

GlasRoc® TILE BACKER

GlasRoc® Tile Backer Regular and Type X Gypsum Panel

Product Data and Submittal

Product Description

GlasRoc® Tile Backer is used behind tiles in interior wet areas such as bathrooms, laundries, utility rooms and kitchens. GlasRoc Tile Backer products consists of a specially formulated moisture-resistant core with engineered fiberglass facers. GlasRoc Tile Backer Type X provides the same moisture resistance as GlasRoc Tile Backer, plus it has a specially formulated core for use in fire resistance-rated designs. GlasRoc Tile Backer and GlasRoc Tile Backer Type X are available in a variety of sizes to meet various application requirements.

Basic Uses

GlasRoc Tile Backer and GlasRoc Tile Backer Type X panels are used in interior wet areas, non-wet areas, high-humidity areas and are typically used for adhering ceramic tiles to walls in bathrooms, in shower and tub enclosure walls, kitchens, laundry and utility rooms. They may be used for walls and ceilings, countertops, and as a wall backing for laminate-faced panels or fiberglass tub and shower units to provide impact, fire and sound resistance.

Advantages

- Scores and snaps like standard gypsum board.
- Achieves best possible score of 10 for mold resistance per ASTM D3273
- Up to 30% lighter weight than conventional cement backer boards.
- Lifetime limited warranty for residential tile installations.
- 20 year limited warranty for commercial tile installations
- Tile can be applied directly to Dry-Set Cement Mortar, Latex/Polymer modified thinset, or Mastic, when a water-resistant barrier is not applied. Latex/polymer modified thinset when a water-resistant barrier is applied. (Water-resistant barrier manufacturer's setting material requirements shall be followed.)

- Uniform edge and field hardness.
- GlasRoc Tile Backer has achieved GREENGUARD Gold Certification.

Limitations

- Not recommended around fireplaces or other areas with continuous exposure to temperatures exceeding 125°F (52°C).
- Panels should be stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces.
- Storing panel lengthwise leaning against the framing is not recommended.
- Panels should be carried, not dragged, to place of installation to prevent damaging edges.
- Cutting and scoring should be done from the printed coated side.
- In cold weather, temperatures within the enclosure should stay within the range of 50° to 95°F (10° to 35°C) and with sufficient ventilation to carry off excess moisture.
- Installation limited to uses as referenced in the basic uses section. For other installation application areas, contact Technical Services.
- Not intended for exterior use.
- Limited to tile installation. If product other than tile is going to be installed, contact Technical Services for recommendations.

When storing panels for extended periods of time, cumulative pressure on unsupported lower units causes gypsum panel to sag. For 4' x 8' (1220 mm x 2440 mm) panels, 4" (100 mm) wide risers (separators) should be spaced evenly at 28" (700 mm), then 24" (610 mm) for the next lift, followed by 28" (700 mm) for the next lift spacing across the 8' (2440 mm) length of the panel. A good stock rotation and inventory control plan will help avoid minor sagging.

Composition and Materials

Manufactured panel with an engineered glass-mat and water-resistant core. GlasRoc Tile Backer Type X has a specially formulated core for use in fire resistance-rated designs.

Product Data

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

Width: 4' (1219.2 mm)

Length: 8' (2438.4 mm)

Custom lengths may be available on special order. Consult your nearest CertainTeed sales representative.

Weight, lb/sq.ft. (kg/m²):

1/2" (12.7 mm) - 1.9 psf (9.28 kg/m²)

5/8" (15.9 mm) - 2.5 psf (12.21 kg/m²)

Edges: Square

Packaging: Stacked face to back with no end tapes

Applicable Standards

GlasRoc Tile Backer and GlasRoc Tile Backer Type X meet ASTM C1178 requirements.

Technical Data

Surface Burning Characteristics

GlasRoc Tile Backer achieved a rating of 0/0 for Flame Spread / Smoke Developed when tested in accordance with ASTM E84 (UL 723, CAN/ULC-S102).

GlasRoc Tile Backer is noncombustible as described and tested in accordance with ASTM E136.

Fire Resistance

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

UL/cUL/ULC Designation

GlasRoc

Applicable Standards and

References

- Manufactured to meet ASTM C1178
- ASTM C840
- Gypsum Association GA-216

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Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

- Gypsum Association GA-214
- Tile Council of North America's TCNA Handbook for Ceramic, Glass, and Stone Tile Installation
- ANSI's American National Standard Specifications for the Installation of Ceramic Tile

Installation

Framing

Installation of GlasRoc Tile Backer and GlasRoc Tile Backer Type X should be consistent with methods described in the standards and references noted. Framing members shall be plumb, true and firmly secured. If necessary, studs around tub enclosures and shower stalls should be furred so the inside lip of the fixture is flush with the face of the GlasRoc Tile Backer. The top of the furring should be even with the upper edge of the tub or shower pan.

