

CertainTeed

GlasRoc[®] BRAND

Embedded Glass Reinforced Gypsum[™] Sheathing Type X

Product Data and Submittal

Product Description

GlasRoc[®] Sheathing Type X is a high performance, weather-resistant gypsum sheathing produced with CertainTeed's proprietary Embedded Glass Reinforced Gypsum[™] technology.

GlasRoc[®] Sheathing Type X has a specially formulated core for use in fire resistance-rated designs.

Basic Uses

GlasRoc[®] Sheathing Type X is an approved substrate by the major EIFS manufacturers, one-coat and conventional stucco systems, traditional cladding systems, exterior ceilings, soffit systems and exterior curved applications.

GlasRoc[®] Sheathing Type X can be used in fire-rated exterior wall assemblies.

Advantages

- Will withstand up to twelve months of exposure to typical weather conditions such as UV, rain, wind, ice and snow.
- Superior water resistance while allowing the building's vapor drive to be unimpeded.
- Improved physical performance compared to paper-faced and glass-faced gypsum sheathing products.
- Dimensionally stable under changes in temperature and relative humidity.
- Will not contribute to mold growth.
- Noncombustible
- Is lighter weight than comparable gypsum products.
- No special tools or fasteners required for installation.
- Resists delamination, deterioration, warping and job site damage because the glass mats are fully embedded into the panel.
- Fully embedded glass mat reduces irritating glass fiber exposure for friendlier installation.

Limitations

- Framing spacing should not exceed 24" (600 mm) o.c. for 5/8" (15.9 mm) GlasRoc[®] Type X Sheathing.
- GlasRoc[®] Sheathing Type X must not be installed below grade.
- GlasRoc[®] Sheathing Type X should not be used as a nailing base.
- GlasRoc[®] Sheathing Type X application to framing by adhesive only is not recommended.
- Boards should be stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces.

Composition and Materials

GlasRoc[®] Sheathing Type X is a paperless gypsum panel with a water resistant core and fully-embedded glass mats which lie beneath a polymer-modified gypsum surface and a protective acrylic coating on the exterior surface. This product incorporates additives to enhance the fire resistive qualities.

Sizes and Types

Thicknesses: 5/8" (15.9 mm)

Widths: 4' (1219 mm) standard

Lengths: 8' (2438 mm) standard

Custom lengths available. Ask your CertainTeed sales representative.

Edges: Square

Packaging: Per piece

Applicable Standards and Code Compliance

GlasRoc[®] Sheathing Type X meets ASTM C 1177 and applicable ASTM C 931, C 79, and C 1396 requirements.

ICC-ES Evaluation Report No. ESR-2460

NYC MEA 312-03-M

Florida product approval # FL 3029

CCMC Evaluation Listing # 13095-L

Ontario Minister Ruling No: 05-17-141

(13095-R) (Continued on back)

Technical Data

Surface Burning Characteristics

GlasRoc[®] Sheathing Type X has a Flame Spread rating of 0 and Smoke Developed rating of 0, in accordance with ASTM E 84 (UL723 and CAN/ULC-S102M).

Noncombustible

Fire testing in accordance with ASTM E 136 determined that GlasRoc[®] Sheathing Type X is noncombustible.

Fire Resistance

GlasRoc[®] Sheathing Type X is UL and ULC Classified for Fire Resistance in accordance with ASTM E 119 (ANSI/UL263, CAN/ULC-S101M).

UL Designs For Steel Stud Systems: U017, U411, U418, U420, U421, U422, U425, U434, U442, U450, U460, U465, U466, U467, U473, U475, U487, U494, U501, U502, U504, U505, U506, U510, U512, U603, U615, U617, U622, U623, U625, U626, U640, V417, V419.

GA-600 Listings for Steel Stud Systems: WP 7210, WP 9020, WP 9200 and WP 9205.

UL Designs For Wood Stud Systems: U301, U302, U305, U309, U322, U323, U324, U325, U326, U329, U330, U332, U337, U338, U339, U341, U342, U354, U355, U357, U358, U360, U501, U502.

GA-600 Listings for Wood Stud Systems: WP 8105, WP 8410, WP 8415 and WP 8420.

UL Designs for Steel Joist Floor-Ceiling Systems: G501, G520 and G531.

GA-600 Listings for Steel Joist Floor-Ceiling Systems: FC 1130, FC 2116, FC 2120, FC 4490 and FC 4750.

