



THERMAFIBER® RAINBARRIER® 45 MINERAL WOOL INSULATION



Description

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

Features

- 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 2,000°F (1,093°C)
- Enhances acoustical performance
- Minimum 70% recycled content²
- Contributes to credits in several green building programs such as LEED® and Green Globes®

Standards, Code Compliance

- ASTM C612, Mineral Fiber Block and Board Thermal Insulation, Type IA, IB, IVA

Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Stress Corrosion – Austenitic Steel	ASTM C795	Pass
Non-Combustibility	ASTM E136	Non-combustible as defined per NFPA 220
Non-Combustibility	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	Unfaced, 50 perm as tested
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0
Surface Burning Characteristics	CAN/ULC S102	Flame Spread 0, Smoke Developed 5
Water Vapor Sorption	ASTM C1104	Absorbs 0.03% by volume
Linear Shrinkage	ASTM C356	<2% 1200°F (650°C)
Fungi Resistance	ASTM C1338	Complies

Technical Data

	TESTED TO ASTM C518		TESTED TO ASTM E84 UNFACED		
	"k" @ 75° [24°C] BTU · in/hr · sq. ft. °F	"R" value per inch of thickness*	Flame Spread	Smoke Developed	
Actual Density	4.5 pcf	0.23	4.3	0	0

*R = thickness divided by 'k'

Acoustical Performance

COEFFICIENTS AT FREQUENCIES PER ASTM C423

THICKNESS	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

THICKNESS*	WIDTHS**	LENGTHS**
1"–7"	16", 24", 36"	48", 60"

*Thicknesses are available in 1/2" increments.

**Custom sizes are available upon request

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® insulation products. See Owens Corning publication "Thermafiber® RainBarrier® Insulation Installation Guide" (Pub. No. 10021141) for more information.

Product Options

Recycled Content Option^{1,2}:

- EPA Choice Fiber (US Government Buildings).....Minimum 75%
- Standard Fiber.....70%

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

Notes

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

Submittal Approvals

Job Name _____

Contractor _____

Date _____

Thermafiber Insolutions®

Thermafiber Insolutions® offers industry leading technical and engineering assistance to architects, specifiers, and contractors. Contact our technical services department at 1-888-834-2371 or email ThermafiberInsolutions@owenscorning.com.

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

- ²Verified 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)



Declare.

Disclaimer of Liability

Thermafiber, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Thermafiber, Inc. liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered. LEED® is a registered trademark of the U.S. Green Building Council. Green Globes® is a registered trademark of Green Building Initiative, Inc.



THERMAFIBER, INC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659
888-TFIBER1 [834-2371]
www.owenscorning.com/thermafiber