

SECTION 09 29 00 – GYPSUM BOARD, 1/2 in. (12.7 mm) and 5/8 in. (15.9 mm) USG Sheetrock® Brand Glass-Mat Panels Mold Tough® (Regular and Firecode® X)

Product Summary:

- 1/2 in. (12.7 mm) Regular and 5/8 in. (15.9 mm) Type X glass-mat panels with moisture and mold resistance
- Feature a noncombustible, moisture-resistant gypsum core encased in a fiberglass face and back that shed water
- Suitable for use in pre dry-in (fast track or pre-rock) and similar applications of panels before the building envelope is fully enclosed
- Quick score-and-snap, no sawing or special tools required
- Comply with ASTM C1658, *Standard Specification for Glass Mat Gypsum Panels*, for 1/2 in. (12.7 mm) Regular, 5/8 in. (15.9 mm) Type X and glass mat water-resistant gypsum panel
- Score a "10" 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*
- Can be exposed to weather for up to 12 months and are guaranteed three years against manufacturing defects
- Underwriters Laboratories Inc. (UL) Classification of 1/2 in. (12.7 mm) panels as to surface-burning characteristics and noncombustibility
- UL Classification of 5/8 in. (15.9 mm) panels as to fire resistance, surface-burning characteristics and noncombustibility
- 5/8 in. (15.9 mm) Type X panels can be used in any UL Design in which Type SGX panels are listed
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)
- For more information, refer to product submittal sheet WB2560 or usg.com

Note to Specification Writer:

- This document is not intended to function as a standalone specification. It is intended to assist the specifier in inserting the proper language into the following recommended specification sections: 09 29 00 – GYPSUM BOARD.
- This product is manufactured at USG gypsum panel plants, reducing distances and carbon footprint for transport.
- Panels shall be installed in accordance with GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* and ASTM C840, *Standard Specification for Application and Finishing of Gypsum Board*.
- Contact USG at 800.874.4968 for technical questions.

PART 2 – GYPSUM PANEL PRODUCTS

2.1 MOISTURE- AND MOLD-RESISTANT GLASS-MAT TYPE X GYPSUM PANEL

- A. ASTM C1658, *Standard Specification for Glass Mat Gypsum Panels*, for 1/2 in. (12.7 mm) Regular, 5/8 in. (15.9 mm) Type X and glass mat water-resistant gypsum panel
1. Basis of Design: Subject to compliance with project requirements, the design is based on the following: United States Gypsum Company, USG Sheetrock® Brand Glass-Mat Panels Mold Tough®
 2. UL Type Designation: [1/2 in. (12.7 mm): Not applicable] [5/8 in. (15.9 mm): "SGX"]
 3. ASTM E136 Noncombustibility: Meets
 4. ASTM E84 Surface-Burning Characteristics
 - a. Flame Spread: [1/2 in. (12.7 mm): 0] [5/8 in. (15.9 mm): 0]
 - b. Smoke Developed: [1/2 in. (12.7 mm): 0] [5/8 in. (15.9 mm): 0]
 - c. Class A (Flame spread not greater than 25 and smoke developed not greater than 450): Meets
 5. ASTM C473, *Standard Test Methods for Physical Testing of Gypsum Panel Products*
 - a. Core Hardness
 - 1) Field: { 1/2 in. [12.7 mm] (Not less than 15 lbf (67 N)): Meets } { 5/8 in. [15.9 mm] (Not less than 15 lbf (67 N)): Meets }
 - 2) End: { 1/2 in. [12.7 mm] (Not less than 15 lbf (67 N)): Meets } { 5/8 in. [15.9 mm] (Not less than 15 lbf (67 N)): Meets }



- 3) Edge: { 1/2 in. [12.7 mm] (Not less than 15 lbf (67 N)): Meets } { 5/8 in. [15.9 mm] (Not less than 15 lbf (67 N)): Meets }
 - b. Flexural Strength
 - 1) Parallel: { 1/2 in. [12.7 mm] (Not less than 80 lbf (356 N)): Meets } { 5/8 in. [15.9 mm] (Not less than 100 lbf (445 N)): Meets }
 - 2) Perpendicular: { 1/2 in. [12.7 mm] (Not less than 100 lbf (445 N)): Meets } { 5/8 in. [15.9 mm] (Not less than 140 lbf (623 N)): Meets }
 - c. Nail Pull Resistance: { 1/2 in. [12.7 mm] (Not less than 80 lbf (356 N)): Meets } { 5/8 in. [15.9 mm] (Not less than 90 lbf (400 N)): Meets }
 - d. Humidified Deflection: { 1/2 in. [12.7 mm] (Not greater than 5/8 in. (15.9 mm)): Meets } { 5/8 in. [15.9 mm] (Not greater than 1/4 in. (6 mm)): Meets }
 - e. Average Water Absorption (Not greater than 5% by weight after two-hour immersion): Meets
6. ASTM D3273, *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*: 10
 7. Thickness: [1/2 in. (12.7 mm)] [5/8 in. (15.9 mm)]
 8. Length: 8-12 ft. (2438-3658 mm)
 9. Width: 4 ft. (1219 mm)
 10. Weight: [1/2 in. (12.7 mm): 1.8 lb./sq. ft. (8.8 kg/sq. m.)] [5/8 in. (15.9 mm): 2.2 lb./sq. ft. (10.7 kg/sq. m.)]
 11. Edge: Tapered

Disclaimer: The USG Product Specifications contained herein are intended for use as product reference material by architects, engineers, other design professionals, contractors, building code officials, or other competent construction industry trade professionals having an interest in the selection, specification and use of products manufactured by the subsidiaries of USG Corporation. The specifications are intended solely as technical support incident to the sale and use of USG products and not intended to be a substitute for the design review and approval of the licensed design professionals for the project. These materials may be printed and/or transferred electronically solely as needed by the user. Because electronic files can be modified by other parties, without notice or indication of such modifications, modification of USG Product Guide Specifications is the sole responsibility of the Design Professional.