

# Continuous Insulation (ci) RainBarrier® HD

- + Non-combustible, non-deteriorating, & inorganic
- + Repels and efficiently drains water
- + Heavy density rigid board
- + Conserves energy, reduces greenhouse gas emissions
- + Fire resistant to temperatures above 2000° F (1,093° C)
- + Enhances sound control
- + Natural dark color provides camouflaging in open joint façades



Thermafiber® RainBarrier® mineral wool insulation was installed in the Wisconsin Institute for Discovery (Madison, WI) and helped contribute to its LEED® Gold rating.

LEED® v2009 Green Building Credits				
Minimum 70% Recycled Content <sup>1</sup>	Energy & Atmosphere	Materials & Resources	Indoor Environmental Quality	Innovation in Design
	1	2.1, 2.2 3.1, 3.2 4.1, 4.2 5.1, 5.2	9	1



RainBarrier® HD is a high density board that provides thermal insulation, fire protection and acoustical control while efficiently draining water from a wall cavity system.



Made in the USA

# Thermafiber® RainBarrier® HD Insulation

## Description:

Thermafiber RainBarrier® HD 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. Its natural, dark color provides camouflaging in open joint facades and helps eliminate the need for black facing. Thermafiber Inc. does not recommend applying a black facing in open joint applications because the manufacturers of the facing do not support their long term exposure. RainBarrier® HD continuous insulation products are designed for exceptional performance in rain screen and cavity wall construction applications. Mineral wool provides thermal insulation, fire protection and acoustical control while efficiently draining water from a cavity system. All RainBarrier® products are non-combustible and compatible with common wall ties and air barrier systems.

## Product Options:

- Recycled Content Option<sup>2</sup>:
    - EPA Choice Fiber (US Government Buildings)..... Minimum 75%
    - Standard Fiber ..... 70%
- <sup>2</sup>Recycled content options other than standard must be specified at time of order.

## Installation:

Thermafiber recommends mechanical attachment of RainBarrier® insulation products. See Thermafiber's RainBarrier® Installation Guide at [www.thermafiber.com/rainbarrier](http://www.thermafiber.com/rainbarrier)

## Standard Sizes:

	Thickness*	Widths**	Lengths**
RainBarrier® HD	1" - 7"	16", 24", 36"	48", 60"

\*Thicknesses are available in ½" increments. \*\*Custom sizes are available upon request.

## Technical Data:

Product Designation	Actual Density	Tested to ASTM C 518		Tested to ASTM E 84 Unfaced	
		"k" @ 75° [24°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed
RainBarrier® HD	6.0 pcf	0.24	4.2	0	0

\*\*\*R = thickness divided by 'k'

## Acoustical Performance:

NRC Data	Thickness	Coefficients at Frequencies Per ASTM C 423						NRC
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
RainBarrier® HD	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

## Standards Compliance:

RainBarrier® HD meets the following:

- ASTM C 665** Non-corrosive
- ASTM C 795** Pass
- ASTM C 612** RainBarrier® HD Type IA, IB, II, III, IVA
- ASTM E 136** Rated Non-combustible per NFPA Standard 220
- ASTM E 96** Unfaced, 50 Perms as tested
- ASTM E 84** Flame Spread 0, Smoke Developed 0
- CAN/ULC S 102** Flame Spread 0, Smoke Developed 5
- ASTM C 1104** Absorbs 0.03% by volume
- ASTM C 356** Linear Shrinkage <2% 1200° F (650° C)

## Thermafiber Insolutions®:

Thermafiber offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED Credit Information, and product recommendations. Contact our technical services department at (888) 834-2371 or email [technicalservice@owenscorning.com](mailto:technicalservice@owenscorning.com)

## For Further Information:

For additional information about these or other Thermafiber® products contact us at 1-888-834-2371 or visit our website [www.thermafiber.com](http://www.thermafiber.com).

## Notice:

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<sup>1</sup>Recycled content verified by ICC-ES

## Submittal Approvals:

Job Name	
Contractor	Date

