1. PRODUCT NAME

Gypsumboard sound isolation panel systems  
**1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD.**

## 2. MANUFACTURER

Georgia-Pacific Corporation  
 Gypsum Division  
 900 S.W. Fifth Avenue  
 Portland, Oregon 97204  
 Phone: (503) 222-5561

## 3. PRODUCT DESCRIPTION

**Basic Uses:** Gypsumboard panel as an inner layer sound transmission control component for wood and steel stud partitions of both load bearing and non-load bearing types and for wood joist floor/ceiling assembly.

G-P 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD is designed for use in interior gypsum drywall assemblies requiring a high sound transmission class (STC) or, in addition, fire resistance ratings.

Assemblies utilizing such panels offer the following advantages:

Savings of space, compared with thickness of assemblies with other types of sound isolation boards;

Economic, low first cost construction, with easy handling and fast erection;

High strength to resist abuse during handling and in-place.

Joint treatment not required for panels to achieve sound and fire ratings as conducted by independent acoustical laboratories and as indicated herein.

**Limitations:** Sound tests on assemblies by independent acoustical laboratories and with ratings as indicated herein were conducted under stabilized laboratory conditions. Because the manufacturer has no prior knowledge of specific conditions such as design, general construction, field erection methods, etc. for a particular building project, no warranty of field performance may be made. Use care to follow recommended procedures in avoidance of sound transmission through leaks (flanking paths, penetrations, etc.). Caulk perimeters, using good quality sealant.

Do not use panels in areas where sustained high humidity or direct weather wetting conditions occur.

**Composition and Materials:** G-P 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD consists of a solid incombustible gypsum core, specially formulated for the uses intended, with a distinctive green face paper.

To mechanically fasten panels to metal studs of partitions as well as to wood construction, power driven self-tapping G-P DRYWALL SCREWS are recommended. G-P DRYWALL NAILS may be used for securing panels to partition studs or floor/ceiling joists of wood.

Facing layer for exposed sides of such gypsum drywall assemblies may be of several types and thicknesses of fire resistance rated and U.L. Labeled gypsumboard. G-P REGULAR WALLBOARD may be used in

equivalent thickness where no fire ratings are involved. Such gypsumboard is available either paper faced and suitable for a painted finish, G-P FIRESTOP® WALLBOARD, or vinyl surfaced (integral finish) G-P FIRESTOP® ETERNAWALL™. Facing layer and finish may also be of veneer plaster type base and finish, G-P DENS-COTE® BASE and DENS-COTE PLASTER; see manufacturer's separate detailed literature for Dens-Cote plastering Systems.

Use G-P ADHESIVE or JOINT SYSTEM PRODUCTS for laminating of facing layers to sound isolation board. For taping and finishing of exposed gypsumboard joints and fasteners, use G-P joint system products. Consult the manufacturer's representative for types of caulking and gasketing to be used to prevent sound leaks at perimeters, penetrations, flanking paths, etc.

Where required for a specific STC assembly, batts or blankets of fiberglass type insulation are recommended for fitting between partition studs, either unfaced (and available with the U.L. Label for Class A fire resistance rating) or kraft paper faced one side as a vapor barrier (and generally suitable for use on wood frame construction).

For metal framing components, use 25 gauge electro-galvanized steel meeting ASTM designation C-645-70.

**Sizes and Shapes:** See Table 1.

TABLE 1

| Item                                               | Thickness                                                        | Width                                 | Length                                                                                                                           | Edge (on length)                                                                    |
|----------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GP 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD | 1/4" (6 mm)                                                      | 4' (1.22 m)                           | 8' (2.44 m)                                                                                                                      | Square                                                                              |
| G-P FIRESTOP® OR REGULAR WALLBOARD                 | 1/2" (13 mm)<br>5/8" (16 mm)                                     | 4' (1.22 m)                           | 6 to 16', in 1' increments (1.83 to 4.88 m in 0.3 m increments)                                                                  | Tapered, Square, Beveled, and Tapered with Round Edge                               |
| G-P FIRESTOP® OR REGULAR ETERNAWALL                | 1/2" (13 mm) or 5/8" (16 mm)                                     | 4' (1.22 m)                           | 8' and 10' (up to 16', in 1' increments, on special order) (2.44 m and 3.04 m up to 4.88 m in 0.3 m increments on special order) | Modified Bevel (VEE), except SMOOTH SURFACE SYSTEM has special edge with vinyl flap |
| Insulation                                         | Not less than 1 1/2" (38 mm) or 2" (51 mm) (per tested assembly) | 16" and 24" nominal (406 mm & 610 mm) | In batts or blankets, generally 8' (2.44 m)                                                                                      | Square, with kraft paper flap on faced type                                         |

