

# CertainTeed

# ProRoc<sup>®</sup> BRAND

## Moisture and Mold Resistant Shaftliner Type X with M2Tech™

### Product Data and Submittal

#### Product Description

ProRoc<sup>®</sup> Shaftliner with M2Tech™ 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 for use in ProRoc<sup>®</sup> Shaftwall and Area Separation Firewall systems.

ProRoc<sup>®</sup> Shaftliner with M2Tech™ gypsum board is designed and engineered for use in constructing lightweight Shaftwall and Area Separation Firewall assemblies. ProRoc<sup>®</sup> Shaftliner with M2Tech™ gypsum board is UL Classified and ULC Listed in fire resistance designs and features double beveled edges for easy installation. ProRoc<sup>®</sup> Shaftliner with M2Tech™ is available in 8' (2440 mm), 10' (3050 mm), and 12' (3660 mm) lengths.

In addition to its fire resistive properties ProRoc<sup>®</sup> Shaftliner with M2Tech™ 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, ProRoc<sup>®</sup> Shaftliner with M2Tech™ achieved the highest possible score of 10 per ASTM D3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber."

These panels may be substituted for 1" (25.4 mm) ProRoc<sup>®</sup> Shaftliner Type X gypsum boards in all Shaftwall and Area Separation Firewall systems.

#### 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

**Paper:** Light violet colored face and back paper

**Weight:** 3.7 psf (18 kg/m<sup>2</sup>)

#### Applicable Standards

ProRoc<sup>®</sup> Shaftliner with M2Tech™ meets ASTM C 1396, and CAN/CSA-A82.27 standards.

#### Basic Uses

ProRoc<sup>®</sup> Shaftliner with M2Tech™ is used in conjunction with other ProRoc<sup>®</sup> 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. ProRoc<sup>®</sup> Shaftliner with M2Tech™ can also be used in Horizontal Systems for membrane and duct protection and corridor ceilings.

ProRoc<sup>®</sup> Shaftliner with M2Tech™ 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 D 3273
- Economical and efficient installation
- Scores and snaps easily with no special handling required
- No requirement for additional trade on job
- Added protection from incidental moisture during construction
- UL Classified and ULC Listed for Fire Resistance and Surface Burning Characteristics
- One sided construction of Shaftwalls eliminates the need for extensive scaffolding

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Job Name

Contractor

Date

Products Specified:

Submittal Approvals  
(Stamps or Signatures)

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- 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

## 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

### 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 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 ft (610 mm) wide gypsum shaftliner and coreboard with a fire resistive core enclosed in a moisture and mold resistant light violet face paper.

## Technical Data

### Surface Burning Characteristics

ProRoc® Shaftliner with M2Tech has a Flame Spread rating of less than 15 and Smoke Developed rating of 0, in accordance with ASTM E 84 (ANSI/UL 723) and 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, 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; ICBO ES ER-3579; NER-506; ICBO ES ER-4924.

### Area Separation Firewalls

ASTM C 1396, 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 ProRoc® Shaftliner with M2Tech™ 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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