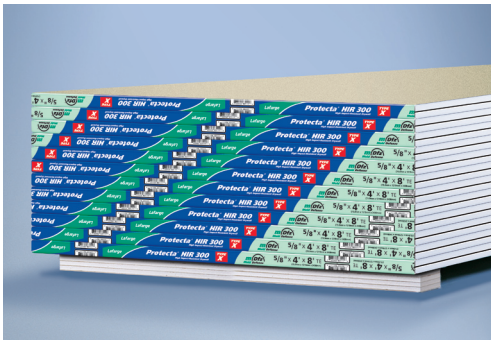

Applications

Protecta HIR 300 Type X with Mold Defense is designed for use in interior areas where a higher resistance to abrasion, indentation and impact penetration is required. Applicable areas include:

- Elevator and stair enclosures in high-rise buildings as required by code
- Schools and dormitories
- Hospitals
- Hotel lobbies
- Corridors
- Cafeterias
- Gymnasiums
- Mechanical/maintenance areas
- Other high-traffic and public areas

Advantages

High Abuse Resistance: Protecta HIR 300 Type X with Mold Defense offers better impact penetration resistance than regular abuse-resistant drywall products, thus reducing costs associated with maintenance and replacement.

Low Installation Cost: Compared to block construction, Protecta HIR 300 Type X with Mold Defense is installed easily and quickly. It cuts and snaps like standard drywall.

Fire Resistance: Protecta HIR 300 Type X with Mold Defense is formulated to perform in accordance with ASTM C 1396, Section 5 and C 36, Type X and is UL labeled. (Type LGFC6A).

Mold Resistance: Protecta HIR 300 Type X with Mold Defense provides enhanced protection against the growth of mold and mildew.

JOB NAME:

CONTRACTOR:

DATE:

High Impact-, Fire- and Mold-Resistant Drywall

PROTECTA® HIR 300
TYPE X WITH MOLD DEFENSE®

Lafarge Protecta HIR 300 Type X with Mold Defense is a high impact-, fire- and mold-resistant drywall that incorporates the proven formulation of our industry-preferred, abuse-resistant board. It consists of a fiber glass-enhanced, non-combustible, high-density, synthetic gypsum core with reinforced strong facers which guard against surface abrasion, indentation, mold and mildew.

Protecta HIR 300 is further enhanced with an engineered reinforcement technology to provide a greater resistance to penetration for interior walls and ceilings, achieving Level 3 soft and hard body impact per ASTM C 1629.

To ensure optimum Type X fire-resistant performance, follow recommended installation procedures. When used in a certified sound-rated assembly, Protecta HIR 300 will also contribute to required sound transmission classification (STC) values.

Mold Defense*

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

Lafarge Mold Defense products are compliant with the treated article exemption of FIFRA as determined by the U.S. Environmental Protection Agency (EPA).

Note: Protecta HIR 300 Type X with Mold Defense 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 HIR 300 Type X with Mold Defense is not intended to be used as a ceramic tile wall backing in wet areas or floor underlayment.

Available Sizes

Nominal thickness	5/8”
Nominal width	4ft.
Standard length	8 ft. and 10 ft.
Nominal weight	2.8 lbs./ft.^{2}

LAFARGE
bringing materials to life™

Sustainability

Can contribute to the U.S. Green Building Council's LEED Credit Qualification in several credit categories to assist in obtaining LEED certification. Visit www.lafargenorthamerica.com for more details on specific credit contribution and documentation.

Physical Characteristics

Core: Non-combustible, dimensionally stable, synthetic gypsum enhanced with glass fibers for strength and fire resistance; Reinforced mesh technology for increased performance

Paper: 100% recycled; Abuse-, mold- and mildew-resistant; Front and edges = natural white, back = beige

Edge Type: Tapered

Asbestos free; GREENGUARD certified, listed as a low-emitting material with the Collaborative for High Performance Schools (CHPS); and MAS Certified Green

Test Results per ASTM C 1629

† Soft Body Impact	300 ft. lbs.	Level 3
Surface Abrasion	0.020"	Level 2
Surface Indentation	0.133"	Level 1
† Hard Body Impact	150 ft. lbs.	Level 3

† Meets NYC and IBC requirements for stair and elevator shaft enclosures. VTEC Laboratories Report # 100-3335-1. 10/29/2009

Standards and Codes

Protecta HIR 300 Type X with Mold Defense is formulated to perform in accordance with ASTM C 1396, Section 5 and C 36, Type X; Abuse Resistant per ASTM C 1629; Mold Resistant per ASTM D 3273.**Federal Specification SS-L-30d, Type III, Grade X; NYC MEA # 204-08-M; 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.

Painting and Decorating

For best results, a good gypsum board primer should be applied in accordance with manufacturer's instructions before painting or before any textured material is applied.

Handling and Finishing

Stack flat, keep dry and lift (do not drag) to avoid scuffing. Avoid damage to edges. For detailed recommendations, refer to GA-216 and GA-801. Refer to GA-214 for more finishing recommendations.

Safety Precautions

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.

*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 on its surface and in its core. 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.

**The federal specification for gypsum board, SS-L-30d, was withdrawn in 1984. It is provided here for information only and should not be referenced for new construction.

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