Manufacturer

Georgia-Pacific Gypsum
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Technical Service Hotline: 1-800-225-6119

Description

ToughRock® Fireguard C® Soffit Board consists of a noncombustible (per ASTM E136), dimensionally stable gypsum core. The 5/8″ (15.9 mm) ToughRock® Fireguard C® Soffit Board is a UL Classified gypsum board and can be used in a variety of fire-rated wood and steel framed assemblies. The product is surfaced on both faces and long edges with tan-colored 100% recycled paper. The ends are square cut, smooth finished with no paper facing.

Georgia-Pacific ToughRock Gypsum Board products are GREENGUARD and GREENGUARD Gold Certified for low emissions of volatile organic compounds (VOCs). They are listed in CHPS® High Performance Product Database as low emitting products.

Primary Uses

ToughRock Fireguard C Soffit Board may be used in multi-family residential, commercial, institutional or industrial buildings as exterior ceilings or soffits that are protected from direct exposure to water. These designs may include such constructions as ceilings in carports, garages, open porches, canopies and walkways.

Applicable Standards

Manufactured to meet ASTM C1396 Section 8; CSA-A82.27-M; and Federal Specification SS-L-30D, Type III, Grade X, Class 1.

Building Code Conformity

The products conform to the requirements of uniform IBC/IRC building codes.

Limitations

- Product should not be used as a nailing base to support heavy objects.
- It is not recommended for locations that are directly exposed to water. Suitable fascia, moulding and trim must be properly installed. At the jobsite, tarp or cover with plastic sheeting and be certain the roof is water-tight before installation begins.
- Maximum framing spacing for 5/8″ (15.9 mm) ToughRock Fireguard C Soffit Board is 24″ (610 mm) o.c. Perpendicular applications are preferred.
- Install control joints when any of the following conditions exist:
     a. The soffit or ceiling traverses an expansion, seismic or control element in the base building structure.
     b. The expanse of the ceiling or soffit exceeds 30′ (9144 mm) in one or both directions.
     c. A control joint is incorporated as an architectural feature.
- Install ventilation devices according to local building code requirements.
- Suspended exterior soffit or ceiling systems must be rigidized, braced or attached to solid hanger rod to resist wind uplift. Refer to ASTM C754 "Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products."

Technical Data

Flame spread rating of 15 and smoke developed 0, when tested in accordance with ASTM E84. The core is noncombustible when tested in accordance with ASTM E136.

The 5/8″ (15.9 mm) ToughRock Fireguard C Soffit Board is UL classified, Type TG-C and ULC classified, Type C.

NOTE: Building codes may not allow 1/4″ (6.4 mm) clearance ventilation screens in fire-rated soffit designs; therefore, ventilation will require roof-ridge, power vents or other means of attic ventilation.

One of the most commonly specified fire-rated soffit designs for a 1-hour roof-ceiling construction under trusses spaced 24″ (610 mm) o.c. is detailed in the "Fire Resistance Design Manual" (GA-600), under GA File No. RC 2601. For additional information, also consult Georgia-Pacific Gypsum catalog and GA-216.

Handling Precautions

Stack ToughRock Fireguard C Soffit Board 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 is outlined in Gypsum Association publications GA-216 and GA-801. Avoid impact, undue flexing and subsequent damage to board edges, ends and corners. Avoid scuffing the face to be finished.

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. Always maintain adequate ventilation. Use a dust mask or NIOSH/MSHA approved respirator as appropriate in dusty or poorly ventilated areas.

Material Safety Data Sheet

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

Finishing

Joints and fastener heads may be finished in the normal way that ToughRock Gypsum Board is finished. However, experience has shown that setting type compounds are less sensitive to humidity and the finishing process can be completed in less time. Avoid finishing in cold or inclement weather. The installation of batten strips may be an acceptable alternative to joint finishing.

After the finishing process is complete, the exposed surface should be primed with one coat of a good quality exterior alkyd or oil-based primer-sealer. Apply a finish coat of exterior paint in accordance with the paint manufacturer's instructions.

Submittal Approvals

Job Name

Contractor

Date

Stamps/Signatures

Physical Properties

Properties	Toughrock® Fireguard C® Soffit Board
Thickness, nominal inches	5/8″ (15.9 mm), ± 1/64″ (0.4 mm)
Width, nominal	4′ (1220 mm) ± 3/32″ (2.4 mm)
Length, standard	8′ (2440 mm) to 12′ (3658 mm) ± 1/4″ (6.4 mm)
Weight[1], lbs./sq. ft., nominal (kg/m^2)	2.2 (10.7)
Edges	Tapered
Surfacing	100% recycled paper coverings on face, back and long edges

Flexural Strength[3] spacing, min.
    Parallel, lbf. (N)
    Perpendicular, lbf. (N)
	
	≥ 46 (205)
	≥147 (654)

R Value[2], ft^2•°F•hr/BTU (m^2•K/W)	0.56 est. (0.10)
Nail Pull Resistance[3], minimum, lbf. (N)	≥87 (387)
Hardness, lbf. (N) (core, edges and ends)	≥67
Humidified Deflection	4/8″ (12 mm)
Packaging	Two pieces per bundle, face-to-face and end taped

Surface Burning Characteristics[4] (per ASTM E84)
    Flame Spread
    Smoke Developed
(The core is noncombustible when tested in accordance with ASTM E136.)
	
	15
	0

[1] Represents approximate weight for design and shipping purposes. Actual weight may vary depending on manufacturing location and other factors.

[2] Per Gypsum Association document GA-235.

[3] Specified minimum values are as defined in ASTM C1396.

[4] Products qualify for NFPA Class A or IBC Class 1.

GP Georgia-Pacific
Gypsum

U.S.A.   Georgia-Pacific Gypsum LLC
              Georgia-Pacific Gypsum II LLC
Canada   Georgia-Pacific Canada LP

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.gpgypsum.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.