

Abuse, Fire, Mold and Mildew Resistant Drywall

Description

Lafarge Protecta® AR 100 with Mold Defense™ is an abuse resistant drywall consisting of a fiberglass-enhanced non-combustible high-density gypsum core with a reinforced heavy facing paper which guards against surface abrasion, indentation, mold and mildew. The ivory facing paper will accommodate a wide variety of decorative treatments after proper surface preparation.

Protecta AR 100 is designed for use in applications that require direct mechanical attachment to wood or metal framing or as a component of fire-rated assemblies.

To ensure optimum Type X fire resistance performance, follow recommended installation procedures. When used in a certified sound rated assembly Protecta AR 100 will also contribute to required sound transmission classification (STC) values.

Recommended Applications

Protecta AR 100 is designed for use in interior areas where a higher resistance to abrasion, indentation and impact penetration is required. Applicable areas include:

- Schools
- Dormitories
- Hospitals
- Hotel lobbies
- Corridors
- Cafeterias
- Gymnasiums
- Mechanical/Maintenance areas
- Other high traffic and public areas

Advantages

Mold Defense*: Mold Defense offers enhanced protection against growth of mold and mildew compared to ordinary drywall products. Under independent testing conditions, Mold Defense achieved an average panel score of 8 or better out of a possible 10 using ASTM D 3273.

High Abuse Resistance: Protecta AR 100 offers better indentation and abrasion resistance than regular drywall products, thus reducing costs associated with maintenance and replacement.

Low Installation Cost: Compared to block construction, Protecta AR 100 is installed easily and quickly. It cuts and snaps like standard drywall.

Fire Resistance: Protecta AR 100 is formulated to perform in accordance with ASTM C 1396 and C 36, Type X and is UL labeled. (Type LGFC6A).

Standards and Codes

Protecta AR 100 is formulated to perform in accordance with ASTM C 1629, C 1396 and C 36 Type X; Federal Specification SS-L-30d, Type III, Grade X; and CAN/CSA-A82.27-M, Type X.

Technical Specifications

UL classified for surface burning (File No. R16102)

(tested in accordance with ASTM E 84)

Flame spread = 10; Smoke developed = 0

Core combustibility

(tested in conformance with ASTM E 136)

Non-combustible

UL classified for fire resistance

(File No. R18482) as Type LGFC6A

Installation

When installed on steel studs, 20 gauge or heavier studs should be used. Studs (wood or metal) should be 16" o.c. maximum.

Otherwise, install according to Gypsum Association publication GA-216 *Application and Finishing of Gypsum Board*, or ASTM C 840 *Standard Specification for Application and Finishing of Gypsum Board*. For fire-rated construction, consult GA-600 *Fire Resistance Design Manual*, *UL Fire Resistance Directory* or the Lafarge Selector Guide.

A vertical installation is generally suggested to achieve higher impact resistance performance.

Finishing

Refer to GA-214 *Recommended Levels of Gypsum Board Finish* for finishing recommendations. As with regular drywall, a large variety of decorative finishes can be applied.

Handling

Stack flat, keep dry, and lift (do not drag) to avoid scuffing. Avoid damage to edges. For detailed handling recommendations, refer to GA-216 and GA-801 *Handling Gypsum Board*.

Precautions

Protecta AR 100 is suitable for interior applications only and should not be used where temperatures exceed 125°F for extended periods or in areas of extreme humidity. Likewise, the board should be protected from exposure to adverse conditions during storage and construction.

Protecta AR 100 is not intended to be used as a ceramic tile wall backing or floor underlayment.

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Physical Characteristics

Core: Non-combustible, dimensionally stable, inert gypsum enhanced with glass fibers for strength and fire resistance

Paper: 100% recycled; abuse, mold and mildew resistant; front and edges = ivory, back = gray

Edge Type: Tapered

Available Sizes:

Nominal thickness	5/8"
Nominal width	4'
Standard length	8' to 12'
Nominal weight	2.8 lbs/ft ²

Safety

Wear safety glasses and NIOSH-approved respirators during cutting, breaking, rasping, or other dust-producing activities.

Material Safety Data Sheets (MSDS) are available for all Lafarge products upon request.

Protecta AR 100 Test Results**

Test	General Description of Test	Test Result at Failure	ASTM C 1629
Soft Body Impact: ASTM E 695	A leather bag filled with 60 lbs. of shot is released against the surface of the board at increasing height until failure.	Surface failure at 120 ft.-lbs. Deformation and structural failure at 210 ft.-lbs. <i>The higher the value the greater the resistance to impact.</i>	Level 2
Surface Abrasion: ASTM D 4977 (modified with 25 lbs. of additional weight)	A wire brush is cycled across the board surface. Failure is recorded as the depth of abrasion after 50 cycles.	0.125 <i>The lower the number the better the abrasion resistance.</i>	Level 1
Surface Indentation: ASTM D 5420	A 2-lb. 5/8" hemispherical end steel rod is released from 36" to impact the board surface. The depth of indentation is then measured.	0.133" <i>The lower the value the greater the resistance to surface indentation.</i>	Level 1
Hard Body Impact: ASTM C 1629	A 2-3/4" diameter steel ram is driven into the board surface. Weight is increased until failure.	70 ft.-lbs. <i>The higher the value the greater the resistance to hard body impact.</i>	Level 1

**Testing performed by H.P. White Laboratory, Inc.

***Mold Defense™** provides extra resistance against the formation of mold, but no product may be considered "mold proof." The most effective way to avoid the formation of mold and mildew in drywall products is to limit or avoid water exposure during storage, construction and after construction is complete. Used in combination with appropriate design, handling, construction and installation practices, Mold Defense drywall can provide increased mold and mildew resistance. ASTM D 3273 is the "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber" and is performed under controlled, laboratory conditions. Actual storage, handling, construction and installation conditions may vary from the environment created in the independent lab, and the use of the product in actual conditions may not replicate the ASTM results.

Job Name: _____

Contractor: _____

Date: _____

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