



# Thermafiber® RainBarrier® 45

## Mineral Wool Continuous Insulation

### PRODUCT FEATURES

#### Description

Mineral wool semi-rigid continuous insulation with fire resistive, acoustic, and moisture resistive properties.

#### Basic Uses/Related Uses

Continuous insulation for use on exterior above grade rainscreen and cavity wall construction applications. Suitable for use with common z-girt, wall-tie, and clip cladding attachment solutions with open or closed joint facades.

#### Selection Criteria

- 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 1,093° C (2,000° F)
- Enhances acoustical performance
- Compatible with common wall ties, clip systems, and air/moisture barriers

#### Sustainability Criteria

- Recycled content minimum 70%, standard fiber
- Transparency Documentation Available - Health Product Declaration
- Contributes to credits in several green building programs such as LEED® and Green Globes®
- For more information see Environmental Product Declaration (EPD) certified by UL Environment via [www.thermafiber.ca/sustainability](http://www.thermafiber.ca/sustainability)

#### Applicable Standards

<b>CAN/ULC-S702</b>	Standard for Mineral Fibre Thermal Insulation for Buildings
<b>ASTM C665</b>	Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
<b>ASTM C612</b>	Standard Specification for Mineral Fiber Block and Board Thermal Insulation
<b>ASTM C518</b>	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
<b>CAN/ULC-S114</b>	Standard Method of Test for Determination of Non-combustibility in Building Materials
<b>ASTM E136</b>	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
<b>CAN/ULC-S129</b>	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
<b>CAN/ULC-S102</b>	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
<b>ASTM E84</b>	Standard Test Method for Surface Burning Characteristics of Building Materials
<b>ASTM C1104</b>	Standard Test Method for Determining the Water Sorption of Unfaced Mineral Fiber Insulation
<b>ASTM E96</b>	Standard Test Methods for Water Vapor Transmission of Materials
<b>ASTM C1338</b>	Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
<b>ASTM C795</b>	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel
<b>ASTM C423</b>	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

#### Performance Criteria

<b>Compliance</b>	Evaluation Listing No. 14060-L Type I Type IA, IB, IVA	CCMC CAN/ULC-S702 ASTM C612																																								
<b>Density</b>	72 kg/m <sup>3</sup> (4.5 lbs/ft <sup>3</sup> )	Actual																																								
<b>Thermal</b>	RSI value/25.4 mm @ 24 °C    0.74 m <sup>2</sup> *K/W R-value/inch @ 75 °F        4.2 hr*ft <sup>2</sup> *°F/Btu	ASTM C518																																								
<b>Fire</b>	Non-Combustible Non-Combustible as defined per NFPA Standard 220 Smoulder Resistance Mean Mass Loss ≤ 0.02% Flame Spread 0; Smoke Developed 5 Flame Spread 0; Smoke Developed 0	CAN/ULC-S114 ASTM E136 CAN/ULC-S129 CAN/ULC-S102 ASTM E84																																								
<b>Moisture</b>	Moisture Absorption 0.03% by volume Water Vapour Permeance 2850 ng/Pa.s.m <sup>2</sup> (50 perms) Fungi Resistance - Pass	ASTM C1104 ASTM E96 ASTM C1338																																								
<b>Corrosion</b>	Austenitic Steel - Non-corrosive Steel, Aluminum & Copper - Non-corrosive	ASTM C795 ASTM C665																																								
<b>Acoustic</b>	<table border="1"> <tr> <th>Thickness</th> <th>125 Hz</th> <th>250 Hz</th> <th>500 Hz</th> <th>1000 Hz</th> <th>2000 Hz</th> <th>4000 Hz</th> <th>NRC</th> </tr> <tr> <td>38 mm (1½")</td> <td>0.22</td> <td>0.44</td> <td>0.96</td> <td>1.06</td> <td>1.05</td> <td>1.05</td> <td>0.90</td> </tr> <tr> <td>51 mm (2")</td> <td>0.30</td> <td>0.69</td> <td>1.08</td> <td>1.01</td> <td>1.00</td> <td>1.03</td> <td>0.95</td> </tr> <tr> <td>76 mm (3")</td> <td>0.70</td> <td>1.07</td> <td>1.24</td> <td>1.13</td> <td>1.07</td> <td>1.08</td> <td>1.15</td> </tr> <tr> <td>102 mm (4")</td> <td>1.03</td> <td>1.25</td> <td>1.20</td> <td>1.05</td> <td>1.05</td> <td>1.08</td> <td>1.15</td> </tr> </table>	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC	38 mm (1½")	0.22	0.44	0.96	1.06	1.05	1.05	0.90	51 mm (2")	0.30	0.69	1.08	1.01	1.00	1.03	0.95	76 mm (3")	0.70	1.07	1.24	1.13	1.07	1.08	1.15	102 mm (4")	1.03	1.25	1.20	1.05	1.05	1.08	1.15	ASTM C423
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#### Sizes

Thickness <sup>†</sup>	Widths	Lengths
25 mm (1") - 178 mm (7")	406 mm (16") 610 mm (24") 914 mm (36")	1219 mm (48") 1524 mm (60")

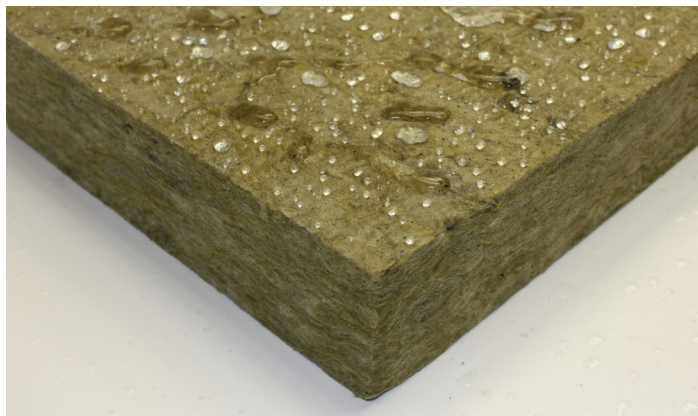
<sup>†</sup>Available in 12.7 mm (1/2") increments





# Thermafiber® RainBarrier® 45

## Mineral Wool Continuous Insulation



### Quality Statement, Tests, Certifications, and Approvals

Recycled content verified by ICC-ES.

### Delivery and Storage

Deliver products in their original packages, and store in enclosed shelter.

### Limitations

If insulation is going to be left exposed for long durations prior to cladding installation, with extended exposure to the elements, consider installing higher density Thermafiber® RainBarrier® HD Continuous Insulation. Packaging is not UV resistant. Shelter unused packages from the elements.

### Safety

Contact with mineral wool may cause temporary eye and skin irritation. Wear eye protection and long-sleeved loose fitting clothing closed at the neck and wrists. For additional information refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

### Availability/Cost

Contact Owens Corning local Area Sales Manager. See ASM territory map via [www.thermafiber.ca/contact](http://www.thermafiber.ca/contact).

### PRODUCT PROPERTIES

#### Materials

Mineral wool, Type I (to CAN/ULC-S702), non-combustible (to CAN/ULC-S114), non-corrosive (to ASTM C665).

### PRODUCT PLACEMENT

#### Installation

- For installation information, please see “Thermafiber® RainBarrier® Insulation Guide - Canada” (Pub. No. 600060).
- For easy cutting use a serrated knife or contact Owens Corning for recommendations.

### Technical Services Available

For Canadian Thermafiber® Technical inquiries, please contact our technical team at [www.thermafiber.ca/contact](http://www.thermafiber.ca/contact).



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