GP TOUGHROCK® SHAFTLINER

Manufacturer

Georgia-Pacific Gypsum LLC
133 Peachtree Street
Atlanta, GA 30303

Technical Service Hotline: 1-800-225-6119

Description

ToughRock® Shaftliner panels have a noncombustible gypsum core (as described in ASTM E136) encased in moisture-resistant green paper facings.

Primary Uses

ToughRock Shaftliner panels are one component in gypsum board shaftwall, stairwell, area separation wall, and horizontal membrane and duct protection assemblies with a designated fire-resistive rating used in building construction.

A specially formulated gypsum core enables ToughRock Shaftliner panels as an assembly component, helping to protect framing members while possibly preventing or delaying the spread of fire.

Limitations

- Non-load bearing
- Not to be used in an unlined air supply or return 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 C1396, Section 6

ToughRock Shaftliner panels conform to the requirements of International Building Code (IBC) 2021 Chapter 7 and International Residential Code (IRC) 2021 Chapter 3 Section 302.

Sizes

Thickness, nominal	1" (25 mm)
Widths, nominal	24" (610 mm)
Lengths, standard	8' – 12' (2435 mm – 3658 mm)

Edges

Double beveled.

Supplemental Materials

Metal shaftwall and area separation wall 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 E84. The core is noncombustible when tested in accordance with ASTM E136.

Fire Resistance Ratings

ToughRock Shaftliner is UL classified Type TRSL for fire rated assemblies.

Sound Control

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

Installation – Application Standards

Application regarding board orientation, fastener type and spacing shall be consistent with the tested construction details.

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 designs, the installation methods outlined in Gypsum Association Publication GA-216 will facilitate optimum performance through established construction practices.

ToughRock Shaftliner panels are but one component in gypsum board wall assemblies. Other fire-rated gypsum boards as well as certain metal components are used to make an assembly. The gypsum board wall 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 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.

Handling and Use – Caution

This product may contain fiberglass which may cause skin irritation. Dust and fibers produced during the handling and installation of the product may cause skin, eye and respiratory tract irritation. Avoid breathing dust and minimize contact with skin and eyes. Wear long sleeve shirts, long pants and eye protection. Alway maintain adequate ventilation. Use a dust mask or NIOSH/MSHA approved respirator as appropriate in dusty or poorly ventilated areas.

Handling Precautions

Stack ToughRock Shaftliner panels flat on a 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.

Material Safety Data Sheet

Safety Data Sheet (SDS) is available upon request or online at www.buildgp.com/safetyinfo.

continued

Submittal Approvals

Job Name _____

Contractor _____

Date _____

Stamps/Signatures

Physical Properties

Properties	Toughrock® Shaftliner
Thickness, nominal inches[3]	1" (25.4 mm), ± 1/32" (0.8 mm)
Width, nominal[3]	24" (610 mm) – 3/32" (2.4 mm)
Length, standard[3]	8' (2440 mm) to 12' (3658 mm) ± 1/4" (6.4 mm)
Weight[1], lbs./sq. ft., nominal (kg/m^2)	4 (19.5)
Edges[3]	Double beveled
Surfacing	Recycled paper coverings on face, back and long edges
Flexural Strength[3] spacing, min.	
Parallel, lbf. (N)	77 (343)
Perpendicular, lbf. (N)	228 (1014)
Hardness, lbf. (N) (core, edges and ends)	≥15
Packaging	Singe pieces
Surface Burning Characteristics[4, 2]	
Flame Spread	15
Smoke Developed	0
(The core is noncombustible when tested in accordance with ASTM E136.)	

[1] Represents approximate weight for design and shipping purposes. Actual weight may vary depending on manufacturing location and other factors.
[2] Surface burning characteristics per ASTM E84.
[3] Specified minimum values are as defined in ASTM C1396.
[4] Products qualify for NFPA Class A or IBC Class 1.

Georgia-Pacific Gypsum

U.S.A. GP Gypsum LLC

SALES INFORMATION AND ORDER PLACEMENT

U.S.A. West: **1-800-824-7503**
Midwest: **1-800-876-4746**
South Central: **1-800-231-6060**
Southeast: **1-800-327-2344**
Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**
Quebec Toll Free: **1-800-361-0486**

TECHNICAL INFORMATION

U.S.A. and Canada: **1-800-225-6119,** www.buildgp.com

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CAUTION For product fire, safety and use information, go to www.buildgp.com/safetyinfo or call 1-800-225-6119.

FIRE SAFETY CAUTION Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/system.