Gold Bond® eXP® Shaftliner

Technical Information
800.NATIONAL • 800.628.4662

DESCRIPTION

Gold Bond® eXP® Shaftliner consists of an enhanced moisture- and mold-resistant Type X gypsum core encased in a coated, specially designed PURPLE fiberglass mat on the face, back and sides. The glass mat is folded around the long edges to reinforce and protect the core.

For ease of installation, the long edges of eXP Shaftliner are double beveled.

BASIC USES

Applications

Use eXP Shaftliner to construct lightweight fire barriers for cavity shaftwalls (1-4 hr.) and area separation fire walls (2-3 hr.).

eXP Cavity Shaftwall Systems: These systems enclose elevator, horizontal shafts and chase walls in buildings where it isadvantageous to erect these walls from one side only. eXP Shaftliner is the right choice when designing for fire resistance and changing air pressure. Shaftwalls are non-load-bearing partitions made up of gypsum board and metal framing. These systems are lightweight and economical compared with conventional shaftwalls.

eXP Area Separation Wall Systems: These systems are a popular method for constructing today's multifamily housing units. These assemblies will be exposed to outdoor elements during the building process, and eXP Shaftliner features a coated glass mat facer and gypsum core that can provide increased protection.

Advantages

- Approved component in specific UL fire-rated designs.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.
- Provides superior water resistance, without impeding vapor transmission.
- Scores and snaps to exact size without sawing.
- Dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.
- Offers a 12-month extended exposure warranty for typical weather conditions. Refer to Gold Bond Building Products, LLC limited warranties for further details.
- Fiberglass mat on face and back has special coating for easy handling.
- Achieves UL GREENGUARD Gold Certification for low chemical emissions into indoor air during product usage. For more information, visit: **ul.com/gg**.

INSTALLATION RECOMMENDATIONS

General

Install eXP Shaftliner consistent with methods described in specific application details in the Cavity Shaftwall Systems or Area Separation Wall System sections of the *NGC Construction Guide*, or with other fire-resistance-rated designs.

Safety

Installers should wear long pants and a long-sleeved, loose fitting shirt. Use protective gloves and special eye protection (goggles or safety glasses with side shield). Wear a dust mask when sanding; you may need additional breathing protection in extremely dusty conditions. Do not use a power saw to cut this product.

Caution: Because this product contains fiberglass, dust and glass fibers may be released during normal handling, which could result in eye or skin irritation or cause difficulty in breathing. Whenever possible, avoid contact with the skin and eyes and avoid breathing dust or fibers that may be released during installation. Consult the SDS for this product, available at **goldbondbuilding.com** before use.

LIMITATIONS

- Avoid exposure to excessive or continuous moisture.
- Avoid exposure to extreme temperatures. Do not expose glass mat gypsum panels to temperatures exceeding 125˚F (52˚C) for extended periods of time.
- Do not use eXP Shaftliner Panels in an unlined air supply duct.
- Refer to height limitations in the applicable *NGC Construction Guide* section.
- Isolate gypsum panels from contact with building structure in locations where structural movement may impose direct loads on gypsum panel assemblies.
- eXP Shaftliner is weather resistant, but do not immerse in water and do not subject to cascading water conditions.

Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

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TECHNICAL DATA

Physical Properties	eXP Shaftliner
Thickness[1], Nominal	1" (25.4 mm)
Width[1], Nominal	2' (610 mm)
Length[1, 4], Standard	8' – 12' (2,438 mm – 3,658 mm)
Weight, Nominal	3.75 lbs./sq. ft. (18.31 k/m²)
Edges[1]	Double Beveled
Flexural Strength[1], Perpendicular	≥ 230 lbf. (1,023 N)
Flexural Strength[1], Parallel	≥ 80 lbf. (356 N)
Humidified Deflection[1]	N/A
Nail Pull Resistance[1]	≥ 80 lbf. (356 N)
Hardness[1] – Core, Edges and Ends	≥ 15 lbf. (67 N)
Thermal Resistance[5]	R = .65
Water Absorption[1] (% of Weight)	≤ 5%
Linear Expansion with Change Moisture	6.25 x 10^{-6} in./in./%RH
Coefficient of Thermal Expansion	9.26 x 10^{-6} in./in./°F
Mold Resistance[6], ASTM D3273	Score of 10
Product Standard Compliance	ASTM C1658
Fire-Resistance Characteristics	
Core Type	Type X
UL Type Designation	FSW-7
Combustibility[2]	Non-combustible Core
Surface Burning Characteristics[3]	Class A
Flame Spread[3]	0
Smoke Development[3]	0
Applicable Standards and References	
ASTM C473 *Standard Test Methods for Physical Testing of Gypsum Panel Products*	
ASTM C518 *Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*	
ASTM C840 *Standard Specification for Application and Finishing of Gypsum Board*	
ASTM C1658 *Standard Specification for Glass Mat Gypsum Panels*	
ASTM D3273 *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*	
ASTM E84 *Standard Test Method for Surface Burning Characteristics of Building Materials*	
ASTM E96 *Standard Test Methods for Water Vapor Transmission of Materials*	
ASTM E119 *Standard Test Methods for Fire Tests of Building Construction and Materials*	
ASTM E136 *Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C*	
Gypsum Association, GA-216, *Application and Finishing of Gypsum Panel Products*	
Gypsum Association, GA-238, *Guidelines for Prevention of Mold Growth on Gypsum Board*	
Gold Bond Building Products, LLC Manufacturer Standards, *NGC Construction Guide*	

1. ASTM C1658, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM E136.
3. Tested in accordance with ASTM E84.
4. Please contact your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.
5. Tested in accordance with ASTM C518.
6. Tested in accordance with ASTM D3273 and rated in accordance with ASTM D3274.

FOR MORE INFORMATION

Architectural Specifications

Gold Bond Building Products CSI MasterFormat® 3-part guide specifications are downloadable as editable Microsoft® Word documents at: **goldbondbuilding.com**.

Latest Technical Information and Update

Visit **goldbondbuilding.com** or call National Gypsum Company Construction Services: 1-800-NATIONAL (628-4662).

Technical Information *Información Técnica*

1-800-NATIONAL®

1-800-628-4662

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The eXP family of products is manufactured by Gold Bond Building Products, LLC.

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Gold Bond® Building Products

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