

Manufacturer

Georgia-Pacific Gypsum LLC
133 Peachtree St., Atlanta, GA 30303
Technical Service Hotline: 1-800-225-6119 (M-F 8-5 ET)

Description

ToughRock® Gypsum Board has a noncombustible, 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.

ToughRock Gypsum Board is manufactured with a white 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 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

ASTM C 36, ASTM C 1396, CSA-A82.27-M and Federal Specification SS-L-30D, Type III, Grade R.

Building Code Conformity

ToughRock Gypsum Board conforms to the requirements of major building codes.

Sizes

Thickness - nominal	1/4"	3/8"	1/2"
Widths - nominal	4'	4'	4'
Lengths - standard	8'-12'	8'-14'	6'-16'

Edges

1/4" and 3/8" tapered, 1/2" 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.

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 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

During installation involving cutting, scoring, breaking and sanding, safety glasses are recommended. If the work environment is dusty, a NIOSH-approved respirator should be worn.

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.

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.

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Submittal Approvals

Job Name _____

Contractor _____

Date _____

Stamps/Signatures

Maximum Framing Spacing (Wood or Metal)

Single-Ply Thickness	Application	O.C. Spacing
Ceilings*	1/2"	Parallel to Framing
	1/2"	Right Angles to Framing
Walls	3/8"	Right Angles or Parallel
	1/2"	Right Angles or Parallel

*When using a water-based texture on ceilings, gypsum board shall be installed at right angles to framing. ToughRock® 1/2" CD® Ceiling Board is recommended for spacing 24" o.c. ToughRock 1/2" Gypsum Board may be used for spacing 16" o.c.

Single-Ply Application¹

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

Board Thickness	Nail Applications		Screw Applications	
	Minimum Nail Length	Spacing Walls Ceilings	Screw Length	Spacing Walls Ceilings
3/8"	1 1/4"	8" 7"	7/8"	16" 12"
1/2"	1 3/8"	8" 7"	1"	16" 12"

¹Also refer to local code requirements.

²Where framing members are spaced 24" o.c., screw spacing is 12" o.c.

Physical Properties

Properties	1/4" Toughrock® Gypsum Board	3/8" Toughrock® Gypsum Board	1/2" Toughrock® Gypsum Board
Thickness, nominal	1/4" (6.4mm), ± 1/64" (0.4mm)	3/8" (9.5mm), ± 1/64" (0.4mm)	1/2" (12.7mm), ± 1/64" (0.4mm)
Width, nominal	4' (1220mm), ± 3/32" (2.4mm)	4' (1220mm), ± 3/32" (2.4mm)	4' (1220mm), ± 3/32" (2.4mm)
Length, Standard	8' (2440mm) to 12' (3660mm) ± 1/4" (6.4mm)	8' (2440mm) to 12' (3660mm) ± 1/4" (6.4mm)	8' (2440mm) to 16' (4880mm) ± 1/4" (6.4mm)
Weight ¹ , lbs./M sq. ft. nominal	1200 ¹	1350 ¹	1650 ¹
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.	20	30	40
Perpendicular	50	80	110
R Value ²	.22 est.	.33	.45
Nail Pull Resistance, Min., lbs.	40	60	80
Hardness, lbs. force (core, edge & end)	≥ 15	≥ 15	≥ 15
Humidified Deflection, inches	Not applicable	15/8"	19/8"

¹ 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.

² Tested in accordance with ASTM C 518.

NOTE: Specified minimum values are as defined in ASTM C 36 or ASTM C 1396.



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

Georgia-Pacific Gypsum Technical Hotline
U.S.A. and Canada: 1-800-225-6119
www.gpgypsum.com

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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.

LIMITATION OF REMEDIES AND DAMAGES

Our sole liability for any product claim shall be limited to reimbursement of the cost of repair or replacement of the affected product, up to a maximum amount of two times the original purchase price for the affected product. We shall not be responsible under any circumstances for lost profits, damage to a structure or its contents, or indirect, incidental, special or consequential damages. Claims

shall be deemed waived if they are not submitted to us in writing within ten (10) days after discovery of a product defect/circumstance giving rise to a claim.

CAUTION: For product fire, safety and use information, go to gp.com/safetyinfo.

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. For additional product fire, safety and use information go to

www.gp.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.

CAUTION: For product fire, safety and use information, go to gp.com/safetyinfo.