**Applicable Standards:** Gypsum-board Sound Isolation Panel: Conforms to ASTM Standard C 442-67 and Federal Specification SS-L-30c, Type IV, Grade R.

**Gypsum Wallboard:** Conforms to ASTM Standard C 36-70 and Federal Specification SS-L-30c Type III, Grade X.

**Joint System Products:** Conform to ASTM Standard C 475-64 and Federal Specification SS-J-570a.

**Mineral Fiber Insulation:** Conforms to Federal Specification HH-1-521d, Type I (unfaced) and Type II (kraft paper faced).

**Metal for Framing Components:** Conforms to ASTM Standard C 645-70.

#### 4. TECHNICAL DATA

**Sound Control Ratings:** See Table 2. Sound Transmission Class (STC) ratings as shown for various wood and metal stud partition assemblies and for wood joist floor/ceiling assembly (latter has impact noise rating, INR, of +25) when using 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD. Such ratings are based on tests by an independent acoustical laboratory, when tested in accordance with ASTM E 90-61T and

ASTM E 90-66T. All test reports are available upon request.

**Fire Resistance Ratings:** See Table 2. Ratings for 1 hour are available for various partition assemblies and floor/ceiling assembly listed. They are either estimated (and based on tests by independent testing laboratories per ASTM Standard E 119-61 and seq., indicated below by "Est." designation) or based on tests by Underwriters' Laboratories' Laboratories (see U.L. Building Materials List. Latest Edition and indicated below by "U" designation). All test reports are available upon request.

TABLE 2

| Assembly Framing         | G-P Assembly No. | Assembly Description                                                                                                                | STC Rating                     | Test Refer. | Fire Rating   | Test Refer.         | Install. Det. Fig. |
|--------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------|---------------|---------------------|--------------------|
| Wood Stud Partitions     | 100              | Single 2x4s @ 16" o.c.; 1/2" FIRESTOP® / 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD, both sides.                               | 45                             | BW-27 FT    | 1 Hr. Comb.   | U 312 (was U.L. 30) | 1                  |
|                          | 102              | Single 2x4s @ 16" o.c.; 5/8" FIRESTOP® / 1/4" GYPSUM S.D.B., both sides.                                                            | 47                             | BW-28 FT    | 1 Hr. Comb.   | U 312 (was U.L. 30) | —                  |
|                          | 104              | Staggered 2x4s @ 8" o.c.; 1/2" FIRESTOP® / 1/4" GYPSUM S.D.B., both sides.                                                          | 47                             | BW-29 ST    | 1 Hr. Comb.   | Est.                | 2                  |
|                          | 104              | Same as No. 104 above, except with 1 1/2" faced insulation in stud cavity.                                                          | 52                             | BW-30 ST    | 1 Hr. Comb.   | Est.                | —                  |
|                          | 108              | Double 2x4s @ 16" o.c., spaced; 1/2" FIRESTOP® / 1/4" GYPSUM S.D.B. both sides.                                                     | 50                             | BW-31 ST    | 1 Hr. Comb.   | Est.                | —                  |
|                          | 108              | Same as No. 108 above, except with 1 1/2" faced insulation between studs on 1 row.                                                  | 55                             | BW-32 ST    | 1 Hr. Comb.   | Est.                | 3                  |
|                          | 106              | Single 2x4s @ 16" o.c.; 5/8" FIRESTOP® / 1/4" GYPSUM S.D.B., both sides, with 1 1/2" faced insulation in stud cavity.               | 50                             | BW-35 ST    | 1 Hr. Comb.   | U 312 (was U.L. 30) | 4                  |
| Metal Stud Partitions    | 304              | Single 2 1/2" metal studs @ 24" o.c.; 1/2" FIRESTOP® / 1/4" GYPSUM S.D.B. both sides.                                               | 45                             | BW-16 ST    | 1 Hr. Comb.   | U 410 (was U.L. 32) | 5                  |
|                          | 306              | Same as No. 304 above, except with 2" unfaced insulation between studs.                                                             | 50                             | BW-17 FT    | 1 Hr. Incomb. | U 410 (was U.L. 32) | —                  |
|                          | 308              | Same as No. 306 above, except with 5/8" FIRESTOP® facing both sides.                                                                | 54                             | BW-18 FT    | 1 Hr. Incomb. | U 410 (was U.L. 32) | 6                  |
|                          | 326              | Double 1 5/8" studs @ 24" o.c., spaced; 1/2" FIRESTOP® / 1/4" GYPSUM S.D.B., both sides                                             | 47                             | BW-33 ST    | 1 Hr. Incomb. | Est.                | —                  |
|                          | 326              | Same as No. 326 above, except with 1 1/2" unfaced insulation between studs on 1 row.                                                | 52                             | BW-34 ST    | 1 Hr. Incomb. | Est.                | 7                  |
| Wood Joist Floor/Ceiling | 400              | Joists, 2x10s @ 16" o.c.; floor of 5/8" plywood, 1/2" particleboard, carpet and pad; ceiling of 1/2" FIRESTOP® / 1/4" GYPSUM S.D.B. | STC 41<br>INR + 25<br>IIC + 75 | BW-2 MT     | 1 Hr. Comb.   | Est.                | 8                  |

