



# Thermafiber® RainBarrier® HD Mineral Wool 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. 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, and acoustical control while efficiently draining water from a cavity system. All Thermafiber® RainBarrier® products are non-combustible and compatible with common wall ties and air barrier systems.

## Standards, Codes Compliance

ASTM C 665	Non-corrosive
ASTM C 795	Pass
ASTM C 612	RainBarrier® HD Type IA, IB, II, III, IVA
ASTM E 136	Non-combustible as defined per NFPA Standard 220
CAN/ULC S114	Complies
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)

## Product Options

Recycled Content Option<sup>1,2</sup>:

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

Standard Fiber ..... 70%

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

## Technical Data

Tested to ASTM C 518			Tested to ASTM E 84 Unfaced	
Actual Density	"k" @ 75° [24°C] BTU.in/hr .sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed
6.0 pcf	0.23	4.3	0	0

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

## Acoustical Performance

Coefficients at Frequencies Per ASTM C 423							
Thickness	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	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

## 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.

## Availability

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

\* Thicknesses are available in 1/2" increments.

\*\* Custom sizes are available upon request.

## Thermafiber Insolutions®

Thermafiber Insolutions® 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 1-888-834-2371 or email [ThermafiberInsolutions@owenscorning.com](mailto:ThermafiberInsolutions@owenscorning.com).

## Features

- Non-combustible, non-deteriorating, and inorganic
- Repels and efficiently 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
- Natural dark color provides camouflaging in open joint façades
- Minimum 70% recycled content<sup>2</sup>
- Contributes to credits in several green building programs such as LEED® and Green Globes®

## 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).

## Notes

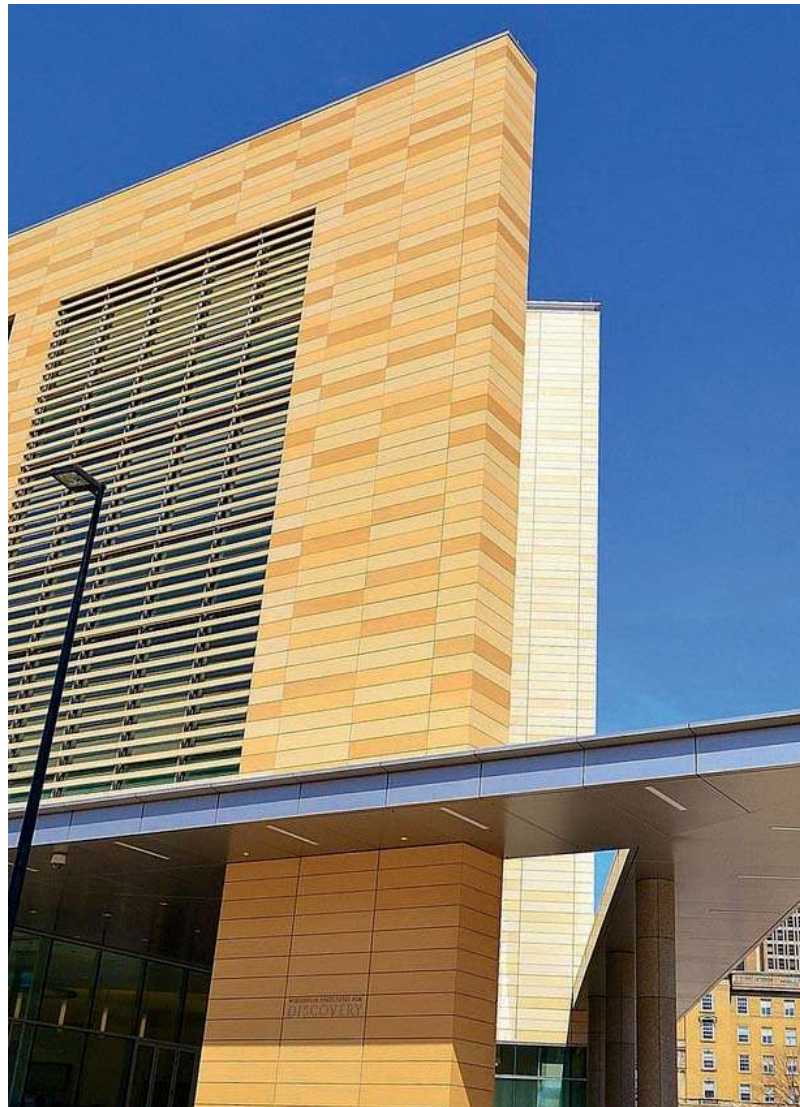
For additional information refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

## Submittal Approvals

Job Name \_\_\_\_\_  
Contractor \_\_\_\_\_  
Date \_\_\_\_\_



Made in the USA



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

## Certifications and Sustainable Features

- <sup>2</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).
- Material Health Certificate from Cradle to Cradle Products Innovation Institute. For more information visit [c2ccertified.org](http://c2ccertified.org).



# Thermafiber

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Green Globes® is a registered trademark of Green Building Initiative, Inc.

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