

# USG SHEETROCK® BRAND MOLD TOUGH® PANELS

## FIRECODE® X AND FIRECODE® C



- Moisture- and mold-resistant gypsum panels for use on walls and ceilings
- Score and snap easily; no special handling required
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Install and finish as easily as standard drywall
- Complies with ASTM C1396 for water-resistant gypsum wallboard and exterior gypsum soffit board

### DESCRIPTION

USG Sheetrock® Brand Mold Tough® Panels are available in Firecode® X and Firecode® C formulations. Both panels feature a noncombustible, moisture-resistant gypsum core that is encased in moisture- and mold-resistant, 100% recycled green face and brown back papers. The panels also feature tapered long edges for easy finishing.

**USG Sheetrock® Brand Mold Tough® Panels Firecode® X (UL Type SCX):** Available in 5/8 in. thickness and UL Classified for fire resistance.

**USG Sheetrock® Brand Mold Tough® Panels Firecode® C (UL Type C):** Available in 1/2 in. and 5/8 in. thicknesses and UL Classified for fire resistance, these panels feature a specially formulated mineral core that provides fire resistance superior to that offered by 5/8 in. USG Sheetrock® Brand Mold Tough® Panels Firecode® X.

### INTENDED FOR

- Commercial or residential applications where moisture- and mold-resistance is required
- New or repair and remodel construction
- USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C are UL Classified for use in fire-rated wall and ceiling assemblies
- Can be used in protected exterior soffit and ceiling applications
- Can be used as an interior tile substrate in dry locations or areas with limited water exposure

### LIMITATIONS

1. Avoid sustained exposure to 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. Maximum frame spacing for walls is 24 in. o.c. Maximum frame spacing for ceilings is 24 in. o.c. for installations perpendicular to framing and 16 in. o.c. parallel to framing.
4. Must be stored off the ground and under cover in accordance with Gypsum Association publication GA-801, *Handling and Storage of Gypsum Panel Products*.
5. 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.
6. Use as a tile substrate is limited to tile installed according to the most current TCNA and ANSI specifications. Please consult with the adhesive and tile manufacturers for their recommendations for maximum size and weight parameters for use with gypsum board.
7. Not recommended for exterior soffits and ceilings that project upwards and away from the building proper.

**INTERIOR INSTALLATION,  
FINISHING AND DECORATING**  
INSTALLATION

**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  | Parallel or Perpendicular       | 24 <sup>e</sup>         | 610 |
|                    |                              |               | Sidewalls | Perpendicular                   | 24 <sup>e</sup>         | 610 |

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

**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 Recommended Specification for Levels of Gypsum Board Finish (GA-214) 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 severe 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. As an alternative to skim coating, or when a Level 5 finish is required, use USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacers.

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

**EXTERIOR INSTALLATION, FINISHING  
AND DECORATING**  
WOOD FRAMING

1 in. x 4 in. wood furring may be used in non-fire-rated construction for screw application where support member spacing is 24 in. o.c. maximum. Furring of 2 in. nominal thickness should be used in non-fire-rated construction for nail application of board or where framing spacing is from 24 in. to 48 in. o.c. maximum.

**STEEL FRAMING**

Installation of grillage should be the same as for single-layer drywall application. Refer to *USG Drywall Suspension System Brochure* (AC3152) or contact the Steel Stud Manufacturers Association for application information.

**WEATHER PROTECTION**

At the perimeter and vertical penetrations, the exposed core of panels must be covered with a J-stop trim or securely fastened moldings. In areas subject to freezing temperatures and other severe weather conditions, shingled roofs should be installed in accordance with good roofing practices. Fascia boards should extend at least 1/4 in. below the ceiling board or adjacent trim moldings, whichever is lower, to provide a drip edge.

**INTERSECTIONS**

Where ceiling board expanse exceeds 4 ft., a space of at least 1/4 in. should be provided between edge of ceiling board and adjacent walls, beams, columns and fascia. This space may be screened or covered with molding but should not be caulked.

**CONTROL JOINTS**

USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C, like other building materials, are subject to structural movement, expansion and contraction due to changes in temperature and humidity.

Install a 093 Zinc Control Joint or a control joint consisting of two pieces of J-stop trim back-to-back in ceiling board where expansion or control joints occur in the exterior wall or roof. Where aluminum H-moldings are used, they will serve as control joints, provided the board is not tightly inserted.

**FINISHING AND DECORATING**

Treat joints with USG Sheetrock® Brand Durabond® or Easy Sand™ Joint Compounds and USG Sheetrock® Brand Fiberglass Joint Tape. These setting-type joint compounds are hardening-type products developed to provide faster finishing of drywall, even under slow drying conditions. Rapid chemical hardening and low shrinkage permit same-day finishing and usually next-day decoration. They also feature exceptional bond; virtually unaffected by humidity extremes.

**TEST DATA****MOISTURE AND MOLD RESISTANCE**

Per ASTM C473, the average water absorption for USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® C is not greater than 5% by weight after two-hour immersion.

In independent lab tests conducted on USG Sheetrock® Brand Mold Tough® Panels Firecode® X and Firecode® 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 scores were 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.

**PRODUCT DATA**

|                           | <b>UL Type SCX</b>                        | <b>UL Type C</b>                          | <b>UL Type C</b>                          |
|---------------------------|---|---|---|
| <b>Thickness</b>          | 5/8 in.                                   | 1/2 in.                                   | 5/8 in.                                   |
| <b>Lengths and Widths</b> | 48 in. wide— 8 ft., 9 ft., 10 ft., 12 ft. | 48 in. wide— 8 ft., 9 ft., 10 ft., 12 ft. | 48 in. wide— 8 ft., 9 ft., 10 ft., 12 ft. |
| <b>Weight<sup>1</sup></b> | 2.2 lbs./sq. ft.                          | 1.9 lbs./sq. ft.                          | 2.2 lbs./sq. ft.                          |
| <b>Edges</b>              | Tapered                                   | Tapered                                   | Tapered                                   |
| <b>Packaging</b>          | Two panels per bundle                     | Two panels per bundle                     | Two panels per bundle                     |

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

**COMPLIANCE**

Manufactured to meet or exceed ASTM C1396 section 7 and section 8.

Class A, as defined in IBC section 803.1, flame spread is 15, smoke developed is 0, when tested in accordance with ASTM E84. The gypsum core meets code requirements for noncombustible construction.

UL Classification as to fire resistance, surface-burning characteristics and noncombustibility. Can be used in fire-rated designs where USG Company panels are listed, including:

- 5/8 in. USG Sheetrock® Brand Mold Tough® Panels Firecode® X (UL Type SCX)
- 1/2 in. and 5/8 in. USG Sheetrock® Brand Mold Tough® Panels Firecode® C (UL Type C)

## 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.

### 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

The trademarks USG, DURABOND, EASY SAND, FIRECODE, FIRST COAT, MOLD TOUGH, TUFF-HIDE, SHEETROCK, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates.

### NOTE

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

### 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 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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