



# 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. All Thermafiber® RainBarrier® products are non-combustible and compatible with common wall ties, adhesives, and air barrier systems.

## Standards, Codes Compliance

<b>ASTM C 665</b>	Non-corrosive, Type I (unfaced material)
<b>ASTM C 795</b>	Pass
<b>ASTM C 612</b>	RainBarrier® 45 Type IA, IB, IVA
<b>ASTM E 136</b>	Non-combustible as defined per NFPA Standard 220
<b>CAN/ULC S114</b>	Complies
<b>ASTM E 96</b>	Unfaced, 50 Perms as tested
<b>ASTM E 84</b>	Flame Spread 0, Smoke Developed 0
<b>CAN/ULC S 102</b>	Flame Spread 0, Smoke Developed 5
<b>ASTM C 1104</b>	Absorbs 0.03% by volume
<b>ASTM C 356</b>	Linear Shrinkage <2% 1200° F (650° C)

## Product Options

Recycled Content Option<sup>1,2</sup>:

- 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](mailto: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
- Minimum 70% recycled content<sup>2</sup>
- 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](http://www.owenscorning.com).

## Notes

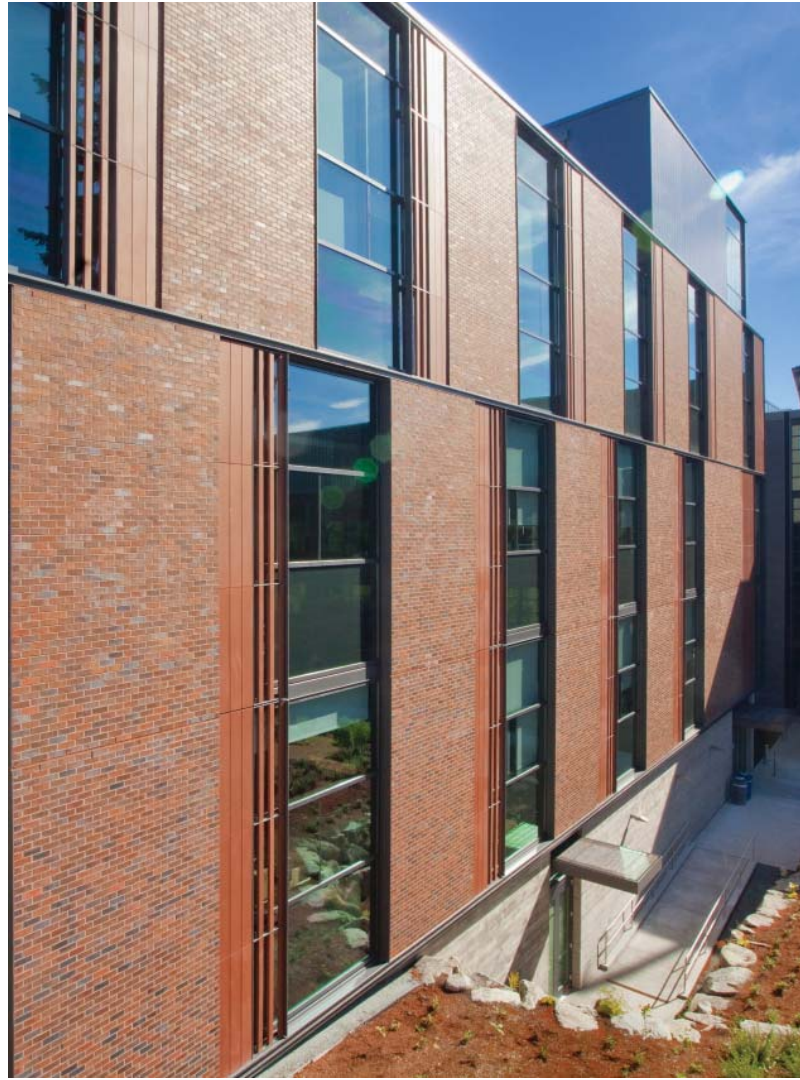
For additional information refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

## 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

- <sup>2</sup>Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at [icc-es.org](http://icc-es.org).
- Environmental Product Declaration (EPD) has been certified by UL Environment. For more information visit [ul.com/epd](http://ul.com/epd).
- Material Health Certificate from Cradle to Cradle Products Innovation Institute. For more information visit [c2ccertified.org](http://c2ccertified.org).



# Thermafiber

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

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Pub. No. 10021139-D formerly TF521. Printed in U.S.A. June 2017.  
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