



Thermafiber® FireSpan™ 40 & 90 Mineral Wool Fire Containment Insulation

PRODUCT FEATURES

Description

Mineral wool insulation designed to provide enhanced fire protection in curtain wall and perimeter fire containment systems, with thermal and acoustical properties.

Basic Uses/Related Uses

Fire protection insulation for curtain wall and perimeter fire containment systems. 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 perimeter 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 construction assemblies
- Helps conserve energy, reduce greenhouse gas emissions
- Fire resistant to temperatures above 1,093° C (2,000° F)
- Enhances acoustical performance
- Natural dark color provides shadowing in glass spandrels

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
ASTM C356	Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat
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
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 Type I (Unfaced), Type III (Foil Face) Type I, III (Class A, Category 1) Type IA, IB, II, III, IVA	CCMC CAN/ULC-S702 ASTM C665 ASTM C612
Density	FireSpan™ 40 64 kg/m³ (4.0 lbs/ft³) FireSpan™ 90 128 kg/m³ (8.0 lbs/ft³)	Nominal
Thermal	RSI value/25.4 mm @ 24 °C 0.74 m²•K/W R-value/inch @ 75 °F 4.2 hr•ft²•°F/Btu	ASTM C518
Stability	Linear Shrinkage <2% @ 650°C (1200°F)	ASTM C356
Fire	Non-Combustible Non-Combustible Smoulder Resistance Mean Mass Loss ≤ 0.02% Flame Spread 0; Smoke Developed 0 Flame Spread 0; Smoke Developed 0 Perimeter Fire Containment (see UL & Intertek listings)	CAN/ULC-S114 ASTM E136 CAN/ULC S-129 CAN/ULC-S102 ASTM E84 ASTM E2307
Moisture	Moisture Absorption < 1% by volume Water Vapour Transmission; Unfaced 2850 ng/Pa.s.m² (50 Perms) Foil Faced 1 ng/Pa.s.m² (0.02 Perms) Fungi Resistance - Pass	ASTM C1104 ASTM E96 ASTM C1338
Corrosion	Austenitic Steel - Non-corrosive Steel, Aluminum & Copper - Non-corrosive	ASTM C795 ASTM C665

Sizes

Product	Thickness [†]	Widths	Lengths
FireSpan™ 40	51 mm (2") - 179 mm (7")	610 mm (24") 914 mm (36") 1829 mm (72")	1219 mm (48") 1524 mm (60") 1829 mm (72")
FireSpan™ 90	25 mm (1") - 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.
- 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 according to assembly listing in UL and Intertek directories.
- Mechanically attach to horizontal and vertical aluminum framing with approved insulation fasteners.
- Thermafiber Inc.'s patented Impasse® system is designed to quickly and easily attach FireSpan™ to curtain wall systems.
- Reinforce insulation on the outer insulation surface at the safing line; typical reinforcement members include hat channels, “L” angles, and “T” bars.
- Protect exposed vertical aluminum mullions with Firespan™ 90 mullion covers.
- Interior joint between floor assembly and exterior curtain wall to be compression fit with Thermafiber® Safing insulation.
- Cut insulation with a serrated knife.

Technical Services Available

For Canadian Thermafiber® Technical inquiries, please contact our technical team at Thermafiber.ca.



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