

GlasRoc[®] SHAFTLINER

Glass Mat Type X Gypsum Panel

Product Data and Submittal

Product Description

GlasRoc[®] Shaftliner for use in Shaftwall and Area Separation Firewall Systems is a 1" (25.4 mm) thick gypsum panel with a specially formulated fire resistive, noncombustible, and moisture resistant core. It is faced with reinforcing glass mats and a weather-resistive coating on the surface.

GlasRoc[®] Shaftliner is designed and engineered for use in constructing lightweight Shaftwall and Area Separation Firewall assemblies. GlasRoc[®] Shaftliner is UL/cUL Classified and ULC Listed in fire resistance designs and features double beveled edges for easy installation.

In addition to its fire resistive properties, GlasRoc[®] Shaftliner is also designed and engineered to provide added protection against mold. When tested for mold resistance by an independent lab, GlasRoc[®] Shaftliner achieved the highest possible score of 10 per ASTM D3273.

Product Data

Thickness: 1" (25.4 mm)

Width: 2' (610 mm)

Lengths: 8' (2440 mm), 10' (3050 mm), and 12' (3660 mm)

Edges: Double beveled

Packaging: Per piece

Weight: 4.0 psf (19.5 kg/m²)

Basic Uses

GlasRoc[®] Shaftliner is used in conjunction with other CertainTeed gypsum board products in Shaftwall and Area Separation Firewalls.

Gypsum shaftwall systems can replace traditional masonry for interior vertical enclosures including stairwells, elevator enclosures and mechanical chases. Some inherent advantages of gypsum shaftwall systems are: one-sided construction, lighter weight, reduced thickness, ease and speed of installation, and no requirement for scaffolding.

GlasRoc[®] Shaftliner can also be used in Horizontal Systems for membrane and duct protection and corridor ceilings.

GlasRoc[®] Shaftliner for use in Shaftwall Systems provides one to four hour fire resistive ratings, in non-loadbearing configurations. The systems are designed to withstand the intermittent surges of air pressure caused by fast moving elevator cabs.

CertainTeed Area Separation Firewalls offer the advantages of fire resistance and noise attenuation between adjoining housing units. These walls offer a two-hour fire resistance rating line of defense between units and provide acoustical ratings up to an STC 73.

Advantages

Area Separation Firewalls and Shaftwall Systems

- 12 month limited warranty against exposure

- Resists mold growth per ASTM D3273
- Economical and efficient installation
- Provides acoustical ratings up to an STC 73
- Scores and snaps easily with no special handling required
- No requirement for additional trades people on job
- Added protection from moisture during construction
- UL/cUL Classified and ULC Listed for Fire Resistance
- One-sided construction of shaftwalls eliminates the need for extensive scaffolding
- Rapid ease of installation reduces overall construction time and provides a cost effective system
- Lightweight construction
- Reduced wall thickness means greater floor area

Composition and Materials

1" (25.4 mm) thick and 2' (610 mm) wide gypsum shaftliner with a fire resistive core beneath reinforcing glass mats and a weather resistant coating on the surface.

Technical Data

Applicable Standards

- Manufactured to meet ASTM C1658 and applicable section of ASTM C1396

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Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

- ASTM C475 , C645, C754, C840, C1002, C1047, E84, E119
- CAN/ULC-S101, CAN/ULC-S102, CAN/CSA-A82.27
- GA-216, GA-238

Surface Burning Characteristics

GlasRoc® Shaftliner has a Flame Spread rating of 0 and Smoke Developed ratings of 0 in accordance with ASTM E84 (ANSI/UL 723) and CAN/ULC-S102.

Fire Resistance Rated Designs

Shaftwall Systems

UL/cUL U417, U428, U429, U529, W437, W471, ULC W446, GA-600 Shaftwall section

Area Separation Firewalls

UL U366, ULC W311, W467, GA-600 Area separation wall section

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.

For fire resistance ratings refer to the UL/cUL and ULC Fire Resistance Directories and Gypsum Association Fire Resistance Design Manual GA-600.

UL/ cUL/ ULC Designation

GlasRoc Shaftliner and LGFCSL

Installation

Limitations

Shaftwall Systems

- For non-loadbearing partitions only
- Not recommended for continuous exposure to temperatures exceeding 125° F (52° C)
- Not designed to serve as an unlined air supply duct
- Panels should not come in direct contact with concrete, masonry or other surfaces that have high moisture content

- Panels should be stacked flat on a smooth, level surface, not directly on the ground during storage
- Panels should always be kept dry prior to installation
- Panels should be carried with care to place of installation to prevent damaging of finished edges
- Limiting heights and deflection criteria for the system should be based upon the stud manufacturer's recommendations

Area Separation Firewalls

- The Area Separation Firewall is a non-loadbearing partition
- Interior finish walls (protected walls) are loadbearing or non-loadbearing walls
- Not recommended for continuous exposure to temperatures exceeding 125° F (52° C)
- Panels should be stacked flat on a smooth, level surface, not directly on the ground during storage
- Panels should be carried with care to place of installation to prevent damaging of finished edges
- Panels should always be kept dry prior to installation
- Unsupported wall height between floors should not exceed 12 feet (3660 mm). The assembly may be used in buildings up to 4 stories with a total height not to exceed 70 feet (21336 mm)
- Penetrations are not permitted in the double layer 1" shaftliner wall, but are permitted in the protective flanking walls. Consult local building code authorities.

Recommendations

Installation of GlasRoc® Shaftliner panels should be consistent with methods described in the standards and references noted.

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

ASTM lab tests are conducted under controlled conditions and may not always represent the performance of mold resistant gypsum panels or other building materials in actual use. Any building material can be overwhelmed by mold and can be influenced by project conditions during storage, installation or after completion. To minimize the potential for the growth of mold, the best and most economical strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design, construction, and maintenance practices.

Minor discrepancies may exist in the values of ratings, attributable to changes in materials and standards, as well as differences between testing facilities.

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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