

CertainTeed GlasRoc®

Embedded Glass Reinforced Gypsum Sheathing

Product Data and Submittal

Product Description

GlasRoc® Sheathing and GlasRoc Sheathing Type X are high-performance, weather-resistant gypsum sheathing boards produced with CertainTeed's patented 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 boards are approved substrates 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 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 mat-faced gypsum sheathing products.
- Dimensionally stable under changes in temperature and relative humidity.
- Due to its embedded glass mats, GlasRoc Sheathing resists delamination, deterioration, warping and job site damage.
- Will not contribute to mold growth.
- Noncombustible
- No special tools or fasteners required for installation.
- Embedded glass mats reduce irritating glass fiber exposure for friendlier installation.

Limitations

- Framing spacing should not exceed 24" (600 mm) o.c.
- Must not be installed below grade.
- GlasRoc Sheathing boards 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 boards are paperless gypsum panels with a water-resistant core and embedded glass mats which lie beneath a layer of gypsum, covered with an innovative acrylic coating. GlasRoc Sheathing Type X incorporates additives to enhance its fire resistive qualities.

Product Data

Thicknesses: 1/2" (12.7 mm), 5/8" (15.9 mm)

Widths: 4' (1220 mm) standard

Lengths: 8' (2440 mm) standard.
Custom lengths available.

Edges: Square

Packaging: Per piece

Technical Data

Surface Burning Characteristics

GlasRoc Sheathing boards have a Flame Spread rating of 0 and Smoke Developed rating of 0, in accordance with ASTM E84 (UL723 and CAN/ULC-S102M).

Noncombustibility

Noncombustible when tested in accordance with ASTM E136.

Fire Resistance

Fire resistance tests are conducted in accordance with ASTM E119, (ANSI/UL 263, NFPA 251, CAN/ULC-S101) and no warranty is made other than conformance to the standard under which the assembly was tested. Minor discrepancies may exist in the values of ratings, attributable to changes in materials and standards, as well as differences between testing facilities. Assemblies are listed as "combustible" (wood framing) and "non-combustible" (concrete and/or steel construction). For fire resistance ratings, refer to the Gypsum Association Fire Resistance Design Manual, UL Fire Resistance Directory - Vol. 1, and ULC Fire Resistance Directory (List of Equipment and Materials).

UL/ULC Type Designations:

EGRG or GlasRoc or GlasRoc Sheathing Type X

Applicable Standards and Code Compliance

GlasRoc Sheathing boards meet ASTM C1177 and applicable sections of ASTM C1396.

CCMC Evaluation Listing # 13095-L

NYC MEA # 312-03-M

Ontario Minister Ruling No: 05-17-141 (13095-R)

UL Evaluation Report UL ER3660-01

Continued on back

Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

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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. Comply with Gypsum Association GA-801.

Installation

Recommendations

Comply with Gypsum Association GA-253, ASTM C1280, 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 nonload-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.

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 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.

No joint treatment or weather-resistant barrier is required for the applicability of the GlasRoc product exposure warranty.

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" (12.7 mm) GlasRoc® Sheathing | 5/8" (15.9 mm) GlasRoc® Sheathing Type X | Test Method |
|---|---|---|--------------------------|
| Nominal Width | 48" (1220 mm) | 48" (1220 mm) | — |
| Standard Lengths | 8' (2440 mm)** | 8' (2440 mm)** | — |
| Face Surface | Acrylic/Gypsum | Acrylic/Gypsum | — |
| Bending Radius - Dry, Lengthwise | 4' (1220 mm) | 6' (1829 mm) | — |
| Racking Strength - lb/Lin.Ft. - (kN/m) Ultimate Value | 540 (7.88) | 654 (9.54) | ASTM E72 |
| Parallel Flexural Strength - lb (N) | 100 (445) | 135 (600) | ASTM C473 |
| Humidified Deflection (Sag) | 1/16" (1.6 mm) | 1/64" (0.4 mm) | ASTM C473 |
| Permeance - Perms (ng/Pa•s•m ²) | 26 (1500) | 21 (1200) | ASTM E96 |
| "R" Value - sq.ft.•h•°F/Btu (K•m ² /W) | 0.45 (0.079) | 0.57 (0.100) | ASTM C518 |
| Flame Spread/Smoke Developed | 0/0 | 0/0 | ASTM E84 / CAN/ULC-S102M |
| Combustibility: | Noncombustible | Noncombustible | ASTM E136 |
| Thermal Coefficient of Linear Expansion - in./in./°F (mm/mm/°C) | 9.3 x 10 ⁻⁶ (16.7 x 10 ⁻⁶) | 9.3 x 10 ⁻⁶ (16.7 x 10 ⁻⁶) | ASTM E228 |
| Mold Resistant Rating | 10*** | 10*** | ASTM D3273 / D3274 |

*Covered by U.S. Patent No. 6,524,679; 6,878,321; 6,866,492, and other patents pending.

**Other lengths available. Ask your CertainTeed Sales Representatives.

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

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