



THERMAFIBER® RAINBARRIER® 45 MINERAL WOOL INSULATION

Thermafiber® RainBarrier® 45 continuous insulation semi-rigid products are designed for exceptional performance in rain screen and cavity wall construction applications. Thermafiber® RainBarrier® 45 insulation provides thermal control, fire-resistive characteristics, acoustical control, vapour permeance, and the ability to drain water from a wall cavity system. All Thermafiber® RainBarrier® products are non-combustible and compatible with common wall ties, adhesives, and air barrier systems.



RainBarrier® 45 is now available with a black veil that provides camouflaging in open-joint facade and rainscreen construction. See Owens Corning publication “Thermafiber® RainBarrier® Dark™ Product Data Sheet” (Pub. No. 600092) for more information.

Features

- Non-combustible, nondeteriorating, and inorganic
- Repels and drains water
- UV-resistant
- Helps conserve energy and reduce greenhouse gas emissions
- Fire-resistant to temperatures above 1,093°C (2,000°F)
- Enhances acoustical performance
- Minimum 70% recycled content¹
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

Standards, Codes Compliance

- CAN/ULC-S702, Standard for Mineral Fibre Thermal Insulation for Buildings, Type 1
- ASTM C612, Mineral Fibre Block and Board Thermal Insulation, Types IA, IB, IVA, IVB

Technical Data

TESTED TO ASTM C518

Actual Density	RSI /25.4 mm @ 24 °C·m²·K/W	R-value/inch @ 75°F hr·ft²·°F/Btu
72 kg/m³ (4.5 lbs/ft³)	0.74	4.2

Performance Criteria

COMPLIANCE	CCMC Evaluation Listing No. 14060-L Type 1	CCMC CAN/ULC-S702

Additional Performance Information

PROPERTY	VALUE	TEST METHOD
Corrosion of Steel, Aluminum, and Copper	Pass	ASTM C665
Stress Corrosion – Austenitic Stainless Steel	Pass	ASTM C795
Non-Combustibility	Complies	CAN/ULC-S114
	Non-combustible	ASTM E136
Water Vapour Permeance	Unfaced, 2,850 ng/Pa.s.m² (50 perms) as tested	ASTM E96
Water Vapour Sorption	Absorbs 0.03% by volume	ASTM C1104
Linear Shrinkage	<2% @ 650°C (1,200°F)	ASTM C356
Surface Burning Characteristics	Flame Spread 0, Smoke Developed 5	CAN/ULC-S102
	Flame Spread 0, Smoke Developed 0	ASTM E84
Smoulder Resistance - Mean Mass Loss	≤ 0.02%	CAN/ULC-S129
Fungi Resistance	Complies	ASTM C1338

Acoustical Performance

THICKNESS	COEFFICIENTS AT FREQUENCIES PER ASTM C423						
	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
38 mm (1.5")	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

Availability⁴

THICKNESS ²	WIDTHS ³	LENGTHS ³
25 mm (1") - 178 mm (7")	406 mm (16") 610 mm (24") 914 mm (36")	1219 mm (48") 1524 mm (60")

² Thicknesses are available in 12.7 mm (1/2") increments.

³ Custom sizes are available upon request.

⁴ Available with black veil upon request.

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® insulation products. See Owens Corning publication "Canadian Thermafiber® RainBarrier® Insulation Guide" (Pub. No. 600060) for more information.

Technical Services Available

For Canadian Thermafiber® Technical inquiries, please contact our technical team at www.thermafiber.ca/contact.

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.

Certifications and Sustainable Features

- ¹Verified 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.
- Health Product Declaration (HPD).
- Living Building Challenge Compliant and Red List Approved



Declare.

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Green Globes® is a registered trademark of Green Building Initiative, Inc.

Notes

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



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