


Fire Containment Insulation

Thermafiber® Safing

- + 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)
- + Easy to fabricate for through penetrations and firestopping
- + Conserves energy, reduces Greenhouse gas and carbon emissions
- + Resists moisture
- + Controls noise and sound



Thermafiber Safing and FireSpan™ insulation provide the critical components of the perimeter fire containment system in the 111 South Wacker Building in Chicago, IL. Thermafiber insulation also contributed to the building's LEED® Gold Rating.



LEED® Green Building Credits

Energy & Atmosphere	Recycle Content	Regional Materials	Innovation & Design Process
1	4.1 4.2	5.1 5.2	1.1 1.2 1.3 1.4

Earn up to 20 LEED® credits across 4 categories.

Up to **72%** Recycle Content



Thermafiber Safing is compression fitted between FireSpan insulation and the concrete slab edge to create a perimeter fire containment system.



Thermafiber® Safing

Description:

THERMAFIBER Safing products are designed to provide life saving fire protection in perimeter fire containment systems, floor and wall penetrations, construction joints, and other firestopping applications. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. Thermafiber Safing provides thermal insulation, fire protection, and acoustical control in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings.

Product Options:

- Safing 4.0 pcf, 2" or greater thickness, is available with or without a vapor retarding foil facing.
- Safing 6.0 pcf, 1.5" or greater thickness, is available with or without a vapor retarding foil facing.

Installation:

All firestopping insulation should be installed per the architectural specification or system specific test description. All compressed Safing insulation should be installed per the listed assembly.

- Perimeter Installation: Safing insulation should be compression fitted between the slab edge and the FireSpan curtain wall insulation, leaving no voids.
- Penetration Application: Safing insulation should be cut slightly larger than the opening and compression fitted into the opening, leaving no voids.
- Construction Joint Application: Safing insulation should be compression fitted into the joint opening, leaving no voids.

Standard Sizes:

	Thickness*	Widths	Lengths
Safing 4.0 pcf	1" - 6"	16", 24", 36"	48", 60"
Safing 6.0 pcf	1" - 6"	16", 24", 36"	48", 60"
Tolerances	+1/4" - 1/8"	±1/8"	±1/2"

*Thicknesses are available in 1/2" increments. Custom sizes are available upon request.

Technical Data:

Product Designation	Actual 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
Safing	4.0 pcf	0.24	'R' = 4.2	0	0	25	0
Safing	6.0 pcf	0.24	'R' = 4.2	0	0	25	0

**R = thickness divided by 'k'

Fire-Containment Tests Per ASTM E 2307

Safing insulation is a critical component of any perimeter fire containment system. 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. UL Reference = TYPE SAF

- 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:

Safing Insulation meets the following:

- ASTM C 665** Non-corrosive, Type I, III
- ASTM C 612** Type IA, IB, II
- 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** Absorbs less than 1% by volume

Safing products are approved by: **New York City Board of Standards & Appeals** – (under BSA 39-74-SM & accepted by MEA-209-82-M, Vol. 4).

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 x-295, 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

