



# 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.

#### 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
- Bronze Material Health Certificate from Cradle to Cradle
- 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](http://www.thermafiber.ca/sustainability)

### Applicable Standards

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



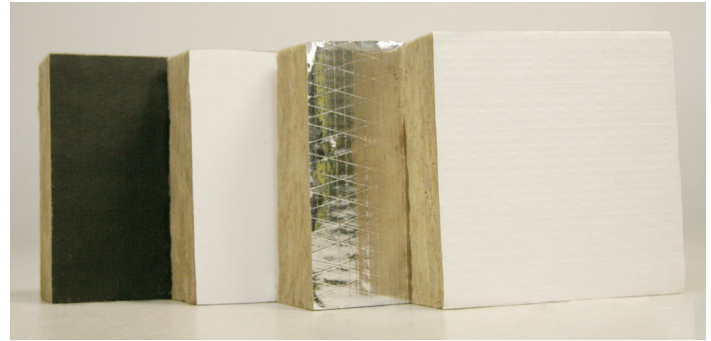


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## Mineral Wool Multipurpose Insulation

### Performance Criteria

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



### Sizes

Product	Thickness <sup>†</sup>	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")		

<sup>†</sup>Available in 12.7 mm (1/2") increments

### Facing Options

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

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")

\*Felt exposure may occur on the edges of material with various facings. 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](http://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 ASM 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 [Thermafiber.ca](http://Thermafiber.ca).



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**THERMAFIBER, INC.**  
ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO, USA 43659

**1-800-GET-PINK®**  
**[www.thermafiber.ca](http://www.thermafiber.ca)**

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