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GlasRoc® SHAFTLINER TYPE X

Product Data and Submittal

Product Description

GlasRoc® Shaftliner Type X for use in Shaftwall and Area Separation Firewall Systems is a 1" (25.4 mm) thick gypsum board 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 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 D 3273, and 0 per ASTM G 21.

Sizes and Types

Thickness: 1" (25.4 mm)
Widths: 2' (610 mm) Standard
Lengths: 8' (2440 mm), 10' (3050 mm), and 12' (3660 mm)
Edges: Double beveled
Packaging: Per piece
Weight: 4.0 psf (19.5 kg/m^2)

Applicable Standards

GlasRoc® Shaftliner meets ASTM C 1396, ASTM C 1658, and CAN/CSA-A82.27 standards.

Basic Uses

GlasRoc® Shaftliner is used in conjunction with other ProRoc® and ProRoc® with M2Tech® 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 or two 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.

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 sound ratings up to STC 61.

Advantages

Area Separation Firewalls and Shaftwall Systems

- 12 month limited warranty against exposure
- Resists mold growth per ASTM D 3273 and ASTM G 21
- Economical and efficient installation
- Scores and snaps easily with no special handling required
- No requirement for additional trades people on job
- Added protection from moisture during construction
- UL 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
- Area Separation Firewall ratings up to two hours
- Shaftwall fire resistance ratings up to two hours

Limitations

Continued on back

Job Name

Contractor Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

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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
- Boards should not come in direct contact with concrete, masonry or other surfaces that have high moisture content
- Boards should be stacked flat on a smooth, level surface, not directly on the ground during storage
- Boards should always be kept dry prior to installation
- Boards 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

- For non-loadbearing partitions only
- Not recommended for continuous exposure to temperatures exceeding 125° F (52° C)
- Boards should be stacked flat on a smooth, level surface, not directly on the ground during storage
- Boards should be carried with care to place of installation to prevent damaging of finished edges
- Boards 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 44 feet (13400 mm)
- Penetrations in Area Separation Firewalls are not usually permitted by code authorities
- Finish rating - 120 minutes

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

Surface Burning Characteristics

GlasRoc® Shaftliner has a Flame Spread rating of 0 and Smoke Developed ratings of 10 in accordance with ASTM E 84 (ANSI/UL 723, NFPA 255) and 20 in accordance with CAN/ULC-S102.

Fire Resistance

Fire resistance tests are conducted in accordance with ASTM E 119 (ANSI/UL 263, NFPA 251), 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 and ULC Fire Resistance Directories and Gypsum Association Fire Resistance Design Manual GA-600.

Installation

Applicable Standards and References

Shaftwall System

ASTM C 1396, ASTM C 1658, C 475, C 645, C 754, C 840, C 1002, C 1047, E 84, E 119; CAN/ULC-S101, CAN/ULC-S102, CAN/CSA-A82.27, GA-600, GA-216, GA-238; UL U417, ULC W446.

Area Separation Firewalls

ASTM C 1396, ASTM C 1658, C 475, C 645, C 754, C 840, C 1002, C 1047, E 84, E 119; CAN/ULC-S101, CAN/ULC-S102, CAN/CSA-A82.27, GA-600, GA-216, GA-238; UL U366, ULC W311.

Recommendations

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

Notice

ASTM lab tests are conducted under controlled conditions and may not always represent the mold 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.

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