Georgia-Pacific

DensArmor Plus®

Abuse-Resistant Interior Panel

Technical Service Hotline 1.800.225.6119 or
www.gpgypsum.com

Manufacturer

Georgia-Pacific Gypsum LLC
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Atlanta, GA 30303

Georgia-Pacific Canada LP
6711 Mississauga Road,
Mississauga, ON LSN 2W3

Technical Service Hotline: 1-800-225-6119

Description

DensArmor Plus® Abuse-Resistant Interior Panel is a patented interior panel that consists of a moisture-resistant, noncombustible (per ASTM E 136) dense gypsum core with abuse-resistant coated fiberglass mat facings. The fiberglass mats and a dense moisture-resistant gypsum core provide superior abuse resistance along with protection from incidental moisture. DensArmor Plus Abuse-Resistant Interior Panel is highly resistant to the growth of mold, scoring a 10, the highest score, when tested, as manufactured, per ASTM D 3273.

DensArmor Plus Abuse-Resistant Interior Panel resists surface abrasion, indentation and soft body impact. The moisture-resistant fiberglass mat facings and moisture resistant core resist warping, rippling and buckling. The core of the product is denser than regular gypsum wallboard and is reinforced with glass fibers, increasing the product's strength. The core and the coated facings made with fiberglass fibers also offer improved dimensional stability when compared with regular gypsum wallboard.

DensArmor Plus Abuse-Resistant 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 Abuse-Resistant Interior Panels are the first panels listed as GREENGUARD microbial resistant. This listing means DensArmor Plus Abuse-Resistant Interior 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 Abuse-Resistant Interior Panels also qualifies for Collaborative for High Performance Schools® (CHPS™) credits. CHPS 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 Abuse-Resistant Interior Panel is an interior wall or ceiling covering material for use in new construction or renovation work. It is designed for use in areas requiring abuse-resistance such as corridors in hospitals, schools, dormitories and public buildings. 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 Abuse-Resistant Interior Panel is manufactured with fiberglass mat facings. It has a tapered edge to receive joint treatment. The field of the board can be finished in the same steps as regular gypsum wallboard.

DensArmor Plus Abuse-Resistant Interior Panel resists indentation and soft body impact. The product is ideal for use in any interior high traffic areas subject to wall or ceiling abuse.

It withstands abrasion common in buildings with high occupancy such as schools, offices, hospitals and many public buildings.

For use in any areas likely to be exposed to incidental moisture where added abuse resistance is desired.

DensArmor Plus Abuse-Resistant panels come with a 12-month limited warranty against normal weather exposure.*

Limitations

DensArmor Plus Abuse-Resistant Interior Panel 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 during storage and handling.

DO NOT use DensArmor Plus Abuse-Resistant Interior Panel where there is prolonged exposure to temperatures exceeding 125˚F (52˚C), e.g. adjacent to wood burning stoves, heating appliances, saunas or steam rooms.

Abuse Resistance

Surface Abrasion: *Level 3* Tested in accordance with ASTM C 1629.
Surface Indentation: *Level 1* Tested in accordance with ASTM C 1629.
Soft-body Impact: *Level 1* Tested in accordance with ASTM C 1629.

Technical Data

DensArmor Plus Abuse-Resistant Interior Panel scored a 10, the highest score, for resistance to the growth of mold when tested, as manufactured, according to ASTM D 3273.

Flame spread and smoke develop rating of 0 when tested in accordance with ASTM E 84 or CAN/ULC S-102.

Noncombustible when tested in accordance with ASTM E 136.

5/8″ DensArmor Plus® Fireguard® (per ASTM C 1658) Abuse-Resistant Interior Panel meets Type X requirements (per ASTM C 1658) when tested in accordance with ASTM E 119 and is UL Classified. Can be used in many assemblies where 5/8″ Type X drywall is specified. Consult appropriate fire resistance directory for use.

Product Applications

DensArmor Plus Abuse-Resistant Interior Panel shall be applied in accordance with ASTM C 840 and GA-216. To apply the product to steel framing, use Type S-12 screws for heavier gauge steel (20 gauge). The product also can be applied to wood framing with drywall nails or screws and with special adhesives in combination with supplemental fasteners.

Decoration

DensArmor Plus Abuse-Resistant Interior Panel is designed to accept most types of paints, textures and wall covering materials. Because of the enhanced moisture and mold resistant properties of DensArmor Plus Abuse-Resistant Interior Panel, 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 Abuse-Resistant Interior Panel with a quality high-build primer before applying a final decorative material. Priming will equalize the texture and suction variations between the joint compounds and the fiberglass mat surfaces. If glossy paints are used in such areas as kitchens or bathrooms, skim coat joint compound over the entire surface of DensArmor Plus Abuse-Resistant Interior Panel to reduce highlighting or joint photographing. This method is also recommended in areas with severe natural or artificial side lighting.

Handling Precautions

See *Handling and Use–Caution* section at end of this document.

Stack DensArmor Plus Abuse-Resistant Interior Panel 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.

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

Applicable Standards

Manufactured to meet ASTM C 1658, ASTM C 1396 Section 7 and ASTM C 1177.
Test standard ASTM C 1629.

Sizes and Edges

DensArmor Plus Abuse-Resistant Interior Panel Thickness: 5/8″ (15.9 mm);
Width: 4′ (1219 mm); Lengths: 8′-12′ (2438 mm-3658 mm); Edges: Tapered

*For complete warranty details, visit www.gpgypsum.com.

continued

Submittal Approvals

Job Name _____

Contractor _____

Date _____

Stamps/Signatures

Physical Properties

Properties	5/8″ DensArmor Plus® Abuse-Resistant Interior Panel
Thickness, nominal	5/8″ (15.9 mm) ± 1/64″ (0.4 mm)
Width, standard	4′ (1219 mm) ± 3/32″ (2.4 mm)
Length, standard	8′ (2438 mm) to 12′ (3658 mm) ± 1/4″ (6.4 mm)
Weight[1], lbs./sq. ft., nominal (kg/m^2)	2.8[1] (13.7)
Edges	Tapered
Surfacing	Coated glass mat on face, back
Flexural strength, Parallel, lbs. (N) Perpendicular (N)	 >100 (444) >140 (622)
R value[2] °F•ft^2•hr/BTU (K•m^2/W)	.67 (0.118)
Nail pull resistance, minimum, lbf. (N)	≥ 90 (400)
Hardness, lbf. force, core, edges and ends (N)	>15 (67)
Water absorption (% of weight)	< 5%
Surface burning characteristics (per ASTM E 84 or Can/ULC-S102): flame spread/smoke developed	 0/0
Humidified deflection	<1/8″ (3 mm)

[1]Represents approximate weight for design and shipping purposes.
[2]Tested in accordance with ASTM C 518.
NOTE: Specified minimum values are as in applicable sections of ASTM C 1658, ASTM C 1396 Section 7 and ASTM C 1177.

Georgia-Pacific Gypsum

U.S.A.– Georgia-Pacific Gypsum LLC
Canada – Georgia-Pacific Canada LP

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

U.S.A. and Canada: **1-800-225-6119**
www.gpgypsum.com

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WARRANTIES, REMEDIES AND TERMS OF SALE For current warranty information for this product, please go to www.gpgypsum.com and select the product for warranty information. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at www.gpgypsum.com.

UPDATES AND CURRENT INFORMATION The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

CAUTION For product fire, safety and use information, go to www.gp.com/safetyinfo or call 1-800-225-6119.

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.

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.