



# THERMAFIBER® FIRESpan® 40-EU & FIRESpan® 90-EU OEM BOARD MINERAL WOOL INSULATION

Thermafiber® FireSpan® products are designed to provide enhanced fire protection in curtain wall and perimeter fire containment systems. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, mildew-resistant, and vermin-resistant. Its natural dark color provides shadowing in dark spandrels. FireSpan® 40 & 90 EU insulations provide thermal insulation, fire containment, enhanced acoustical performance, and vapor control in many different UL listed fire containment assemblies of 1-, 2-, and 3-hour ratings.

## Features

- Exceptional performance in Perimeter Fire Containment Systems
- Provides fire containment in rated assemblies
- Fire-resistant to temperatures above 2,000°F (1,093°C)
- Helps conserve energy, reduce greenhouse gas emissions
- Enhances acoustical performance

## Standards, Codes Compliance

- ASTM C612, FireSpan® 40-EU Types IA, IB, II, III, IVA
- ASTM C612, FireSpan® 90-EU Types IA, IB, II, III, IVA

## Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Non-corrosive
Non-Combustibility	ASTM E136	Non-combustible
Non-Combustibility	CAN/ULC S114	Complies
Water Vapor Sorption	ASTM C1104	Sorption < 1% by volume
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0

## Technical Data

	NOMINAL DENSITY	TESTED TO ASTM C518			TESTED TO ASTM E84 UNFACED	
		"K" @ 75° [24°C] BTU.IN/HR. SQ FT. °F	"R" VALUE PER INCH OF THICKNESS <sup>1</sup> @ 75°F	RSI VALUE/ 25.4 MM @ 24°C	FLAME SPREAD	SMOKE DEVELOPED
FireSpan® 40-EU	72 kg/m <sup>3</sup> (4.0 pcf)	0.23	4.3	0.78 m <sup>2</sup> K/W	0	0
FireSpan® 90-EU	128 kg/m <sup>3</sup> (8.0 pcf)	0.23	4.3	0.78 m <sup>2</sup> K/W	0	0

<sup>1</sup> R = thickness divided by "k."

## Availability

	THICKNESS	WIDTHS	LENGTHS
FireSpan® 40-EU	102 mm (4") 127 mm (5")	1,200 mm (47")	1,524 mm (60")
FireSpan® 90-EU	51 mm (2") 76.2 mm (3")	1,200 mm (47")	1,524 mm (60")
Tolerances	+6.35 mm (¼") -3.17 mm (⅛")	±3.17 mm (⅛")	+19.05 mm (¾") -6.35 mm (¼")

## Installation

FireSpan® products should be mechanically attached to horizontal and vertical mullions with UL design approved insulation fasteners. Reinforce FireSpan® insulation on the outer insulation surface at the safing line. Typical reinforcement members include galvanized steel hat channels, "L" angles, and "T" bars. Thermafiber Inc.'s patented Impasse® system is designed to quickly and easily mechanically attach FireSpan® insulation to curtain wall systems.

## Product Options

- FireSpan® 40-EU 102 mm (4") and 127 mm (5") thickness are available unfaced.
- FireSpan® 90-EU 51 mm (2") and 76.2 mm (3") thickness are available unfaced.

## Perimeter Fire Containment Tests per ASTM E2307

FireSpan® is the curtain wall (spandrel) insulation for perimeter fire containment. Thermafiber, Inc. has performed decades of testing in all of the containment systems listed below.

- Aluminum Spandrel Curtain Wall Fire Containment
- Steel Stud-Framed/Gypsum Sheathing Curtain Wall Fire Containment
- Glass Spandrel Curtain Wall Fire Containment
- Granite Spandrel Curtain Wall Fire Containment
- Precast Concrete Spandrel
- Steel Back Panel Curtain Wall Fire Containment

For more complete test information, see UL® Directories. For a full listing of fire containment systems, visit [www.thermafiber.com](http://www.thermafiber.com) and click Fire Rated Assemblies.

For additional job-specific details and accessory materials necessary to complete the Perimeter Fire Containment System, please refer to UL® design listing.<sup>2</sup>

2 Underwriters Laboratories (UL) Designs, Fire Resistance Directory, UL, 333 Pfingsten Road, Northbrook, IL 60062.

See Owens Corning publication "Enclosure Solutions Perimeter Fire Containment System E2307 Curtain Wall Technical Bulletin" (Pub. No. 10020920) for more information.

## Thermafiber Insolutions®

Thermafiber Insolutions® offers industry-leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED® credit information, and product recommendations. Contact our technical services department at 1-888-834-2371 or email [ThermafiberInsolutions@owenscorning.com](mailto:ThermafiberInsolutions@owenscorning.com).

## Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at [www.owenscorning.com](http://www.owenscorning.com).

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### Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.



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