



THERMAFIBER® VERSABOARD® MINERAL WOOL INSULATION



Thermafiber® VersaBoard® multi-purpose insulation provides an outstanding combination of fire-resistive characteristics, enhanced acoustical performance, thermal performance, moisture resistance, and energy conservation for various commercial construction applications. These products are great for surfaces that require insulation for thermal and acoustical performance, including but not limited to parking garage under decking and mechanical rooms. VersaBoard® insulation is not listed by UL® or Intertek® for use in fire-rated systems.

Features

- Excellent thermal performance (R-Value up to 4.2 per inch)
- Exceptional sound and noise absorption
- Fire-resistant to temperatures above 1,093°C (2,000°F)
- Easy to fabricate
- Conserves energy, reduces greenhouse gas emissions
- Minimum 70% recycled content¹
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

Standards, Codes Compliance

- CAN/ULC-S702.1, Standard for Mineral Wool Fibre Thermal Insulations, Type 1 (Unfaced), Type 3 (Foil Faced)
- ASTM C612, unfaced and for both FSP facings available, excluding black mat:
 - VersaBoard® 35: Types I, II, III, IVA
 - VersaBoard® 40: Types I, II, III, IVA
 - VersaBoard® 60: Types I, II, III, IVA, IVB
 - VersaBoard® 80: Types I, II, III, IVA, IVB
- NFPA 101, Class A rated only for unfaced and FSP VersaBoard® when used on an exposed interior surface
- VersaBoard® 60 can be used as a thermal barrier for foamed plastics, certified to CAN/ULC-S124. See QAI Listing No. B1079 for details

Performance Criteria

COMPLIANCE	CCMC Evaluation Listing No. 14060-L Type 1 (Unfaced), Type 3 (Foil Faced)	CCMC CAN/ULC-S702.1
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Additional Performance Information

PROPERTY	VALUE	TEST METHOD
Corrosion of Steel, Aluminum, and Copper	Non-corrosive	ASTM C665
Stress Corrosion - Austenitic Steel	Pass	ASTM C795
Non-combustibility	Complies	CAN/ULC-S114
	Non-combustible	ASTM E136
Water Vapour Permeance	0.02 perms as tested for all facings available, excluding black mat	ASTM E96
Water Vapour Sorption	Absorption less than 1% by volume	ASTM C1104
Linear Shrinkage	<2% 650 °C (1,200 °F)	ASTM C356
Surface Burning Characteristics	Unfaced: Flame Spread 0, Smoke Developed 5, Aluminum FSP: Flame Spread 25, Smoke Developed 0	CAN/ULC-S102
	Unfaced: Flame Spread 0, Smoke Developed 5, Aluminum FSP: Flame Spread 25, Smoke Developed 0	ASTM E84
Smoulder Resistance	Mean Mass Loss ≤ 0.02%	CAN/ULC-S129
Fungi Resistance	Complies	ASTM C1338

Technical Data

PRODUCT	TESTED TO ASTM C518	
	RSI /25.4 MM @ 24 °C M ² ·K/W	R-VALUE/INCH @ 75 °F HR·FT ² ·°F/BTU
VersaBoard® 35	0.71	4.0
VersaBoard® 40, 60	0.74	4.2
VersaBoard® 80	0.72	4.1

Acoustical Performance

TESTED TO ASTM C423 SOUND ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (Hz)								
DENSITY	THICKNESS	125*	250	500	1000	2000	4000*	NRC
64 kg/m³ (4.0 lbs/ft³)	51 mm (2")	0.33	0.71	1.13	1.15	1.08	1.09	1.00
	102 mm (4")	1.01	1.26	1.23	1.13	1.11	1.09	1.20
	152 mm (6")	1.35	1.17	1.20	1.13	1.06	1.10	1.15
	203 mm (8")	1.34	1.21	1.21	1.14	1.12	1.09	1.15
96 kg/m³ (6.0 lbs/ft³)	51 mm (2")	0.36	0.79	1.15	1.04	1.01	1.04	1.00
	102 mm (4")	1.15	1.17	1.18	1.03	1.06	1.08	1.10
	152 mm (6")	1.18	1.01	1.11	1.03	1.06	1.10	1.05
	203 mm (8")	1.13	1.11	1.13	1.01	1.06	1.07	1.10
128 kg/m³ (8.0 lbs/ft³)	51 mm (2")	0.35	0.84	1.08	1.04	0.96	0.93	1.00
	102 mm (4")	0.49	1.11	1.11	1.14	0.97	0.64	1.10

Availability

PRODUCT	AVAILABLE THICKNESS IN 1/2" INCREMENTS	STANDARD DIMENSIONS ^{2,3}
VersaBoard® 35	38 mm - 178 mm (1½" - 7")	610 mm x 1219 mm (24" x 48")
VersaBoard® 40	25 mm - 203 mm (1" - 8")	610 mm x 1219 mm (24" x 48")
VersaBoard® 60	25 mm - 203 mm (1" - 8")	610 mm x 1219 mm (24" x 48")
VersaBoard® 80	38 mm - 127 mm (1½" - 5")	610 mm x 1219 mm (24" x 48")
Tolerances	+6 mm (¼"), -3 mm (⅛")	Width: ± 3 mm (⅛"), Length: ±13 mm (½")

2 See our product guide for more details.
3 Custom sizes are available upon request.

Product Options

Thermafiber® VersaBoard® insulation is available faced with aluminum FSP, white aluminum FSP, and black mat. Faced material will have an edge reveal of up to 25 mm (1") maximum.⁴

PRODUCT	ACTUAL DENSITY	ALUMINUM FSP	ALL OTHER FACINGS
VersaBoard® 35	56 kg/m³ (3.5 lbs/ft³)	≥ 64 mm (2½")	≥ 89 mm (3½")
VersaBoard® 40	64 kg/m³ (4.0 lbs/ft³)	≥ 51 mm (2")	≥ 76 mm (3")
VersaBoard® 60	96 kg/m³ (6.0 lbs/ft³)	≥ 38 mm (1½")	≥ 51 mm (2")
VersaBoard® 80	128 kg/m³ (8.0 lbs/ft³)	≥ 25 mm (1")	≥ 38 mm (1½")

4 Edges may be taped.

Installation

Thermafiber® VersaBoard® is designed for mechanical attachment. The types of fastener, method, and frequency are to be determined by the installer for the specificity of the project. The treatment of seams, including selection of tape, are to be determined by the project design team.

Certifications and Sustainable Features

- ¹Verified 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.
- VersaBoard® products have a published Health Product Declaration (HPD).



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.

Disclaimer of Liability

Thermafiber, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Thermafiber, Inc. liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

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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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