Georgia-Pacific

DensArmor Plus®

Impact-Resistant Interior Panel

Technical Service Hotline 1.800.225.6119 or
www.gpgypsum.com

Manufacturer

Georgia-Pacific Gypsum LLC
133 Peachtree Street NE, 8th Floor, Atlanta, GA 30303
Technical Service Hotline 1-800-225-6119 or www.gpgypsum.com

Description

DensArmor Plus® Impact-Resistant Interior Panel is a patented interior panel that consists of a moisture-resistant, noncombustible dense gypsum core, and a strong layer of embedded fiberglass mesh with abuse-resistant coated fiberglass mats. The mats, the mesh and a dense moisture-resistant gypsum core provide superior abuse and impact-resistance along with protection from incidental moisture. DensArmor Plus Impact-Resistant Interior Panel is highly resistant to the growth of mold when tested, as manufactured, per ASTM D 3273.

DensArmor Plus Impact-Resistant Interior Panel resists surface abrasion, indentation and impact punctures in high-traffic environments. The moisture-resistant fiberglass mats and 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 and offering improved dimensional stability when compared with regular gypsum wallboard.

DensArmor Plus Impact-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 Impact-Resistant Interior Panels are the first and only drywall panels listed as GREENGUARD microbial resistant. This listing means DensArmor Plus Impact-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 Impact-Resistant Interior Panels also qualifies 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 Impact-Resistant Interior Panel is a interior wall or ceiling covering material for use in new construction or renovation work. It is designed for use in areas requiring abuse and impact-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 Impact-Resistant Interior Panel is manufactured with fiberglass mats with 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 Impact-Resistant Interior Panel resists indentation and impact punctures. 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 and impact resistance is desired.

Limitations

DensArmor Plus Impact-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 and not used where exposure to extreme moisture is continuous.

DO NOT use DensArmor Plus Impact-Resistant Interior Panel where there is prolonged exposure to temperatures exceeding 125° F, 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 3* Tested in accordance with ASTM C 1629.
Hard-body Impact:	*Level 2* Tested in accordance with ASTM C 1629.

Technical Data

DensArmor Plus Impact-Resistant Interior Panel resists 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.

Can be used in many fire-rated assemblies where 5/8" Type X drywall is specified.

Product Applications

DensArmor Plus Impact-Resistant Interior Panel shall be applied in accordance with ASTM C 840 and GA-216. To apply the product to steel framing, use 20-gauge or Type S-12 screws for heavier gauge steel. 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 Impact-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 Impact-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 Impact-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 Impact-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

Stack DensArmor Plus Impact-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.

Submittal Approvals

Job Name _____

Contractor _____

Date _____

continued→

Stamps/Signatures

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Applicable Standards

Manufactured to meet ASTM C 1658 and applicable sections of ASTM C 630, ASTM C 1396, ASTM C 1177 and ASTM C 1629.

Sizes and Edges

DensArmor Plus® Impact-Resistant Interior Panel Thickness: 5/8″ – 15.9mm; Width: 4′; Lengths: 8′, 10′ and 12′; Edges: Tapered

Properties	5/8″ DensArmor Plus® Impact-Resistant Interior Panel
Thickness, nominal	5/8″ (15.9mm) ± 1/64″ (0.4mm)
Width, standard	4′ (1220mm) ± 3/32″ (2.4mm)
Length, standard	8′ (2440mm), 10′ (3048mm) and 12′ (4880mm) ± 1/4″ (6.4mm)
Weight[1], lbs./M sq. ft., nominal	3000[1]
Edges	Tapered
Surfacing	Coated fiberglass mat on face and back
Flexural strength, Parallel, lbf. Perpendicular	 >100 >140
R value[2]	.67
Nail pull resistance, minimum, lbf.	90
Hardness core, edges and ends, lbf.	>15
Water absorption (% of weight)	< 5%
Surface burning characteristics (per ASTM E 84 or Can/ULC-S102): flame spread/smoke developed	 0/0
Humidified deflection, inches	< 1/8″

[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 630, ASTM C 1177 and ASTM C 1658 standards.

Georgia-Pacific Gypsum

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

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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.

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.

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 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.