



5/8" Fireguard®

## Paperless DensGuard™ Protection

### Manufacturer

G-P Gypsum Corporation  
55 Park Place  
Atlanta, GA 30303  
Technical Hotline: 1-800-225-6119  
8 a.m. - 6 p.m. Monday-Friday (ET)  
www.gpgypsum.com

### Description

DensArmor™ Plus Fireguard® Interior Guard is a patented interior panel that consists of a moisture-resistant, non-combustible gypsum core with coated glass mat facings. The glass mat facings provide superior protection from incidental moisture. DensArmor Plus Fireguard is highly resistant to the growth of mold, as manufactured, per ASTM D 3273.

The core of DensArmor Plus Fireguard is reinforced with inorganic glass fibers, increasing the product's strength. The core and the coated facings made with inorganic glass fibers offer greater moisture resistance and improved dimensional stability than regular gypsum wallboard. The product resists warping, rippling and buckling. DensArmor Plus Fireguard exhibits 15 flame spread as tested per ASTM E 84 or CAN/ULC S-102.

A specially formulated gypsum core that includes glass fibers allows DensArmor Plus Fireguard to help protect framing members and prevent or delay the spread of fire. With joints covered, DensArmor Plus Fireguard will resist passage of smoke.

### Primary Uses

DensArmor Plus Fireguard is an interior wall or ceiling covering material for use in new construction or renovation work. It is designed for direct attachment with screws or nails to wood and metal framing or existing surfaces. It may be used as a covering material for flat or curved structures.

DensArmor Plus Fireguard is manufactured with glass mat surfaces. It has a tapered edge to receive joint treatment.

The field of the board can be finished the same as regular gypsum wallboard.

### Limitations

DensArmor Plus Fireguard is a non-structural product and should not be used as a nailing base to support heavy wall-mounted objects.

It is intended for interior applications only; it must be kept dry and not used where exposure to extreme moisture is continuous.

Do not use DensArmor Plus Fireguard where there is prolonged exposure to temperatures exceeding 125°F, e.g., adjacent to wood burning stoves, heating appliances, saunas or steam rooms.

### Applicable Standards

Applicable sections of ASTM C 630 and ASTM C 1177 (Physical Properties); CSA-A82.27-M and Federal Specification SS-L-30d, Type III, Grade X and SS-6-30D

### Sizes and Edges

Thickness	Widths	Lengths
5/8"	4'	8' - 12'

Edges: Tapered.

### Supplemental Materials

*Fasteners:* Nails and screws.

*Joint System Recommendations:* Fiberglass mesh tape, bedded with gypsum setting-type joint compound. Following coats may be regular joint compound.

*Finishing:* The same as regular gypsum wallboard.

*Trims:* Corner bead, edge/casing bead, control joints, floor/ceiling runners and channels.

### Technical Data

*Surface Burning Characteristics*  
Flame spread rating of 15 when tested in accordance with ASTM E 84 or CAN/ULC S-102.

*Mold Resistance*  
Resists the growth of mold when tested, as manufactured, according to ASTM D 3273.

### Installation

#### Methods

For rated assemblies, appropriate methods of installation are based on the desired fire resistance rating or specified STC value required. These ratings and values require that all details of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publication GA-216 will facilitate optimum performance through preferred construction practices.

The installation method selected should be planned carefully to minimize the number of end joints. DensArmor Plus Fireguard can be cut to the necessary size by scoring the glass mat facing with a sharp knife then snapping away from the cut face. The back mat is then cut or broken by snapping the board in the opposite direction. All cut edges and ends are smoothed by rasping or other suitable methods to form tight-fitting joints when installed.

#### Safety

During installation involving cutting, scoring and breaking, safety glasses are recommended. Do not use a power saw. CAUTION: This product contains continuous filament fiberglass. Fiber released during normal handling of this product can cause skin, eye and respiratory irritation. Avoid breathing dust and contact with skin and eyes. Follow these standard work practices:

Wear long-sleeved, loose-fitting clothing, gloves and eye protection.

