

CertainTeed

# GlasRoc<sup>®</sup> BRAND

## Embedded Glass Reinforced Gypsum<sup>™</sup> Sheathing

### Product Data and Submittal

#### Product Description

GlasRoc<sup>®</sup> Sheathing is a high performance, weather-resistant gypsum sheathing produced with CertainTeed's patented Embedded Glass Reinforced Gypsum<sup>™</sup> technology.

#### Basic Uses

GlasRoc<sup>®</sup> Sheathing is an appropriate substrate in EIF Systems, one-coat and conventional stucco systems, traditional cladding systems, exterior ceilings, soffit systems and exterior curved applications.

#### Advantages

- Will withstand up to twelve months of exposure to typical weather conditions such as UV, rain, wind, ice and snow.
- Superior water resistance which does not impede vapor transmission.
- 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.
- 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 mats reduce irritating glass fiber exposure for friendlier installation.

#### Limitations

- Framing spacing should not exceed 24" (600 mm) o.c. for 1/2" (12.7 mm) GlasRoc<sup>®</sup> Sheathing.
- GlasRoc<sup>®</sup> Sheathing must not be installed below grade.
- GlasRoc<sup>®</sup> Sheathing should not be used as a nailing base.
- GlasRoc<sup>®</sup> Sheathing 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<sup>®</sup> Sheathing 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.

See also GlasRoc<sup>®</sup> Sheathing Type X which has enhanced fire resistance qualities.

#### Sizes and Types

**Thicknesses:** 1/2" (12.7 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<sup>®</sup> Sheathing 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

#### Technical Data

##### Surface Burning Characteristics

GlasRoc<sup>®</sup> Sheathing has a Flame Spread rating of 0 and Smoke Developed rating of 0, in accordance with ASTM E 84 and CAN/ULC-S102M.

##### Noncombustible

Fire testing in accordance with ASTM E 136 determined that GlasRoc<sup>®</sup> Sheathing is non-combustible.

##### 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.

(Continued on back)

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Date \_\_\_\_\_

Products Specified: \_\_\_\_\_

Submittal Approvals (Stamps or Signatures)

**CertainTeed**   
Quality made certain. Satisfaction guaranteed.<sup>™</sup>

# 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.

PHYSICAL PROPERTIES	1/2"(12.7MM) GLASROC® SHEATHING	TEST METHOD
<b>Physical Characteristics:</b>		
Nominal Width	48" (1219 mm)	-
Standard Lengths	8' (2438 mm)*	-
Face Surface	Acrylic/Gypsum	-
<b>Pliability:</b>		
Bending Radius - Dry, Lengthwise		-
<b>Strength:</b>		
Racking Strength - Lbs/Lin.Ft. - (kN/m) Ultimate Value	540 (7.88)	ASTM E 72
Parallel Flexural Strength - Lbs. (N)	100 (445)	ASTM C 473
<b>Water Resistance:</b>		
Humidified Deflection (Sag)	1/16" (1.6 mm)	ASTM C 473
Permeance - perms (ng/Pa•s•m <sup>1</sup> )	26 (1500)	ASTM E 96
<b>Thermal Resistance:</b>		
"R" Value - sq.ft.•h•°F/Btu (K•m <sup>2</sup> /W)	0.51 (0.090)	ASTM C 518
<b>Fire Performance:</b>		
Flame Spread/Smoke Developed	0/0	
Combustibility:	Noncombustible	ASTM E 136
<b>Expansion:</b>		
Thermal Coefficient of Linear Expansion - in./in./°F (mm/mm/°C)	9.3 X10 <sup>-6</sup> (16.7 X10 <sup>-6</sup> )	ASTM E 228
<b>Mold Resistance:</b>		
Mold Resistant Rating**	10**	ASTM D 3273/D 3274

\*Other lengths available. Ask your CertainTeed sales representative

\*\*No mold growth detected. Note that 10 is the 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

CertainTeed Corporation  
P.O. Box 860  
Valley Forge, PA 19482

Professional: 800-233-8990  
Consumer: 800-782-8777  
www.certainteed.com



Characteristics, properties or performance of materials or systems manufactured by CertainTeed herein described are derived from data obtained under controlled test conditions. CertainTeed makes no warranties, express or implied, as to their characteristics, properties or performance under any variations from such conditions in actual construction. CertainTeed assumes no responsibility for the effects of structural movement.

™ © CertainTeed and the tag line "Quality made certain. Satisfaction guaranteed." are trademarks of CertainTeed Corporation. All other trademarks are the property of its affiliates and related companies.

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.

©01/08 CertainTeed Corporation. Printed in U.S.A. CTG-2358/10M/Rev 12-2008