



# USG SHEETROCK® BRAND MOLD TOUGH® PANELS FIRECODE® C

## 1/2 in. (12.7 mm) enhanced proprietary Type X panels with moisture and mold resistance for wall and ceiling applications

- Feature a noncombustible, moisture-resistant gypsum core encased in moisture- and mold-resistant, 100% recycled green face and brown back papers
- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 1/2 in. (12.7 mm), Type X, water-resistant gypsum wallboard and exterior gypsum soffit board
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

### DESCRIPTION

USG Sheetrock® Brand Mold Tough® Panels Firecode® C (UL Type C) are 1/2 in. (12.7 mm) enhanced proprietary Type X gypsum panels that feature a noncombustible, moisture-resistant gypsum core that is encased in moisture- and mold-resistant, 100% recycled green face and brown back papers. When tested in accordance with ASTM D3273, *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*, the panels meet or exceed ASTM C1396 specifications. The face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even. The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems. The panels are UL Classified for fire resistance and can be used in any UL Design in which Type C panels are listed. On the face along the long edge of each panel, the UL Type Designation is printed for easy identification by building inspectors.

### INTENDED FOR

- Commercial or residential applications where 1/2 in. (12.7 mm) Type X or enhanced proprietary Type X panels with moisture and mold resistance are required
- New or repair and remodel construction
- Load-bearing and nonload-bearing wood- or steel-framed fire-rated walls and ceilings
- Interior tile substrate in dry locations or areas with limited water exposure
- Protected exterior soffit and ceiling applications

### 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. Must be stored off the ground and under cover in accordance with Gypsum Association's GA-801, *Handling and Storage of Gypsum Panel Products*.
4. For protected exterior ceiling and soffit applications, the panels must be protected from direct exposure to weather. Refer to the *USG Gypsum Construction Handbook* for installation recommendations.
5. Not recommended for exterior soffits and ceilings which project upwards and away from the building proper.
6. 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.
7. Use as a tile substrate is limited to tile installed according to the most current TCNA and ANSI specifications. Consult with adhesive and tile manufacturers for recommendations for maximum size and weight parameters for use with gypsum board.

**INTERIOR INSTALLATION,  
FINISHING AND DECORATING**  
INSTALLATION

For maximum framing spacing in non-fire-resistance-rated applications of gypsum panel products, refer to Gypsum Association's GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* or ASTM C840, *Standard Specification for Application and Finishing of Gypsum Board*. For fire-resistance-rated applications, refer to the published UL Design or GA File Number.

**Maximum Framing Spacing for Single-Layer Application**

Location	Gypsum Panel Thickness	Gypsum Panel Orientation to Framing	Maximum Framing Spacing OC
Ceilings <sup>1</sup>	1/2 in. (12.7 mm)	Parallel	16 in. (406 mm)
		Perpendicular	24 in. (610 mm)
Walls	1/2 in. (12.7 mm)	Parallel	24 in. (610 mm)
		Perpendicular	24 in. (610 mm)

**Maximum Framing Spacing for Multi-Layer Application Without Adhesive Between Layers**

Location	Gypsum Panel Thickness	Gypsum Panel Orientation to Framing	Maximum Framing Spacing OC
Ceilings <sup>1</sup>	1/2 in. (12.7 mm)	Parallel	16 in. (406 mm)
		Perpendicular	24 in. (610 mm)
Walls	1/2 in. (12.7 mm)	Parallel	24 in. (610 mm)
		Perpendicular	24 in. (610 mm)

**Note:**

1. On ceilings to receive water-based texture material, 1/2 in. (12.7 mm) gypsum board shall be applied perpendicular to framing spaced 16 in. (406 mm) OC. See Appendix A.3 of Gypsum Association's GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* for more information.

FINISHING AND DECORATING

For high-quality finishing results, USG recommends USG Sheetrock® Brand finishing products.

Painting products and systems should be used that comply with recommendations and requirements in Appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used. Gypsum Association's GA-214, *Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels* should be referred to in order to determine the level of finishing needed to ensure a surface properly prepared to accept the final decoration.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with USG Sheetrock® Brand 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 critical artificial or natural side lighting, or will be decorated with a gloss paint (eggshell, semigloss or gloss), the gypsum panel 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. When a Level 5 finish is required, use USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer. See *USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer Submittal Sheet* (J1613) for limitations and application instructions.

For more information, refer to USG literature *Finishing & Decorating Gypsum Panels White Paper* (J2010).

## TEST DATA

Property		ASTM Test Method	Requirement	UL Type C
<b>Noncombustibility</b>		E136	Noncombustible	Meets
<b>Surface-burning characteristics</b>	Flame spread	E84	Flame Spread Index, not greater than 25 <sup>2</sup>	15
	Smoke developed	E84	—	0
	Class A	E84	Flame spread not greater than 25 and smoke developed not greater than 450	Meets
<b>Core hardness</b>	Field	C473 (B)	Not less than 11 lbf (49 N) <sup>2</sup>	Meets
	End	C473 (B)	Not less than 11 lbf (49 N) <sup>2</sup>	Meets
	Edge	C473 (B)	Not less than 11 lbf (49 N) <sup>2</sup>	Meets
<b>Flexural strength</b>	Parallel	C473 (B)	Not less than 36 lbf (160 N) <sup>2</sup>	Meets
	Perpendicular	C473 (B)	Not less than 107 lbf (476 N) <sup>2</sup>	Meets
<b>Humidified deflection</b>		C473	Not greater than 1-1/4 in. (32 mm) <sup>2</sup>	Meets
<b>Nail pull resistance</b>		C473 (B)	Not less than 77 lbf (343 N) <sup>2</sup>	Meets

**Note:**

2. Per ASTM C1396 for 1/2 in. (12.7 mm) gypsum wallboard.

## MOISTURE AND MOLD RESISTANCE

Per ASTM C473, *Test Methods for Physical Testing of Gypsum Panel Products*, the average water absorption for USG Sheetrock® Brand Mold Tough® Panels Firecode® C is not greater than 5% by weight after two-hour immersion.

In independent lab tests conducted per ASTM D3273 at the time of manufacture, the panels meet or exceed ASTM C1396 specifications. 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.

## PRODUCT DATA

	UL Type C
<b>Thickness</b>	1/2 in. (12.7 mm)
<b>Lengths<sup>3</sup></b>	8-12 ft. (2438-3658 mm)
<b>Width</b>	4 ft. (1219 mm)
<b>Weight<sup>4</sup>, nominal</b>	2.0 lb./sq. ft. (9.8 kg/sq. m.)
<b>Edges</b>	Tapered
<b>Packaging</b>	Two panels per bundle

**Notes:**

3. Other sizes available by special order. Check with your local USG representative for availability.

4. Represents approximate weight for design and shipping purposes. For specific product weight in your area, contact your local USG representative or call the Customer Service Center at 800 950-3839.

## COMPLIANCE

- Comply with ASTM C1396 for 1/2 in. (12.7 mm), Type X, water-resistant gypsum wallboard and exterior gypsum soffit board
- Classified as a Class A Interior Finish Material per Section 803.1 of the International Building Code® (IBC®)
- UL Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

## 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.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit [ul.com/gg](http://ul.com/gg).

### CAUTION

Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Cut and trim with a utility knife or hand saw to minimize dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin and respiratory protection if necessary. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician. Do not swallow. If swallowed, call a physician. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com.

**KEEP OUT OF REACH OF CHILDREN.**

### TRADEMARKS

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### SAFETY FIRST!

Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read Safety Data Sheets and related literature on products before specification and/or installation.



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