

**Manufacturer**

Georgia-Pacific Gypsum  
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 Atlanta, GA 30303

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 Mississauga, ON L5N 5S3

Technical Service Hotline: 1-800-225-6119

**Description**

**ToughRock® Gypsum Board** has a noncombustible (per ASTM E136), dimensionally stable, gypsum core. The surfacings on both facings and on the long edges are 100% recycled paper. The front facing (side to be finished) and the long edges are an ivory color; the back facing paper is gray. 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 Gypsum Board is a wall or ceiling covering material for use in new building construction or renovation work. It is designed for direct attachment (screws, nails or adhesive) to wood and metal framing or existing surfaces. It may also be used as a covering material for flat or curved structures. The facing material may be formed to a curve with a short radius.

ToughRock Gypsum Board is manufactured with an ivory paper facing designed to receive joint treatment, paint, wall covering, textured coatings or other finish treatment.

**Limitations**

- ToughRock Gypsum Board is a nonstructural product and should not be used as a nailing base to support heavy wall-mounted objects.
- It is intended for interior applications only and it must be kept dry and not used where exposure to moisture is extreme or continuous.
- Do not use ToughRock 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.
- Consult water-based textures manufacturer’s literature if they are to be used.

**Applicable Standards**

Manufactured to meet ASTM C1396 Section 5.

**Building Code Conformity**

ToughRock Gypsum Board conforms to requirements of the current IBC, IRC and NBCC codes.

**Sizes**

Thickness, nominal	1/4" (6.4 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)
Widths, nominal	4' (1220 mm)	4' (1220 mm)	4' (1220 mm)
Lengths, standard	8'-12' (2440–3658 mm)	8'-12' (2440–3658 mm)	8'-16' (2440–4880 mm)

**Edges**

1/4" (6.4 mm) and 3/8" (9.5 mm) tapered and square, 1/2" (12.7 mm) square, tapered or tapered with round edges.

**Supplemental Materials**

*Fasteners:* Nails, screws or adhesive.

*Joint System:* Tape, bedding compound and topping compound.

*Trims:* Corner bead, edge/casing bead, control joints, floor/ceiling runners and channels.

*Wall and ceiling textures.*

*Sealants.*

**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.

**Application Standards**

ToughRock Gypsum Board shall be installed according to the Gypsum Association Publication GA-216 "Recommended Specifications for the Application and Finishing of Gypsum Panel Products" and ASTM C840 "Standard Specification for Application and Finishing of Gypsum Board" for non-fire rated construction.

**Methods**

Installation methods for single or multi-layer construction involving attachment using mechanical fasteners, adhesive or adhesive with supplemental fasteners are numerous and varied. Refer to Gypsum Association publications for application and installation details.

The installation method selected should be planned carefully to minimize the number of end joints. ToughRock 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. 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.

For sound rated assemblies, appropriate methods of installation are based on the desired specified STC value required. These ratings and values require that all details of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publication GA-216 will facilitate optimum performance through preferred construction practices.

**Handling Precautions**

Stack ToughRock Gypsum Board flat on a level surface. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. Appropriate handling is also 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.

**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](http://www.buildgp.com/safetyinfo).

**Board Decoration**

ToughRock Gypsum Board is designed to accept most types of paints, texture 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 between the joint compounds and the paper surface. If glossy paints are used in such areas as kitchens or bathrooms, 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.

*continued* →

**Submittal Approvals**

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Date \_\_\_\_\_

### Maximum Framing Spacing (Wood or Metal)

	Single-Ply Thickness	Application	O.C. Spacing
Ceilings	1/2" (12.7 mm)	Parallel to Framing	16" (406 mm) o.c.
	1/2" (12.7 mm)	Right Angles to Framing	24" (610 mm) o.c.
Walls	3/8" (9.5 mm)	Right Angles or Parallel	16" (406 mm) o.c.
	1/2" (12.7 mm)	Right Angles or Parallel	24" (610 mm) o.c.

### Single-Ply Application<sup>1</sup>

Board Thickness	Minimum Nail Length	Nail Applications		Screw Applications	
		Walls	Ceilings	Screw Length	Spacing Walls <sup>2</sup> Ceilings
3/8" (9.5 mm)	1-1/4" (32 mm)	8" (203 mm)	7" (178 mm)	7/8" (22 mm)	16" (406 mm) 12" (305 mm)
1/2" (12.7 mm)	1-3/8" (35 mm)	8" (203 mm)	7" (178 mm)	1" (25 mm)	16" (406 mm) 12" (305 mm)

<sup>1</sup> Also refer to local code requirements.

<sup>2</sup> Where framing members are spaced 24" (610 mm) o.c., screw spacing is 12" (305 mm).

**Nails:** ASTM C514, Nails for the Application of Gypsum Board **Screws:** ASTM C1002, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Base

### Physical Properties

Properties	1/4" (6.4 mm) ToughRock® Gypsum Board	3/8" (9.5 mm) ToughRock® Gypsum Board	1/2" (12.7 mm) ToughRock® Gypsum Board
Thickness, nominal inches	1/4" (6.4 mm), ± 1/64" (0.4 mm)	3/8" (9.5 mm), ± 1/64" (0.4 mm)	1/2" (12.7 mm), ± 1/64" (0.4 mm)
Width, nominal	4' (1220 mm), ± 3/32" (2.4 mm)	4' (1220 mm), ± 3/32" (2.4 mm)	4' (1220 mm), ± 3/32" (2.4 mm); 54" (1372 mm), ± 3/32" (2.4 mm)
Length, standard	8' (2440 mm) to 12' (3658 mm) ± 1/4" (6.4 mm)	8' (2440 mm) to 12' (3658 mm) ± 1/4" (6.4 mm)	8' (2440 mm) to 16' (4880 mm) ± 1/4" (6.4 mm)
Weight <sup>1</sup> , lbs./sq. ft. nominal (kg/m <sup>2</sup> )	1.2 (5.0)	1.4 (6.8)	1.6 (7.8)
Edges	Tapered and square edge	Tapered and square edge	Tapered, square or tapered with round edges
Surfacing	100% recycled paper face, back and long edges	100% recycled paper face, back and long edges	100% recycled paper face, back and long edges
Flexural strength <sup>3</sup> , min.			
Parallel, lbf. (N)	≥ 16 (71)	≥ 26 (116)	≥ 36 (160)
Perpendicular, lbf. (N)	≥ 46 (205)	≥ 77 (343)	≥ 107 (476)
R Value <sup>2</sup> , °F•ft <sup>2</sup> •hr/BTU (m <sup>2</sup> •K/W)	0.22 est. (0.04)	0.33 (0.06)	0.45 (0.08)
Nail Pull Resistance <sup>3</sup> , minimum, lbf. (N)	≥ 36 (160)	≥ 56 (249)	≥ 77 (343)
Hardness, lbf. (N) (core, edges and ends)	≥ 15 (67)	≥ 15 (67)	≥ 15 (67)
Humidified deflection <sup>3</sup>	Not applicable	15/8" (45 mm)	10/8" (32 mm)
Surface Burning Characteristics <sup>4</sup> (per ASTM E84)			
Flame Spread	15	15	15
Smoke Developed	0	0	0

<sup>1</sup> Represents approximate weight for design and shipping purposes. Actual weight may vary depending on manufacturing location and other factors.

<sup>2</sup> Per Gypsum Association document GA-235.

<sup>3</sup> Specified minimum values are as defined in ASTM C1396.

<sup>4</sup> Products qualify for NFPA Class A or IBC Class 1.



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](http://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.