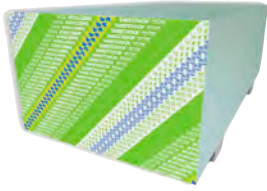


# Sheetrock® Gypsum Panels



## Mold Tough™ Regular and Firecode® Cores

### Quality interior wall and ceiling panels with moisture and mold resistance

- Score and snap easily; no special handling required
- UL Classified as to fire resistance, surface-burning characteristics and noncombustibility
- Install and finish as easily as standard drywall

### Description

SHEETROCK® brand MOLD TOUGH™ gypsum panels have a noncombustible, moisture- and mold-resistant gypsum core that is encased in moisture- and mold-resistant, 100 percent recycled green face and brown back papers. The panels feature tapered long edges for easy finishing. The 5/8" FIRECODE® Core and 1/2" FIRECODE C Core panels are UL Classified for fire resistance (Type X).

**Regular Core 1/2" Panels** Recommended for single-layer application in residential construction

**FIRECODE Core 5/8" Type X Gypsum Panels** Provide additional fire resistance over regular panels.

**FIRECODE C Core 1/2" and 5/8" Type C Gypsum Panels** Specially formulated mineral core provides fire resistance superior to that offered by FIRECODE Core gypsum panels.

### Limitations

1. Avoid exposure to sustained temperatures exceeding 125 °F (52 °C).
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Not suitable for use as a substrate for tile in wet areas such as tubs and showers, gang showers and other areas subject to direct water exposure.

### Finishing and Decorating

For high-quality finishing results, USG recommends the following products:

- SHEETROCK® ready-mixed joint compounds
- SHEETROCK® setting-type joint compounds
- SHEETROCK® joint tape
- SHEETROCK® First Coat primer
- SHEETROCK® paper faced metal bead and trim
- SHEETROCK® TUFF-HIDE™ primer-surfacer

Painting products and systems should be used which comply with recommendations and requirements in Appendixes of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free, and not glossy. Prime with SHEETROCK First Coat primer or with an undiluted, interior latex flat paint with high-solids content. Allow to dry before decorating.

To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to severe artificial or natural side lighting and be decorated with a gloss paint (egg shell, semi-gloss or gloss), the gypsum panel surface should be skim-coated with joint compound. This equalizes suction and texture differences between the drywall face paper and the finished joint compound before painting. As an alternative to skim coating, or when a Level 5 finish is required, use TUFF HIDE™ primer-surfacer.

### Product Data

**Size:** Panels are 1/2" (12.7 mm) or 5/8" (15.9 mm) thick x 4' (1218 mm) wide and available in 8'-12' (2438–4267 mm) lengths.

**Weight:** Regular: 1/2" (12.7 mm) – 1.6 lbs/sf; FIRECODE C Core: 1/2" (12.7 mm) – 1.9 lbs/sf; 5/8" (15.9 mm) – 2.2 lbs/sf (11.7 kg/sm)

**Labeling:** Each 5/8" FIRECODE Core, 1/2" FIRECODE C Core and 5/8" FIRECODE C Core panel bears the Underwriters Laboratories, Inc. label mark as evidence of UL Classifications for fire resistance, surface-burning characteristics and noncombustibility.

**Test Data****Moisture and Mold Resistance**

Per ASTM C473, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.

Although all SHEETROCK MOLD TOUGH gypsum panels have improved moisture and mold resistance over standard gypsum panels by treating the core and surface, independent lab tests were conducted on only 5/8" SHEETROCK MOLD TOUGH FIRECODE gypsum panels, 1/2" SHEETROCK MOLD TOUGH FIRECODE C Core gypsum panels (Types X and C), and 5/8" SHEETROCK MOLD TOUGH FIRECODE C Core gypsum panels (Types X and C) at the time of manufacture per ASTM D3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber." The panel score was 10.

This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.

Maximum Frame Spacing Drywall Construction	Direct Application	Panel Thickness <sup>a</sup>		Location	Application Method <sup>b</sup>	Max. Frame Spacing o.c.	
		in.	mm			in.	mm
Single-Layer	1/2	12.7	ceilings	perpendicular	24 <sup>d</sup>	610	
				parallel <sup>c</sup>	16	406	
	5/8	15.9	sidewalls	parallel or perpendicular	24	610	
				parallel <sup>c</sup>	16	406	
Double-Layer	1/2 and 5/8	12.7 and 15.9	ceilings	perpendicular or parallel	24 <sup>d</sup>	610	
				sidewalls	perpendicular	24 <sup>d</sup>	610

(a) 5/8" thickness is recommended for the finest single-layer construction, providing increased resistance to fire and transmission of sound; 1/2" for single-layer application in new residential construction and remodeling. (b) Long edge position relative to framing. (c) Not recommended if water-based texturing material is to be applied. (d) Max. spacing 16" if water-based texturing material is to be applied. (e) Max spacing 16" o.c. if fire rating required.

**Compliance**

SHEETROCK MOLD TOUGH gypsum panels comply with ASTM C1396 and C630.  
Per ASTM E136, noncombustible gypsum core.  
Per ASTM E84, flame spread is 15; smoke developed is 0.

**Submittal Approvals**

<b>Job Name</b>		
<b>Contractor</b>		<b>Date</b>

**Product Information**

See usg.com for the most up-to-date product information.

**Note**

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

**Trademarks**

The following trademarks used herein are owned by United States Gypsum Company or a related company: FIRECODE, MOLD TOUGH, SHEETROCK, TUFF-HIDE, USG, USG in stylized letters.

**Notice**

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

**Safety First!**

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.



