



Thermafiber® UltraBatt™ Mineral Wool Thermal Batt Insulation

PRODUCT FEATURES

Description

Mineral wool thermal batt insulation.

Basic Uses/Related Uses

Thermal batt insulation for use within various wood and steel framed exterior wall, ceiling and floor construction assemblies. For a complete list of R-values and thicknesses offered, see Sizes and R-values. UltraBatt™ can be used as a thermal barrier for foamed plastics, certified to CAN/ULC-S124.

Selection Criteria

- Enhances thermal performance
- 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)

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

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 C518 | Standard Test Methods for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus |
| 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 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 |

Performance Criteria

| | | |
|-------------------|---|---|
| Compliance | Evaluation Listing No. 14059-L Type I Type I | CCMC CAN/ULC-S702 ASTM C665 |
| Thermal | See Sizes and R-values | ASTM C518 |
| Fire | Non-Combustible Non-Combustible Smoulder Resistance Mean Mass Loss ≤ 0.02% Flame Spread 0; Smoke Developed 0 Flame Spread 0; Smoke Developed 0 Class A - min. 138 mm (5.5") 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 Fungi Resistance - Pass | ASTM C1104 ASTM C1338 |
| Corrosion | Austenitic Steel - Non-corrosive Steel, Aluminum, Copper - Non-corrosive | ASTM C795 ASTM C665 |

Sizes and R-values

| Thickness | RSI (m ² ·K/W) | R-value (hr·ft ² ·°F/Btu) | Width | Length |
|----------------------------------|---------------------------|--------------------------------------|------------------------------|---------------|
| Wood-framed applications | | | | |
| 89 mm (3.5") | 2.5 | 14 | 381 mm (15") 584 mm (23") | 1194 mm (47") |
| 140 mm (5.5") | 3.9 | 22 | | |
| 146 mm (5.75") | 4.2 | 24 | | |
| 180 mm (7.1") | 4.9 | 28 | | |
| 203 mm (8.0") | 5.6 | 32 | | |
| Steel-framed applications | | | | |
| 64 mm (2.5") | 1.8 | 10 | 406 mm (16") 610 mm (24") | 1219 mm (48") |
| 89 mm (3.5") | 2.5 | 14 | | |
| 152 mm (6.0") | 4.0/4.2 | 22.5/24 | | |

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

Packaging is not UV resistant. Shelter unused packages from the elements.

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.





Thermafiber® UltraBatt™

Mineral Wool Thermal Batt Insulation



PRODUCT PROPERTIES

Materials

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

PRODUCT PLACEMENT

Installation

- Install in accordance with Thermafiber® insulation installation instructions as shown on packaging.
- Batts are typically installed friction-fit between framing members in wall and floor assemblies.
- Batts should be butted tight at joints, filling all voids, do not over compress.
- Cut insulation with a serrated knife for custom fitting.

Coverage

| RSI (m ² -K/W) | R-value (hr-ft ² -°F/Btu) | Batts per Bag | Width | Coverage per Bag | |
|---|--------------------------------------|---------------|--------------|------------------|---------|
| | | | | sq. m. | sq. ft. |
| Wood-framed applications: 1194 mm (47") Length | | | | | |
| 2.5 | 14 | 5 | 381 mm (15") | 2.27 | 24.5 |
| | | | 584 mm (23") | 3.49 | 37.5 |
| 3.9/4.2 | 22/24 | 4 | 381 mm (15") | 1.82 | 19.6 |
| | | | 584 mm (23") | 2.79 | 30.0 |
| 4.9/5.6 | 28/32 | 3 | 381 mm (15") | 1.36 | 14.7 |
| | | | 584 mm (23") | 2.09 | 22.5 |

| RSI (m ² -K/W) | R-value (hr-ft ² -°F/Btu) | Batts per Bag | Width | Coverage per Bag | |
|--|--------------------------------------|---------------|--------------|------------------|---------|
| | | | | sq. m. | sq. ft. |
| Steel-framed applications: 1219 mm (48") Length | | | | | |
| 1.8 | 10 | 8 | 406 mm (16") | 3.96 | 42.7 |
| | | | 610 mm (24") | 5.95 | 64.0 |
| 2.5 | 14 | 5 | 406 mm (16") | 2.47 | 26.7 |
| | | | 610 mm (24") | 3.72 | 40.0 |
| 4.0/4.2 | 22.5/24 | 4 | 406 mm (16") | 1.98 | 21.3 |
| | | | 610 mm (24") | 2.97 | 32.0 |

Technical Services Available

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



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