

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

Product Summary:

- 5/8 in. (15.9 mm) Type X panels with abuse resistance for interior applications
- Feature a noncombustible gypsum core that is encased in 100% recycled, heavy duty face and back papers that form a high strength composite design
- Designed and tested to offer greater resistance to surface abrasion, indentation and impact damage than 5/8 in. (15.9 mm) USG Sheetrock® Brand Firecode® X Panels
- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm) and Type X gypsum wallboard
- 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 WB2133 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-RESISTANT TYPE X GYPSUM PANEL

- A. ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm) and Type X gypsum wallboard
1. Basis of Design: Subject to compliance with project requirements, the design is based on the following: United States Gypsum Company, USG Sheetrock® Brand AR Firecode® X Panels
 2. UL Type Designation: “AR”
 3. ASTM E136 Noncombustibility: Meets
 4. ASTM E84 Surface-Burning Characteristics
 - a. Flame Spread: 15
 - b. Smoke Developed: 5
 - 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 11 lbf (49 N)]: Meets
 - 2) End [Not less than 11 lbf (49 N)]: Meets
 - 3) Edge [Not less than 11 lbf (49 N)]: Meets
 - b. Flexural Strength
 - 1) Parallel [Not less than 46 lbf (205 N)]: Meets
 - 2) Perpendicular [Not less than 147 lbf (654 N)]: Meets
 - c. Nail Pull Resistance [Not less than 87 lbf (387 N)]: Meets
 - d. Humidified Deflection [Not greater than 5/8 in. (15.9 mm)]: Meets



6. Thickness: 5/8 in. (15.9 mm)
 7. Length: 8-10 ft. (2438-3048 mm), 12 ft. (3658 mm)
 8. Width: 4 ft. (1219 mm)
 9. Weight: 2.8 lb./sq. ft. (13.7 kg/sq. m)
 10. 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 2
 4. Hard-Body Impact Resistance per ASTM C1629: Level 1

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