## 5. INSTALLATION

**Preparatory Work:** Include the following:

Store gypsumboard so as to prevent damage and exposure to the elements.

Maintain in-building temperatures during joint finishing and adhesives work in cold weather at not less than 50° F, with adequate ventilation to dispose of excessive moisture.

Methods: Consult with manufacturer's detailed literature, "Gypsum Wallboard for Wall and Ceiling Systems" and "Sounds Great" (SBD-5), or to ANSI A97.1, American National Standards Institute Standard Specifications for the Application and Finishing of Gypsum Wallboard for more detailed specifications on installation procedures for various partition and floor/ceiling assemblies incorporating 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD. Caulk and gasket assembly thoroughly to prevent leaks. Avoid back-to-back mounting of electrical and plumbing outlets, etc.

Install gypsumboard inner and facing layers on partition framing vertically. Stagger joints on opposite sides of framing for both sound isolation panels and for facing layers. Vertical joints of facing layers should fall between studs. For best sound barrier, strip laminate facing layer to inner layer with beads of G-P LAMINATING COMPOUND or G-P DRY-WALL ADHESIVE at 16-inch spacings. Secure top and bottom of facing panels on partitions to top and bottom plates or runner tracks with suitable mechanical fasteners. Finish exposed joints and fasteners for paper faced gypsumboard per manufacturer's recommendations, in preparation for final finish of paint or other such coatings.

