

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

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