

CertainTeed

# GlasRoc<sup>®</sup> BRAND

High Performance Exterior Sheathing For Residential Applications

Featuring Embedded Glass Reinforced Gypsum™



**CertainTeed** 

*Quality made certain. Satisfaction guaranteed.™*

# GlasRoc® Sheathing

CertainTeed respects the environment through the responsible development of sustainable building products and systems.

The building industry continues to look for ways to reduce impact on the environment while meeting customer demand for products that deliver beauty, comfort and performance.

CertainTeed's commitment to these goals is reflected here, highlighting our ongoing effort to become the preeminent supplier of green building materials.



GlasRoc® Sheathing Residential Applications ▼



## A High Performance Exterior Sheathing\*

The unique technology behind GlasRoc® Sheathing combines reinforcing glass mats, fully embedded into a water-resistant gypsum core positioned beneath a paperless polymer-modified gypsum surface, and a protective acrylic coating on the exterior face. It is an enhanced version of the patented Embedded Glass Reinforced Gypsum™ technology developed and used by CertainTeed the past 20 years. Several patents have been awarded with other patents pending

### GlasRoc® Brand Sheathing offers:

- Long term protection (12 months) to weather exposure.
- A superior water resistant surface that does not inhibit water vapor permeance.
- Excellent fire resistance properties, and numerous fire rated designs.
- Mold resistance.
- Compatibility with most exterior wall systems and applications.
- Conformity to design and code requirements.
- Strength – with enough flexibility to bend to curved surfaces.

- A lightweight sheathing that cuts like regular gypsum board and is easy to handle and install — with minimal skin irritation due to fully embedded glass mats.

GlasRoc® Sheathing is the next generation of the industry standard for high performance, weather-resistant, glass mat gypsum-based sheathing. To back it up, CertainTeed provides a:

- 12 month limited warranty against exposure
- 5 year limited warranty assuring product performance
- 10 year substrate limited warranty in architecturally-specified EIF Systems

*So, relax – you've got the protection of GlasRoc® Sheathing.*

**Acrylic coating bonded to a polymer-modified gypsum surface**

**Specially formulated water resistant core**

**Reinforcing glass mats fully embedded beneath a polymer-modified layer of gypsum**

**NOTE:** All drawings are for illustration purposes only.

## Benefits

### Dimensions

Thickness & Type	Width	Length	Edge	Standard
1/2" (12.7 mm) <b>GlasRoc</b> ® Sheathing	4'	8'*	Square	ASTM C 1177
5/8" (15.9 mm) <b>GlasRoc</b> ® Sheathing Type X	4'	8'*	Square	ASTM C 1177

\*Other lengths available. Ask your CertainTeed sales representative.

### Better Physical Performance

Tested in accordance with ASTM C 1177, and applicable ASTM C 1396, C 931 and C 79 tests, GlasRoc® Sheathing meets or exceeds all physical property requirements. Results showed improved physical performance compared to glass-faced gypsum sheathing including:

- Reduced humidified deflections
- Superior flexural strengths
- Excellent nail-pull resistance

### Enhanced Dimensional Stability

GlasRoc® Sheathing will withstand normal exposure to UV, rain, wind, ice, and snow. It is dimensionally stable under changes in temperature and relative humidity. To back it up, CertainTeed provides a 12 month exposure limited warranty.

### Excellent Fire Protection

Testing in accordance with ASTM E 136 proved that GlasRoc® Sheathing, with its acrylic coating, is noncombustible and offers superior fire performance compared to paper-faced sheathings. It has a zero flame spread and zero smoke developed index when tested per ASTM E 84 (CAN/ULC-S102) for surface burning characteristics.

GlasRoc® Sheathing Type X is UL and ULC Classified for Fire Resistance for use in fire-rated designs. (UL and ULC Designation - Type EGRG).

### Easy to Handle and Install

GlasRoc® Sheathing is handled and installed like regular paper-faced sheathing.

In addition, it:

- Can be scored and cut with a standard utility knife. No special tools required.
- Snaps free after scoring only one face.
- Attaches to framing with the same fasteners used for paper-faced gypsum. No special fasteners required.
- Is easier to handle because skin irritations are minimized due to the fully embedded glass mats and our innovative acrylic coating.
- Has uniform field and edge hardness, making trimming & fastening quick and easy.

