

Manufacturer

Georgia-Pacific Gypsum LLC
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Atlanta, GA 30303

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Technical Service Hotline: 1-800-225-6119

Description

ToughRock® Gypsum Board has a noncombustible (per ASTM E 136), 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.

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.

1/2" ToughRock Light & Strong has been specifically designed to perform like a ceiling board where improved sag resistance is desired. It can be used on ceilings with 24" o.c. frame spacing when a water based texture is applied. Always seal the boards with a high-quality latex primer before applying texture. Insulation should not exceed 2.2 lbs/sf (9.9 kg/m²). Please see Maximum Framing Spacing Table on page 2 for details.

ToughRock Gypsum Board is manufactured with a 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 C 1396 Section 5 (Gypsum Wallboard) and Section 12 (Gypsum Ceiling Board).*

Building Code Conformity

ToughRock Gypsum Board conforms to requirements of 2009 IBC and IRC codes.

Sizes

Thickness - nominal	1/4" (6.4 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)
Widths - nominal	4' (1219 mm)	4' (1219 mm)	4' (1219 mm)
Lengths - standard	8'-12' (2438–3658 mm)	8'-14' (2438–4267 mm)	6'-16' (1828–4876 mm)

Edges

1/4" (6.4 mm) and 3/8" (9.5 mm) tapered, 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 E 84 or CAN/ULC-S102. The core is noncombustible when tested in accordance with ASTM E 136. New and improved lighter and stronger ToughRock has not been tested for Flame Spread and Smoke Developed.

Sound Control

Sound rated assemblies require sealing at top, bottom, intersections and other penetrations to ensure the effectiveness of the assembly and obtain desired STC rating. Test reports are available upon request.

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 C 840 "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.

Safety

See *Handling and Use—Caution* section at end of this document.

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.

Material Safety Data Sheet

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

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.

* Limited to new and improved, lighter and stronger ToughRock available from select manufacturing facilities. Call GP Customer Service for availability.

Submittal Approvals

Job Name _____

continued →

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.

* When using a water-based texture on ceilings, gypsum board shall be installed at right angles to framing. ToughRock® 1/2" (12.7 mm) CD® Ceiling Board and 1/2" (12.7 mm) ToughRock Light & Strong³ are recommended for spacing 24" (610 mm) o.c. ToughRock 1/2" (12.7 mm) Gypsum Board may be used for spacing 16" (406 mm) o.c.

Single-Ply Application¹

Nail Applications			Screw Applications	
Board Thickness	Minimum Nail Length	Spacing Walls Ceilings	Screw Length	Spacing Walls ² 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)

Nails: ASTM C 514, Nails for the Application of Gypsum Board **Screws:** ASTM C 1002, 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	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)
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' (4876 mm) ± 1/4" (6.4 mm)
Weight ⁴ , lbs./sq. ft. nominal (kg/m ²)	1.2 (5.0)	1.35 (6.1)	1.39 ³ (6.3), 1.65 (7.5)
Edges	Tapered edge	Tapered edge	Tapered, square & tapered with round edges
Surfacing, back & long edges	100% recycled paper face, back & long edges	100% recycled paper face, back & long edges	100% recycled paper face, back & long edges
Flexural strength, min.			
Parallel, lbs. (N)	≥16 (71)	≥26 (116)	≥36 (160)
Perpendicular (N)	≥46 (205)	≥77 (343)	≥107 (476)
R Value ⁵ , ft ² •°F•hr/BTU (m ² •K/W)	.22 est. (0.04)	.33 (0.06)	.45 (0.08)
Nail pull resistance, Min., lbs. (N)	≥36 (160)	≥56 (249)	≥77 (343)
Hardness, lbs. force (core, edge & end)	≥15	≥15	≥15
Humidified deflection	Not applicable	15/8" (45 mm)	5/16" ³ (8 mm), 10/8" (30 mm)

¹ Also refer to local code requirements.

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

³ Based on new and improved, lighter and stronger ToughRock. Available from select manufacturing facilities. Call GP Gypsum Customer Service for availability.

⁴ Represents approximate weight for design and shipping purposes. For more exacting weight for your area, consult your local representative or call the Georgia-Pacific Gypsum Technical Hotline at 800-225-6119.

⁵ Tested in accordance with ASTM C 518

NOTE: Specified minimum values are as defined in ASTM C 1396



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

SALES INFORMATION AND ORDER PLACEMENT

U.S.A. Midwest: 1-800-876-4746 West: 1-800-824-7503
South: 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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WARRANTIES, REMEDIES AND TERMS OF SALE For current warranty information for this product, please go to www.gpgypsum.com and select the product for warranty information. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at www.gpgypsum.com.

UPDATES AND CURRENT INFORMATION

The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

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

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.

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.