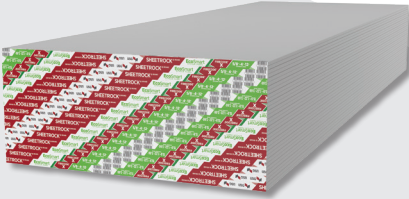


# USG SHEETROCK® BRAND ECOSMART PANELS FIRECODE® X



## Sustainable and ultralightweight 5/8 in. (15.9 mm) enhanced proprietary Type X panels for interior wall and ceiling applications

- Meet Architecture 2030 Challenge for Products
  - Up to 25% less global warming potential (GWP)<sup>1</sup>
  - Up to 25% less water used in the manufacturing process<sup>1</sup>
  - Up to 22% less weight reduces transportation fuel energy by up to 20%<sup>1</sup>
- Living Building Challenge™ Red List Free
- Contains 100% USDA certified biobased content
- Up to 94.6% recycled content (regionally available)
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)
- USGBC® LEED® v4—may assist in achieving additional credits
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 5/8 in. (15.9 mm) and Type X gypsum wallboard
- Offer comparable sound, strength and sag resistance to standard 5/8 in. (15.9 mm) Type X
- Listed by UL in the most widely specified wall, column, floor- and roof-ceiling assemblies and horizontal membranes (refer to specific UL Designs for complete details)

### Note:

1. Compared to standard 5/8 in. (15.9 mm) Type X gypsum panels as presented in the Gypsum Association's *5/8 in. (15.9 mm) Type X Environmental Product Declaration (FPI/GA/01/2014)* with fresh water usage updated to be in accordance with ISO 14046.

## DESCRIPTION

USG Sheetrock® Brand EcoSmart Panels Firecode® X (UL Type ULIX™) represent a revolution in wallboard manufacturing, reducing the use of natural resources and impact on the environment. These lightweight 5/8 in. (15.9 mm) enhanced proprietary Type X gypsum panels have been formulated to achieve all of the same strength and performance characteristics as standard 5/8 in. (15.9 mm) USG Sheetrock® Brand Firecode® X Panels at a lower environmental impact and reduced weight. They feature an innovative noncombustible gypsum core that is encased in 100% recycled face and back papers that form a high strength-to-weight ratio composite design. The face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even. The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems. The panels are UL Classified for fire resistance and can be used in any UL Design in which UltraLight Innovation Type X (ULIX™) panels are listed. On the face along the long edge of each panel, the UL Type Designation is printed for easy identification by building inspectors.

## INTENDED FOR

- Commercial or residential applications where 5/8 in. (15.9 mm) Type X or enhanced proprietary Type X panels are required
- New or repair and remodel construction
- Load-bearing and nonload-bearing wood- or steel-framed fire-rated walls and ceilings
- Wall, column, floor- and roof-ceiling assemblies and horizontal membranes (refer to specific UL Designs for complete details)

## LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 125°F (52°C).
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Must be stored off the ground and under cover in accordance with Gypsum Association's GA-801, *Handling and Storage of Gypsum Panel Products*.

## INTERIOR INSTALLATION, FINISHING AND DECORATING INSTALLATION

For maximum framing spacing in non-fire-resistance-rated applications of gypsum panel products, refer to Gypsum Association's GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* or ASTM C840, *Standard Specification for Application and Finishing of Gypsum Board*. For fire-resistance-rated applications, refer to the published UL Design or GA File Number.

### Maximum Framing Spacing for Single-Layer Application

Location	Gypsum Panel Thickness	Gypsum Panel Orientation to Framing	Maximum Framing Spacing OC
Ceilings <sup>2</sup>	5/8 in. (15.9 mm)	Parallel	16 in. (406 mm)
		Perpendicular	24 in. (610 mm)
Walls	5/8 in. (15.9 mm)	Parallel	24 in. (610 mm)
		Perpendicular	24 in. (610 mm)

### Maximum Framing Spacing for Multi-Layer Application Without Adhesive Between Layers

Location	Gypsum Panel Thickness	Gypsum Panel Orientation to Framing	Maximum Framing Spacing OC
Ceilings <sup>2</sup>	5/8 in. (15.9 mm)	Parallel	16 in. (406 mm)
		Perpendicular	24 in. (610 mm)
Walls	5/8 in. (15.9 mm)	Parallel	24 in. (610 mm)
		Perpendicular	24 in. (610 mm)

#### Note:

2. On ceilings to receive water-based texture material, 5/8 in. (15.9 mm) gypsum board shall be applied either parallel to framing spaced at 16 in. (406 mm) OC or perpendicular to framing spaced maximum 24 in. (610 mm) OC. See Appendix A.3 of Gypsum Association's GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* for more information.