**Manufacturer**

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

**Description**

**ToughRock® Mold-Guard™ Gypsum Board** is designed for use in interior wall and ceiling applications and 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 E 136); 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 C 1396).**

**Primary Uses**

ToughRock Mold-Guard 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 D 3273 ("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**

1/2" (12.7 mm) ToughRock Mold-Guard and 5/8" (15.9 mm) ToughRock Mold-Guard (Type X) 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 is not intended for wet areas behind tile such as tub and shower areas. Georgia-Pacific recommends the use of DensShield® Tile Backer behind tile in wet areas. For other areas likely to be exposed to extreme moisture, Georgia-Pacific recommends the use of DensArmor Plus® High-Performance Interior Panels.

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 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 C 1396 Section 7; and CSA-A82.27-M and Federal Specifications SS-L-30D, Type VII Grade W, X.

**Building Code Conformity**

ToughRock Mold-Guard and ToughRock Mold-Guard (Type X) gypsum board conforms to the requirements of major building codes for its intended use.

**Sizes**

Type	Regular	Type X
Thickness - nominal	1/2" (12.7 mm)	5/8" (15.9 mm)
Widths - nominal	48" (1219 mm)	48" (1219 mm)
Lengths - standard	8'-12' (2440 mm–3658 mm)	8'-12' (2440 mm–3658 mm)

**Edges**

Tapered

**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 15 and smoke developed 0 when tested according to ASTM E 84 or CAN/ULC-S102. The core is noncombustible when tested in accordance with ASTM E 136 or CAN/ULC-S114.

5/8" (15.9 mm) ToughRock Mold-Guard is UL classified, Type 6 in the following UL assemblies: Design Nos. U017, U032, U040, U204, U207, U301, U302, U305, U309, U326, U329, U330, U332, U337, U338, U339, U341, U342, U351, U354, U355, U356, U357, U358, U360, U364, U368, U376, U379, U387, U390, U396, U411, U418, U420, U421, U425, U434, U436, U439, U442, U449, U450, U460, U465, U467, U473, U475, U487, U494, U495, U502, U504, U505, U510, U512, U531, U617, U623, U626, U633, U646, U647, U648, U651, U652, U926, V417, V419, V420, V421, V430, V432, V434, V435, V450, V473, V486, V487, X508, X516, X517, X525, X526, X527, X528, X602, and X604. ULC classified, Type GF-2 in ULC designs U301 and W301.

**Sound Control**

Sound-rated assemblies require sealing at top, bottom, intersections and other locations where sound leaks may develop.

**Installation—Application Standards:**

1/2" (12.7 mm) ToughRock Mold-Guard and 5/8" (15.9 mm) ToughRock Mold-Guard (Type X) may be applied according to the Gypsum Association Publication GA-216 or ASTM C 840.

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.

**Safety**

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

**Handling Precaution:**

Stack ToughRock Mold-Guard 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.

**Material Safety Data Sheet**

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

**Submittal Approvals**

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

Contractor \_\_\_\_\_

Date \_\_\_\_\_

continued →

### 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 photo

graphing. 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.

### Physical Properties

Properties <sup>1</sup>	1/2" (12.7 mm) Toughrock® Mold-Guard™†	5/8" (15.9 mm) Toughrock® Mold-Guard™†
Type	Regular	Type X (per ASTM C 1396)
Thickness, nominal	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)
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)
Weight, lbs./sq. ft., nominal (kg/m <sup>2</sup> )	1.75 (8.5)	2.2 (10.7)
Edges	Tapered	Tapered
Surfacing	100% recycled paper coverings on face, back and long edges; green color on face	100% recycled paper coverings on face, back and long edges; green color on face
Flexural strength, minimum <sup>3</sup>		
Parallel, lbs.f. (N)	≥ 36 (160)	≥ 46 (204)
Perpendicular, lbs.f. (N)	≥ 107 (475)	≥ 147 (653)
R value <sup>2</sup> °F•ft <sup>2</sup> •hr/BTU (K•m <sup>2</sup> /W)	.45 (0.079)	.56 (0.099)
Nail pull resistance, lbs. minimum <sup>3</sup> (N)	≥ 77 (342)	≥ 87 (387)
Hardness, lbs. force (core, edge and end) (N)	≥ 15 (67)	≥ 15 (67)
Humidified Deflection, inches (mm)	10/8" (33 mm)	5/8" (15.9 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 (per ASTM E 84 or CAN/ULC-S102)	Flame Spread 15 Smoke Developed 0	Flame Spread 15 Smoke Developed 0
Water absorption, % maximum	5.0	5.0

<sup>1</sup> Tested in accordance with ASTM C 473.

Note: Specified minimum values are as in ASTM C 630 and C 1396. Other lengths and types may be available on special order.

For fire safety information, visit [www.gp.com/gypsum/firesafety](http://www.gp.com/gypsum/firesafety).

<sup>2</sup> Tested in accordance with ASTM C 518.

<sup>3</sup> Tested in accordance with ASTM C 473, Section 9, Method B.

† This product may not be able to be used for wet area applications in jurisdictions that adopt the 2006 IBC or IRC.



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](http://www.gpgypsum.com)

**TRADEMARKS** Unless otherwise noted, all trademarks are owned by or licensed to Georgia-Pacific Gypsum LLC.

**WARRANTIES, REMEDIES AND TERMS OF SALE** For current warranty information for this product, please go to [www.gpgypsum.com](http://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](http://www.gpgypsum.com).

**UPDATES AND CURRENT INFORMATION** The information in this document may change without notice. Visit our website at [www.gpgypsum.com](http://www.gpgypsum.com) for updates and current information.

**CAUTION For product fire, safety and use information, go to [www.gp.com/safetyinfo](http://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.