

Owens Corning® Thermafiber® Rainbarrier®

Mineral Wool Insulation

Description:

Owens Corning® Thermafiber® RainBarrier® is a high-performance, semi-rigid mineral wool insulation board engineered specifically for rain screen and cavity wall construction. Designed for seamless integration, these boards easily form around cladding attachment elements – such as masonry ties, girts, and clip-and-rail systems – eliminating the need for time-consuming cutting or notching. By fitting snugly around fasteners without gaps, RainBarrier® ensures a truly continuous thermal barrier while providing superior fire resistance, acoustical control, and vapor permeance.

Uses:

- Exterior wall applications.
- Contact Siplast for additional information on approved product uses.

Features and Benefits:

- Fire Safety — Non-combustible mineral wool tested to ASTM E136, providing critical fire resistance for commercial assemblies.
- Moisture Management — Engineered to repel and drain water within the wall cavity, maintaining system integrity.
- Durability — Inorganic, mold-resistant (ASTM C1338), and non-deteriorating; maintains performance over the life of the building.
- UV Resistance — Formulated to withstand ultraviolet exposure both during the construction phase and while in service.
- Thermal & Energy Efficiency — Supports high-performance thermal envelopes.
- Sustainability & LEED® Support — Contains a minimum of 70% recycled content.

Installation:

See Owens Corning publication “Thermafiber® RainBarrier® Continuous Insulation Guide” (Pub. No. 10021356) for more information.

Standards, Codes Compliance:

- ASTM C612, Mineral Fiber Block and Board Thermal Insulation, Types IA, IB, II, III, IVA, IVB

Certifications and Sustainable Features:

- 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
- Health Product Declaration (HPD)
- Recycled Content Options:*
- EPA Choice Fiber
- (U.S. Government Buildings) — Minimum 75%
- Standard Fiber — 70%



Declare.

Technical Data: TESTED TO ASTM C518

Rainbarrier®		
Thickness	1" – 8"	
Board Sizes†	16" x 48" and 24" x 48"	
Nominal Density	6.0 pcf	
k@75° [24°C] BTU.in/hr. sq. ft. °F	0.23	
R-value per inch of thickness‡	4.3	
Tolerances		
Available thickness in ½" increments	+¼" -⅛"	Width: ±⅛" Length: ±½"

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

† Custom sizes are available upon request.

‡ R = thickness divided by k

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Product Specifications:

Property	Test Method	Value
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Pass
Stress Corrosion — Austenitic Stainless Steel	ASTM C795	Pass
Non-Combustibility	ASTM E136	Non-combustible
	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	25-50 perm
Water Vapor Sorption	ASTM C1104	Absorbs 0.03% by volume
Linear Shrinkage	ASTM C356	<2% @ 1,200°F (650°C)
Surface Burning Characteristics	ASTM E84	Flame Spread 0 Smoke Developed 0
	CAN/ULC S102	Flame Spread 0 Smoke Developed 5
Fungi Resistance	ASTM C1338	Complies

Acoustical Performance:

Thickness	Coefficients At Frequencies Per ASTM C423						
	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.5"	0.22	0.44	0.96	1.06	1.05	1.05	0.90
2"	0.30	0.69	1.08	1.01	1.00	1.03	0.95
3"	0.70	1.07	1.24	1.13	1.07	1.08	1.15
4"	1.03	1.25	1.20	1.05	1.05	1.08	1.15



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For More Information: <https://www.owenscorning.com/en-us/insulation/products/thermafiber-rainbarrier-continuous-insulation>