



THERMAFIBER® FIRELEDGE® MINERAL WOOL INSULATION



Description

Thermafiber® FireEdge® mineral wool insulation is an integral component of the patented Thermafiber® Impasse® No Backer Bar™ Perimeter Fire Containment System. This design incorporates years of research and testing to completely eliminate the backer bar from the curtain wall assembly. Eliminating the backer bar from the spandrel area allows for thicker FireSpan® 90 insulation to be installed. The thicker insulation increases the overall R-value of the building envelope and adds reinforcement at the safing line at the interior joint. Thermafiber® FireEdge® allows for the elimination of the backer bar and saves time and money by reducing the amount of materials and labor needed to install the spandrel insulation.

Features

- Component of the patented Thermafiber® Impasse® No Backer Bar™ System
- Eliminates the need for a backer bar
- Fire-resistant to temperatures above 2,000°F (1,093°C) when tested per ASTM E2307
- Fire resistance rating up to 3 hours with UL® CW-D-1012
- Quick and easy to field-fabricate and install
- UL® approved and listed
- Minimum 70% recycled content¹
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Non-corrosive, Types I, III (Class A, Category 1)
Non-Combustibility	ASTM E136	Complies
Non-Combustibility	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	Unfaced, 50 perms as tested Foil-Faced, 0.02 perms as tested
Water Vapor Sorption	ASTM C1104	Sorption less than 1% by volume
Linear Shrinkage	ASTM C356	<2% @ 1,200°F (650°C)
Surface Burning Characteristics	ASTM E84	Unfaced, Flame Spread 0, Smoke Developed 0 Foil-Faced, Flame Spread 25, 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.

Perimeter Fire Containment Systems

UL® APPROVED DESIGNS PER ASTM E2307

CW-D-1012

CW-D-1013

For more complete test information, see UL® directory. For a full listing of Perimeter Fire Containment Systems, visit www.thermafiber.com.

For additional job-specific details and accessory materials necessary to complete the Perimeter Fire Containment System, please refer to UL® design listing.²

See Owens Corning publication “Thermafiber® Impasse® No Backer Bar™ System Data Sheet” (Pub. No. 10021134) for more information.

See Owens Corning publication “Thermafiber® Perimeter Fire Containment System Guide” (Pub. No. 10022722) for more information.

2 UL Fire Rated Designs, UL 333 Pfingsten Road, Northbrook, IL 60062.

Product Options

Thermafiber® FireEdge®³ is now available for field-fabrication. See Owens Corning publication “Thermafiber® FireEdge® Fabrication and Installation Instructions” (Pub. No. 10025143) for detailed instructions.

PRODUCT	FACING	THICKNESS	WIDTHS	LENGTHS
FireEdge® Fabrication Board	Foil	2"	12"	48"

Recycled Content Options^{1,4}:

- EPA Choice Fiber (U.S. Government Buildings).....Minimum 75%
- Standard Fiber.....70%

Formaldehyde-free product available.

3 Thermafiber® FireEdge® is FireSpan® 90 designed for field fabrication.

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

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.

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.

Certifications and Sustainable Features

- ¹Verified 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.



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Green Globes® is a registered trademark of Green Building Initiative, Inc.

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Notes

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

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