



Thermafiber® RainBarrier® HD

Mineral Wool Continuous Insulation

PRODUCT FEATURES

Description

Mineral wool High Density continuous insulation board with fire resistive, acoustic, and moisture resistive properties.

Basic Uses/Related Uses

High Density continuous insulation board 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. RainBarrier® HD is recommended for applications that will experience extended element exposure periods prior to cladding being installed.

Selection Criteria

- High Density semi-rigid board
- Increased durability versus lower density semi-rigid board
- Non-combustible, non-deteriorating, and inorganic

Applicable Standards

CAN/ULC-S702	Standard for Mineral Fibre Thermal Insulation for Buildings
ASTM C665	Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
ASTM C612	Standard Specification for Mineral Fiber Block and Board Thermal Insulation
ASTM C518	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C356	Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat
CAN/ULC-S114	Standard Method of Test for Determination of Non-combustibility in Building Materials
ASTM E136	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
CAN/ULC-S129	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
CAN/ULC-S102	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM C1104	Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials
ASTM C1338	Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
ASTM C795	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel
ASTM C423	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

- 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

Performance Criteria

Compliance	Evaluation Listing No. 14060-L Type I Type IA, IB, II, III, IVA	CCMC CAN/ULC-S702 ASTM C612																																
Density	96 kg/m ³ (6.0 lbs/ft ³)	Actual																																
Thermal	RSI value/25.4 mm @ 24 °C 0.74 m ² *K/W R-value/inch @ 75 °F 4.2 hr*ft ² *F/Btu	ASTM C518																																
Stability	Linear Shrinkage <2% @ 650°C (1200°F)	ASTM C356																																
Fire	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																																
Moisture	Moisture Absorption 0.03% by volume Water Vapour Permeance 2850 ng/Pa*s*m ² (50 perm) Fungi Resistance - Pass	ASTM C1104 ASTM E96 ASTM C1338																																
Corrosion	Austenitic Steel - Non-corrosive Steel, Aluminum & Copper - Non-corrosive	ASTM C795 ASTM C665																																
Acoustic	<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 Hz</th> </tr> <tr> <td>51 mm (2")</td> <td>0.36</td> <td>0.79</td> <td>1.15</td> <td>1.04</td> <td>1.01</td> <td>1.04</td> <td>1.00</td> </tr> <tr> <td>102 mm (4")</td> <td>1.15</td> <td>1.17</td> <td>1.18</td> <td>1.03</td> <td>1.06</td> <td>1.08</td> <td>1.10</td> </tr> <tr> <td>152 mm (6")</td> <td>1.18</td> <td>1.01</td> <td>1.11</td> <td>1.03</td> <td>1.06</td> <td>1.10</td> <td>1.05</td> </tr> </table>	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC Hz	51 mm (2")	0.36	0.79	1.15	1.04	1.01	1.04	1.00	102 mm (4")	1.15	1.17	1.18	1.03	1.06	1.08	1.10	152 mm (6")	1.18	1.01	1.11	1.03	1.06	1.10	1.05	ASTM C423
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Sizes

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

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





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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.

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

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.



PRODUCT PROPERTIES

Materials

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

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