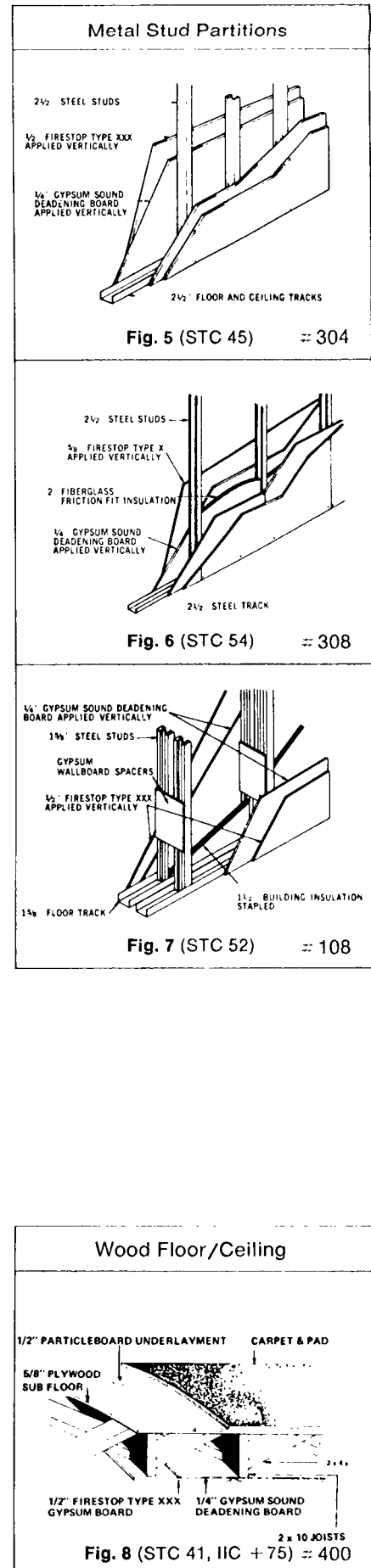
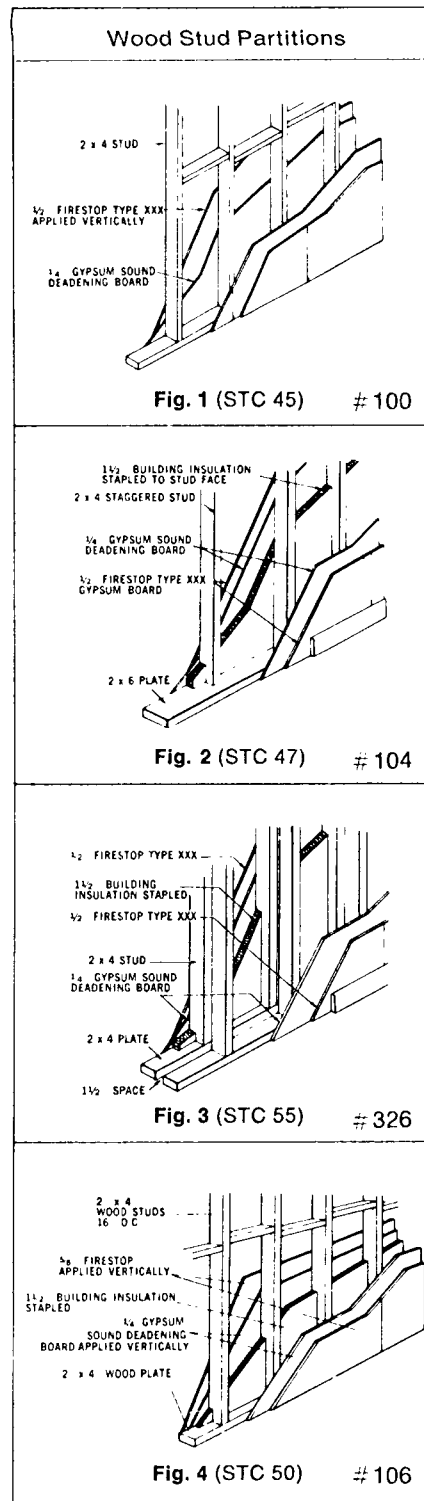
Install batt or blanket insulation between studs at assemblies where required to a tight friction fit; staple paper flaps of faced material at framing members.

To achieve listed STC and INR ratings for floor/ceiling assembly, use not less than 40 oz. weight carpet pad and 44 oz. carpet.

See Table 2 and Installation Details, Figures 1 through 8, herein for general procedures. Installation Details are typical and not intended to be a complete list of all assemblies tested by the manufacturer.

**Building Codes:** Various partition and floor/ceiling assemblies incorporating 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD have received approval of ICBO, SBCC, and BOCA, as well as many local building code authorities.

## INSTALLATION DETAILS



## 6. AVAILABILITY AND COSTS

**Availability:** 1/4" INCOMBUSTIBLE GYPSUM SOUND DEADENING BOARD systems components are marketed throughout the U.S.A. Consult with manufacturer for minimum quantities required and anticipated lead time necessary to supply special order materials.

**Costs:** Information can be obtained from Georgia-Pacific Gypsum Division district sales offices or 108 local distribution centers.

