

SECTION 09 29 00 – GYPSUM BOARD, 5/8 in. (15.9 mm) USG Sheetrock® Brand Glass-Mat Panels Mold Tough® VHI Firecode® X (UL Type AR)

Product Summary:

- 5/8 in. (15.9 mm) glass-mat Type X panels with very high-impact (VHI), moisture and mold resistance
- Feature a noncombustible, moisture-resistant gypsum core that is encased in a fiberglass face and back that shed water
- Designed and tested to offer greater resistance to surface abrasion, indentation and impact damage than 5/8 in. (15.9 mm) USG Sheetrock® Brand Glass-Mat Panels Mold Tough® Firecode® X
- 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 5/8 in. (15.9 mm), Type X and glass mat water-resistant gypsum panel
- Tested to ASTM C1629, *Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels*, for surface abrasion and indentation resistance, and soft- and hard-body impact
- 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 as to fire resistance, surface burning characteristics and noncombustibility
- Can be used in any UL Design in which Type AR 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 WB2749 or usg.com

Note to Specification Writers:

- 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 ABUSE-, MOISTURE- AND- MOLD-RESISTANT GLASS-MAT TYPE X GYPSUM PANEL

- A. ASTM C1658, *Standard Specification for Glass Mat Gypsum Panels*, for 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® VHI Firecode® X
 2. UL Type Designation: "AR"
 3. ASTM E136 Noncombustibility: Meets
 4. ASTM E84 Surface-Burning Characteristics
 - a. Flame Spread: 0
 - b. Smoke Developed: 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 Panels Products*
 - a. Core Hardness
 - 1) Field [Not less than 15 lbf (67 N)]: Meets



- 2) End [Not less than 15 lbf (67 N)]: Meets
 - 3) Edge [Not less than 15 lbf (67 N)]: Meets
 - b. Flexural Strength
 - 1) Parallel [Not less than 100 lbf (445 N)]: Meets
 - 2) Perpendicular [Not less than 140 lbf (623 N)]: Meets
 - c. Nail Pull Resistance [Not less than 90 lbf (400 N)]: Meets
 - d. Humidified Deflection [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: 5/8 in. (15.9 mm)
 8. Length: 8-12 ft. (2438-3658 mm)
 9. Width: 4 ft. (1219 mm)
 10. Weight: 2.8 lb./sq. ft. (13.7 kg/sq. m)
 11. Edge: Tapered
- B. ASTM C1629, *Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels*
1. Abrasion Resistance per ASTM D4977: Level 2 (USG testing demonstrates that when painted with one coat of primer and two coats of semigloss latex paint, the abrasion resistance increases to Level 3)
 2. Indentation Resistance per ASTM D5240: Level 1
 3. Soft-Body Impact Resistance per ASTM C1629: Level 3
 4. Hard-Body Impact Resistance per ASTM C1629: Level 2

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