



National Gypsum
Gold Bond® BRAND
EXP Shaftliner

Substitution Request

Project: Substitution Request Number:

To: From:

Date:

A/E Project Number:

Owner:

Specification Title:

Description:

Section:

Page:

Article/Paragraph:

Proposed Substitution: **EXP Shaftliner**

Manufacturer: **National Gypsum Company**

Address: **2001 Rexford Rd., Charlotte, NC 28211** Phone: **1-800-628-4662**

Trade Name: **Gold Bond® BRAND EXP Shaftliner** Model No: **GB8525**

Installer: Address: Phone:

History: **New Product** **1-4 Years** **5-10 Years** **10+ Years**

Differences between proposed substitution and specified product: **Equal product per ASTM C 1658 and ASTM C 1396.**

Reason for not providing specified item: **National Gypsum offering new product into industry/marketplace.**

Similar Installation:

Project: Architect:

Address: Owner:

Date Installed:

Proposed substitution affects other parts of Work: **No**

Supporting Data Attached: Drawings Product Data Samples Tests Reports Other

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by:

Signature:

Firm Name:

Address:

Phone:

Attachments:

A/E's Review and Action:

- Substitution approved – Make submittals in accordance with Division 1 Section: Substitutions.
- Substitution approved as noted – Make submittals in accordance with Division 1 Section: Substitutions.
- Substitution rejected – Use specified materials.
- Substitution Request received too late – Use specified materials.

Signed By:

Date:

Additional Comments: Contractor Subcontractor Supplier Manufacturer A/E Other

Upon completion return to:

Name:

Address:

Phone:

Fax:

Email:

National 
Gypsum®

Description

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

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

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 hr.).

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 National Gypsum Company limited warranties for further details.
- Fiberglass mat on face and back has special coating for easy handling.

Installation Recommendations

GENERAL

Install EXP Shaftliner consistent with methods described in specific application details for National Gypsum Cavity Shaftwall Systems or Area Separation Fire Wall Systems in *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 purplechoice.info 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. Refer to page 351.
- 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.

For More Information

ARCHITECTURAL SPECIFICATIONS

National Gypsum Company's CSI Master Format® 3-part guide specifications are downloadable as editable Microsoft® Word documents at: nationalgypsum.com.

LATEST INFORMATION AND UPDATES

For the latest technical information and updates, call NGC Construction Services: **1-800-NATIONAL (628-4662)** or visit our website: nationalgypsum.com.

Job Name: _____

Contractor: _____

Date: _____

Submittal Approvals: (Stamps or Signatures)

TECHNICAL DATA

PHYSICAL PROPERTIES	
EXP Shaftliner	
Thickness¹, Nominal	1" (25.4 mm)
Width¹, 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/m ²)
Edges¹	Double Beveled
Flexural Strength¹, Perpendicular	≥ 230 lbf. (1,023 N)
Flexural Strength¹, Parallel	≥ 80 lbf. (356 N)
Humidified Deflection¹	N/A
Nail Pull Resistance¹	≥ 80 lbf. (356 N)
Hardness¹ – Core, Edges and Ends	≥ 15 lbf. (67 N)
Thermal Resistance⁵	R = .65
Water Absorption¹ (% 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 Resistance⁶, ASTM D3273	Score of 10
Product Standard Compliance	ASTM C1658
Fire-Resistance Characteristics	
Core Type	Type X
UL Type Designation	FSW-7
Combustibility²	Non-combustible Core
Surface Burning Characteristics³	Class A
Flame Spread³	0
Smoke Development³	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 E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C	
Gypsum Association, GA-216, <i>Application and Finishing of Gypsum Panel Products</i>	
Gypsum Association, GA-238, <i>Guidelines for Prevention of Mold Growth on Gypsum Board</i>	
National Gypsum Company, <i>NGC Construction Guide</i>	
1. Specified minimum values per ASTM C1658, tested in accordance with ASTM C473.	
2. Tested in accordance with ASTM E136.	
3. Tested in accordance with ASTM E84.	
4. Please consult 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.	



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NationalGypsum.com
AskForPurple.com