



# 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 containment, 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

<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 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
4.5 pcf	0.23	4.3	0	0

## 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).

## For Further Information

For additional information about these or other Thermafiber® products, contact your local sales representative or visit our website [www.thermafiber.com](http://www.thermafiber.com).

For additional information on green building programs visit [www.owenscorning.com](http://www.owenscorning.com).

MASONPRO, Inc.  
43300 Seven Mile Road  
Northville, MI 48167  
1-800-659-4731  
[www.masonpro.com](http://www.masonpro.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 content<sup>1</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



# Thermafiber

**THERMAFIBER, INC.**  
ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO, USA 43659

**888-TFIBER1 [834-2371]**  
[www.thermafiber.com](http://www.thermafiber.com)

Pub. No. 10021139-A formerly TF521. Printed in U.S.A. August 2016.  
THE PINK PANTHER™ & © 1964–2016 Metro-Goldwyn-Mayer Studios Inc.  
All Rights Reserved. The color PINK is a registered trademark of Owens Corning.  
© 2016 Owens Corning. All Rights Reserved. © 2016 Thermafiber, Inc.  
All Rights Reserved.



## Disclaimer of Liability

Thermafiber, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Thermafiber, Inc. liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

LEED® is a registered trademark of the U.S. Green Building Council.  
Green Globes® is a registered trademark of Green Building Initiative, Inc.