



THERMAFIBER® RAINBARRIER® MINERAL WOOL INSULATION



Thermafiber® RainBarrier®* continuous insulation semi-rigid products are designed for exceptional performance in rain screen and cavity wall construction applications. Thermafiber® RainBarrier® insulation provides thermal control, fire-resistive characteristics, acoustical control, vapor 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.

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



RainBarrier® 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. 10025102) for more information.

Features

- 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
- Mineral wool is non-combustible as tested to ASTM E136
- Enhances acoustical performance
- Minimum 70% recycled content¹

Standards, Codes Compliance

- ASTM C612, Mineral Fiber Block and Board Thermal Insulation, Types IA, IB, II, III, IVA, IVB

Technical Data

TESTED TO ASTM C518

Thickness	Nominal Density	"k" @ 75° [24°C] BTU.in/hr. sq. ft. °F	"R" value per inch of thickness ²
1" – 8"	6.0 pcf	0.23	4.3

2 R = thickness divided by "k."

Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Stress Corrosion — Austenitic Stainless Steel	ASTM C795	Pass
Non-Combustibility	ASTM E136	Non-combustible
Non-Combustibility	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	25-50 perm
Water Vapor Sorption	ASTM C1104	Absorbs 0.03% by volume
Linear Shrinkage	ASTM C356	<2% @ 1,200°F (650°C)
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0
Surface Burning Characteristics	CAN/ULC S102	Flame Spread 0, Smoke Developed 5
Fungi Resistance	ASTM C1338	Complies

Acoustical Performance

THICKNESS	COEFFICIENTS AT FREQUENCIES PER ASTM C423						
	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.5"	0.22	0.44	0.96	1.06	1.05	1.05	0.90
2"	0.30	0.69	1.08	1.01	1.00	1.03	0.95
3"	0.70	1.07	1.24	1.13	1.07	1.08	1.15
4"	1.03	1.25	1.20	1.05	1.05	1.08	1.15

Availability³

PRODUCT	AVAILABLE THICKNESS IN ½" INCREMENTS	STANDARD DIMENSIONS ^{4,5}
RainBarrier®	1" – 8"	16" x 48", 24" x 48"
Tolerances	+¼", -⅛"	Width: ±⅛", Length: ±½"

3 Available with black veil. See Owens Corning publication "Thermafiber® RainBarrier® Dark™ Product Data Sheet" (Pub. No. 10025102) for more information.

4 See our product guide for more details.

5 Custom sizes are available upon request (subject to minimum order quantity).

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® insulation products. See Owens Corning publication "Thermafiber® RainBarrier® Continuous Insulation Guide" (Pub. No. 10021356) 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.

Recycled Content Options^{1,6}

- EPA Choice Fiber
(U.S. Government Buildings)Minimum 75%
- Standard Fiber70%¹

1 Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org

6 Recycled content options other than standard must be specified at time of order.

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

- Environmental Product Declaration (EPD) has been certified by UL Environment. For more details see UL EPD 4790011847.101.3.
- Health Product Declaration (HPD).
- Thermafiber® RainBarrier® is certified by Declare. See Declare Label OWC-0023 at <https://declare.living-future.org/>.



Declare.



Made in the USA

Manufactured in USA with domestic and foreign materials.

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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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Pub. No. 10021139-L. Printed in U.S.A. July 2026.
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