



Thermafiber® Safing Fire Containment Insulation

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.

- 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 emissions
- Resists moisture
- Controls noise and sound

LEED® v2009 Green Building Credits

Minimum 70% Recycled Content	Energy and Atmosphere	Materials and Resources	Indoor Environmental Quality	Innovation in Design
	1	2.1, 2.2 3.1, 3.2 4.1, 4.2 5.1, 5.2	9	1

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.
- Recycled Content Options:
Standard Fiber (Complies with EPA Preference Program).....Minimum 75%

Installation

All firestopping insulation should be installed per the architectural wall section CC-SS-12 and the technical bulletin regarding perimeter fire containment joint design (ASTM E2307) at www.CavityComplete.com.

- 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" - 7"	16", 24", 36"	48", 60"
Safing 6.0 pcf	1" - 7"	16", 24", 36"	48", 60"
Tolerances	+1/4", - 1/8"	± 1/8"	± 1/2"

*Thicknesses are available in 1/2 in. increments.

**Custom sizes are available upon request.



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.



Thermafiber® Safing is compression fitted between exterior masonry and the exterior gypsum sheathing, or, the concrete slab edge to create a perimeter fire containment system.

Technical Data

Product Designation	Actual Density	Tested to ASTM E 84					
		Tested to ASTM C 518		Unfaced		Foil Faced	
		"k" @ 75° [24°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	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 following containment systems:

- 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 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

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
ASTM E 814 or UL 1479	Safing Insulation used in conjunction with an approved fill, void, or cavity material sealant or other approved material in through – penetration firestop systems.
UL 2079	Safing Insulation used in conjunction with an approved fill, void or cavity material in construction joint systems

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).

The CavityComplete[®] Wall System excludes the masonry veneer, steel studs and interior and exterior gypsum board. A detailed list of the components is available at www.CavityComplete.com.

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, product recommendations, and customized products.

For Further Information

For additional information about Thermafiber[®] Safing Insulation contact us at 844-CAV-COMP or visit www.CavityComplete.com.

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