

# Thermafiber<sup>®</sup> FireSpan<sup>®</sup> 90 & FireSpan<sup>®</sup> 40 Mineral Wool Insulation



#### **Description**

Thermafiber<sup>\*</sup> FireSpan<sup>\*</sup> 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, mildewresistant and vermin-resistant. Its natural dark color provides shadowing in glass spandrels. FireSpan<sup>\*</sup> 40 & 90 insulations provide thermal insulation, fire containment, enhanced acoustical performance, and vapor control in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings.

# Standards, Codes Compliance

ASTM C 665	Type I, III (Class A, Category 1)
ASTM C 612	FireSpan® 40 Type IA, IB, II, III, IVA
ASTM C 612	FireSpan® 90 Type IA, IB, II, III, IVA
<b>ASTM E 136</b>	Non-combustible as defined per NFPA Standard 220
CAN/ULC S114	Complies
ASTM E 96	Unfaced, 50 Perms as tested
ASTM E 96	Foil Faced, 0.02 Perms as tested
ASTM C 1104	Sorption less than 1% by volume
ASTM C 356	Linear Shrinkage <2% @ 1200° F (650° C)
ASTM C 356	Flame Spread 0, Smoke Developed 0

Curtain wall products are approved by: **New York City Board of Standards & Appeals** – (under BSA 214-73-SM & accepted by MEA-209-82, Vol. II). Also, MEA-189-93-M and MEA-190-93-M.

# **Product Options**

FireSpan<sup>\*</sup> 40, 2" or greater thickness, is available with a vapor retarding foil facing.

FireSpan<sup>®</sup> 90, 1" or greater thickness, is available with a vapor retarding foil facing.

Recycled Content Options<sup>1,2</sup>:

EPA Choice Fiber (US Government Buildings)Mini	mum 75%
Standard Fiber	70%
1. Recycled content options other than standard must be specified at time of order.	

# **Technical Data**

				Te	sted to /	ASTM	E 84
		Tested to AST	M C 518	Unf	aced	Foil	Faced
	Nominal Density	"k" @ 75° [24°C] BTU.in/hr .sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
FireSpan® 40	4.0 pcf	0.23	4.3	0	0	25	0
FireSpan® 90	8.0 pcf	0.23	4.3	0	0	25	0

\*\*\*R = thickness divided by 'k'

#### Perimeter Fire Containment Tests Per ASTM E 2307

FireSpan<sup>\*</sup> insulation is the 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

For more complete test information, see UL\* and Intertek\* (formerly OPL) Directories. For a full listing of containment systems visit www.thermafiber.com and click on 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>3</sup>

<sup>a</sup> 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.

#### Installation

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

#### **Availability**

	Thickness*	Widths**	Lengths**
FireSpan® 40	2" - 7"	24", 36", 72"	48", 60", 72"
FireSpan® 90	1" - 7"	24", 36", 72"	48", 60", 72"
Tolerances	+1/4" , - 1/8"	± 1/8"	+3/4", - 1/4"

\* Thicknesses are available in  $1\!\!\!/_2$  increments. \*\* Custom sizes are available upon request.

#### **Thermafiber Insolutions**\*

Thermafiber Insolutions<sup>\*</sup> offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED<sup>\*</sup> Credit Information, and product recommendations. Contact our technical services department at 1-888-834-2371 or email ThermafiberInsolutions@owenscorning.com.



# **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
- Mold-resistant
- Enhances acoustical performance
- Natural dark color provides shadowing in glass spandrels
- Minimum 70% recycled content<sup>2</sup>
- Contributes to credits in several green building programs such as LEED<sup>®</sup> and Green Globes<sup>®</sup>

# **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.

### Notes

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

# Submittal Approvals

Job Name	
Contractor	
Date	



# Certifications and Sustainable Features

- <sup>2</sup>Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org.
- Environmental Product Declaration (EPD) has been certified by
- UL Environment. For more information visit ul.com/epd. Material Health Certificate from Cradle to Cradle Products
- Innovation Institute. For more information visit c2ccertified.org. This product receives SAFETY Act designation by the U.S.
- department of Homeland Security. For more information visit safetyact.gov.



Thermafiber\* FireSpan\* mineral wool insulation provides the critical components of the perimeter fire containment system in the Trump International Hotel and Tower in Chicago, IL.







# Disclaimer of Liability

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THERMAFIBER, INC. ONE OWENS CORNING PARKWAY TOLEDO, OHIO, USA 43659

#### 888-TFIBER1 [834-2371] www.thermafiber.com

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