

# DensArmor Plus®

High-Performance Interior Panel

### Manufacturer

Georgia-Pacific Gypsum LLC  
133 Peachtree Street, Atlanta, GA 30303  
Technical Service Hotline: 1-800-225-6119

### Description

**DensArmor Plus® High-Performance Interior Panels** are a patented noncombustible interior panel that consists of a moisture-resistant gypsum core with coated fiberglass mats. The fiberglass mats provide superior protection from incidental moisture. DensArmor Plus panels are highly resistant to the growth of mold, as manufactured, per ASTM D 3273.

The core of DensArmor Plus panels is reinforced with fiberglass, increasing the product's strength. The treated core and the coated facings made with fiberglass offer greater moisture resistance and improved dimensional stability than regular gypsum board. The product resists warping, rippling and buckling.

They have a tapered edge to receive joint treatment. The field of the board can be finished in the same manner as regular gypsum board.

DensArmor Plus Interior Panels are the first drywall panels to be GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & Schools® Certified for low emissions of volatile organic compounds (VOCs) by a leading third-party organization, GREENGUARD Environmental Institute. In addition, DensArmor Plus Interior Panels are the first and only drywall panels listed as GREENGUARD microbial resistant. This listing means DensArmor Plus panels, which feature fiberglass mats instead of paper facings used on the surface of traditional gypsum board products, resist mold growth. The microbial resistant test is based on ASTM Standard D 6329-98, a testing standard set by ASTM International, which develops testing guidelines and procedures for building materials, products, systems, and services.

DensArmor Plus panels also qualify for Collaborative for High Performance Schools (CHPS) credits. CHPS, based in California, is a national non-profit organization that works with school districts and their design teams to improve the quality of education by using products that have met requirements to receive CHPS credits.

### Primary Uses

DensArmor Plus Interior Panels are an interior wall or ceiling covering material for use in new construction or renovation work. They are designed for direct attachment with screws or nails to wood and metal framing or existing surfaces. They may be used as a covering material for flat or curved structures. DensArmor Plus panels are manufactured with fiberglass mat surfaces. They have a tapered edge to receive joint treatment. The field of the board can be finished in the same manner as regular gypsum board.

- Use on interiors of exterior walls, where moisture intrusion is most likely.
- Use in pre-rock areas, where the windows, doors or roof have not been installed making moisture intrusion inevitable. DensArmor Plus panels come with a six-month weather exposure limited warranty.
- Use in areas likely to be exposed to moisture, where paper-faced greenboard may have been specified in the past.

### Limitations

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

Intended for interior applications only, they must be kept dry during storage and handling.

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

### Technical Data

Flame spread rating of 0 when tested in accordance with ASTM E 84 or CAN/ULC S-102. Resists the growth of mold when tested, as manufactured, according to ASTM D 3273.

Noncombustible as described and tested in accordance with ASTM E 136.

5/8" DensArmor Plus Fireguard Type X and 1/2" DensArmor Plus Fireguard Type C panels are UL and ULC Classified.

Meets ASTM D 6329-98 for microbial resistance.

### Decoration

DensArmor Plus Interior Panels are designed to accept most types of paints, textures and wall covering materials. Because of the enhanced moisture- and mold-resistant properties of DensArmor Plus panels, drying times for both joint compound and wall coverings may vary. Always follow paint or wall covering manufacturer's installation instructions when applying either of these finishes. Georgia-Pacific Gypsum strongly recommends priming the surface of DensArmor Plus panels with a quality, high solids primer/sealer before applying a final decorative material. Priming will equalize the suction variations between the joint compounds and the fiberglass surfaces. If glossy paints are used in such areas as kitchens or bathrooms, skim coat joint compound over the entire surface of DensArmor Plus panels to reduce highlighting or joint photographing. This method is also recommended in areas with severe natural or artificial side lighting.

### Applicable Standards

ASTM C 1658 and appropriate sections of ASTM C 630 and ASTM C 1177 (Physical Properties)

### Sizes and Edges

DensArmor Plus Thickness: 1/2" — 12.7mm; Width: 4'; Lengths: 8'-12'; Edges: Tapered

DensArmor Plus Fireguard Type C Thickness: 1/2" — 12.7mm; Width: 4'; Lengths: 8'-12'; Edges: Tapered

DensArmor Plus Fireguard Type X Thickness: 5/8" — 15.9mm; Width: 4'; Lengths: 8'-12'; Edges: Tapered

### Installation

DensArmor Plus High-Performance Interior Panels should be installed according to the most current versions of Gypsum Association Publication GA-216 "Application and Finishing of Gypsum Board for Non-Fire-Rated Construction."

