


Curtain Wall Insulation FireSpan®90 & FireSpan®40

- + Exceptional performance in Perimeter Fire Containment Systems
- + Provides life saving fire protection in rated assemblies
- + Fire resistant to temperatures above 2,000°F (1,093°C)
- + Conserves energy, reduces Greenhouse gasses and carbon emissions
- + Highest available recycle content curtain wall insulation.
- + Mold resistant
- + Controls noise and sound

 Up to 90% Recycled Content	LEED® Green Building Credits			
	Energy & Atmosphere	Materials & Resources	Indoor Environmental Quality	Innovation in Design
	1	2.1, 2.2 3.1, 3.2 4.1, 4.2 5.1, 5.2	3.1, 3.2 9	1

Contributes to 33 LEED credits across 4 categories.

Thermafiber®
 THE NAME IN MINERAL WOOL™



Thermafiber insulation provides the critical components of the perimeter fire containment system in the Trump International Hotel and Tower in Chicago.



Firespan is designed for use with Thermafiber's patented, labor saving, Impasse® Curtain Wall Insulation System.

Thermafiber FireSpan® 90 & FireSpan® 40 Insulations

Description:

THERMAFIBER FireSpan products are designed to provide life saving fire protection in curtain wall and perimeter fire containment systems. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. FireSpan 40 & 90 provide thermal insulation, fire protection, acoustical and vapor control in many different fire containment assemblies of 1, 2, and 3-hr ratings.

Product Options:

- FireSpan 40, 2" or greater thickness, is available with a vapor retarding foil facing.
- FireSpan 90, 1" or greater thickness, is available with a vapor retarding foil facing.
- Both FireSpan 40 and 90 are available in dark and regular colored fibers for aesthetic purposes.
- Recycled Content Options¹:

Special "Green" Fiber	90%
Dark Fiber	84%
EPA Choice Fiber (US Government Buildings).....	75%
Standard Fiber	70%

¹Recycled content options other than standard must be specified at time of order.

Installation:

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

Standard Sizes:

	Thickness*	Widths**	Lengths**
FireSpan 40	2" - 6"	24", 36", 72"	48", 60", 72"
FireSpan 90	1" - 6"	24", 36", 72"	48", 60", 72"
Tolerances	+1/4", - 1/8"	± 1/8"	+ 3/4", - 1/4"

*Thicknesses are available in 1/2" increments. **Consult sales representative for custom size options.

Technical Data:

Product Designation	Nominal Density	Tested to ASTM C 518		Tested to ASTM E 84			
		"k" @ 75° [24°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	Unfaced		Foil Faced	
				Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
FireSpan 40	4.0 pcf	0.24	'R' = 4.2	0	0	25	0
FireSpan 90	8.0 pcf	0.24	'R' = 4.2	0	0	25	0

***R = thickness divided by 'k'

Fire-Containment Tests Per ASTM E 2307

FireSpan insulation is the insulation for perimeter fire containment. Thermafiber has performed decades of testing in all of the containment systems listed below. For more complete test information, see SA707, THERMAFIBER Life-Safety Fire Containment Systems technical catalog or UL and Intertek (formerly OPL) Directories. For a full listing of containment systems visit www.thermafiber.com and click on Fire Rated Assemblies.

- 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

Standards Compliance:

FireSpan 40 and 90 meet the following:

ASTM C 665	Type I, III (Class A, Category 1)
ASTM C 612	FireSpan 40 Type IA, IB, II
ASTM C 612	FireSpan 90 Type IA, IB, II, III
ASTM E 136	Rated Non-combustible per NFPA Standard 220
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)
ICC ES Report	ER-2331

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.

Thermafiber Insolutions:™

Thermafiber 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 technicalservices@thermafiber.com.

For Further Information:

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website www.thermafiber.com.

Notice:

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Submittal Approvals:



Job Name	
Contractor	Date

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