

Manufacturer

Georgia-Pacific Gypsum
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Description

ToughRock® Mold-Guard™ Gypsum Board is designed for use in interior wall and ceiling applications and, when compared to traditional paper-faced gypsum board, offers enhanced protection against mold and moisture exposure that can cause deterioration and/or stains. It contains a non-combustible core (when tested in accordance with ASTM E136); moisture-resistant treated core; and moisture- and mold-resistant treated, 100% recycled paper facings on the front (green colored), back, and long edges.

Product is available as 1/2" (12.7 mm) and 5/8" (15.9 mm) Type X (as defined in ASTM C1396).

Georgia-Pacific ToughRock Gypsum Board products are GREENGUARD and GREENGUARD Gold Certified for low emissions of volatile organic compounds (VOCs). ToughRock Mold-Guard is GREENGUARD listed for microbial resistance and is listed in the CHPS® High Performance Product Database as a low emitting product.

Primary Uses

ToughRock Mold-Guard Gypsum Board can be used in building applications that require direct mechanical attachment to wood or metal wall and ceiling frames, or attachment to existing surfaces using fasteners or adhesives.

Moisture and Mold Resistance

ToughRock Mold-Guard Gypsum Board is designed to provide extra protection against mold and mildew compared to traditional paper-faced gypsum board products. When tested, as manufactured, per ASTM D3273 ("Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber"), ToughRock Mold-Guard Gypsum Board achieved a score of 10, the best possible score for this test.

The use of ToughRock Mold-Guard Gypsum Board in actual installations may not produce the same results as were achieved in controlled, laboratory conditions. No material can be considered "mold-proof", nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, ToughRock Mold-Guard Gypsum Board can provide increased mold resistance versus standard gypsum board products. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

Limitations

- Non-fire rated 1/2" (12.7 mm) ToughRock Mold-Guard and fire-rated 5/8" (15.9 mm) ToughRock® Fireguard X™ Mold-Guard Gypsum Boards are nonstructural products and should not be used as a nailing base or to support heavy wall-mounted objects. They should not be installed using only staples or adhesives.
- Do not use the products 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, gang shower rooms and swimming pools.
- Product may be used behind tile in dry areas. Product may be used in wet areas behind tile, such as tub and shower areas, when C1396, Section 7 is allowed by local building code in such applications.
- If ToughRock Mold-Guard is to be painted or papered, it should be primed with a latex primer prior to receiving decoration. See "Finishing Tips" section for more details.
- If product is used in single ply, non-tile ceiling applications, framing spacing is 16" (406 mm) o.c. maximum parallel, and 24" (610 mm) o.c. maximum for perpendicular applications.
- To prevent mold and mildew development, avoid water exposure during handling, storage and installation, and after installation is complete.

Applicable Standards

Manufactured to meet ASTM C1396 Section 7; CSA-A82.27-M and Federal Specifications SS-L-30D, Type VII Grade W, X.

Building Code Conformity

The non-fire rated ToughRock Mold-Guard and ToughRock Fireguard X Mold-Guard Gypsum Board conforms to the requirements of major building codes for its intended use.

Sizes

Type	ToughRock Mold-Guard	ToughRock Fireguard X Mold-Guard
Thickness - nominal	1/2" (12.7 mm)	5/8" (15.9 mm)
Widths - nominal	48" (1220 mm)	48" (1220 mm)
Lengths - standard	8'-16' (2440 mm–4880 mm)	8'-14' (2440 mm–4270 mm)

Edges

Tapered, square or tapered with round edges.

Supplemental Materials

Fasteners: Nails, screws, staples and/or adhesive.

Finishing: Tape, ready-mix or setting type joint compound, textures, acoustical sealant, tile adhesives.

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

Technical Data

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.

The 5/8" (15.9 mm) ToughRock Fireguard X Mold-Guard is UL classified, Type X.

Installation—Application Standards

The non-fire rated 1/2" (12.7 mm) ToughRock Mold-Guard and 5/8" (15.9 mm) ToughRock Fireguard X Mold-Guard may be applied according to the Gypsum Association Publication GA-216 or ASTM C840.

For fire resistance treated construction, application regarding board orientation, fastener type and spacing shall be consistent with the tested construction details. The details are published in the Gypsum Association Fire Resistance Design Manual GA-600, UL Fire Resistance Directories.

Handling Precaution

Stack ToughRock Mold-Guard 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 also is outlined in Gypsum Association Publications GA-216 and GA-801.

Take care to avoid impact, undue flexing and damage to edges, ends and corners.

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.

Finishing Tips and Decoration Application

This product will accommodate a variety of decorative treatments after proper surface preparation.

ToughRock Mold-Guard 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.

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Submittal Approvals

Job Name	_____
Contractor	_____
Date	_____

Stamps/Signatures

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.

Physical Properties

Properties	1/2" (12.7 mm) Toughrock® Mold-Guard™	Toughrock® Fireguard X™ Mold-Guard™
Thickness, nominal inches	1/2" (12.7 mm) ± 1/64" (0.4 mm)	5/8" (15.9 mm) ± 1/64" (0.4 mm)
Width, nominal	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 16' (4880 mm) ± 1/4" (6.4 mm)	8' (2440 mm) to 14' (4270 mm) ± 1/4" (6.4 mm)
Weight ¹ , lbs./sq. ft., nominal (kg/m ²)	1.7 (8.3)	2.3 (11.2)
Edges	Tapered, square or tapered with round edges	Tapered, square or tapered with round edges
Surfacing	100% recycled paper face, back and long edges	100% recycled paper face, back and long edges
Flexural strength ³ , minimum		
Parallel, lbf. (N)	≥36 (160)	≥46 (204)
Perpendicular, lbf. (N)	≥107 (476)	≥147 (654)
R Value ² °F•ft ² •hr/BTU (m ² •K/W)	0.45 (0.08)	0.56 est (0.10)
Nail pull resistance ³ , minimum lbf. (N)	≥77 (343)	≥87 (387)
Hardness ³ , lbf. (N) (core, edge and end)	≥15 (67)	≥15 (67)
Humidified Deflection ³	10/8" (32 mm)	5/8" (16 mm)
Packaging	Two pieces per bundle, face-to-face and end taped.	Two pieces per bundle, face-to-face and end taped.
Surface Burning Characteristics ⁴ (per ASTM E84)		
Flame Spread	15	15
Smoke Developed	0	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.



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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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.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.