



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



Description

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
- 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 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, II, III, IVA, IVB

Physical Properties

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM C165	720 lbs/ft ² @ 10% deformation
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0
Non-Combustibility	ASTM E136	Non-Combustible as defined per NFPA 220
Linear Shrinkage	ASTM C356	<2% @ 1200°F
Water Vapor Permeance	ASTM E96	46 perm
Water Vapor Sorption	ASTM C1104	<0.5%
Fungi Resistance	ASTM C1338	Pass
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Stress Corrosion – Austenitic Steel	ASTM C795	Pass
Odor	ASTM C1304	Pass

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
0.24	4.2	0	0

*R = thickness divided by "k"

Accoustical 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

THICKNESS*	WIDTHS	LENGTHS
1.25", 1.5"-4"*	24", 48"	48", 72"

*Thicknesses are available in 1/2" increments

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 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.
- Rainbarrier® Products have a published Health Product Declaration (HPD).



Declare.

Disclaimer of Liability

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