

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

Sustainability Notes: (Architecture 2030 Challenge for Products – LEED® v4 EPD/LCA improvements)

- USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X (UL Type ULIXTM) are formulated and manufactured using the most sustainable method to date
 - o Up to 11% less global warming potential (GWP)¹
 - o Up to 15% less water used in the manufacturing process¹
 - o Living Building Challenge™ Red List Free
 - o Contains 100% USDA certified biobased content
 - Achieved GREENGUARD Gold Certification and qualify as a low VOC emitting material (meets CA 01350)
- Developed to meet the Architecture 2030 Challenge for Products, USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X (UL Type ULIXTM) have lower carbon dioxide emissions than standard 5/8 in. (15.9 mm) USG Sheetrock® Brand Mold Tough® Panels Firecode® X.

Gypsum Panel CO₂ eq. (kg CO₂/1000 sq. ft.)

Cypsum runer	002 cq. (ng 002/1000 sq. 10)
USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X – Eastern USA (per EPD 4787352797.106.1)	252
USG Sheetrock® Brand Mold Tough® Panels Firecode® X – Eastern USA	278

USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X – Western USA (per EPD 4787352797.106.1)	268
USG Sheetrock® Brand Mold Tough® Panels Firecode® X – Western USA	301

^{1.} Compared to third-party verified Life Cycle Analysis (LCA) for standard 5/8 in. (15.9 mm) USG Sheetrock® Brand Mold Tough® Panels Firecode® X.

Product Summary:

- Sustainable and ultralightweight 5/8 in. (15.9 mm) enhanced proprietary Type X panels with moisture and mold resistance for wall and ceiling applications
- Feature a noncombustible, moisture-resistant gypsum core encased in moisture- and mold-resistant, 100% recycled green face and brown back papers
- Formulated to achieve all of the same strength and performance characteristics as standard 5/8 in. (15.9 mm)
 USG Sheetrock® Brand Mold Tough® Firecode® X Panels at a lower environmental impact and reduced weight
- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm), Type X, water-resistant gypsum wallboard and exterior gypsum soffit board
- 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
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Offer comparable sound, strength and sag resistance to standard 5/8 in. (15.9 mm) Type X
- Can be used in any UL Design in which UltraLight Innovation Type X (ULIXTM) panels are listed
- For more information, refer to product submittal sheet WB2981 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 SUSTAINABLE MOISTURE- AND MOLD-RESISTANT TYPE X GYPSUM PANEL
 - A. ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm), Type X, water-resistant gypsum wallboard and exterior gypsum soffit board
 - 1. Basis of Design: Subject to compliance with project requirements, the design is based on the following: United States Gypsum Company, USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X
 - 2. ISO 14040 Environmental Management, Life Cycle Assessment, Principles and Framework:
 - Carbon emissions per Product Category Rules for North American Gypsum Boards;
 FPInnovations Gypsum PCR-2013: v1; Global Warming Potential of [Eastern USA: 252 kg CO₂ eq./1000 sq. ft.] [Western USA: 268 kg CO₂ eq./1000 sq. ft.]
 - 3. UL Type Designation: "ULIXTM"
 - 4. ASTM E136 Noncombustibility: Meets
 - 5. ASTM E84 Surface-Burning Characteristics
 - a. Flame Spread: 5
 - b. Smoke Developed: 5
 - c. Class A (Flame spread not greater than 25 and smoke developed not greater than 450): Meets
 - 6. ASTM C473, Standard Test Methods for Physical Testing of Gypsum Panel 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
 - e. Average Water Absorption (Not greater than 5% by weight after two-hour immersion): Meets
 - 7. 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
 - 8. Thickness: 5/8 in. (15.9 mm)
 - 9. Length: 8-12 ft. (2438-3658 mm)
 - 10. Width: 4 ft. (1219 mm)
 - 11. Weight: 1.85 lb./sq. ft. (9.03 kg/sq. m.)
 - 12. Edge: Tapered

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