MasterFormat 07 84 43 – Joint Firestopping
MasterFormat 07 84 53 – Building Perimeter Firestopping

Thermafiber® Safing
Mineral Wool Firestopping Insulation

PRODUCT FEATURES

Description

Compression fit mineral wool firestopping insulation for fire protection at joints and penetrations, with thermal and acoustical properties.

Basic Uses/Related Uses

Compression fit firestopping insulation for floor and wall penetrations, construction joints, and other firestopping applications. Safing is an integral component used to transition any perimeter fire containment wall system to the fire rated floor/ceiling. Thermafiber tested systems include:

- Aluminum-Framed/Aluminum Spandrel Perimeter Fire Barrier
- Steel Stud-Framed/Gypsum Sheathing Perimeter Fire Barrier
- Aluminum-Framed/Glass Spandrel Perimeter Fire Barrier
- Aluminum-Framed/Granite Spandrel Perimeter Fire Barrier
- Precast Concrete Spandrel

Selection Criteria

- Independently tested for use in fire containment assemblies having 1, 2 and 3 hour fire resistance ratings
- Non-combustible
- Moisture resistant and non-deteriorating
- Non-corrosive
- Vermin resistant
- Optional vapour retarding foil facing for use in applicable building assemblies
- Helps conserve energy, reduce greenhouse gas emissions
- Fire resistant to temperatures above 1,093° C (2,000° F)
- Enhances acoustical performance

Sustainability Criteria

- Recycled content minimum 70%, standard fiber
- Bronze Material Health Certificate from Cradle to Cradle
- Contributes to credits in several green building programs such as LEED and Green Globes
- For more information see Environmental Product Declaration (EPD) certified by UL Environment via www.thermafiber.ca/sustainability

Applicable Standards

CAN/ULC-S702	Standard for Mineral Fibre Thermal Insulation for Buildings
ASTM C665	Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
ASTM C612	Standard Specification for Mineral Fiber Block and Board Thermal Insulation
ASTM C518	Standard Test Methods for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
CAN/ULC-S114	Standard Method of Test for Determination of Non-combustibility in Building Materials
ASTM E136	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
CAN/ULC-S129	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
CAN/ULC-S102	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E2307	Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus
CAN/ULC-S115	Standard Method of Fire Tests of Firestop Systems
ASTM E814	Standard Test Method for Fire Tests of Penetration Firestop Systems
UL 1479	Standard for Fire Tests of Penetrations Firestops
UL 2079	Standard for Tests of Fire Resistance of Building Joint Systems
ASTM C1104	Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials
ASTM C1338	Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
ASTM C795	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel

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Performance Criteria

Compliance	Evaluation Listing No. 14060-L		CCMC
	Type I (Unfaced), Type III (Foil Face)		CAN/ULC-S702
	Type I,III		ASTM C665
	Type IA, IB, II, III, IVA		ASTM C612
Density	Safing 4.0	64 kg/m³ (4.0 lbs/ft³)	Actual
	Safing 6.0	96 kg/m³ (6.0 lbs/ft³)	
Thermal	RSI value/25.4 mm @ 24 °C	0.74 m²•K/W	ASTM C518
	R-value/inch @ 75 °F	4.2 hr•ft²•°F/Btu	
Fire	Non-Combustible		CAN/ULC-S114
	Non-Combustible		ASTM E136
	Smoulder Resistance Mean Mass Loss ≤ 0.02%		CAN/ULC-S129
	Flame Spread 0; Smoke Developed 0		CAN/ULC-S102
	Flame Spread 0; Smoke Developed 0		ASTM E84
	Perimeter Fire Containment (see UL, Intertek listings)		ASTM E2307
	Fire Tests of Firestop Systems - Complies		CAN/ULC-S115
	Penetration Firestop Systems - Complies		ASTM E814 or UL1479
	Material in Construction Joint Systems - Complies		UL 2079
Moisture	Moisture Absorption < 1% by volume		ASTM C1104
	Water Vapour Transmission; Unfaced 2850 ng/Pa.s.m² (50 Perms) Foil Faced 1 ng/Pa.s.m² (0.02 Perms)		ASTM E96
	Fungi Resistance - Pass		ASTM C1338
Corrosion	Austenitic Steel - Non-corrosive		ASTM C795
	Steel, Aluminum & Copper - Non-corrosive		ASTM C665

Sizes

Product	Thickness†	Widths	Lengths
Unfaced	25 mm (1") - 179 mm (7")	406 mm (16") 610 mm (24") 914 mm (36")	1219 mm (48") 1524 mm (60")
Foil Faced: Safing 4.0	50 mm (2") - 179 mm (7")		
Foil Faced: Safing 6.0	38 mm (1.5") - 179 mm (7")		

†Available in 12.7 mm (1/2") increments

Quality Statement, Tests, Certifications, and Approvals

- Fire resistance verified by ULC, UL and Intertek.
- Perimeter Fire Containment Systems verified by testing to ASTM E2307. For complete information see UL and Intertek directories.
- UL Classification:
  - XHKU7 Forming Materials Certified for Canada
  - XHKU Forming Materials
- Safing UL Reference = TYPE SAF.
- Recycled content verified by ICC-ES.

Delivery and Storage

Deliver products in their original packages, and store in enclosed shelter.

Limitations

Packaging is not UV resistant. Shelter unused packages from the elements.

Safety

Contact with mineral wool may cause temporary eye and skin irritation. Wear eye protection and long-sleeved loose fitting clothing closed at the neck and wrists. For additional information refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

Availability/Cost

Contact Owens Corning local Area Sales Manager.
See ASM territory map via www.thermafiber.ca/contact.

PRODUCT PROPERTIES

Materials

Mineral wool, Type I & III (to CAN/ULC S702), non-combustible (to CAN/ULC-S114), non-corrosive (to ASTM C665).

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PRODUCT PLACEMENT

Installation

- Install in accordance to system specific test description as per listed UL and Intertek assemblies.
- Perimeter Installation: Safing insulation should be compression fitted between the slab edge and the curtain wall insulation, leaving no voids. See specific listed assembly for details.
- Penetration Application: Safing insulation should be cut slightly larger than the opening and compression fitted into the opening, leaving no voids. See specific listed assembly for details.
- Construction Joint Application: Safing insulation should be compression fitted into the joint opening, leaving no voids. See specific listed assembly for details.
- Cut insulation with a serrated knife.

Technical Services Available

For Canadian Thermafiber® Technical inquiries please contact Matthew Schiedel: matthew.schiedel@owenscorning.com or at 1-844-304-1623

Thermafiber® Safing and FireSpan® insulations provide the critical components of the perimeter fire containment system in the 111 South Wacker Building in Chicago, IL. Thermafiber® mineral wool insulation also contributed to the building's LEED® Gold Rating.

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Disclaimer of Liability

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