



THERMAFIBER® VERSABOARD® MINERAL WOOL INSULATION

Thermafiber® VersaBoard® multi-purpose insulation provides an outstanding combination of fire-resistive characteristics, acoustical and 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
- Mineral wool is non-combustible as tested to ASTM E136
- Easy to fabricate
- Can reduce greenhouse gas emissions through conserving energy
- Minimum 70% recycled content¹
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

Standards, Codes Compliance

- ASTM C612, Mineral Fiber Block and Board Thermal Insulation, unfaced and for both FSP facings available, excluding black mat:
 - VersaBoard® 35: Type 1A
 - VersaBoard® 40: Types IA, IB, II, III, IVA
 - VersaBoard® 60: Types IA, IB, II, III, IVA, IVB
 - VersaBoard® 80: Types IA, IB, 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 | Pass |
| 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 ² |
| VersaBoard® 35 | 0.24 | 4.2 |
| VersaBoard® 40, 60, 80 | 0.23 | 4.3 |

² 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

For product density and sizing recommendations based on the application, please contact your local Owens Corning Area Sales Manager.

| PRODUCT | AVAILABLE THICKNESS IN 1/2" INCREMENTS | STANDARD DIMENSIONS ^{3,4} |
|----------------|--|------------------------------------|
| VersaBoard® 35 | 1.5"-7" | 16" x 48", 24" x 48" |
| VersaBoard® 40 | 1"-8" | 16" x 48", 24" x 48" |
| VersaBoard® 60 | 1"-8" | 16" x 48", 24" x 48" |
| VersaBoard® 80 | 1.5"-5" | 16" x 48", 24" x 48" |
| Tolerances | +¼", -1/8" | Width: ±1/8", Length: ±½" |

- ³ See our product guide for more details.
⁴ Custom sizes are available upon request.

Product Options

For facing recommendations based on product density and sizing recommendations and based on the application, please contact your local Owens Corning Area Sales Manager.

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

| 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 | ≥ 1½" | ≥ 1½" |

- Recycled Content Options⁶:
 - 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.

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).*



Disclaimer of Liability

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

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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>.

* https://hpdrepository.hpd-collaborative.org/repository/HPDs/446_Thermafiber_VersaBoard_Mineral_Insulation.pdf

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