



THERMAFIBER® RAINBARRIER® CI HIGH COMPRESSIVE MAX MINERAL WOOL INSULATION



Description

Thermafiber® RainBarrier® ci High Compressive Max 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 Max can be used behind heavy weight cladding types – including combustible and open-joint assemblies.

Features

- High compressive strength to support cladding attachment system with minimal penetration through insulation
- Vapor permeable
- Non-combustible and non-deteriorating
- Helps conserve energy/reduce greenhouse gas emissions
- Fire resistant to temperatures above 1,093°C (2,000°F)
- Enhances acoustical performance
- Minimum 70% recycled content²
- Contributes to credits in several green building programs such as LEED® and Green Globes®

Standards, Code Compliance

- CCMC Evaluation Listing No. 14060-L
- CAN/ULC-S702, Standard for Mineral Fibre Thermal Insulation for Buildings, Type I
- 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	62.1 kPa (1,296 lbs/ft ²) @ 10% deformation
Surface Burning Characteristics	CAN/ULC-S102	Flame Spread 0, Smoke Developed 5
	ASTM E84	Flame Spread 0, Smoke Developed 0
Non-Combustibility	CAN/ULC-S114	Non-Combustible
	ASTM E136	Non-Combustible as defined per NFPA 220
Smoulder Resistance	CAN/ULC-S129	Mean Mass Loss ≤ 0.02%
Linear Shrinkage	ASTM C356	<2% @ 650 °C (1200 °F)
Water Vapour Permeance	ASTM E96	3,261 ng/Pa·s·m ² (57 Perms)
Water Vapour Sorption	ASTM C1104	<0.5%
Fungi Resistance	ASTM C1338	Pass
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Chemical analysis for Cl, F, Na ⁺ , SiO ₄ ⁴⁻	ASTM C871 / ASTM C795	Results fall within acceptability limits of ASTM C795
Odor	ASTM C1304	Pass

Technical Data

TESTED TO ASTM C518		TESTED TO CAN/ULC-S102 UNFACED	
RSI /25.4 mm @ 24 °C m ² ·K/W	R-value/inch @ 75 °F hr·ft ² ·°F/Btu	Flame Spread	Smoke Developed
0.71	4.0	0	5

Acoustical Performance

ASTM C423	THICKNESS	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
	25 mm (1")	0.10	0.41	0.86	0.97	0.96	0.96	0.80
	51 mm (2")	0.33	0.79	0.77	0.93	0.93	0.94	0.85
	102 mm (4")	0.44	0.69	0.89	0.90	0.93	0.95	0.85

Availability

THICKNESS*	WIDTHS	LENGTHS
25 mm (1") – 102 mm (4")	609 mm (24"), 1219 mm (48")	1219 mm (48"), 1829 mm (72")

*Thicknesses are available in 12.7 mm (1/2") increments

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® insulation products. See Owens Corning publication "Thermafiber® RainBarrier® Insulation Guide" (Pub. No. 600060) for more information.

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 _____

Technical Services Available

For Canadian Thermafiber® Technical inquiries, please contact our technical team at www.thermafiber.ca/contact.

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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