

MasterFormat 07 21 13.19 - Mineral Board Insulation

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
- Vapour 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 content[1]
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

Standards, Codes Compliance

- CCMC Evaluation Listing No. 14060-L
- CAN/ULC-S702.1, Standard for Mineral Fibre Thermal Insulation for Buildings, Type 1
- ASTM C612, Mineral Fiber Block and Board Thermal Insulation, Types IA, IB, II, III, IVA, IVB

Technical Data

	TESTED TO ASTM C518	
NOMINAL DENSITY	**RSI /25.4 MM @ 24 °C M²·K/W**	**R-VALUE/INCH @ 75 °F HR·FT²·°F/BTU**
176 kg/m³ (11.0 pcf)	0.73	4.1

Performance Criteria

COMPLIANCE	CCMC Evaluation Listing No. 14060-L Type 1	CCMC CAN/ULC-S702.1

Additional Performance Information

PROPERTY	VALUE	TEST METHOD
Compressive Strength	34.5 kPa (720 lbs/ft²) @ 10% deformation	ASTM C165
Surface Burning Characteristics	Flame Spread 0, Smoke Developed 5	CAN/ULC-S102
	Flame Spread 0, Smoke Developed 0	ASTM E84
Non-Combustibility	Complies	CAN/ULC-S114
	Non-Combustible as defined per NFPA 220	ASTM E136
Smoulder Resistance	Mean Mass Loss ≤ 0.02%	CAN/ULC-S129
Linear Shrinkage	<2% @ 650 °C (1,200 °F)	ASTM C356
Water Vapour Permeance	2,631 ng/Pa•s•m² (46 Perms)	ASTM E96
Water Vapour Sorption	Sorption less than 0.5% by volume	ASTM C1104
Fungi Resistance	Complies	ASTM C1338
Corrosion of Steel, Aluminum, and Copper	Pass	ASTM C665
Stress Corrosion – Austenitic Steel	Pass	ASTM C795
Odor	Pass	ASTM C1304

Acoustical Performance

TESTED TO ASTM C423 SOUND ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (Hz)

THICKNESS	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
32 mm (1.25")	0.11	0.52	0.99	1.01	1.01	1.00	0.90
51 mm (2")	0.27	0.89	0.95	1.04	1.00	1.00	0.95
102 mm (4")	0.57	0.79	0.95	0.99	0.99	0.99	0.95

Availability

THICKNESS[2]	STANDARD DIMENSIONS
32 mm, 38 mm - 102 mm (1.25", 1.5" - 4")	610 mm x 1219 mm (24" x 48") 1219 mm x 1829 mm (48" x 72")

2 Thicknesses are available in 13 mm (½") increments

Installation

Thermafiber, Inc. recommends mechanical attachment of Thermafiber® RainBarrier® CI HC insulation products. See Owens Corning publication "Thermafiber® RainBarrier® CI High Compressive – Cladding Attachment Guide Canada" (Pub. No. 600224) for more information. The types of fastener, method, and frequency are to be determined by the installer for the specificity of the project and approved by the project design team.

Certifications and Sustainable Features

- [1]Verified 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).
- Living Building Challenge Compliant and Red List Approved.

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.ca or www.owenscorninglibrary.ca.

Technical Services Available

For Canadian Technical inquiries, please contact our technical team at www.owenscorning.ca/contacttech.

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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.

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