

GlasRoc[®] SHEATHING

Reinforced Glass Mat Sheathing Panel

Product Data and Submittal

Product Description

GlasRoc[®] Sheathing and GlasRoc Sheathing Type X are high-performance, weather-resistant gypsum sheathing panels 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.

Made in Canada, designed and tested for Canadian construction and climates.

Basic Uses

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

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

GlasRoc Sheathing panels are approved substrates by the major EIFS manufacturers, (tested in accordance with CAN/ULC-S716.2, by EIFS manufacturer) 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 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.

- Will not contribute to mould growth.
- Non-combustible.
- No special tools or fasteners required for installation.

Limitations

- Not recommended for continuous exposure to temperatures exceeding 52°C (125°F).
- Framing spacing should not exceed 600 mm (24") 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 fibreglass mats. GlasRoc Sheathing Type X incorporates additives to enhance its fire resistive qualities.

Product Data

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

Widths: 1220 mm (4') standard

Lengths: 2440 mm (8') standard

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.

Non-combustibility

Non-combustible when tested in accordance with CAN/ULC-S114 (ASTM E136).

Fire Resistance

Fire resistance tests are conducted in accordance with CAN/ULC-S101 (ASTM E119, ANSI/UL 263) 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

GlasRoc, EGRG

Applicable Standards and References

- Manufactured to meet ASTM C1177 and applicable sections of ASTM C1396.
- CAN/ULC-S741 Air Barrier Materials
- Component of 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

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Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

weather. Store and support panels in flatstacks 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

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 9 mm (3/8") setback where nonload-bearing constructions abuts structural elements. Install panels with a 6 mm (1/4") 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 vapour. Proper venting is necessary to reduce potential condensation of this water vapour 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 200 mm (8") o.c. (tighter spacing if recommended by manufacturer for specific application or UL/ULC fire-rated assembly details) and a minimum of 9 mm (3/8") 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.

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.

For Fire Resistance, 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).

| PHYSICAL PROPERTIES | 12.7 mm (1/2") GlasRoc® Sheathing | 15.9 mm (5/8") GlasRoc® Sheathing Type X | Test Method |
|---|--|--|--------------------------|
| Nominal Width | 1220 mm (4') | 1220 mm (4') | — |
| Standard Lengths | 2440 mm (8')* | 2440 mm (8')* | — |
| Face Surface | Coated Mat | Coated Mat | — |
| Weight - kg/m ² (lb/sq.ft.) | 9.3 (1.9) | 11.7 (2.4) | — |
| Bending Radius - Dry, Lengthwise | 1829 mm (6') | 2439 mm (8')** | — |
| Parallel Flexural Strength - N (lbf) | => 356 (80) | => 445 (100) | ASTM C473 |
| Humidified Deflection (Sag) | =< 3.2 mm (1/8") | =< 2.4 mm (3/32") | ASTM C473 |
| Permeance - ng/Pa•s•m ² (Perms) | > 1500 (26) | > 1200 (21) | ASTM E96 |
| "R" Value - K•m ² /W (sq.ft.•h•°F/Btu) | 0.069 (0.392) | 0.073 (0.415) | ASTM C518 |
| Flame Spread/Smoke Developed | 0/0 (0/0) | 0/0 (0/0) | CAN/ULC-S102 (ASTM E84) |
| Combustibility | Non-combustible | Non-combustible | CAN/ULC-S114 (ASTM E136) |
| Thermal Coefficient of Linear Expansion - mm/mm/°C (in/in/°F) | 20.2 x 10 ⁻⁶ (11.2 x 10 ⁻⁶) | 19.7 x 10 ⁻⁶ (10.9 x 10 ⁻⁶) | ASTM E228 |
| Mould Resistant Ratings | 10*** | 10*** | ASTM D3273 |

* Other lengths available. Ask your CertainTeed Sales Representatives.

** Double fasteners on ends as needed.

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

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