### Long Term Protection to Weather Exposure

GlasRoc® Sheathing, with its homogenous water resistance throughout the board, offers superior freeze/thaw resistance. It will withstand exposure to UV, rain, wind, ice and snow. To back it up, CertainTeed provides a 12 month exposure limited warranty. GlasRoc® Sheathing provides enhanced surface liquid water resistance while allowing the building's vapor drive to be unimpeded.

### Mold Resistance

Because GlasRoc® Sheathing contains no starches or sugars, it will resist mold growth. When tested in accordance with ASTM D 3273, GlasRoc® Sheathing exhibited no evidence of mold or fungal growth after a period of 28 days of exposure, yielding a rating of 10.



### Increased Durability

GlasRoc® Sheathing resists delamination because the glass mats are fully embedded into the panel, creating a more durable, dimensionally stable panel.

### Standards and Code Compliance

GlasRoc® Sheathing conforms to ASTM C 1177, applicable ASTM C 1396, C 931 and C 79 standards, and ICC ES Evaluation Report No. ESR-2460. Installation standards, where applicable, are Gypsum Association Publication GA-253, GA-216 and ASTM C 1280 for gypsum sheathing and soffits.

- ICC-ES Evaluation Report No. ESR-2460
- NYC MEA 312-03-M
- CCMC Evaluation Listing #13095-L
- Florida Product Approval #FL3029
- Ontario Minister Ruling No.: 05-17-141 (13095-R)

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# GlasRoc® Embedded Glass Reinforced Gypsum™ Sheathing

## Physical Properties

Properties	Products - 1/2" (12.7 mm)	Products - Fire-Rated 5/8" (15.9 mm)	Test Method/ Reference
	GlasRoc® Sheathing	GlasRoc® Sheathing Type X	
<b>Physical Characteristics:</b>			
Nominal Width Inches (mm)	48 (1219)	48 (1219)	-
Weight - Lbs/Square Foot (Kg/m <sup>2</sup> )	1.9 (9.3)	2.4 (11.7)	-
Standard Length Feet (mm)	8* (2438)	8* (2438)	-
Face Surface	Acrylic/Gypsum	Acrylic/Gypsum	-
<b>Pliability:</b>			
Bending Radius - Dry, Lengthwise, Feet (mm)	4 (1219)	6 (1829)	-
<b>Strength:</b>			
Racking Strength - Ultimate Lbs/Lin.Ft. - (kN/m) Design Value	540 (7.88)	654 (9.54)	ASTM E 72
Parallel Flexural Strength - Lbs. (N)	100 (445)	135 (600)	ASTM C 473
<b>Water Resistance:</b>			
Humidified Deflection (Sag) - Inches (mm)	1/16 (1.6)	1/64 (0.4)	ASTM C 473
<b>Water Vapor Transmission:</b>			
Permeance - perms (ng/Pa•s•m <sup>2</sup> )	26 (1500)	21 (1200)	ASTM E 96
<b>Thermal Resistance:</b>			
"R" Value - sq.ft.•h•°F/Btu (K•m <sup>2</sup> /W)	0.51 (0.090)	0.51 (0.090)	ASTM C 518
<b>Fire Performance:</b>			
Flame Spread/ Smoke Developed	0/0	0/0	ASTM E 84 (CAN/ULC-5102)
Combustibility:	Noncombustible	Noncombustible	ASTM E 136
<b>Dimensional Stability:</b>			
Thermal Coefficient of Linear Expansion - in./in./°F (mm/mm/°C)	9.3 X10 <sup>-6</sup> (16.7 X10 <sup>-6</sup> )	9.3 X10 <sup>-6</sup> (16.7 X10 <sup>-6</sup> )	ASTM E 228
<b>Mold Resistance:</b>			
Mold Resistance Rating**	10**	10**	ASTM D 3273

\* Other lengths available. Ask your CertainTeed sales representative.

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

### ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

EXTERIOR: ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE  
 INTERIOR: INSULATION • GYPSUM • CEILINGS

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