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 at800.874.4968 for technical questions. |

PART 2 – GYPSUM PANEL PRODUCTS

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

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

UL Type Designation: “AR”

ASTM E136 Noncombustibility: Meets

ASTM E84 Surface-Burning Characteristics

Flame Spread: 0

Smoke Developed: 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 Panels Products*

Core Hardness

Field [Not less than 15 lbf (67 N)]: Meets

End [Not less than 15 lbf (67 N)]: Meets

Edge [Not less than 15 lbf (67 N)]: Meets

Flexural Strength

Parallel [Not less than 100 lbf (445 N)]: Meets

Perpendicular [Not less than 140 lbf (623 N)]: Meets

Nail Pull Resistance [Not less than 90 lbf (400 N)]: Meets

Humidified Deflection [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: 5/8 in. (15.9 mm)

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

Width: 4 ft. (1219 mm)

Weight: 2.8 lb./sq. ft. (13.7 kg/sq. m)

Edge: Tapered

* + - * 1. ASTM C1629, *Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels*

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)

Indentation Resistance per ASTM D5240: Level 1

Soft-Body Impact Resistance per ASTM C1629: Level 3

Hard-Body Impact Resistance per ASTM C1629: Level 2

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.