



## Owens Corning® 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. Owens Corning 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<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

Owens Corning 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 1/2" increments.

\*\* Custom sizes are available upon request.



## For Further Information

For additional information about Thermafiber<sup>®</sup> RainBarrier Insulation contact us at 844-CAV-COMP or visit [www.CavityComplete.com](http://www.CavityComplete.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>2</sup>
- Contributes to credits in several green building programs such as LEED<sup>®</sup> and Green Globes<sup>®</sup>

## 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>.



## 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).