

GlasRoc[®] SHEATHING

Reinforced Glass Mat Sheathing Panel

Product Data and Submittal

Product Description

GlasRoc[®] Sheathing and GlasRoc Sheathing Type X are weather-resistant gypsum sheathing composed of a moisture resistant core and fiberglass mats.

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

Basic Uses

GlasRoc Sheathing panels are a tested air barrier material in accordance with ASTM E2178 (CAN/ULC-S741).

GlasRoc Sheathing panels can be used in conjunction with air barrier components and accessories as part of an air barrier assembly ASTM E2357 (CAN/ULC-S742).

GlasRoc Sheathing panels 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, as well as air barrier 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.
- Will not contribute to mold growth.
- Non-combustible.
- No special tools or fasteners required for installation.

Product Data

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

Widths: 4' (1220 mm) standard

Lengths: 8' (2440 mm) standard

Weight: 1/2" 1.8 lb psf 5/8" 2.5 lb psf

Edges: Square

Packaging: Per piece

Technical Data

Surface Burning Characteristics

GlasRoc Sheathing panels have a Flame Spread rating of 0 and Smoke Development rating of 0, in accordance with ASTM E84 (CAN/ULC-S102).

Noncombustibility

Noncombustible when tested in accordance with ASTM E136 and CAN/ULC-S114.

Fire Resistance

Fire resistance tests are conducted in accordance with ASTM E119 (ANSI/UL 263 and 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 "noncombustible" (concrete and/or steel construction). For fire resistance ratings, refer to the Gypsum Association Fire Resistance Design Manual, UL Fire Resistance Directory and ULC Fire Resistance Directory (List of Equipment and Materials).

UL/ULC Type Designations

GlasRoc

Applicable Standards and References

- Manufactured to meet ASTM C1177 and applicable sections of ASTM C1396.
- ASTM E2178 (CAN/ULC-S741) Air Barrier Materials.
- Component of ASTM E2357 (CAN/ULC-S742) Air Barrier Assemblies.

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 panels in flat stacks to prevent sagging. Protect materials to keep them dry. Protect panels to prevent damage to edges and surfaces. Comply with Gypsum Association GA-801.

Installation

Limitations

- Not recommended for continuous exposure to temperatures exceeding 125°F (52°C).
- Framing spacing should not exceed 24" (600 mm) o.c.
- Must not be installed below grade.
- GlasRoc Sheathing panels should not be used as a nailing base.
- Application to framing by adhesive only is not recommended.
- Panels should be stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces.

Composition and Materials

GlasRoc Sheathing panels are gypsum panels with a water-resistant core and fiberglass mats. GlasRoc Sheathing Type X incorporates additives to enhance its fire resistive qualities.

Continued on back

Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

Recommendations

Comply with Gypsum Association GA-253, ASTM C1280, manufacturer's written instructions and local building codes.

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

Install panels with a 3/8" (9 mm) setback where nonload-bearing constructions abut structural elements. Install panels 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 panels 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.

GlasRoc Sheathing is not intended for water immersion. Any cascading water should be directed away from the GlasRoc Sheathing until the appropriate drainage is in place.

The use of forced air heaters creates water vapor. Proper venting is necessary to reduce potential condensation of this water vapor on building materials. CertainTeed is not responsible for damage resulting from use of these types of heaters. The heater manufacturer should be consulted for proper use and ventilation procedures. Other conditions that may create moisture in the air, reduce drying potential or cause condensation on GlasRoc Sheathing should be avoided.

Do not allow water to pond or settle on GlasRoc Sheathing. Exposed wall ends should be covered to prevent water infiltration.

Horizontal Installation

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

Space fasteners a maximum of 8" (200 mm) o.c. (tighter spacing if recommended by manufacturer for specific application or UL/ULC fire-rated assembly details) and a minimum of 3/8" (9 mm) from edges and ends of panels.

Treat panel 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.

BIM/CAD Information

The BIM and CAD UL fire rated assemblies and sound assemblies can be found on CertainTeed's BIM and CAD Design Studio at certainteed.concora.com. CertainTeed's BIM and CAD Design Studio provides BIM and CAD details to many UL fire rated assemblies and sound assemblies in easy to view experience. Plus, downloadable Revit and DWG and PDF CAD Details are available.

Sustainability

Sustainable documentation, including recycled content, EPD's, HPD's, VOC Certifications, can be found at certainteed.ecomedes.com.

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	4' (1220 mm)	4' (1220 mm)	—
Standard Lengths	8' (2440 mm)*	8' (2440 mm)*	—
Face Surface	Coated Mat	Coated Mat	—
Weight - lb/sq.ft. (kg/m ²)	1.9 (9.3)	2.3-2.65 (11.2-12.9)	—
Bending Radius - Dry, Lengthwise	6' (1829 mm)	8' (2439 mm)**	—
Parallel Flexural Strength - lbf (N)	=> 80 (356)	=> 100 (445)	ASTM C473
Humidified Deflection (Sag)	=< 2/8" (6.4 mm)	=< 1/8" (3.2 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)	0.392 (0.069)	0.415 (0.073)	ASTM C518
Flame Spread/Smoke Developed	0/0 (0/0)	0/0 (0/0)	ASTM E84 (CAN/ULC-S102M)
Combustibility	Non-combustible	Non-combustible	(ASTM E136) CAN/ULC-S114
Thermal Coefficient of Linear Expansion - in./in./°F (mm/mm/°C)	11.2 x 10 ⁻⁶ (20.2 x 10 ⁻⁶)	10.9 x 10 ⁻⁶ (19.7 x 10 ⁻⁶)	ASTM E228
Mold Resistant Ratings	10***	10***	ASTM D3273

* Other lengths available. Ask your CertainTeed Sales Representatives.

** Double fasteners on ends as needed.

*** No mold growth detected. Note that 10 is the highest rating possible for ASTM D3273.

† Ask your sales representative for product availability in your region.



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