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

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
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 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

Performance Criteria

Compliance	Evaluation Listing No. 14060-L								CCMC
	Type I								CAN/ULC-S702
	Type IA, IB, IVA								ASTM C612
Density	72 kg/m³ (4.5 lbs/ft³)								Actual
Thermal	RSI value/25.4 mm @ 24 °C 0.74 m²•K/W R-value/inch @ 75 °F 4.2 hr•ft²•°F/Btu								ASTM C518
Fire	Non-Combustible								CAN/ULC-S114
	Non-Combustible as defined per NFPA Standard 220								ASTM E136
	Smoulder Resistance Mean Mass Loss ≤ 0.02%								CAN/ULC-S129
	Flame Spread 0; Smoke Developed 5								CAN/ULC-S102
	Flame Spread 0; Smoke Developed 0								ASTM E84
Moisture	Moisture Absorption 0.03% by volume								ASTM C1104
	Water Vapour Permeance 2850 ng/Pa.s.m² (50 Perms)								ASTM E96
	Fungi Resistance - Pass								ASTM C1338
Corrosion	Austenitic Steel - Non-corrosive								ASTM C795
	Steel, Aluminum & Copper - Non-corrosive								ASTM C665
Acoustic	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC Hz	ASTM C423
	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	

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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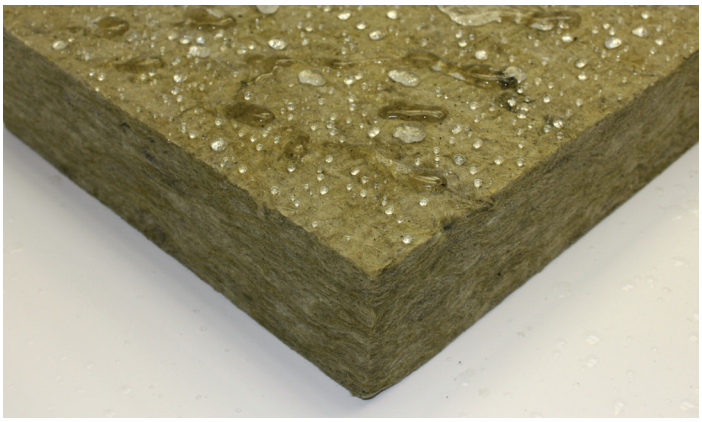

Quality Statement, Tests, Certifications, and Approvals
Recycled content verified by ICC-ES.

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.

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.

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Disclaimer of Liability

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