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)

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| **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 |

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| **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 at800.874.4968 for technical questions. |

PART 2 – GYPSUM PANEL PRODUCTS

* + - 1. MOISTURE- AND MOLD-RESISTANT GLASS-MAT TYPE X GYPSUM PANEL
         1. 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

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®

UL Type Designation: [1/2 in. (12.7 mm): Not applicable] [5/8 in. (15.9 mm): “SGX”]

ASTM E136 Noncombustibility: Meets

ASTM E84 Surface-Burning Characteristics

Flame Spread: [1/2 in. (12.7 mm): 0] [5/8 in. (15.9 mm): 0]

Smoke Developed: [1/2 in. (12.7 mm): 0] [5/8 in. (15.9 mm): 0]

Class A (Flame spread not greater than 25 and smoke developed not greater than 450): Meets

ASTM C473, *Standard Test Methods for Physical Testing of Gypsum Panel Products*

Core Hardness

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}

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}

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}

Flexural Strength

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}

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}

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}

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}

Average Water Absorption (Not greater than 5% by weight after two-hour immersion): Meets

ASTM D3273, *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*: 10

Thickness: [1/2 in. (12.7 mm)] [5/8 in. (15.9 mm)]

Length: 8-12 ft. (2438-3658 mm)

Width: 4 ft. (1219 mm)

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.)]

Edge: Tapered

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