



# 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 4.3 per inch)
- Exceptional sound and noise absorption
- Fire-resistant to temperatures above 2,000 °F (1,093 °C)
- Easy to fabricate
- Conserves energy, reduces greenhouse gas emissions
- Minimum 70% recycled content<sup>1</sup>
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

## Standards, Codes Compliance

- ASTM C612, unfaced and for both FSP facings available, excluding black mat and ASJ:
  - 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

## Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Noncombustible
Noncombustibility	ASTM E136	Noncombustible
Noncombustibility	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	0.02 perms as tested for all facings available, excluding black mat
Water Vapor Sorption	ASTM C1104	Absorption less than 1% by volume
Linear Shrinkage	ASTM C356	<2% 1,200 °F (650 °C)
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0, unfaced Flame Spread 25, Smoke Developed 0, aluminum FSP
Surface Burning Characteristics	CAN/ULC S102	Flame Spread 0, Smoke Developed 0, unfaced Flame Spread 25, Smoke Developed 0, aluminum FSP

## Technical Data

PRODUCT	TESTED TO ASTM C518	
	"K" @ 75° [24°C] BTU.IN/HR.SQ FT. °F	"R" VALUE PER INCH OF THICKNESS <sup>2</sup>
VersaBoard 35	0.24	4.2
VersaBoard 40, 60, 80	0.23	4.3

<sup>2</sup> R = thickness divided by "k."

## Acoustical Performance

DENSITY	THICKNESS	TESTED TO ASTM C423 SOUND ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (Hz)						
		125*	250	500	1000	2000	4000*	NRC
4.0 pcf	2 in.	0.33	0.71	1.13	1.15	1.08	1.09	1.00
	4 in.	1.01	1.26	1.23	1.13	1.11	1.09	1.20
	6 in.	1.35	1.17	1.20	1.13	1.06	1.10	1.15
	8 in.	1.34	1.21	1.21	1.14	1.12	1.09	1.15
6.0 pcf	2 in.	0.36	0.79	1.15	1.04	1.01	1.04	1.00
	4 in.	1.15	1.17	1.18	1.03	1.06	1.08	1.10
	6 in.	1.18	1.01	1.11	1.03	1.06	1.10	1.05
	8 in.	1.13	1.11	1.13	1.01	1.06	1.07	1.10
8.0 pcf	2 in.	0.35	0.84	1.08	1.04	0.96	0.93	1.00
	4 in.	0.49	1.11	1.11	1.14	0.97	0.64	1.10
	6 in.	0.61	1.19	1.19	1.10	1.03	0.86	1.15
	8 in.	0.75	1.35	1.26	1.19	1.15	1.17	1.25

## Availability

PRODUCT	THICKNESS <sup>3</sup>	WIDTHS <sup>4</sup>	LENGTHS <sup>4</sup>
VersaBoard 35	1½"–7"	24", 36"	48", 60"
VersaBoard 40 & 60	1"–7"	24", 36"	48", 60"
VersaBoard 80	1"–5"	24", 36"	48", 60"
Tolerances	+¼", -⅛"	±⅛"	±½"

3 Thicknesses are available in ½-inch increments.

4 Custom sizes are available upon request.

## Product Options

Thermafiber® VersaBoard® insulation is available faced with ASJ, aluminum FSP, white aluminum FSP, and black mat. Faced material will have an edge reveal of up to 1" maximum.<sup>5</sup>

PRODUCT	ACTUAL DENSITY	ALUMINUM FSP	ALL OTHER FACINGS
VersaBoard 35	3.5 pcf	≥ 2½"	≥ 3½"
VersaBoard 40	4.0 pcf	≥ 2"	≥ 3"
VersaBoard 60	6.0 pcf	≥ 1½"	≥ 2"
VersaBoard 80	8.0 pcf	≥ 1"	≥ 1½"

- Recycled Content Options<sup>6</sup>:
  - EPA Choice Fiber (U.S. Government Buildings).....Minimum 75%
  - Standard Fiber.....70%

5 Edges may be taped.

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

## 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.

## 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.com](http://www.owenscorning.com).

## Certifications and Sustainable Features

- <sup>1</sup>Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at [icc-es.org](http://icc-es.org).
- Environmental Product Declaration (EPD) has been certified by UL Environment. For more information, visit [ul.com/epd](http://ul.com/epd).
- VersaBoard® products have a published Health Product Declaration (HPD).



## 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.

LEED® is a registered trademark of the U.S. Green Building Council.

Green Globes® is a registered trademark of Green Building Initiative, Inc.

UL® and the UL® logo are trademarks of UL LLC.

## Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

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

**888-TFIBER1 [834-2371]**  
[www.owenscorning.com/thermafiber](http://www.owenscorning.com/thermafiber)