



ToughRock™ Fireguard® Shaftliner

Manufacturer

G-P Gypsum Corporation
133 Peachtree Street, N.E.
Atlanta, GA 30303
Technical Hotline: 1-800-225-6119 (M-F 8-7 ET)

Description

ToughRock™ Fireguard® (Type X) Shaftliner panels have a noncombustible, dimensionally stable inert gypsum core. The core contains a water-resistant additive that provides increased water resistance. The core has been reinforced with the addition of inorganic glass fibers, increasing its strength and its resistance to the passage of heat. The surfacings on both faces and on the long edges are 100% recycled paper. The front and back face papers are green. The ends are square cut, smooth finished with no paper facing.

Primary Uses

ToughRock Fireguard Shaftliner is one component in gypsum board shaftwall systems with a designated fire-resistive rating used in building construction.

A specially formulated gypsum core that includes glass fibers enables ToughRock Fireguard Shaftliner panels as an assembly component to remain intact during a fire, helping to protect framing members while preventing or delaying the spread of fire.

Limitations

- Non-load bearing
- Not to be used in an unlined air supply duct
- Not designed for exposure to constant high-moisture conditions or direct water
- Elevator door assemblies require support independent of shaftwall partitions
- Good construction practice calls for partition control joints to coincide with those of the building structure
- Limiting loads and heights not to exceed design specification
- Provide flexible sealant/caulk at partition perimeters and penetrations to avoid air leakage/whistling and dust collection

Applicable Standards

ASTM C 442

Building Code Conformity

ToughRock Fireguard Shaftliner panels conform to the requirements of major building codes.

Sizes and Edges

Thickness	Widths	Lengths
nominal	nominal	standard
1"	24"	8'-12'

Edges: Double beveled.

Supplemental Materials

Tested metal shaftwall assembly components, corner beads and trim, expansion joints, joint tape, joint compound, sealants.

Technical Data

Surface Burning Characteristics

Flame spread 15 and smoke developed 0 when tested according to ASTM E 84 or CAN/ULC-S102. The core is noncombustible when tested in accordance with ASTM E 136.

Fire Resistance Ratings

Fireguard Shaftliner panels are a component of gypsum board shaftwall assemblies classified for fire resistance by Intertek Testing Services/Warnock Hersey.

Sound Control

Sound-rated assemblies require sealing at top, bottom, intersections, penetrations and other locations where sound leaks may develop.

Installation

Application Standards

For fire resistance rated construction application regarding board orientation, fastener type and spacing shall be consistent with the tested construction details. These details are published in the Intertek Testing Services/Warnock Hersey Listings Book.

The gypsum board shaftwall must be erected with all the components used in the successful fire endurance tests. Use only the components that were a part of the test; do not use any substitute components.

Methods

Appropriate methods of installation are based on the desired fire resistance rating or specified STC value required. These ratings and values require that details of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publications GA-201 and GA-216 will facilitate optimum performance through preferred construction practices.

ToughRock Fireguard Shaftliner panels are but one component in gypsum board shaftwall assemblies. Other fire-rated gypsum boards as well as certain metal components are used to make an assembly. The gypsum board shaftwall shall be erected with all the components used in the successful fire endurance tests. The installation method selected should be planned carefully to minimize the number of end joints. ToughRock Fireguard Shaftliner can be cut to the necessary size by scoring the face paper with a sharp knife then snapping away from the cut face. The back paper is then cut or broken by snapping the board in the opposite direction. All cut edges and ends are smoothed by rasping or other suitable methods to form tight-fitting joints when installed.

Safety

During installation involving cutting, scoring and breaking, safety glasses are recommended. If the work environment is dusty, an approved respirator should be worn. Do not use a power saw.

Handling Precautions

Stack ToughRock Fireguard Shaftliner panels on a flat, level surface. As individual sheets are removed for installation, they should be raised carefully on edge and carried in a vertical position. Appropriate handling also is outlined in Gypsum Association Publications GA-216 and GA-801.

Take care to avoid impact, undue flexing and subsequent damage to board edges, ends and corners. Avoid scuffing the face to be finished.

Material Safety Data Sheet

Material Safety Data Sheet (MSDS) available upon request

PHYSICAL PROPERTIES

PROPERTIES¹	TOUGHROCK™ FIREGUARD® SHAFTLINER PANELS
Thickness, nominal	1" (25.4mm), ± 1/32" (0.8mm)
Width, nominal	24" (610mm) ± 3/32" (2.4mm)
Length ³ , standard	8' (2440mm) to 14' (4270mm) ± 1/4" (6.4mm)
Weight, lbs./M sq. ft., nominal	4000
Edges	Double beveled
Flexural strength, minimum	
Parallel, lbs.f.	80
Perpendicular, lbs.f.	230
R value ²	.87
Nail pull resistance lbs. minimum	80
Hardness, lbs. force core, edges and ends	≥15
Surface Burning Characteristics (per ASTM E 84 or CAN/ULC-S102)	Flame Spread 15 Smoke Developed 0 (Product can be considered a Class A or Class I material)
Packaging	Single pieces

¹Tested in accordance with ASTM C 473.

²Tested in accordance with ASTM C 518.

³Lengths normally stocked are 8', 10' and 12'.

Special lengths up to 14' may be available with lead times and minimum runs, which vary by plant. Call 800-947-4497 for further information.

Note: Specified minimum values are as in ASTM C 442. Values are based upon tests conducted in accordance with ASTM C 473.

For more information about these and other products, contact:
G-P Gypsum Corporation • 133 Peachtree Street NE • Atlanta, GA 30303

Or visit our Web site at www.gp.com/gypsum.

For technical assistance, call the G-P Gypsum Technical Service Hotline at 1-800-225-6119.

For sales information and order placement, call:

USA Midwest: 1.800.876.4746
 South: 1.800.327.2344
 Northeast: 1.800.947.4497
 West: 1.800.824.7503

CANADA 1.800.387.6823
 Quebec: 1.800.361.0486



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