UL Designs for Wood Joist Floor-Ceiling Systems: L501, L508 and L591.

GA-600 Listings for Wood Joist Floor/Roof-Ceiling Systems: FC 5310, FC 5406, FC 5407, FC 5408, FC 5420, FC 5600, FC 5725, FC 5750, FC 5751, RC 2601, RC 2602, RC 2750 and RC 2751.

Job Name

Contractor

Date

Products Specified:

Submittal Approvals (Stamps or Signatures)

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ULC: M500, W310, W313, W447, W449, W456, W465

UL Designs for Beam Protection: N501, N502 and N505.

UL Designs for Column Protection: X508, X516, X517, X525, X526 and X528.

GA-600 Listings for Beam & Column Systems:

Beam Protection: BM 2120 and BM 2130.

Column Protection: CM 1850, CM 1851, CM 2017, CM 2020, CM 2120, CM 3115, CM 3116, CM 3120, CM 3450, CM 3451, CM 4110 and CM 4600.

Storage

Store materials protected against damage from weather, direct sunlight, surface contamination, construction traffic, or other causes. Stack sheathing flat on level supports off the ground, under cover and fully protected from weather. Store and support board in flat stacks to prevent sagging. Protect materials to keep them dry. Protect boards to prevent damage to edge and surfaces.

Installation

Recommendations

Comply with GA-253, ASTM C 1280, manufacturer's written instructions, and local building codes.

Cut boards at penetrations, edges and other obstructions; fit tightly against abutting constructions, unless otherwise indicated.

Install boards with a 3/8" (9 mm) setback where non-load-bearing constructions abuts structural elements. Install boards with a 1/4" (6 mm) setback where they abut masonry or similar materials that might retain moisture, to prevent wicking. Allow no board joints greater than 1/8" (3 mm).

Coordinate sheathing installation with flashing and joint sealant installation so these materials are installed in sequence and in a manner that prevents exterior moisture from passing through the completed exterior wall assembly.

Apply fasteners so screw heads bear tightly against face of sheathing boards but do not cut into facing. Do not bridge building expansion joints with sheathing; cut and space edges to match spacing of structural support elements.

Horizontal Installation

Install sheathing with long edges in contact with edges of adjacent boards without forcing. Abut ends of boards over centers of stud flanges, and stagger end joints of adjacent boards not less than one stud spacing. Attach boards at perimeter and within field of board to each stud.

Space fasteners a maximum of 8" (200 mm) o.c. (tighter spacing if recommended by manufacturer for specific application) and a minimum of 3/8" (9 mm) from edges and ends of boards.

Treat board joints, when required by local building code or exterior finish system, per manufacturer's written instructions.

Applicable Standards and References

Gypsum Association GA-253, ASTM C 1280, CCMC Evaluation Listing requirements, and ICC International Building Code

Notice

The information in this document is subject to change without notice. CertainTeed assumes no responsibility for any errors that may inadvertently appear in this document.

TYPICAL PHYSICAL PROPERTIES	5/8" (15.9MM) GLASROC® SHEATHING TYPE X	TEST METHOD
Physical Characteristics:		
Nominal Width	48" (1219 mm)	-
Standard Lengths	8' *	-
Face Surface	Acrylic/Gypsum	-
Pliability:		
Bending Radius - Dry, Lengthwise		-
Strength:		
Racking Strength - Lbs/Lin.Ft. - (kN/m) Ultimate Value	654 (9.54)	ASTM E 72
Parallel Flexural Strength - Lbs. (N)	135 (600)	ASTM C 473
Water Resistance:		
Humidified Deflection (Sag)	1/64" (0.4 mm)	ASTM C 473
Water Vapor Transmission:		
Permeance - perms (ng/Pa•s•m')	21 (1200)	ASTM E 96
Thermal Resistance:		
"R" Value - sq.ft.•h•°F/Btu (K•m²/W)	0.51 (0.090)	ASTM C 518
Fire Performance:		
Flame Spread/Smoke Developed	0/0	
Combustibility:	Noncombustible	ASTM E 136
Dimensional Stability:		
Thermal Coefficient of Linear Expansion - in./in./°F (mm/mm/°C)	9.3 X 10 ⁻⁶ (16.7 X 10 ⁻⁶)	ASTM E 228
Mold Resistance:		
Mold Resistant Rating**	10**	ASTM D 3273

*Other lengths available upon request.

**No mold growth detected. Note that 10 is the highest rating possible.

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