## FINISHING AND DECORATING

For high-quality finishing results, USG recommends USG Sheetrock® Brand finishing products.

Painting products and systems should be used that comply with recommendations and requirements in Appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used. Gypsum Association's GA-214, *Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels* should be referred to in order to determine the level of finishing needed to ensure a surface properly prepared to accept the final decoration.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with USG Sheetrock® Brand First Coat™ Primer or with an undiluted, interior latex flat paint with high-solids content. Allow to dry before decorating.

To improve fastener concealment where gypsum panel walls and ceilings will be subjected to critical artificial or natural lighting, or will be decorated with a gloss paint (eggshell, semigloss or gloss), the gypsum panel should be skim coated with joint compound. This equalizes suction and texture differences between the drywall face paper and the finished joint compound before painting. When a Level 5 finish is required, use USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer. See *USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer Submittal Sheet (J1613)* for limitations and application instructions.

For more information, refer to USG literature *Finishing & Decorating Gypsum Panels White Paper (J2010)*.

## TEST DATA

Property		ASTM Test Method	Requirement	UL Type ULIX™
<b>Noncombustibility</b>		E136	Noncombustible	Meets
<b>Surface-burning characteristics</b>	Flame spread	E84	Flame Spread Index, not greater than 25 <sup>3</sup>	5
	Smoke developed	E84	—	5
	Class A	E84	Flame spread not greater than 25 and smoke developed not greater than 450	Meets
<b>Core hardness</b>	Field	C473 (B)	Not less than 11 lbf (49 N) <sup>3</sup>	Meets
	End	C473 (B)	Not less than 11 lbf (49 N) <sup>3</sup>	Meets
	Edge	C473 (B)	Not less than 11 lbf (49 N) <sup>3</sup>	Meets
<b>Flexural strength</b>	Parallel	C473 (B)	Not less than 46 lbf (205 N) <sup>3</sup>	Meets
	Perpendicular	C473 (B)	Not less than 147 lbf (654 N) <sup>3</sup>	Meets
<b>Humidified deflection</b>		C473	Not greater than 5/8 in. (15.9 mm) <sup>3</sup>	Meets
<b>Nail pull resistance</b>		C473 (B)	Not less than 87 lbf (387 N) <sup>3</sup>	Meets

### Note:

3. Per ASTM C1396 for 5/8 in. (15.9 mm) gypsum wallboard.

### PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit [ul.com/gg](http://ul.com/gg).

### CAUTION

Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Cut and trim with a utility knife or hand saw to minimize dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin and respiratory protection if necessary. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician. Do not swallow. If swallowed, call a physician. For more information call Product Safety: 800 507-8899 or see the SDS at [usg.com](http://usg.com).

**KEEP OUT OF REACH OF CHILDREN**

### TRADEMARKS

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Products described here may not be available in all geographic markets. Consult your USG Company sales office or representative for information. The information in this document is subject to change without notice. USG Corporation assumes no responsibility for any errors that may inadvertently appear in this document.

### NOTICE

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

### SAFETY FIRST!

Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read Safety Data Sheets and related literature on products before specification and/or installation.

## PRODUCT DATA

	UL Type ULIX™
<b>Thickness</b>	5/8 in. (15.9 mm)
<b>Lengths<sup>4</sup></b>	8-16 ft. (2438-4877 mm)
<b>Width</b>	4 ft. (1219 mm), 54 in. (1372 mm)
<b>Weight<sup>5</sup>, nominal</b>	1.8 lb./sq. ft. (8.8 kg/sq. m.)
<b>Edges</b>	Tapered
<b>Packaging</b>	Two panels per bundle

### Notes:

4. Other sizes available by special order. Check with your local USG representative for availability.
5. Represents approximate weight for design and shipping purposes. For specific product weight in your area, contact your local USG representative or call the Customer Service Center at 800 950-3839.

## COMPLIANCE

- Comply with ASTM C1396 for 5/8 in. (15.9 mm) and Type X gypsum wallboard
- Classified as a Class A Interior Finish Material per Section 803.1 of the International Building Code® (IBC®)
- UL Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Meet Architecture 2030 Challenge Criteria for Products
- Living Building Challenge™ Red List Free
- USDA Certified Biobased Product
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

## SUBMITTAL APPROVALS

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>



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