



# THERMAFIBER® RAINBARRIER® HD MINERAL WOOL INSULATION

Thermafiber® RainBarrier® HD insulation is a high-density board with a consistent 6.0 pcf density throughout the entire thickness of the product. The consistent density from top to bottom helps eliminate the need to orient the piece in a certain direction. Thermafiber® RainBarrier® HD continuous insulation products are designed for exceptional performance in rain screen and cavity wall construction applications. Mineral wool insulation provides thermal insulation, 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 and air barrier systems.

## Features

- Non-combustible, non-deteriorating, and inorganic
- Repels and drains water, heavy-density rigid board
- Helps conserve energy, reduce greenhouse gas emissions
- Fire-resistant to temperatures above 2,000°F (1,093°C)
- Enhances acoustical performance
- Minimum 70% recycled content<sup>1</sup>
- 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 <sup>2</sup>
6.0 pcf	0.23	4.3

<sup>2</sup> R = thickness divided by "k."

## Acoustical Performance

THICKNESS	COEFFICIENTS AT FREQUENCIES PER ASTM C423						
	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
2"	0.36	0.79	1.15	1.04	1.01	1.04	1.00
4"	1.15	1.17	1.18	1.03	1.06	1.08	1.10
6"	1.18	1.01	1.11	1.03	1.06	1.10	1.05

## Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Stress Corrosion – Austenitic Stainless Steel	ASTM C795	Pass
Combustibility	ASTM E136	Non-combustible
Combustibility	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	Unfaced, 50 perm as tested
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 S103	Flame Spread 0, Smoke Developed 5
Fungi-Resistance	ASTM C1338	Complies

## Availability

THICKNESS <sup>3</sup>	WIDTHS <sup>4</sup>	LENGTHS <sup>4</sup>
1"–7"	16", 24", 36"	48", 60"

<sup>3</sup> Thicknesses are available in ½-inch increments.

<sup>4</sup> 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<sup>1,5</sup>:

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

<sup>5</sup> 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](http://www.owenscorning.com).

## Certifications and Sustainable Features

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

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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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