

## **G-P Gypsum Corporation – Leading With Innovation**

G-P Gypsum Corporation, a subsidiary of Georgia-Pacific Corporation, has been at the leading edge of innovation in the gypsum industry since the acquisition of Bestwall Gypsum Company in 1965. Some G-P firsts include: Fireguard®, the first Type X gypsum board; One-Day Joint Compound (now Speed Set®), the first setting type joint compound; and the first gypsum core and edge components for 1 and 1-1/2 hour firedoors. These innovations were followed by the introductions of Dens-Glass®, the first and ONLY glass-mat gypsum sheathing, Dens-Shield® tile backer and Dens-Deck® Gypsum Roof Board. With their patented treated core and glass facing, Dens products are much more resistant to water and moisture than conventional paper-faced products.

G-P Gypsum's commitment to innovation continues with the diverse application properties of the Dens-Glass Gold Sheathing. Dens-Glass Gold features the benefits of an alkaline-resistant surface coating that can be used with cementitious EIFS adhesives. Its resistance to delamination or deterioration eliminates the need for building felt in brick applications and its strength holds up longer in soffits. Another version, Dens-Glass Gold Fireguard is UL classified.

Dens-Shield tile backer, for wall, ceiling, countertops and residential and light commercial floor applications, now is covered by a 20-year limited warranty\*.

G-P Gypsum is one of the nation's leading producers of gypsum products with twenty gypsum board plants, five joint compound plants, two plaster plants, two firedoor core plants and four plants that produce paper for gypsum board.

This electronic program features G-P Gypsum's full line of GyProc and Dens products. It also features in-depth descriptions of assemblies that have been tested for fire-resistance and sound isolation. For further assistance contact the **G-P Gypsum technical hotline: 1-800-225-6119**.

## **Product Selection Guide – G-P Gypsum Products**

### **GyProc® Gypsum Board**

GyProc® Gypsum Board is faced with a cream paper which will accommodate a wide range of decorative treatments. A gray paper is used on the backside of the board. The 1/2" and 5/8" thick tapered or round edge board is recommended for single layer application in new construction. When exposed joints are specified, square edges or bevel edges are available. Joints are reinforced with G-P Gypsum Joint System products to provide a smooth, seamless surface. Fire-resistance and sound isolation properties are dependent upon the type and thickness of the gypsum board, the number of layers and the manner in which they are installed. G-P GyProc Products are manufactured to meet ASTM C 36, SS-L-30d Type III Grade R and CSW A82.27M standard.

### **Dens-Glass® Gold Gypsum Sheathing**

Dens-Glass Gold gypsum sheathing has a water-resistant, treated core reinforced by glass mats front and back. It is recommended for direct mechanical attachment to structural framing as a single-ply backing for exterior surfacing, with wall covering materials, soffits or exterior ceilings. This inorganic surfaced product is especially designed for adhesive application of expanded polystyrene for exterior insulation systems. Direct application of exterior finish systems is also popular in areas recognized by model code, G-P Gypsum and exterior finish manufacturing.

G-P Gypsum 5/8" Dens-Glass Gold Fireguard provides 1-hour fire rating and is UL classified.

Dens-Glass Gold products have surface burning characteristics of 0 flame spread and 0 smoke developed in E 84 tunnel test.

Dens-Glass Gold sheathing is manufactured to meet ASTM C 1177.

G-P Gypsum offers a limited warranty for exposure to normal weather conditions for up to six months and against manufacturing defects for 5 years.\*

### **Dens-Deck® Gypsum Roof Board**

Dens-Deck Roof Board has a non structural, treated, water-resistant gypsum core embedded into glass mats, front and back. 1/2" Dens-Deck or 5/8" Dens-Deck Fireguard® may be used on commercial roof assemblies and have met the requirements of FM 4450 for thermal and wind uplift characteristics. 1/4" Dens-Deck overlayment is ideal for providing fire protection in both UL Class A and UL 1256 systems. In addition, 1/4" and 5/8" Dens-Deck are approved for use in the Canadian market. 1/2" and 5/8" Dens-Deck adhesively applied achieved 90 psf wind uplift in FM test evaluation. 1/4" Dens-Deck provides 60 psf and 90 psf FM ratings in many systems. Dens-Deck is manufactured to conform to ASTM C 1177. Dens-Deck is noncombustible per ASTM E 136.

### **Dens-Shield® Tile Backer**

Dens-Shield® tile backer is designed to provide water-resistance, strength and ease of handling. Dens-Shield has an exclusive water-resistant coating and a treated core with embedded front and back by inorganic glass mats. This superior product is comparable in weight to conventional gypsum, over 33 percent lighter than Portland cement board. Installation is also quicker and easier. Dens-Shield can be scored and snapped like conventional gypsum board and requires no special cutting tools or fasteners. The product when tested in conformance with ASTM E 96 for water vapor transmission achieves <1.2 perms. Dens-Shield tile backer carries a 20 year limited warranty.\* Available in 1/2" or 5/8" Type X thicknesses. Dens-Shield tile backer is manufactured to meet ASTM C 1178. 1/4" Dens-Shield flooring underlayment is available in 4' x 4' panels and is rated for residential and light commercial use under ceramic tile. The light-weight of this durable underlayment facilitates installations and the 1/4" thickness allows easy transition between floor finishes.