## 7. GUARANTEE

Georgia-Pacific Corporation guarantees that its products described herein are of merchantable quality, and states that its liability under this guarantee is limited, at the option of Georgia-Pacific Corporation, to one of the following: (1) repairing the defective product, (2) delivering to the purchaser (but not installing) a replacement product, or (3) refunding the purchase price.

This guarantee constitutes the sole liability of Georgia-Pacific Corporation relating to the products described herein and is in lieu of all other warranties, express or implied, in law or in fact, including the warranty of fitness for a particular use or purpose. This guarantee shall not be enlarged or extended by sales representatives of or by printed sales information, brochures or drawings supplied by Georgia-Pacific Corporation.

Georgia-Pacific Corporation reserves the right to make any changes in its material or product specifications which it may, from time to time, deem necessary.

## 8. MAINTENANCE

No special care required.

## 9. TECHNICAL SERVICES

For specific technical assistance, contact the manufacturer at the above address or a representative at one of the district sales offices or local distribution centers. See the Yellow pages of your telephone book.

## 10. FILING SYSTEMS

### SPEC-DATA® II

Sweet's Architectural Files

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Additional product information available upon request.

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Landover, Md.—301/773-3320

# Georgia-Pacific Corporation

GYPSUM DIVISION

900 S.W. Fifth Ave., Portland, Oregon 97204



SGP 0025525

## 1. PRODUCT NAME

Vinyl surfaced gypsumboard  
ETERNAWALL™.

## 2. MANUFACTURER

Georgia-Pacific Corporation  
Gypsum Division  
900 S.W. Fifth Avenue  
Portland, Oregon 97204  
Phone: (503) 222-5561

## 3. PRODUCT DESCRIPTION

**Basic Uses:** Vinyl surfaced gypsumboard is used as exposed fire resistant wallboard panels for interior partitions and walls in commercial or institutional buildings, as well as in residences. Particularly adaptable to high traffic areas.

ETERNAWALL is suitable for use on new or existing partitions of either fixed or demountable types having wood or metal framing or furring, or it can be directly applied to masonry walls.

The panels are resistant to hard wear, such as abrasion, staining and soiling and may, with few exceptions, be readily scrubbed clean without damage. The vinyl colors are fade resistant.

**Limitations:** Do not use panels where sustained high humidity or direct weather wetting conditions occur.

**Composition and Materials:** ETERNAWALL is fabricated of vinyl film surfacing, factory laminated to the exposed finish side and wrapped around the long edges of gypsumboard backing. The gypsumboard, paper faced both sides, has a solid incombustible gypsum core.

To avoid appearance of mechanical fasteners, G-P DRYWALL ADHESIVE may be used to secure ETERNAWALL to partition framing or wall furring. G-P LAMINATING COMPOUND or adhesive is recommended as adhesive for direct application of the panels to existing partitions or to G-P ¼" GYPSUM SOUND DEADENING BOARD, where used in sound control partitions. Use G-P GRABIT MASONRY ADHESIVE for direct application of ETERNAWALL to masonry walls. G-P SPEED-SET JOINT COMPOUND is recommended for joint fill coats and wheat paste or

latex based adhesives, such as COLUMBUS COATED FABRICS #FC-200 and #FC-100 respectively, for securing vinyl edge flaps when finishing joints of G-P's SMOOTH SURFACE SYSTEM type panels.

To mechanically fasten panels to partition framing or furring, G-P DRYWALL SCREWS and NAILS are recommended. Color coated nails are available to match the standard line of vinyl film colors for use on non-fire resistance rated partition assemblies. Power driven self-tapping screws may be used where appearance is not of concern or to secure panels to metal.

Snap-on trim of two-piece vinyl covered moldings, with flat or angle profile, may be used to conceal vertical joints at partition field, termination or corner locations. Vinyl patterns and colors are available from the standard line of ETERNAWALL finishes. Battens are available where exposed nails or screws may be considered unsightly.

**Grades:** Two grades are readily available:

REGULAR ETERNAWALL is fabricated with gypsumboard having a regular or plain solid gypsum core.

