

# 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</b> 665	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
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
<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 Cho	ice Fiber		
(US Gove	ernment Buildings)	Minimum	75%
Standard	l Fiber		70%

<sup>1.</sup> Recycled content options other than standard must be specified at time of order.

#### **Technical Data**

	Tested to AS		to ASTM E 84 Unfaced	
Actual Density	"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

<sup>\*\*\*</sup>R = thickness divided by 'k'

## **Acoustical Performance**

Coefficients at Frequencies Per ASTM C 423							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
11/2"	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"

<sup>\*</sup> Thicknesses are available in 1/2" increments.

## Thermafiber Insolutions<sup>®</sup>

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.



<sup>\*\*</sup> Custom sizes are available upon request.

#### **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**

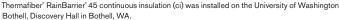
Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.owenscorning.com.

#### **Notes**

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

## **Submittal Approvals**







## **Certifications and Sustainable Features**

- Verified 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.









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