



MinWool™ Safing SOUND AND FIRE CONTROL INSULATION

DESCRIPTION

IIG MinWool™ Safing Insulation is made of inorganic fibers derived from basalt, a volcanic rock, with a thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance. Safing insulation is manufactured in a standard 4" (102 mm) thickness. Custom sizes are available on special order. It is inorganic and will not mildew or support corrosion.

MinWool Safing is GREENGUARD Indoor Air Quality Certified® for low chemical emissions.

APPLICATIONS

MinWool Safing insulation is designed to be installed between the spandrel panel and floor slab in commercial curtainwall systems to provide a fire-rated seal. It also prevents the passage of flame and smoke in openings that penetrate fire rated assemblies.

ADVANTAGES

Unique Bio-Soluble Fiber. IIG MinWool has been tested and exceeds the regulatory safety for solubility.

Excellent Thermal Performance. Provides excellent thermal properties in all commercial curtainwall systems. MinWool Safing has an R-Value of 4.0 per inch (0.70 per 25 mm) of thickness.

Superior Fire Safety. MinWool Safing Insulation has a melting point in excess of 2000° F (1093° C) and the unfaced insulation is classified as noncombustible by the model building codes. When installed in approved systems, the insulation provides up to a three hour fire resistance rating when tested in accordance with ASTM E 119 (UL 263, NFPA 251).

Low Smoke & Flame Spread. When tested in accordance with ASTM E 84, UL 723, CAN/ULC-S102-M, the unfaced insulation has a flame spread rating of 5 and a smoke developed rating of 0. The faced insulation has a flame spread rating of 25 and a smoke developed rating of 5.

Noncombustible. Unfaced MinWool Safing is rated as noncombustible in accordance with ASTM E 136 and CAN4-S114-M.

Quick Installation. MinWool Safing Insulation is easy to install. It is easily cut with a utility knife for convenient job site fabrication. It is easy to compress to fit tightly between the curtainwall insulation and the floor slab. MinWool Safing Insulation is packaged in polyshrink wrap.

Mold Resistant. IIG MinWool does not support growth of fungi.

AVAILABLE TYPES

MinWool Safing Insulation is available in a standard size of 4" (102 mm) thick by 24" X 48" (610 mm x 1219 mm)*. MinWool Safing Insulation can also be furnished in other thicknesses and sizes on special order.

**MinWool Safing is available on a made-to-order basis with FSP facing on one side only.*



DESIGN RECOMMENDATIONS

MinWool Safing should be specified to meet building code requirements as a firestop or as part of a fire-rated joint, perimeter, wall floor, ceiling, or other assembly as required. The need for and the placement of a vapor retarder in commercial construction depends on many factors. The architect or specifier should evaluate the requirements of each project. Two hour and Three hour fire rated assemblies are listed in the UL Fire Resistance Directory.

INSTALLATION

MinWool Safing Insulation is easily cut with a knife for quick installation and easy sizing. Install the insulation as specified in the listing or as required by the project drawings and specifications. Leave no voids. Compress the insulation 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. Refer to Section 7 of the Material Safety Data Sheet (MSDS) for information on Handling and Storage.

Follow the information in Section 8, Exposure Control and Personal Protection, of the Material Safety Data Sheet (MSDS) when handling this product. Wear goggles or safety glasses with side shields while handling or installing MinWool Safing Insulation. 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.

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SOUND AND FIRE CONTROL INSULATION

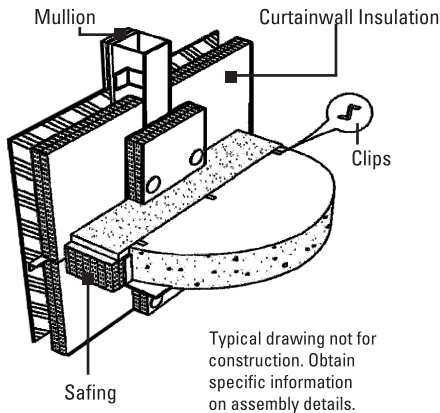
SPECIFICATION COMPLIANCE

ASTM C 612 (HH-I-558B)	Types 1-4
Flame Spread/Smoke Developed, ASTM E 84, UL 723, CAN/ULC-S102-M	Unfaced 5/0; Faced 25/5
ASTM E 136	Noncombustible
ASTM C 1338	Passes
CAN4-S114-M	Passes
Water Vapor Sorption, ASTM C 1104	<1% By Weight at 120°F (49°C), 95% RH
FSP Facing Permeability, ASTM E 96	0.02 Perms, Maximum
City of New York	MEA-346-90
ICBO (Uniform Building Code)	All Building Classification Types
BOCA (National Building Code)	All Building Classification Types
SBCCI (Standard Building Code)	All Building Classification Types
ICC (International Building Code)	All Building Classification Types

Density (pcf) (kg/m ³)	R Value/in.(per 25 mm) (hr·ft ² ·° F)/Btu m ² ·° C/W	Width		Length		Thickness			
		(in.)	(mm)	(in.)	(mm)	Unfaced (in.) (mm)	Faced (in.) (mm)		
4 64	4.0 0.70	24	610	48	1219	1-6 25-152	2-4	51-102	

Thickness range available in 1/2"(13 mm) increments. Custom lengths, widths, and thicknesses are also available. R-Value determined in accordance with ASTM C 518. The higher the R-Value, the greater the insulating power.

Typical Perimeter Fire Containment Joint



GOVERNMENT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to price page IIG-CSP-3 for Certification Procedures and Charges. Call customer service for more information.



Industrial Insulation Group, LLC is a Calsilite/Johns Manville joint venture. IIG manufactures MinWool mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high temperature adhesives, and insulating finishing cement.

The physical and chemical properties presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - info@iig-llc.com.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.

IIG[®]
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