



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, vapor permeable, and are easy to fabricate and install.

Features

- Black facing provides camouflaging behind open-joint façade systems
- Non-combustible, non-deteriorating, and inorganic
- 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
- Fiberglass veil gives installers flexibility without rigidity
- Fire-resistant to temperatures above 2,000°F (1,093°C)
- Mineral wool board product contains a minimum of 70% recycled content¹
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

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

Actual Density	"k" @75° [24°C] BTU.in/hr. sq.ft. °F	"R" value per inch of thickness ²
4.5 pcf	0.23	4.3
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
Water Vapor Permeance	ASTM E96	RainBarrier® 45, 47 perms as tested RainBarrier® HD, 38 perms as tested
Water Vapor Sorption	ASTM C1104	Absorbs 0.06% by volume
Linear Shrinkage	ASTM C356	<2% @1,200°F (650°C)
Surface Burning Characteristics	ASTM E84	Flame Spread 20 Smoke Developed 15
Fungi Resistance	ASTM C1338	Complies
UV Testing	ICC-ES AC38 Section 4.1.2 UV Exposure with ASTM D224 Color Evaluation	Complies; acceptable change in black color after UV exposure

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

Availability

PRODUCT	AVAILABLE THICKNESS IN ½" INCREMENTS	STANDARD DIMENSIONS ^{3,4}
RainBarrier® 45 4.5 pcf	3"–7"	16" x 48", 24" x 48"
RainBarrier® HD 6.0 pcf	2"–7"	16" x 48", 24" x 48"
Tolerances	+¼", -⅛"	Width: ±⅛", Length: ±½"

3 See our product guide for more details.

4 Custom sizes are available upon request.

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.

Product Options

Recycled Content Options^{1,5}:

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

5 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

- ¹Verified 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.



Made in the USA

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for, the accuracy or reliability of data associated with particular uses of any product described herein. Owens Corning reserves the right to modify this document without prior notice.

LEED® is a registered trademark of the U.S. Green Building Council.

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

888-TFIBER1 [834-2371]
www.owenscorning.com/thermafiber

Pub. No. 10025102-A. Printed in U.S.A. May 2023.
© 2023 Owens Corning. All Rights Reserved.