

Manufacturer

Georgia-Pacific Gypsum Georgia-Pacific Canada
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Description

ToughRock® Flexroc® Gypsum Board has a noncombustible (per ASTM E136), dimensionally stable gypsum core sandwiched between layers of 100% recycled paper facing. The ivory-colored, front facing paper is formed along each edge, wrapped around and sealed to strong liner facing paper on the back side. This produces a strong, yet flexible gypsum board that meets most general construction requirements for curved walls and ceilings. The 1/4" (6.4 mm) ToughRock Flexroc Gypsum Board is available in convenient widths and lengths. Flame spread rating of 15 and smoke developed 0, when tested in accordance with ASTM E84.

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.

ToughRock Flexroc Gypsum Board comes from the factory as a ready-to-finish product. The long edges are tapered. After installation, the ends, edges, corners and fastener heads are normally concealed with joint treatment to produce a smooth, seamless surface prior to final decoration.

ToughRock Flexroc Gypsum Board can be used for most walls, partitions, stairways and ceilings in both new construction and remodeling projects as a covering material for curved structures. The 1/4" (6.4 mm) ToughRock Flexroc Gypsum Board can be formed to a curve with a short radius.

Please refer to the following documents for application procedures:

- Gypsum Association publication GA-216, "Recommended Procedure for the Application and Finishing of Gypsum Panel Products"
- ASTM C840, "Standard Specification for Application and Finishing of Gypsum Board"

Product Specification

ToughRock Flexroc Gypsum Board is manufactured to meet or exceed the requirements of ASTM C1396, section 5; CSA-A82.27-M; and Federal Specification SS-L-30D, Type III, Grade R.

Limitations

- ToughRock Flexroc Gypsum Board is a nonstructural product and should not be used as a nailing base or to support heavy wall-mounted objects. It should not be installed using only staples or adhesives.
- Do not use ToughRock Flexroc Gypsum Board where there is prolonged exposure to temperatures exceeding 125° F (52° C) and/or continuous exposure to extreme humidity, e.g., located adjacent to wood-burning stoves, heating appliances, steam rooms, showers, gang shower rooms and swimming pools.
- For best results, application should comply with ASTM C840. Consult manufacturer's literature when water-based textures are to be used.
- Do not apply directly over blanket insulation installed continuously across framing members. Instead, recess blankets and attach blanket flanges to sides of studs or joists.

Product Application

ToughRock Flexroc Gypsum Board can be applied to wood framing with drywall nails or screws and with special adhesives in combination with supplemental fasteners. Flexroc may also be applied to light gauge metal framing with Type S screws. See Table I for framing spacing details.

ToughRock Flexroc Gypsum Board can be cut to the necessary size by scoring the face paper with a sharp knife then snapping away from the cut face. Then, cut the back paper and snap the board in the opposite direction. Smooth all cut edges and ends by rasping or other suitable methods to form tight-fitting joints when installed.

In general, for curved ceilings, apply 1/4" (6.4 mm) ToughRock Flexroc Gypsum Board to the ceiling first, at right angles to the framing, making sure board extends into corners and makes contact with top plate. The 1/4" (6.4 mm) ToughRock Flexroc Gypsum Board requires support at all cutouts and openings. Make cutouts AFTER board has been installed.

A perpendicular application is recommended for walls and partitions. This construction produces a stronger wall and reduces the number of joints to be finished. For smaller radii, a parallel application is recommended, since 1/4" (6.4 mm) ToughRock Flexroc Gypsum Board is more flexible in the parallel direction. Start with the upper boards and cut openings for doors or windows from full boards. Or, plan joints to occur on studs nearest the center of the openings. Protect all exposed edges, corners and abutments with metal or plastic trim accessories.

ToughRock Flexroc Gypsum Board is usually installed in a two-layer application. Face boards should be offset over joints of base boards. Fasten base boards to studs with at least four 1" (25 mm) screws per board width in each stud. Fasteners on the face boards should be spaced 12" (304 mm) o.c. with a minimum of five 1-5/8" (41 mm) screws per board width in each stud.

For applications to an outside radius, attach Flexroc to the last stud on the adjacent wing wall. Screw-attach board to each subsequent stud as you carefully fit the board around the curve.

Applications inside an arc require two people. Each person supports Flexroc at one end. Then, both should pull in on the ends with one hand while using the other hand to push the center of the board carefully into place. Fasten board starting with the center stud working out toward the ends.

Handling Precautions

Stack ToughRock Flexroc Gypsum 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 publication GA-216.) 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.

Decoration

ToughRock Flexroc Gypsum Board is designed to accept most types of paints, textures and wall covering materials. Georgia-Pacific Gypsum strongly recommends priming the surface with a full-bodied, quality latex primer before applying a final decorative material. Priming will equalize the suction variation

Submittal Approvals

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between the joint compounds and the paper surface. If glossy paints are used, skim coat joint compound over the entire surface to reduce highlighting or joint photographing. This method is also recommended in areas with severe natural or artificial side lighting. Georgia-Pacific Gypsum recommends application of a sealer prior to applying wallpaper or other wall covering to the board so that the board surface will not be damaged if the covering is subsequently removed during redecorating. Joint treatment must be thoroughly dry before proceeding with primer application and final decoration. Refer to Gypsum Association Publications GA-214 and GA-216 for joint treatment and finishing recommendations.

Material Safety Data Sheet

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

Technical Data—Surface Burning Characteristics

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.

Packaging

Two boards per bundle, face-to-face and end taped.

Physical Properties

Properties	ToughRock® Flexroc® Gypsum Board
Thickness, nominal inches	1/4" (6.4 mm), ± 1/64" (0.4 mm)
Width, nominal	4' (1220 mm), ± 3/32" (2.4 mm)
Length, standard	8' (2400 mm) ± 1/4" (6.4 mm)
Weight ¹ , lbs./sq. ft., nominal (kg/m ²)	1.1 (5.4)
Edges	Tapered edge
Flexural Strength ³ spacing, min.	
Parallel, lbf. (N)	≥16 (71)
Perpendicular, lbf. (N)	≥46 (205)
R Value ² , °F•ft ² •hr/BTU (m ² •K/W)	0.22 (0.04)
Nail Pull Resistance ³ , minimum, lbf. (N)	≥36 (160)
Hardness ³ , lbf. (N) (core, edges and ends)	≥15 (67)
Surface Burning Characteristics ⁴ (per ASTM E84)	
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 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.

Table 1

MINIMUM BENDING RADII FOR TOUGHROCK® 1/4" (6.4 mm) FLEXROC® GYPSUM BOARD*					
APPLICATION	CONDITION	LENGTHWISE		WIDTHWISE	
		Bend Radii	Max. Stud Spacing	Bend Radii	Max. Stud Spacing
Inside (Concave)	Dry	32" (812 mm)	9" (228 mm) o.c.	20" (508 mm)	8" (203 mm) o.c.
	Wet	20" (508 mm)	8" (152 mm) o.c.	10" (254 mm)	6" (152 mm) o.c.
Outside (Convex)	Dry	32" (812 mm)	9" (228 mm) o.c.	11" (279 mm)	6" (152 mm) o.c.
	Wet	14" (135 mm)	6" (152 mm) o.c.	7" (178 mm)	5" (127 mm) o.c.

* Tests were conducted at 50% Relative Humidity.



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.buildgpp.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.