

**CONTINENTAL™**  
BUILDING PRODUCTS



### Applications

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:** 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, installs easily and quickly. It cuts and snaps like standard drywall.

**Fire Resistance:** Formulated to perform in accordance with ASTM C1396/C1396M, Section 5, Type X and is UL labeled (Type LGFC6A).

**Mold Resistance:** Provides enhanced protection against the growth of mold and mildew.

## HIGH IMPACT-, FIRE- AND MOLD-RESISTANT DRYWALL

# PROTECTA® HIR 300 TYPE X WITH MOLD DEFENSE®

**Continental Building Products** 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 Type X with Mold Defense 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 C1629.

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

Continental's Mold Defense products are compliant with the treated article exemption of FIFRA as determined by the U.S. Environmental Protection Agency (EPA). 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 D3273.\*

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 for use as a tile backer in shower, tub and other wet areas. It may be used as a tile backer in dry areas.

### Test Results per ASTM C1629

† Soft Body Impact	300 ft. lbs.	Level 3
Surface Abrasion	< 0.010"	Level 3
Surface Indentation	0.133"	Level 1
† Hard Body Impact	150 ft. lbs.	Level 3

\* Meets NYC local law 26 and IBC requirements for stair and elevator shaft enclosures. VTEC Laboratories Report # 100-3335-1. 10/29/2009

JOB NAME:

CONTRACTOR:

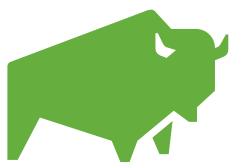
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## Sustainability

Can contribute to the U.S. Green Building Council's LEED Credit Qualification in several credit categories to assist in obtaining LEED certification.



\*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 and 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 D3273 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.



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## 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 = ivory, back = beige

**Long Edges:** Tapered

**Asbestos free and GREENGUARD certified**

### Available Sizes:

Nominal thickness	5/8 in.
Nominal width	4 ft..
Standard length	8 ft. and 10 ft.
Nominal weight	2.8 lbs./ft. <sup>2</sup>

## Standards and Codes

Manufactured to meet ASTM C1396/C1396M, Section 5, Type X; Abuse Resistant per ASTM C1629; Mold Resistant per ASTM D3273; CAN/CSA-A82.27-M, Type X; and NYC MEA # 204-08-M.

## Technical Specifications

UL classified for surface burning (File No. R16102) (per ASTM E84 and CAN/ULC-S102) Flame spread = 0; Smoke developed = 0; Meeting IBC, Section 803.1, Class A

Core combustibility (per ASTM E136) Non-combustible

UL classified for fire resistance (File No. R18482) as Type LGFC6A per ASTM E119 and CAN/ULC-S101

Mold and mildew resistant (10 out of 10 score, ASTM D3273)\*

## Installation

When installed on steel studs, 30 mil (minimum 0.0296" base metal thickness) or thicker studs should be used. For use on 20 gauge EQ studs, contact the stud manufacturer. 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 C840, Standard Specification for Application and Finishing of Gypsum Board. For fire-rated construction, consult GA-600, Fire Resistance Design Manual or the UL Fire Resistance Directory. A vertical installation is generally suggested to achieve higher impact resistance performance. Refer to GA-214 for more finishing recommendations.

## 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 Recommendations

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.

## Safety Precautions

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

Safety Data Sheets (SDS) are available for all Continental products upon request.

