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

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| **Sustainability Notes:** (Architecture 2030 Challenge for Products – LEED® v4 EPD/LCA improvements) |
| * USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X (UL Type ULIX™) are formulated and manufactured using the most sustainable method to date
	+ Up to 11% less global warming potential (GWP)1
	+ Up to 15% less water used in the manufacturing process1
	+ Living Building Challenge™ Red List Free
	+ 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 ULIX™) have lower carbon dioxide emissions than standard 5/8 in. (15.9 mm) USG Sheetrock® Brand Mold Tough® Panels Firecode® X.

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| **Gypsum Panel** | **CO2 eq. (kg CO2/1000 sq. ft.)** |
| **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 |
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| **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.
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| **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 (ULIX™) panels are listed
* For more information, refer to product submittal sheet WB2981 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. SUSTAINABLE 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, water-resistant gypsum wallboard and exterior gypsum soffit board

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

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.]**

UL Type Designation: “ULIX™”

ASTM E136 Noncombustibility: Meets

ASTM E84 Surface-Burning Characteristics

Flame Spread: 5

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 Panel 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: 1.85 lb./sq. ft. (9.03 kg/sq. m.)

Edge: Tapered

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