



Thermafiber® RainBarrier® 45 Mineral Wool Insulation



Description

Thermafiber® RainBarrier® Continuous Insulation products are designed for exceptional performance in rain screen and cavity wall construction applications. Thermafiber® RainBarrier® 45 insulation provides thermal insulation, fire resistive characteristics, and acoustical control while efficiently draining water from a wall cavity system. Its natural, dark color provides camouflaging in open joint facades and eliminates the need for black facing. Thermafiber, Inc. does not recommend applying a black facing in open joint applications because the manufacturers of the facing do not support their long term exposure. All Thermafiber® RainBarrier® products are non-combustible and compatible with common wall ties, adhesives, and air barrier systems.

Standards, Codes Compliance

ASTM C 665	Non-corrosive, Type I (unfaced material)
ASTM C 795	Pass
ASTM C 612	RainBarrier® 45 Type IA, IB, IVA
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 84	Flame Spread 0, Smoke Developed 0
CAN/ULC S 102	Flame Spread 0, Smoke Developed 5
ASTM C 1104	Absorbs 0.03% by volume
ASTM C 356	Linear Shrinkage <2% 1200° F (650° C)

Product Options

Recycled Content Option^{1,2}:

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

1. 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
4.5 pcf	0.23	4.3	0	0

***R = thickness divided by 'k'

Acoustical Performance

Thickness	Coefficients at Frequencies Per ASTM C 423						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1½"	0.22	0.44	0.96	1.06	1.05	1.05	0.90
2"	0.30	0.69	1.08	1.01	1.00	1.03	0.95
3"	0.70	1.07	1.24	1.13	1.07	1.08	1.15
4"	1.03	1.25	1.20	1.05	1.05	1.08	1.15

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® insulation products.

See Owens Corning publication "Thermafiber® RainBarrier® Insulation Installation Guide" (Pub. No. 10021141) for more information.

Availability

Thickness*	Widths**	Lengths**
1" - 7"	16", 24", 36"	48", 60"

* Thicknesses are available in ½" 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.

Features

- Non-combustible, non-deteriorating, and inorganic
- Repels and efficiently drains water
- Highly UV resistant
- Helps conserve energy, reduce greenhouse gas emissions
- Fire resistant to temperatures above 2,000° F (1,093° C)
- Enhances acoustical performance
- Natural dark color provides camouflaging in open joint façades
- Minimum 70% recycled content²
- 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® RainBarrier® 45 continuous insulation (ci) was installed on the University of Washington Bothell, Discovery Hall in Bothell, WA.



Made in the USA

Certifications and Sustainable Features

- ²Verified 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.
- Material Health Certificate from Cradle to Cradle Products Innovation Institute. For more information visit c2ccertified.org.



Thermafiber

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