For fire-rated installations, the installation and details shall be in conformity with those assemblies published in the Gypsum Association Fire Resistance Design Manual GA-600, UL and ULC Fire Resistance Directories.

### Submittal Approvals

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Date \_\_\_\_\_

*continued* →

## I. Physical Properties

Properties	1/2" DensArmor Plus®	1/2" DensArmor Plus® Fireguard® Type C	5/8" DensArmor Plus® Fireguard® Type X
Thickness, nominal	1/2" (12.7mm) ± 1/64" (0.4mm)	1/2" (12.7mm) ± 1/64" (0.4mm)	5/8" (15.9mm) ± 1/64" (0.4mm)
Width, standard	4' (1220mm) ± 3/32" (2.4mm)	4' (1220mm) ± 3/32" (2.4mm)	4' (1220mm) ± 3/32" (2.4mm)
Length, standard	8' (2440mm) to 12' (4880mm) ± 1/4" (6.4mm)	8' (2440mm) to 12' (4880mm) ± 1/4" (6.4mm)	8' (2440mm) to 12' (4880mm) ± 1/4" (6.4mm)
Weight <sup>1</sup> , lbs./M sq. ft., nominal	2020 <sup>1</sup>	2020 <sup>1</sup>	2500 <sup>1</sup>
Edges	Tapered	Tapered	Tapered
Surfacing	Coated fiberglass mat on face, back	Coated fiberglass mat on face, back	Coated fiberglass mat on face, back
Flexural strength, parallel, lbf.	80	80	100
Flexural strength, perpendicular	100	100	140
R Value <sup>2</sup>	.56	.56	.67
Nail pull resistance minimum, lbf.	80	80	90
Hardness core, edges and ends, lbf.	>15	>15	>15
Water absorption (% of weight)	<5%	<5%	<5%
Surface burning characteristics (per ASTM E 84 or CAN/UL-S102): flame spread/smoke developed	0/0	0/0	0/0
Humidified deflection, inches	3/8"	3/8"	3/8"
Bending Radius <sup>3</sup>	6'	6'	8'

<sup>1</sup> Represents approximate weight for design and shipping purposes.    <sup>2</sup> Tested in accordance with ASTM C 518.    <sup>3</sup> Double fasteners on ends as needed.

NOTE: Specified minimum values are as in ASTM C 1658 and applicable sections of ASTM C 630 and ASTM C 1177 standards.



### SALES INFORMATION AND ORDER PLACEMENT

U.S.A. Midwest: 1-800-876-4746 West: 1-800-824-7503  
 South: 1-800-327-2344 Northeast: 1-800-947-4497

CANADA Canada Toll Free: 1-800-387-6823  
 Quebec Toll Free: 1-800-361-0486

### TECHNICAL INFORMATION

Georgia-Pacific Gypsum Technical Hotline  
 U.S.A. and Canada: 1-800-225-6119  
[www.gpgypsum.com](http://www.gpgypsum.com)

**CAUTION: For product fire, safety and use information, go to [gp.com/safetyinfo](http://gp.com/safetyinfo).**

### TRADEMARKS

DENSARMOR PLUS, FIREGUARD and the GEORGIA-PACIFIC logo are trademarks owned by or licensed to Georgia-Pacific Gypsum LLC. The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.

### UPDATES AND CURRENT INFORMATION

The information in this document may change without notice. Visit our website at [www.gpgypsum.com](http://www.gpgypsum.com) for updates and current information.

### LIMITATION OF REMEDIES AND DAMAGES

Unless otherwise stated in our written warranty for these products, our sole liability for any product claim shall be limited to reimbursement of the cost of repair or replacement of the affected product, up to a maximum amount of two times the original purchase price for the affected product. We shall not be responsible under any circumstances for lost

profits, damage to a structure or its contents, or indirect, incidental, special or consequential damages. Claims shall be deemed waived if they are not submitted to us in writing within ten (10) days after discovery of a product defect/circumstance giving rise to a claim.

**CAUTION: For product fire, safety and use information, go to [gp.com/safetyinfo](http://gp.com/safetyinfo).**

### HANDLING AND USE

**CAUTION:** This product contains fiberglass facings which may cause skin irritation. Dust and fibers produced during the handling and installation of the product may cause skin, eye and respiratory tract irritation. Avoid breathing dust and minimize contact with skin and eyes. Wear long sleeve shirts, long pants and eye protection. Always maintain adequate ventilation. Use a dust mask or NIOSH/MSHA approved respirator as appropriate in dusty or poorly ventilated areas. For additional

product fire, safety and use information go to [www.gp.com/safetyinfo](http://www.gp.com/safetyinfo) or call 1-800-225-6119.

### FIRE SAFETY CAUTION

Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/system.