



Thermafiber® VersaBoard®

Mineral Wool Multipurpose Insulation

PRODUCT FEATURES

Description

Mineral wool multipurpose thermal insulation with fire resistive, acoustic, and energy conserving properties; available with a variety of facing options suitable for commercial construction applications.

Basic Uses/Related Uses

Thermal, fire resistive, and acoustical insulation for various commercial construction assemblies. Available with various facing options, VersaBoard® insulation is perfectly suitable for parking garages, under decking, mechanical rooms, and other areas where insulation is required. VersaBoard® 60 can be used as a thermal barrier for foamed plastics, certified to CAN/ULC-S124. See QAI Listing No. B1079 for details.

Selection Criteria

- Non-combustible
- Moisture resistant and non-deteriorating
- Non-corrosive
- Vermin resistant
- Helps conserve energy, reduce greenhouse gas emissions
- Fire resistant to temperatures above 1,093° C (2,000° F)
- Enhances acoustical and thermal performance

Sustainability Criteria

- Recycled content minimum 70%, standard fiber
- Transparency Documentation Available - Health Product Declaration
- Contributes to credits in several green building programs such as LEED® and Green Globes®
- For more information see Environmental Product Declaration (EPD) certified by UL Environment via www.thermafiber.ca/sustainability

Applicable Standards

CAN/ULC-S702	Standard for Mineral Fibre Thermal Insulation for Buildings
ASTM C665	Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
ASTM C612	Standard Specification for Mineral Fiber Block and Board Thermal Insulation
ASTM C518	Standard Test Methods for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C356	Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat
CAN/ULC-S114	Standard Method of Test for Determination of Non-combustibility in Building Materials
ASTM E136	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
CAN/ULC-S129	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
CAN/ULC-S102	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials
CAN/ULC-S124	Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic
ASTM C1104	Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials
ASTM C1338	Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
ASTM C795	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel
ASTM C423	Standard Test Method for Sound Absorption Coefficients by the Reverberation Room Method

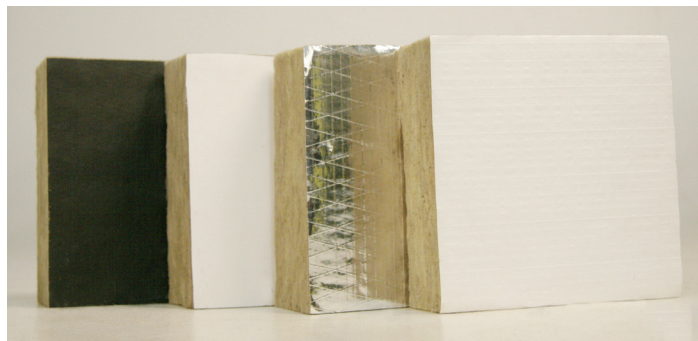




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Performance Criteria

Compliance	Evaluation Listing No. 14060-L Type I (Unfaced), Type III (Foil Face) VersaBoard® 35 - Type IA VersaBoard® 40, 60 & 80 - Type IA, IB, II, III, IVA	CCMC CAN/ULC-S702 ASTM C612
Density	VersaBoard® 35 56 kg/m ³ (3.5 lbs/ft ³) VersaBoard® 40 64 kg/m ³ (4.0 lbs/ft ³) VersaBoard® 60 96 kg/m ³ (6.0 lbs/ft ³) VersaBoard® 80 128 kg/m ³ (8.0 lbs/ft ³)	Actual
Thermal	VersaBoard® 35 RSI value/25.4 mm @ 24 °C 0.71 m ² ·K/W R-value/inch @ 75 °F 4.0 hr·ft ² ·°F/Btu VersaBoard® 40 & 60 RSI value / 25.4 mm @ 24 °C 0.74 m ² ·K/W R-value / inch @ 75 °F 4.2 hr·ft ² ·°F/Btu VersaBoard® 80 RSI value / 25.4 mm @ 24 °C 0.72 m ² ·K/W R-value / inch @ 75 °F 4.1 hr·ft ² ·°F/Btu	ASTM C518
Stability	Linear Shrinkage <2% @ 650°C (1200°F)	ASTM C356
Fire	Non-Combustible Non-Combustible as defined per NFPA Standard 220 Smoulder Resistance Mean Mass Loss ≤ 0.02% Flame Spread 0; Smoke Developed 5 Flame Spread 0; Smoke Developed 0 VersaBoard® 60 Class A - min. 76 mm (3") thickness Class B - min. 51 mm (2") thickness QAI Listing No. B1079	CAN/ULC-S114 ASTM E136 CAN/ULC-S129 CAN/ULC-S102 ASTM E84 CAN/ULC-S124
Moisture	Moisture Absorption < 1% by volume Water Vapour Permeance; Unfaced 2850 ng/Pa.s.m ² (50 Perms) Foil Faced 1 ng/Pa.s.m ² (0.02 Perms) Fungi Resistance - Pass	ASTM C1104 ASTM E96 ASTM C1338
Corrosion	Austenitic Steel - Non-corrosive Steel, Aluminum & Copper - Non-corrosive	ASTM C795 ASTM C665
Acoustic	Contact Technical Services for Test Data	ASTM C423



Sizes

Product	Thickness [†]	Widths	Lengths
VersaBoard® 35	38 mm (1-1/2") - 179 mm (7")	610 mm (24") 914 mm (36")	1219 mm (48") 1524 mm (60")
VersaBoard® 40, 60	25 mm (1") - 179 mm (7")		
VersaBoard® 80	25 mm (1") - 127 mm (5")		

[†]Available in 12.7 mm (1/2") increments

Facing Options*

VersaBoard® insulation can be manufactured with various facings including Silver Foil facing, White Foil facing, All Service Jacket (ASJ) facing, and Black mat facing.

Product	Foil Facing	Other Facings
VersaBoard® 35	≥ 64 mm (2.5")	≥ 89 mm (3.5")
VersaBoard® 40	≥ 51 mm (2.0")	≥ 76 mm (3.0")
VersaBoard® 60	≥ 38 mm (1.5")	≥ 51 mm (2.0")
VersaBoard® 80	≥ 25 mm (1.0")	≥ 38 mm (1.5")

*Up to 6 mm (1/4") may be unfaced at the edge of the mineral wool insulation board. All edges must be taped if material experiences exposed edges.

Quality Statement, Tests, Certifications, and Approvals

- Fire resistance verified by QAI - QAI Listing No. B1079-1.
- Recycled content verified by ICC-ES.

Delivery and Storage

Deliver products in their original packages, and store in enclosed shelter.

Limitations

VersaBoard® insulation is not listed by ULC, UL or Intertek for use in fire rated systems. Refer to referenced product in appropriate listings for fire rated systems. Packaging is not UV resistant. Shelter unused packages from the elements.





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Safety

Contact with mineral wool may cause temporary eye and skin irritation. Wear eye protection and long-sleeved loose fitting clothing closed at the neck and wrists. For additional information refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

Availability/Cost

Contact Owens Corning local Area Sales Manager. See ASM territory map via www.thermafiber.ca/contact.

PRODUCT PROPERTIES

Materials

Mineral wool, Type I & III (to CAN/ULC-S702), non-combustible (to CAN/ULC-S114), non-corrosive (to ASTM C665).

PRODUCT PLACEMENT

Installation

Thermafiber Inc. recommends mechanical attachment of Thermafiber® VersaBoard® products. Standard insulation pins and washers are recommended.

Technical Services Available

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



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Disclaimer of Liability

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