



1/2"

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

The core of DensArmor Plus 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 exhibits 15 flame spread as tested per ASTM E 84 or CAN/ULC S-102.

Primary Uses

DensArmor Plus Interior Guard 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 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 Interior Guard is a nonstructural 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 Interior Guard 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

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

Sizes and Edges

Thickness	Widths	Lengths
1/2"	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

Installation methods for single or multi-layer construction involving attachment using mechanical fasteners, adhesive or adhesive with supplemental fasteners are numerous and varied. Refer to Gypsum Association publications for application and installation details.

The installation method selected should be planned carefully to minimize the number of end joints. DensArmor Plus Interior Guard 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.

Handling Precautions

Stack DensArmor Plus Interior Guard 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.

continued

Board Decoration

DensArmor Plus Interior Guard 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 Interior Guard 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 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*	1/2"	Parallel to framing	16 o.c.
	1/2"	Right angles to framing	24 o.c.
Walls	1/2"	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 Application¹**

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 ²	Ceilings
1/2"	1 3/8"	8 7	1	16	12

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

**Table III
Physical Properties**

Properties	1/2" DensArmor™ Plus Interior Guard
Thickness, nominal	1/2" (12.7mm) ± 1/64" (0.4mm)
Width, standard	4' (1220mm) ± 3/32" (2.4mm)
Length, standard	8' (2440mm) to 12' (4880mm) ± 1/4"(6.4mm)
Weight ¹ , lbs./M sq. ft., nominal	1900 ¹
Edges	Tapered
Surfacing	Coated glass mat on face, back
Flexural strength, parallel, lbs.	80
Flexural strength, perpendicular	100
R Value ²	.56
Nail pull resistance minimum, lbs.	80
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	3/8"

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