FIRESTOP® ETERNAWALL™ is fire resistance rated for various partition assemblies and bears the U.L. Label. The gypsumboard sub-strate has a technically designed gypsum core, with unexpanded vermiculite and glass fibers added.

**Types:** Two types are readily available, in either grade:

● STANDARD panels, used with or without snap-on trim.

● SMOOTH SURFACE SYSTEM panels, designed to achieve a monolithic appearance with smooth, flush joints.

## Sizes and Shapes:

**Thickness:** ½ inch (13 mm) standard for REGULAR grade; ¾ inch (10 mm) and ⅝ inch (16 mm) readily available on special order. ½ inch and ⅝ inch standard for FIRESTOP grade.

**Widths:** 4 feet (1.22 m) standard (and maximum), with lesser widths readily available on special order for STANDARD type, both grades.

**Lengths:** 8 feet (2.44 m) and 10 feet (3.04 m) standard for both types and both grades of wallboard panels and for snap-on trim. Other lengths from 7 feet to 16 feet (2.13 to 4.88 m) are also available on special order, most readily in 1 foot increments.

**Edges:** STANDARD type panel has modified bevel (vee) profile on each long edge. SMOOTH SURFACE SYSTEM panel has a round-edge profile with vinyl surface flap on each long edge.

**Finishes:** Vinyl surfacing for panel finish in the manufacturer's standard line is unbacked film of 6 mil thickness. A variety of textures and printed textures, patterns and colors are offered.

A wide range of other textures, patterns and colors of vinyl film, with or without fabric backing and in varying thicknesses, are also available on special order.

Slight texture and color differences may occur between panels not obtained from the same production run of vinyl. At locations where this may be a problem, use care in the selection of adjacent panels.

## Applicable Standards:

**Gypsumboard Backing.** Conforms to ASTM Standard C 36-70 and Federal Specification SS-L-30c, Type III;

TABLE 1

| Classifications                           | Rating                           |                                                      |
|-------------------------------------------|----------------------------------|------------------------------------------------------|
|                                           | Gypsumboard without Vinyl Facing | Vinyl Surfaced ETERNAWALL (supported or unsupported) |
| Tested per ASTM E-84 "Tunnel Test" Method |                                  |                                                      |
| Flame Spread                              | 15                               | 25                                                   |
| Fuel Contributed                          | 15                               | 10                                                   |
| Smoke Developed                           | 0                                | 20-50                                                |

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Grade R for G-P REGULAR panel and Grade X for G-P FIRESTOP panels.

*Vinyl Finish:* Conforms to Federal Specification CCC-W-408, for manufacturer's standard line.

#### 4. TECHNICAL DATA

**Fire Hazard Classification:** Conforms to U.L. Standard 723 when  $\frac{1}{4}$ ",  $\frac{1}{2}$ ",  $\frac{3}{8}$ " and  $\frac{5}{8}$ " thick wallboard panels, both grades, were tested with and without vinyl surfacing on one side, as published in the U.L. 1972 Building Materials List. See Table 1. Vinyl Film is either supported or unsupported.

**Fire Resistance Ratings:** Ratings up to 2 hours are available for various partition assemblies, based on tests by Underwriters' Laboratories (see U.L. Latest Edition, Fire Resistance Index) and other independent laboratories. All test reports are available upon request.

**Sound Control Ratings:** Sound Transmission Class (STC) ratings of up to 55 are available for various partition assemblies, when ETERNAWALL used in conjunction with G-P  $\frac{1}{4}$ " GYPSUM SOUND DEADENING BOARD, and based on tests by independent acoustical laboratories. All test reports are available upon request.

#### 5. INSTALLATION

**Preparatory Work:** For best results, pre-bow a stack of panels by laying face up overnight with 2x4 supports at each end.

##### **Methods:**

**General:** Install panels vertically on partitions or walls. Except where a fire resistive rated assembly is required which specifically precludes such use, beads of adhesive may be used to secure panels to partition framing or wall furring, to existing partition surfaces, to G-P  $\frac{1}{4}$ " GYPSUM SOUND DEADENING BOARD, or to masonry walls. Secure top and bottom of panels with screws or nails, as appropriate to the framing, or brace in place until adhesive is set. Consult with manufacturer's representative or refer to manufacturer's detailed literature, Gypsum Wallboard for Wall and Ceiling Systems and/or ETERNAWALL Smooth Surface System for more detailed specifications on installation procedures for both types of ETERNAWALL.

