

MasterFormat 07 21 13.19 – Mineral Board Insulation

THERMAFIBER® RAINBARRIER® DARK™ MINERAL WOOL INSULATION

Owens Corning® Thermafiber® RainBarrier® Dark™* continuous insulation semi-rigid products are produced with a bonded black facing that is designed for exceptional performance in rainscreen and cavity wall construction applications. Thermafiber® RainBarrier® Dark™ is the same continuous insulation you have come to know and trust from Owens Corning® Thermafiber® but offers camouflaging behind open-joint facade systems and eliminates the material and installation costs associated with an additional masking layer. Thermafiber® RainBarrier® Dark™ insulation provides thermal control, fire-resistive characteristics, acoustical control, and the ability to drain water from a wall cavity. All Thermafiber® RainBarrier® products are non-combustible, vapour permeable, and are easy to fabricate and install.

*Latest RainBarrier® products combine the benefits of RainBarrier® 45 and RainBarrier® HD as of April 2024.

Features

- Black facing provides camouflaging behind open-joint façade systems
- Mold-resistant, non-deteriorating, and inorganic as tested to ASTM C1338
- Repels and drains water
- UV-resistant
- Helps conserve energy and reduce greenhouse gas emissions
- Saves time and money by eliminating secondary veils and other camouflaging methods
- Factory-applied veil gives installers flexibility without rigidity
- Mineral wool is non-combustible as tested to CAN/ULC-S114
- Mineral wool board product contains a minimum of 70% recycled content[1]
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

Standards, Codes Compliance

- CAN/ULC-S702.1, Standard for Mineral Fibre Thermal Insulation for Buildings, Type 2
- ASTM C612, Mineral Fibre Block and Board Thermal Insulation, Types IA, IB, II, III, IVA, IVB

Technical Data

	TESTED TO ASTM C518	
NOMINAL DENSITY	**RSI /25.4 MM @ 24 °C M²•K/W**	**R-VALUE/INCH @ 75 °F HR•FT²•°F/BTU**
96 kg/m³ (6.0 pcf)	0.74	4.2

Performance Criteria

COMPLIANCE	CCMC Evaluation Listing No. 14060-L Type 2	CCMC CAN/ULC-S702.1

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	1432 ng/Pa.s.m² - 2850 ng/Pa.s.m² (25 perm - 50 perm)	ASTM E96
Water Vapour Sorption	Absorbs 0.06% by volume	ASTM C1104
Linear Shrinkage	<2% @ 650°C (1,200°F)	ASTM C356
Surface Burning Characteristics	Flame Spread 20, Smoke Developed 5	CAN/ULC-S102
	Flame Spread 20, Smoke Developed 15	ASTM E84
Smoulder Resistance - Mean Mass Loss	Pass (≤ 2%)	CAN/ULC-S129
Fungi Resistance	Complies	ASTM C1338
UV Testing	Complies; acceptable change in black colour after UV exposure	ICC-ES AC38 Section 4.1.2 UV Exposure with ASTM D224 Color Evaluation

Acoustical Performance

COEFFICIENTS AT FREQUENCIES PER ASTM C423

THICKNESS	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
51 mm (2")	0.36	0.79	1.15	1.04	1.01	1.04	1.00
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

Availability

THICKNESS[3]	STANDARD DIMENSIONS[4]
51 mm - 203 mm (2" - 8")	406 mm x 1219 mm (16" x 48"), 610 mm x 1219 mm (24" x 48")

3 Thicknesses are available in 13 mm (½") increments.
4 Custom sizes are available upon request.

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® insulation products. See Owens Corning publication "Thermafiber® RainBarrier® Insulation Guide - Canada" (Pub. No. 600060) for more information. The types of fastener, method, and frequency are to be determined by the installer for the specificity of the project and approved by the project design team.

Certifications and Sustainable Features

- [1]Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org. Recycled Content pertains to insulation only.
- Environmental Product Declaration (EPD) has been certified by UL Environment. For more information, visit ul.com/epd.

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.ca or www.owenscorninglibrary.ca.

Technical Services Available

For Canadian Technical inquiries, please contact our technical team at www.owenscorning.ca/contacttech.

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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.

THERMAFIBER, INC.
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK®
www.owenscorning.ca/thermafiber

Current Ed: 2026-09-01
Previous Ed: 2024-05-01

Pub. No. 600092C. Printed in Canada. September 2026.
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