Manufacturer

Georgia-Pacific Gypsum
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Atlanta, GA 30303

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

Description

ToughRock® Lite-Weight Gypsum Board has a noncombustible (per ASTM E136), dimensionally stable, gypsum core. Facings and edge tapes 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. It is manufactured to be lighter than traditional Georgia-Pacific ToughRock Gypsum Board, making it easier to handle and install – and more economical to transport.

Georgia-Pacific ToughRock Gypsum Board products are GREENGUARD and GREENGUARD Gold Certified for low emissions of volatile organic compounds (VOCs).

Primary Uses

The 1/2″ (12.7 mm) ToughRock Lite-Weight Gypsum Board is a wall or ceiling covering material for use in new building construction or renovation work. It has been specifically designed to perform like a ceiling board where improved sag resistance is desired. It can be used on ceilings with 24″ (610 mm) 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/m^2). Please see Maximum Framing Spacing Table on page 2 for details.

ToughRock Lite-Weight Gypsum Board is manufactured with an ivory paper facing designed to receive joint treatment, paint, wall covering, textured coatings or other finish treatment. It is designed for direct attachment (screws, nails or adhesive) to wood and metal framing and existing surfaces.

Limitations

- ToughRock Lite-Weight 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, must be kept dry and should not be used where exposure to moisture is extreme or continuous.
- Do not use ToughRock Lite-Weight 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 (Gypsum Wallboard) and Section 12 (Gypsum Ceiling Board).

Building Code Conformity

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

Sizes

Thickness, nominal	1/2″ (12.7 mm) ±1/64″ (0.4 mm)
Widths, nominal	4′ (1220 mm) ±3/32″ (2.4 mm); 54″ (1372 mm) ± 3/32″ (2.4 mm)
Lengths, nominal	8′ (2440 mm) to 16′ (4880 mm) ±1/4″ (6.4 mm)

Edges

1/2″ (12.7 mm) tapered 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 Lite-Weight 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 Lite-Weight 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 Lite-Weight 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.

Board Decoration

ToughRock Lite-Weight 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

continued

Submittal Approvals

Job Name _____

Contractor _____

Date _____

Stamps/Signatures

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.

Maximum Framing Spacing (Wood or Metal)

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

** When using a water-based texture on ceilings, gypsum board shall be installed at right angles to framing.*

Single-Ply Application[1]

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

[1] Also refer to local code requirements.

[2] 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	ToughRock® Lite-Weight Gypsum Board
Thickness, nominal inches	1/2″ (12.7 mm), ± 1/64″ (0.4 mm)
Width, nominal	4′ (1220 mm), ± 3/32″ (2.4 mm)
Length, standard	8′ (2440 mm) to 16′ (4880 mm) ± 1/4″ (6.4 mm)
Weight[1], lbs./sq. ft. nominal (kg/m^2)	1.4 (6.8)
Edges	Tapered edges
Surfacing	100% recycled paper face, back and long edges
Flexural strength[3], min.	
Parallel, lbf. (N)	≥36 (160)
Perpendicular, lbf. (N)	≥107 (476)
R Value[2], °F•ft^2•hr/BTU (m^2•K/W)	0.45 (0.08)
Nail Pull Resistance[3], minimum, lbf. (N)	≥77 (343)
Hardness, lbf. (N) (core, edges and ends)	≥15 (67)
Humidified deflection[3]	5/16″ (8 mm)
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.

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