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

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| **Product Summary:**  |
| * 5/8 in. (15.9 mm) Type X panels with very high impact, moisture and mold resistance
* Feature a noncombustible, moisture-resistant gypsum core encased in moisture- and mold-resistant, 100% recycled green face and brown back papers
* Designed and tested to offer greater resistance to surface abrasion, indentation and impact damage than 5/8 in. (15.9 mm) USG Sheetrock® Brand Mold Tough® Firecode® X Panels
* Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm), Type X and water-resistant gypsum wallboard
* 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*, the panels meet or exceed ASTM C1396 specifications
* 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
* 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 WB2529 or usg.com
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| **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.
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PART 2 – GYPSUM PANEL PRODUCTS

* 1. ABUSE-, MOISTURE- AND MOLD-RESISTANT TYPE X GYPSUM PANEL
		+ - 1. ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm), Type X and water-resistant gypsum wallboard

Basis of Design: Subject to compliance with project requirements, the design is based on the following: United States Gypsum Company, USG Sheetrock® Brand Mold Tough® VHI Firecode® X Panels

UL Type Designation: “AR”

ASTM E136 Noncombustibility: Meets

ASTM E84 Surface-Burning Characteristics

Flame Spread: 15

Smoke Developed: 5

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 11 lbf (49 N)]: Meets

End [Not less than 11 lbf (49 N)]: Meets

Edge [Not less than 11 lbf (49 N)]: Meets

Flexural Strength

Parallel [Not less than 46 lbf (205 N)]: Meets

Perpendicular [Not less than 147 lbf (654 N)]: Meets

Nail Pull Resistance [Not less than 87 lbf (387 N)]: Meets

Humidified Deflection [Not greater than 5/8 in. (15.9 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*: Meets ASTM C1396 specifications

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 2

Soft-Body Impact Resistance per ASTM C1629: Level 3

Hard-Body Impact Resistance per ASTM C1629: Level 3

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