

CertainTeed

M2TECH™

Shaftliner Type X Gypsum Board

Product Data and Submittal

Product Description

M2Tech® Shaftliner is a 1" (25.4 mm) thick gypsum board with a specially formulated fire resistive noncombustible core enclosed in a heavy moisture and mold resistant, light violet colored, 100% recycled paper. M2Tech Shaftliner gypsum board is designed and engineered for use in constructing lightweight Shaftwall and Area Separation Firewall assemblies.

M2Tech Shaftliner gypsum board is UL Classified and ULC Listed in fire resistance designs and features double beveled edges for ease of installation. M2Tech Shaftliner is available in 8' (2440 mm), 10' (3050 mm), and 12' (3660 mm) lengths.

In addition to its fire resistive properties M2Tech Shaftliner gypsum board is also designed and engineered to provide added protection against mold when exposed to incidental or intermittent moisture during and after construction. When tested for mold resistance by an independent lab at the time of manufacturing, M2Tech Shaftliner achieved the best possible scores of 10 per ASTM D3273 and 0 for ASTM G21.

Basic Uses

M2Tech Shaftliner is used in conjunction with other CertainTeed and 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. M2Tech Shaftliner can also be used in Horizontal Systems for membrane and duct protection and corridor ceilings.

M2Tech Shaftliner Shaftwall systems provide one, two or three 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 2-hour fire resistance rating line of defense between units and provide sound ratings up to STC 61.

Advantages

Area Separation Firewalls and Shaftwall Systems

- Resists mold growth per ASTM D3273 and ASTM G21
- Economical and efficient installation
- Scores and snaps easily with no special handling required
- No requirement for additional trade on job
- UL Classified and ULC Listed for Fire Resistance and Surface Burning Characteristics
- 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 rating up to three hours
- GREENGUARD Gold Certified

Limitations

Shaftwall Systems

- For non-loadbearing partitions only
- Exposure to continuous moisture should be avoided
- 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

Continued on back

Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

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SAINT-GOBAIN

Area Separation Firewalls

- For non-loadbearing partitions only
- Exposure to continuous moisture should be avoided
- 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' (3660 mm). The assembly may be used in buildings up to 4 stories with a total height not to exceed 68' (20700 mm)
- Penetrations in Area Separation Firewalls are not usually permitted by code authorities
- Finish rating – 120 minutes

Product Data

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

Paper: Light violet colored face and back paper

Weight: 3.7 psf (18 kg/m²)

Technical Data

Applicable Standards and References

Composition and Materials

1" (25.4 mm) thick and 2' (610 mm) wide gypsum shaftliner and coreboard with a fire resistive core enclosed in a moisture and mold resistant light violet face paper

Shaftwall System

ASTM C1396, C475, C645, C754, C840, C1002, C1047, E84, E119; CAN/ULC-S101, CAN/ULC-S102, CAN/CSA-A82.27, GA-600, GA-216, GA-238; UL U417, ULC W446; ICC ES ER-3579; NER-506; ICC ES ER-4924.

Area Separation Firewalls

ASTM C1396, C475, C645, C754, C840, C1002, C1047, E84, E119; CAN/ULC-S101, CAN/ULC-S102, CAN/CSA-A82.27, GA-600, GA-216, GA-238; UL U366, ULC W311.

Surface Burning Characteristics

M2Tech Shaftliner has a Flame Spread rating of less than 15 and Smoke Developed rating of 0, in accordance with ASTM E84 (ANSI/UL 723) and CAN/ULC-S102.

Fire Resistance

Fire resistance tests are conducted in accordance with ASTM E119 (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

Recommendations

Installation of M2Tech Shaftliner Gypsum 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. 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.



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