

Description

Gold Bond® BRAND Fire-Shield® Shaftliner consists of a fire-resistant Type X gypsum core encased in green, heavy, moisture-resistant paper that is 100-percent recycled on the face and back sides. The face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and finished smooth.

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

Long edges of shaftliner are double beveled to ease installation.

Basic Uses

APPLICATIONS

Use Fire-Shield Shaftliner in the construction of lightweight fire barriers for cavity shaftwalls (1-4 hr.) and area separation fire walls (3-hr.).

ADVANTAGES

- Approved component in specific UL fire-rated designs.
- Lightweight, cost-efficient material.
- Cuts easily for quick installation.
- The gypsum core will not support combustion or transmit temperatures greatly in excess of 212°F (100°C) until completely calcined, a slow process.
- Dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.
- Achieves GREENGUARD and GREENGUARD Gold Certification. GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit: ul.com/gg.
- Qualifies as a low-VOC emitting material by meeting California Specification 01350. For more information, visit: calrecycle.ca.gov/greenbuilding/specs/section01350/.

Installation Recommendations

GENERAL

Install Fire-Shield Shaftliner consistent with methods described in specific application details for National Gypsum Cavity Shaftwall Systems or Area Separation Fire Wall Systems or other fire-resistance rated designs.

Limitations

- Avoid exposure to excessive or continuous moisture.
- Avoid exposure to extreme temperatures. Do not use Shaftliner in areas that will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.
- Do not use shaftliner boards in an unlined air-supply duct.
- Isolate shaftliner from contact with building structure in locations where structural movement may impose direct loads on shaftliner assemblies.

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	
FIRE-SHIELD SHAFTLINER	
Thickness¹, Nominal	1" (25.4 mm)
Width¹, Nominal	2' (610 mm)
Length^{1,4}, Standard	8' – 12' (2,438 – 3,658 mm)
Weight, Nominal	3.75 lbs./sq. ft. (18.31 k/m ²)
Edges¹	Double Beveled
Flexural Strength¹, Perpendicular	≥ 228 lbf. (1,014 N)
Flexural Strength¹, Parallel	≥ 77 lbf. (343 N)
Humidified Deflection¹	N/A
Nail Pull Resistance¹	≥87 lbf. (387 N)
Hardness¹ – Core, Edges and Ends	≥ 11 lbf. (49 N)
Thermal Resistance⁵	R= .83
Product Standard Compliance	ASTM C1396
Fire-Resistance Characteristics	
Core Type	Type X
UL Type Designation	FSW
Combustibility²	Non-combustible Core
Surface Burning Characteristics³	Class A
Flame Spread³	15
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 C1396 Standard Specification for Gypsum Board	
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-214, <i>Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels</i>	
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>	
<ol style="list-style-type: none"> 1. Specified values per ASTM C1396, 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 	



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