

- Unfaced
- FSP

### Description

Safing Insulation/Mineral Wool (MW) is made of inorganic fibers derived from basalt, a volcanic rock. The fibers are bonded and formed into flexible batts. The product is manufactured in a standard 4" thickness, but custom sizes are available. Safing Insulation/MW is available unfaced or with Foil-scrim-polyethylene (FSP) facing on one side.

### Uses

Safing Insulation/MW is installed between the spandrel panel and floor slab in commercial curtainwall systems to provide fire resistance in this area. It also prevents passage of flame and smoke in openings that penetrate fire rated assemblies.

### Features and Benefits

#### Superior Fire Safety

Safing Insulation/MW has a melting point in excess of 2000°F and is classified as noncombustible by the model building codes. When installed in approved systems, Safing Insulation/MW provides up to a three hour endurance rating for listed assemblies.

#### Material Construction

Safing Insulation/MW is manufactured, utilizing patented state-of-the-art technology from basaltic rock. Safing Insulation/MW is inorganic and will not mildew or support corrosion.

#### Excellent Thermal Performance

Safing Insulation/MW also provides excellent thermal properties in all commercial curtainwall systems. Safing Insulation/MW delivers R-values of 4.0 per inch.

#### Quick Installation

Safing Insulation/MW installs and fabricates easily. Safing Insulation/MW is easily cut with a utility knife for convenient job site fabrication. Safing Insulation/MW is easy to compress to tightly fit between the curtainwall insulation and the floor slab. Safing Insulation/MW is packaged in poly-shrink wrap.

#### Design Considerations

Mineral wool safing should be specified to meet code requirements as firestopping or as part of fire resistance rated joint, perimeter, wall, floor, or ceiling assemblies or as otherwise required.

The need for and placement of a vapor retarder in commercial construction depends on many factors. The architect or specifier should evaluate the requirements of each project.

#### Installation

Safing Insulation/MW is easily cut with a knife for quick installation and easy sizing. Impale Safing Insulation/MW on galvanized sheet steel safing clips, 24" O.C., and compression fit into the opening between the curtainwall insulation and floor slab. Leave no voids. Compress Safing Insulation/MW as needed into all penetrations in fire rated floor slabs and partitions. Completely fill voids around various assembly penetrations. Butt ends and edges closely together and fill all voids with additional insulation.

Maintaining the integrity of the vapor retarder is critical for effective moisture/humidity control. Pressure sensitive joint sealing tape should be used to cover all insulation joints. Pins, clips and any punctures or tears in the facing should be covered with vapor-sealing, pressure sensitive patches to maintain the integrity of the vapor retarder. Follow tape manufacturer's application recommendations and instructions.

Product should not be exposed to weather during shipping, storage or installation.

Use an approved dust respirator when handling Safing Insulation/MW. These respirators include 3M's 8710 and 9900 (high humidity environments). Follow respirator instructions to perform OSHA required "fit test".

Wear goggles or safety glasses with side shields while handling or installing Safing Insulation/MW. This is especially important when installing insulation overhead. A loose fitting long-sleeve shirt and long pants are recommended to provide skin protection. Cover shirt cuffs with glove wrist bands. Wear a hat or cap to keep dust particles out of the hair and away from the scalp.

#### Applicable Standards

Safing Insulation/Mineral Wool complies with ASTM C 612, Types I-IV. Federal Specification HH-I-558B has been canceled and is replaced by ASTM C612.

Unfaced Safing Insulation/MW product is considered noncombustible per ASTM E 136.

Safing Insulation/MW also complies with the requirements of the City of New York MEA 346-90.

The surface burning characteristics of Safing Insulation/MW were derived from product tests per ASTM E 84. This standard is used solely to measure and describe properties of products in

## Insulation

# Safing Insulation/MW

### Safing Insulation/MW Technical Data

Nominal Density pcf	Width	Length	Thickness*	
			Unfaced	Faced
4.0	24" 609mm	48" 1219mm	1 - 6"	2 - 4"

Custom sizes available.

### Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	BOCA	SBCCI	ICC
Unfaced	5	0	All Types	All Types	All Types	All Types
Foil Scrim						
Polyethylene (FSP)	25	50	All Types	All Types	All Types	All Types

Safing Insulation/MW complies with ICBO (Uniform Building Code), BOCA (National Building Code) and SBCCI (Standard Building Code) and ICC (International Building Code) model code requirements for building construction types listed above.

### Thermal Performance

R-value per inch 4.0

### Perm Rating

Perms Maximum\* 0.02

### Water Absorption

Maximum by Volume Less than 1%

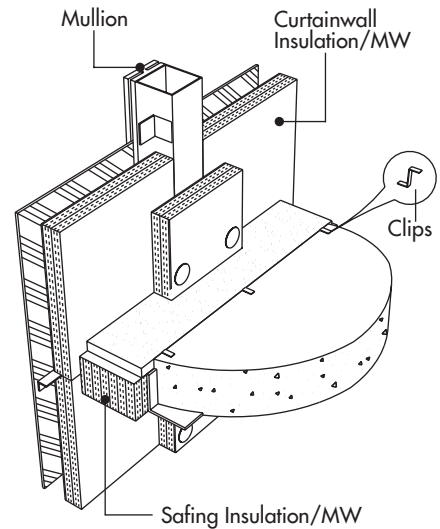
\* Products are tested in accordance with:

R-value	ASTM C 518
Surface Burning Characteristics	ASTM E 84
Perm Rating	ASTM E 96

R-values differ. Find out why in the sellers fact sheet on R-values. Higher R-values mean greater insulating power.

response to heat and flame under controlled laboratory conditions, and should not be used to describe or approve the fire hazard of materials under actual fire conditions. However, the results of these tests may be used as elements of a fire risk assessment that takes into account all of the factors pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest five rating.

### Perimeter Fire Containment Joint\*\*



\*\* See approved System Listing Directories for full system details.



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