Use an approved respirator.

Wash exposed areas with soap and warm water after handling.

Wash work clothes separately from other clothing; rinse washer thoroughly. Operations that generate high airborne fiber concentrations (over 10 fibers/cc) require additional respiratory protection.

*continued*

**Handling Precautions**

Stack DensArmor Plus Fireguard flat on a level surface. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. Appropriate handling for gypsum board is also outlined in Gypsum Association Publications GA-216.

Take care to avoid impact, undue flexing and subsequent damage to board edges, ends and corners.

**Material Safety Data Sheet**

Material Safety Data Sheet (MSDS) is available on request.

**Board Decoration**

DensArmor Plus Fireguard accepts most paints, textures and wall covering materials.

G-P Gypsum recommends application of a sealer under wallpaper or other wall coverings. Joint treatment must be thoroughly dry before proceeding with primer application and final decoration.

**Limited Warranty**

DensArmor Plus Fireguard is backed with the following warranty:

Three months of coverage against in-place exposure damage

A three-year warranty against manufacturing defects

**For more information about DensArmor™ Plus Fireguard and other DensGuard™ glass mat products for interiors and exteriors, contact the G-P Gypsum Technical Service Hotline at 1.800.225.6119.**

**For sales information and order placement, call:**

**USA**

- Midwest: 1.800.876.4746**
- South: 1.800.327.2344**
- Northeast: 1.800.947.4497**
- West: 1.800.824.7503**

**CANADA**

- 1-800.387.6823**
- Quebec 1.800.361.0486**

**Table I  
Minimum Framing Spacing (Wood or Metal)**

	Single-ply Thickness	Application	O.C. Spacing
Ceilings*	5/8"	Parallel to framing	16 o.c.
	5/8"	Right angles to framing	24 o.c.
Walls	5/8"	Right angles or parallel to framing	24 o.c.

\*When using a water-based texture on ceilings, DensArmor Plus shall be installed at right angles to framing.

**Table II  
Single-Ply Application<sup>1</sup>**

Nails: ASTM C 514, Nails for the Application of Gypsum Board

Screws: ASTM C 1002, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Base

Wallboard Thickness	Nail Applications		Screw Applications		
	Minimum Nail Length	Spacing Walls Ceilings	Screw Length	Spacing Walls <sup>2</sup>	Ceilings
5/8"	1 5/8"	8 7	1 1/8"	16	12

<sup>1</sup>Also refer to local code requirements.  
<sup>2</sup>Where framing members are spaced 24 o.c., screw spacing is 12 o.c.

**Table III  
Physical Properties**

Properties	5/8" DensArmor™ Plus Interior Guard
Thickness, nominal	5/8" (15.9mm) ± 1/64" (0.4mm)
Width, standard	4' (1220mm) ± 3/32" (2.4mm)
Length, standard	8' (2440mm) to 12' (4880mm) ± 1/4" (6.4mm)
Weight <sup>1</sup> , lbs./M sq. ft., nominal	2500 <sup>1</sup>
Edges	Tapered
Surfacing	Coated glass mat on face, back
Flexural strength, parallel, lbs.	100
Flexural strength, perpendicular	120
R Value <sup>2</sup>	.67
Nail pull resistance minimum, lbs.	90
Hardness, lbs. force, core, edges and ends	≥15
Water absorption (% of weight)	<5%
Surface burning characteristics (per ASTM E 84 or CAN/UL-S102): flame spread/smoke developed	15/5
Humidified deflection, inches	1/8"

<sup>1</sup>Represents approximate weight for design and shipping purposes.  
<sup>2</sup>Tested in accordance with ASTM C 518.  
NOTE: Specified minimum values are as in applicable ASTM C 630 and ASTM C 1177 standards.

