



# THERMAFIBER® RAINBARRIER® CI HIGH COMPRESSIVE PLUS (110) MINERAL WOOL INSULATION

Thermafiber® RainBarrier® ci High Compressive Plus (110) continuous insulation boards are designed to support cladding attachment with minimal penetrations. The use of ThermaCrimp™ technology allows for superior compressive strength while providing thermal efficiency, non-combustibility, water repellency, and flexibility when working with uneven substrates. RainBarrier® ci High Compressive Plus (110) can be used behind medium-weight cladding types – including combustible and open-joint assemblies.

## Features

- High compressive strength to support cladding attachment system with minimal penetration through continuous insulation
- More than 25% lighter in weight than the leading competitor’s product
- Vapor-permeable
- Non-combustible and non-deteriorating
- 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

Thickness	Nominal Density	"k" @ 75° [24°C] BTU.in/hr. sq. ft. °F	"R" value per inch of thickness <sup>2</sup>
1.25"–4"	11.0 pcf	0.24	4.2

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

## Physical Properties

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM C165	720 lbs/ft <sup>2</sup> @ 10% deformation
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Stress Corrosion – Austenitic Stainless Steel	ASTM C795	Pass
Combustibility	ASTM E136	Non-combustible
Water Vapor Permeance	ASTM E96	46 perm
Water Vapor Sorption	ASTM C1104	Sorption < 0.1% by volume
Linear Shrinkage	ASTM C356	<2% @1,200°F (650°C)
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0
Fungi-Resistance	ASTM C1338	Complies
Odor	ASTM C1304	Complies

## Acoustical Performance

ASTM C423	THICKNESS	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
	1.25"	0.11	0.52	0.99	1.01	1.01	1.00	0.90
2"	0.27	0.89	0.95	1.04	1.00	1.00	0.95	
4"	0.57	0.79	0.95	0.99	0.99	0.99	0.95	

## Availability

PRODUCT	AVAILABLE THICKNESS IN ½" INCREMENTS	STANDARD DIMENSIONS <sup>3,4</sup>
RainBarrier® ci HC Plus (110)	1.25", 1.5"-4"	24" x 48", 48" x 72"
Tolerances	+ <sup>1</sup> / <sub>8</sub> ", - <sup>1</sup> / <sub>16</sub> "	Width: ± <sup>1</sup> / <sub>8</sub> ", Length: ± <sup>1</sup> / <sub>4</sub> "

<sup>3</sup> See our product guide for more details.  
<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).
- Rainbarrier® products have a published Health Product Declaration (HPD).



**Declare.**



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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>.

**THERMAFIBER, INC.**  
 ONE OWENS CORNING PARKWAY  
 TOLEDO, OH 43659 USA

**888-TFIBER1 [834-2371]**  
[www.owenscorning.com/thermafiber](http://www.owenscorning.com/thermafiber)