When used as a tile substrate for walls, minimum 33 mil (20 gauge) steel, not less than 3-1/2" (89 mm) deep for residential applications or not less than 3-5/8" (92 mm) deep for commercial applications, or wood framing. Spacing should not exceed 16" (406 mm) o.c. without blocking for 1/2" (12.7 mm); or 24" (610 mm) o.c. with blocking for 1/2" (12.7 mm) and 24" o.c. for 5/8" (15.9 mm). When used as a tile substrate for ceilings, apply perpendicular to framing spaced a maximum 12" (300 mm) o.c. for 1/2" (12.7 mm) and 16" (406 mm) o.c. for 5/8" (15.9 mm). Always provide appropriate blocking, headers or supports for tub, plumbing fixtures, soap dishes, grab bars, towel racks, etc.

Placing Fixtures

Waterproof receptors, pans, or sub pans shall have an upright lip or flange not less than 1" (25 mm) higher than the water dam or threshold of shower entry way, and shall be installed prior to erection of GlasRoc Tile Backer.

Install a temporary strip or shim which, when removed, will provide a 1/4" (6 mm) clearance between the GlasRoc Tile Backer and the lip of the tub or shower receptor.

Applying the GlasRoc Tile Backer Panel

Apply the GlasRoc Tile Backer horizontally to minimize butt joints. Glass-reinforced edge should abut the top edge of the temporary strip or shim.

For fire or sound-rated construction, GlasRoc Tile Backer should extend full height, floor-to-ceiling, behind tub and/or shower enclosures.

Fasten the 1/2" (12.7 mm) panel with 1-1/2" (38 mm) galvanized roofing nails, 8" (200 mm) o.c., or 1-1/2" (38 mm) corrosion resistant backerpanel screws, 8" (200 mm) o.c. Drive nails and screws flush with surface. Do not countersink fasteners.

In areas to be tiled; joints and corners shall be treated with nominal 2" (50 mm) alkali-resistant fiberglass mesh tape embedded in a skim coat of the tile setting material. Do not use regular joint compound and paper tape.

Caulk/seal penetrations around pipes, fixtures, etc., and where GlasRoc Tile Backer butts against dissimilar materials with a waterproof, flexible sealant or tile adhesive.

For more installation details, review the GlasRoc Tile Backer Installation Instructions.

Applying Tile

Apply a tile setting material to the printed coated face using a Dry-Set Cement Mortar meeting ANSI A118.1, Latex/Polymer modified thinset meeting ANSI A118.4, or Mastic meeting ANSI A136.1.

****Note**** if a water-resistant barrier is applied, follow the water-resistant barrier manufacturers requirement for tile setting material.

All tile joints shall be completely and continuously grouted.

Tile should be applied down to the top edge of the shower floor surfacing material, or the return of the shower pan, and extend over tub lip. The tile shall completely cover the following areas, including all joints and corners:

- Over tubs without shower heads — minimum of 6" (152 mm) above rim of tub.
- Over tubs with showers — minimum of 5' (1525 mm) above rim or 6" (152 mm) above shower head, whichever is higher.
- Surfacing material shall be applied to the full specified height for a distance of not less than 4" (102 mm) beyond the outside face of the tub or receptor. Areas beyond an outside corner are excluded.

Fill space between fixtures and the tile with a flexible sealant, such as silicone sealants meeting ASTM C920.

For application of plastic-finished rigid wall panels, recommendations of the panel manufacturer should be followed.

For more detailed installation instructions see GlasRoc Tile Backer installation guide.

Applying Water-Resistant Barriers

A water-resistant barrier is required, before tile application, on the interior side of an

exterior wall. This is especially important in tub and/or shower enclosures, due to the higher humidity levels and potential vapor drive from the interior space to the exterior. A water-resistant barrier is recommended, before tile application, when the wall is an interior wall. This includes when the tub and/or shower enclosure is an interior wall.

Interior walls typically divide rooms/areas. Exterior walls separate the interior space from the outside.

Water-resistant barriers, such as Custom Building Products RedGuard®, Laticrete HYDRO BAN®, and Mapei® Mapelastic® AquaDefense are tested and approved for use with GlasRoc Tile Backer.

Follow the water-resistant barrier manufacturers tile setting material and installation requirements.

Countertops

See GlasRoc Tile Backer product brochure for countertop tile backer applications.

BIM/CAD Information

BIM and CAD UL fire rated assemblies and sound assemblies can be found on CertainTeed's BIM and CAD Design Studio at bimlibrary.saint-gobain.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, DWG, and PDF CAD Details are available.

Sustainability

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

Notice

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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).

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