**STANDARD Type Panel:** Snap-on trim is available to conceal vertical panel joints for this panel type. Back piece of trim may be screwed, nailed or adhered in place. When trim is deleted, adhesive method of panel installation is recommended.

**SMOOTH SURFACE SYSTEM**  
*Type Panel:* See Figures 1 through 8 of Installation Details.

#### SMOOTH SURFACE SYSTEM INSTALLATION DETAILS

Lay vinyl flaps of vertical edge back (do not crease), using masking tape. Nail or screw edges as required.

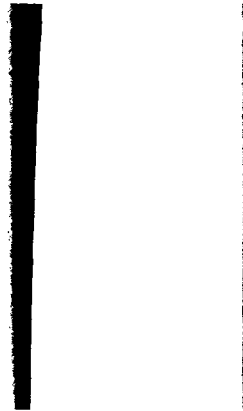


Figure 1



Figure 2

Fill tapered width of joint with joint fill compound. Tape is not required. After set of fill coat, apply a light finish coat of the compound to joint.

After final coat of compound has set (it does not have to be dry), apply paste to the joint and back of the vinyl flap.



Figure 3

Lay one flap over and smooth down with broad knife. Repeat with second flap. Squeeze out excess adhesive from under flaps, making sure no lumps remain. Use care not to stretch vinyl when smoothing with knife.



Figure 4

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Figure 5

Using a sharp knife and straight edge, cut through both layers of vinyl at least 1 inch from panel joint.

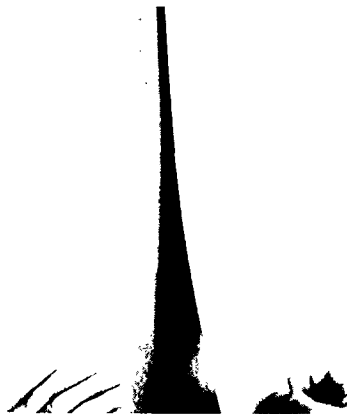


Figure 6

Remove the excess exposed flap.



Figure 7

Pull back the top flap and remove the excess of the underneath flap.



Figure 8

Smooth the vinyl down over the joint area with a broad knife. The joint is now complete. A roller may be used as an additional final step.

**Building Codes:** Various partition assemblies incorporating ETERNA-WALL panels have received approval of ICBO, SBCC and BOCA, as well as many local building code authorities.

## 6. AVAILABILITY AND COSTS

**Availability:** ETERNAWALL is marketed throughout the U.S.A. Consult with manufacturer for minimum quantities required and anticipated lead time necessary to supply special order materials.

**Costs:** Information can be obtained from Georgia-Pacific Gypsum Division sales offices or local distribution centers.

## 7. GUARANTEE

Georgia-Pacific Corporation guarantees that its products described herein are of merchantable quality, and states that its liability under this guarantee is limited, at the option of Georgia-Pacific Corporation, to one of the following: (1) repairing the defective product, (2) delivering to the purchaser (but not installing) a replacement product, or (3) refunding the purchase price.

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Georgia-Pacific Corporation reserves the right to make any changes in its material or product specifications which it may, from time to time, deem necessary.

## 8. MAINTENANCE

The manufacturer recommends using mild soap or detergent and water with soft cloth or sponge to remove most stains and soil from vinyl surfacing. Clean as soon as possible after staining. Do not use strong solvents as they may cause damage. Should unusual stain or soiling conditions exist, consult manufacturer.

## 9. TECHNICAL SERVICES

For specific technical assistance, contact the manufacturer at the above address or a representative at one of the district sales offices or local distribution centers. *See the yellow pages of your telephone book.*

## 10. FILING SYSTEMS

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**Georgia-Pacific Corporation**

GYPSUM DIVISION

900 S W. Fifth Ave. Portland, Oregon 97204



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