

CertainTeed

GlasRoc[®] BRAND

Enhanced Glass Reinforced Gypsum Sheathing Type X

Data and Submittal Sheet

GlasRoc[®] Sheathing Type X is a high-performance, weather-resistant gypsum sheathing produced with CertainTeed's patented Enhanced 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 resistance rated exterior assemblies.

ADVANTAGES

- Will withstand up to six months of exposure to typical weather conditions such as UV, rain, wind, ice and snow.
- Superior water resistance which does not impede vapour transmission.
- Improved physical performance compared to paper-faced and glass mat-faced gypsum sheathing products.
- Dimensionally stable under changes in temperature and relative humidity.
- Resists delamination, deterioration, warping and job site damage because the glass mats are fully embedded into the panel.
- Will not contribute to mould and mildew growth.
- Noncombustible
- No special tools or fasteners required for installation.
- Fully-embedded glass mats reduce irritating glass fibre exposure for friendlier installation.

LIMITATIONS

- Framing spacing should not exceed 24" o.c. for 5/8" GlasRoc[®] Sheathing Type X.
- Must not be installed below grade.
- GlasRoc[®] Sheathing Type X should not be used as a nailing base.
- 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 layer of gypsum, covered with an innovative acrylic coating. This product incorporates additives to enhance its fire resistive qualities.

SIZES AND TYPES

Thicknesses: 15.9 mm (5/8")
 Widths: 1219 mm (4') standard
 Lengths: 8' standard. Custom lengths available
 Edges: Square
 Packaging: Per piece

APPLICABLE STANDARDS AND CODE COMPLIANCE

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

CCMC Evaluation # 13095-R

ICC ES Legacy Report NER-674

NYC MEA # 312-03-M

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 CAN/ULC-S102 and ASTM E 84.

NONCOMBUSTIBILITY

Noncombustible when tested in accordance with ASTM E 136.

FIRE RESISTANCE

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

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

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

UL Designs for Wood Joist Floor-Ceiling:
 L501, L508

UL Designs for Beam and Column Systems:
 N501, N502, N505, X508, X516, X517, X525, X526, X528

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 boards in flat stacks to prevent sagging. Protect materials to keep them dry. Protect boards to prevent damage to edges and surfaces.

SUBMITTAL APPROVAL STAMPS/SIGNATURES	
Date:	Project:



Data and Submittal Sheet

INSTALLATION

APPLICABLE STANDARDS AND REFERENCES

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

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

Coordinate GlasRoc[®] 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 heads bear tightly against face of the GlasRoc[®] Sheathing boards but do not cut into the facers. Do not bridge building expansion joints with GlasRoc[®] Sheathing; cut and space edges to match spacing of structural support elements.

HORIZONTAL INSTALLATION

Install GlasRoc[®] Sheathing with long edges in contact 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 200 mm (8") o.c. (tighter spacing if recommended by manufacturer for specific application) and a minimum of 9 mm (3/8") from edges and ends of boards.

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

PHYSICAL PROPERTIES	15.9 mm (5/8") GlasRoc [®] Sheathing	Test Method
Physical Characteristics:		
Nominal Width	1219 mm (48")	-
Standard Lengths	8'	-
Face Surface	Acrylic/Gypsum	-
Pliability:		
Bending Radius - Dry, Lengthwise	2400 mm (8')	-
Strength:		
Racking Strength - kN/m - (Lbs/Lin.Ft.) Design Value	1.75 (120)	ASTM E 72
Parallel Flexural Strength - N (Lbs.)	600 (135)	ASTM C 473
Water Resistance:		
Humidified Deflection (Sag)	0.4 mm (1/64")	ASTM C 473
Permeance - ng/Pa•s•m ² (perms)	1200 (21)	ASTM E 96
Thermal Resistance:		
"R" Value - K•m ² /W (sq.ft.•h•°F/Btu)	0.090 (0.51)	ASTM C 518
Fire Performance:		
Flame Spread/Smoke Developed	0/0	CAN/ULC-S102M/ASTM E 84
Combustibility:	Noncombustible	ASTM E 136
Expansion:		
Thermal Coefficient of Linear Expansion - mm/mm/°C (in./in./°F)	11.5 X10 ⁻⁹ (6.4 X10 ⁻⁹)	ASTM E 228
Mould Resistance:		
Mould Resistant Rating*	10	ASTM D 3273/D 3274

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

Distributed by:

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