



# 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 Containment System
- Steel Stud-Framed/Gypsum Sheathing Perimeter Fire Containment System
- Aluminum-Framed/Glass Spandrel Perimeter Fire Containment System
- Aluminum-Framed/Granite Spandrel Perimeter Fire Containment System
- Precast Concrete Spandrel Perimeter Fire Containment System
- Aluminum-Framed/Steel Back Pan Perimeter Fire Containment System

### Selection Criteria

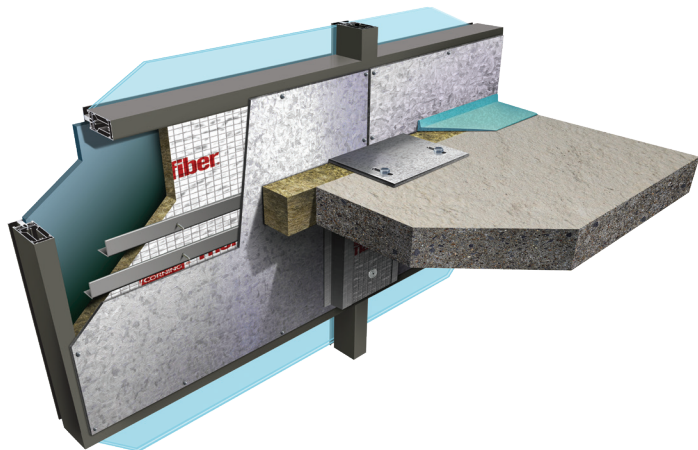
- 3rd-party independently tested for use in perimeter fire containment assemblies having 2 and 3 hour fire resistance ratings
- Non-combustible
- Moisture resistant and non-deteriorating
- Non-corrosive
- Vermin resistant
- Optional vapour retarding foil facing for use in applicable construction assemblies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

### Sustainability Criteria

- Recycled content minimum 70%, standard fiber
- Transparency Documentation Available - Health Product Declaration
- 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](http://www.thermafiber.ca/sustainability)

## Applicable Standards

<b>CAN/ULC-S702</b>	Standard for Mineral Fibre Thermal Insulation for Buildings
<b>ASTM C665</b>	Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
<b>ASTM C612</b>	Standard Specification for Mineral Fiber Block and Board Thermal Insulation
<b>ASTM C518</b>	Standard Test Methods for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
<b>ASTM C356</b>	Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat
<b>CAN/ULC-S114</b>	Standard Method of Test for Determination of Non-combustibility in Building Materials
<b>ASTM E136</b>	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
<b>CAN/ULC-S129</b>	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
<b>CAN/ULC-S102</b>	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
<b>ASTM E84</b>	Standard Test Method for Surface Burning Characteristics of Building Materials
<b>ASTM E2307</b>	Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus
<b>ASTM C1104</b>	Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation
<b>ASTM E96</b>	Standard Test Methods for Water Vapor Transmission of Materials
<b>ASTM C1338</b>	Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
<b>ASTM C795</b>	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel





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## Performance Criteria

<b>Compliance</b>	Evaluation Listing No. 14060-L Type I (Unfaced), Type III (Foil Face) Type IA, IB, II, III, IVA	CCMC CAN/ULC-S702 ASTM C612
<b>Density</b>	FireSpan® 40      64 kg/m³ (4.0 lbs/ft³) FireSpan® 90      128 kg/m³ (8.0 lbs/ft³)	Nominal
<b>Thermal</b>	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
<b>Stability</b>	Linear Shrinkage <2% @ 650°C (1200°F)	ASTM C356
<b>Fire</b>	Non-Combustible Non-Combustible as defined per NFPA Standard 220 Smoulder Resistance Mean Mass Loss ≤ 0.02% Flame Spread 0; Smoke Developed 5 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
<b>Moisture</b>	Moisture Absorption < 1% by volume Water Vapour Permeance; 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
<b>Corrosion</b>	Austenitic Steel - Non-corrosive Steel, Aluminum & Copper - Non-corrosive	ASTM C795 ASTM C665

## Sizes

Product	Thickness <sup>†</sup>	Widths	Lengths
FireSpan® 40 <sup>*</sup>	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 <sup>*</sup>	25 mm (1") - 179 mm (7")		

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

<sup>\*</sup>Minimum 102 mm (4") thick FireSpan® 40 required in UL and Intertek tested assemblies

<sup>\*</sup>Minimum 50 mm (2") thick FireSpan® 90 required in UL and Intertek tested assemblies



## 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/Intertek fire resistance 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](http://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 fire resistance 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.
- Where applicable, 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 [www.thermafiber.ca/contact](http://www.thermafiber.ca/contact).



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