### **Fireguard® Gypsum Board**

Fire ratings of from 45 minutes to 3 hours are available with GyProc Fireguard 1/2", 1/2" GyProc Fireguard C and 5/8" GyProc Fireguard and 5/8" GyProc Fireguard C used with wood or steel framing in various wall, floor and ceiling assemblies as well as for steel column and beam protection. When used on both sides of a load-bearing wood stud partition, this assembly with 5/8" GyProc Fireguard gypsum board has 1-hour fire rating while 1/2" GyProc Fireguard C will provide a 45-minute assembly rating. GyProc Fireguard C exceeds performance of GyProc Fireguard and provides additional fire rating for commercial applications. GyProc Fireguard C exceeds performance of GyProc Fireguard required in specific assemblies for commercial applications, typically those requiring 2- or 3-hour fire-resistance rating. A specifically formulated core including glass fibers enables the Fireguard to remain intact during a fire thereby helping to protect the framing members and preventing or delaying the spread of fire from one area to another. GyProc Fireguard gypsum board are manufactured to meet the ASTM C 36 for Type X gypsum wallboard. GyProc Fireguard is also classified under UL R 2717, and has been tested under rigorous fire endurance testing in accordance with ASTM E 119.

## **Moisture-Guard® Tile Backer Board**

This gypsum board, identified by a green face paper, has a water-resistant core intended for use as a backing for ceramic, plastic or metal tile in tub, bathroom, or shower areas.

Moisture-Guard® is not recommended for continuous high moisture or wet areas. (For high-moisture wall and ceiling applications, Dens-Shield® Tile Backer is recommended.) Moisture-Guard contains a water-resistant additive in its core. For ceilings exposed or covered by tile in dry environments with only intermittent high moisture conditions, GyProc® regular gypsum board may be used. Leave 1/4" between the edge of the Moisture-Guard and the lip of the tub or shower base. Moisture-Guard is manufactured to meet ASTM C 630. See decorating caution under Fireguard Moisture-Guard below.

## **Fireguard® Moisture-Guard® Tile Backer**

Same as regular Moisture-Guard except with fire-resistant Type X core containing glass fibers. The 1/2" and 5/8" Fireguard Moisture-Guard provide the same fire protection over wood studs as 1/2" and 5/8" Fireguard. (Type X) Fireguard Moisture-Guard Tile Backer is manufactured to meet ASTM C 630 and is UL classified.

**Caution:** If Fireguard Moisture-Guard is to be painted, it should always be primed with a primer/sealer, or a pigmented varnish primer-sealer prior to receiving wallpaper.

## **GyProc® Gypsum Sheathing-Treated Core**

GyProc® Gypsum Sheathing-Treated Core contains a water-resistant additive in the core and features a water-repellent surface on the paper. GyProc Sheathing with eliminates the need for building paper, except where required by building codes. GyProc Sheathing is manufactured to meet ASTM C 79.

A 5/8" GyProc Fireguard® Sheathing is available which, when combined with 5/8" GyProc Fireguard on the inside, provides a fire rating of 1-hour. Refer to installation details within GA 253 for application of gypsum sheathings.

Caution: Any siding, plywood, foam insulation or other exterior cladding applied over the sheathing should be mechanically attached through the sheathing and into the framing. Sheathing is not recommended for ceilings.

## **Fireguard® Shaft Liner™ Panels**

Panels are 1" thick with a Type X core. Edges are beveled to facilitate fit into metal components. Single 1" thick, 23-7/8" wide panels are provided. Fireguard Shaft Liner panels are manufactured to meet ASTM C 442. Lengths -- 8 through 14': Warnock Hersey classified for 2-hour shaft wall designs.

## **GyProc® Sound Deadening Board**

When used in conjunction with either 1/2" or 5/8" GyProc® Fireguard®, GyProc 1/4" Gypsum Sound Deadening Board will meet requirements for sound and fire-resistance. GyProc 1/4" Sound Deadening Board is noncombustible, easy to apply and adds structural integrity. In UL Designs U312 and U410, one layer of 1/2" Fireguard over 1 layer of 1/4" GyProc Sound Deadening Board on each side of wood or metal studs will provide 1-hour fire protection and 45 to 50 STC sound isolation.

### **Fireguard® Exterior Soffit Board**

GyProc® Fireguard® Soffit Board is a special paper and core formulated, noncombustible gypsum board developed for exterior use in outdoor building soffits, carports, ceilings of outdoor shopping malls and other applications in soffits where there is no direct exposure to weather. GyProc Fireguard Soffit Board has a special water-resistant, green colored face paper bonded to a reinforced core. Edges are tapered. Apply good quality alkyd exterior primer/sealer and finishing paint.

GyProc Fireguard Soffit Board is manufactured to meet ASTM C 931 and is available with a Type X core in the 5/8" thickness.

### **PreDec® Blanks for Mobile Homes**

Pre-Dec® Blanks are designed to receive a decorative finish by others for use in manufactured housing. UL and TPI classified.

### **Cameo® Veneer Plaster Base**

1/2" Cameo® Plaster Base is 4' wide and has a high-suction face paper. It is used in conjunction with one- or two-coat Cameo Veneer Plaster. Cameo Plaster Base is also available as Fireguard Veneer Base. It has the same fire ratings as Fireguard, Type X gypsum board and is UL classified.

### **CD® Ceiling Board**

1/2" CD® Ceiling Board is a special core and paper formulated ceiling board designed to be sag resistant with water-based, textured applications.

\*See complete warranty copy available from G-P Gypsum for terms, conditions & limitations.