



Thermafiber® Safing Mineral Wool Insulation



Description

Thermafiber® Safing insulation products are designed to provide fire protection in perimeter fire containment systems, floor and wall penetrations, construction joints, and other firestopping applications. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, mildew-proof and vermin-proof. Thermafiber® Safing provides thermal insulation, fire containment, and enhanced acoustical performance 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	Non-corrosive, Type I, III
ASTM C 612	Type IA, IB, II
ASTM E 136	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	Absorbs less than 1% by volume
CAN/ULC S102	Flame Spread 0, Smoke Developed 0, unfaced
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 Complies
UL 2079	Safing Insulation used in conjunction with an approved fill, void or cavity material in construction joint systems Complies
CAN/ULC S115	Complies

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).

Product Options

Safing 4.0, 2" or greater thickness, is available with a vapor retarding foil facing.

Safing 6.0, 1.5" or greater thickness, is available with a vapor retarding foil facing.

Recycled Content Options^{1,2}:

EPA Choice Fiber (US Government Buildings)	Minimum 75%
Standard Fiber	70%

1. Recycled content verified by ICC-ES.

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

Technical Data

Actual Density	Tested to ASTM C 518		Tested to ASTM E 84 Unfaced			
	"k" @ 75° [24°C] BTU.in/hr. sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
4.0 pcf	0.23	4.3	0	0	25	0
6.0 pcf	0.23	4.3	0	0	25	0

***R = thickness divided by 'k'

Perimeter Fire Containment Tests Per ASTM E 2307

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

For additional job specific details and accessory materials necessary to complete the Perimeter Fire Containment System, please refer to UL® design listing.¹

¹ Underwriters Laboratories (UL) Designs, Fire Resistance Directory, UL, 333 Pflugsten 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

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.

Availability

	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" increments. **Custom sizes are available upon request.

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.

For Further Information

For additional information about these or other Thermafiber® products, contact your local sales representative or visit our website www.thermafiber.com.

For additional information on green building programs visit www.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 content¹
- Contributes to credits in several green building programs such as LEED® and Green Globes®

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 _____



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



Thermafiber®

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