



THERMAFIBER® SAFB™ MINERAL WOOL INSULATION

Thermafiber® SAFB™ (Sound Attenuation Fire Blankets) are mineral wool batts designed to provide acoustical control and fire protection in many UL® fire-rated wall and floor-ceiling assemblies. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, mildew-resistant, and vermin-resistant. SAFB™ resists temperatures over 1,093°C (2,000°F) and can add points to STC for walls and floor-ceiling assemblies. SAFB™ can be installed in both steel stud and wood-framed construction.

Features

- Exceptional sound and noise absorption
- Adds STC value to wall and floor-ceiling assemblies
- Provides fire containment in rated assemblies
- Fire-resistant to temperatures above 1,093°C (2,000°F)
- See UL file R4739 for fire rated assembly listings
- Minimum 70% recycled content¹
- Mold-resistant²
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

² Tested per ASTM C1338, Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings, ASTM International.

Standards, Codes Compliance

- CAN/ULC-S702.1, Standard for Mineral Fiber Thermal Insulation for Buildings³
- NFPA 101, Class A-rated interior finish
- Fire Rated Design
 - ULC Classification Code: BZJZC
 - UL Classification Code: BZJZ

³ Complies to all physical properties in CAN/ULC-S702.1 with the exception of thermal resistance and resistivity which is not measured.

Performance Criteria

COMPLIANCE	CCMC Evaluation Listing No. 14059-L Type 1	CCMC CAN/ULC-S702.1
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Additional Performance Information

PROPERTY	VALUE	TEST METHOD
Corrosion of Steel, Aluminum, and Copper	Type I	ASTM C665
Stress Corrosion - Austenitic Stainless Steel	Pass	ASTM C795
Non-Combustibility	Complies	CAN/ULC-S114
	Non-combustible	ASTM E136
Water Vapour Sorption	Sorption less than 1% by volume	ASTM C1104
Surface Burning Characteristics	Flame Spread 0, Smoke Developed 0	CAN/ULC-S102
	Flame Spread 0, Smoke Developed 0	ASTM E84
Smoulder Resistance - Mean Mass Loss	≤ 0.02%	CAN/ULC-S129
Density	40 kg/m³ (2.5 lbs/ft³) SAFB™ product < 38 mm (1.5"), 64 kg/m³ (4.0 lbs/ft³)	Nominal
Fungi Resistance	Pass	ASTM C1338

Acoustical Performance

TESTED TO ASTM C423 SOUND ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (Hz)

	THICKNESS	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
40 kg/m³ (2.5 pcf) Nominal Density	51 mm (2")	0.34	0.61	1.07	1.09	1.07	1.10	0.95
	76 mm (3")	0.51	0.99	1.18	1.03	0.99	0.96	1.05
	102 mm (4")	0.83	1.19	1.27	1.12	1.12	1.13	1.20
	152 mm (6")	1.37	1.32	1.23	1.16	1.12	1.12	1.20

ASTM E 90	Airborne Sound Transmission Loss
ASTM E 413	Rating Sound Insulation
ASTM C 423	Sound Absorption Coefficients

Availability

PRODUCT	AVAILABLE THICKNESS IN 13 mm (1/2") INCREMENTS	STANDARD DIMENSIONS ^{4,5}
SAFB™ 2.5 40 kg/m³ (2.5 lbs/ft³)	38 mm - 178 mm (1.5" - 7")	406 mm x 1219 mm (16" x 48"), 610 mm x 1219 mm (24" x 48")
SAFB™ 4.0 64 kg/m³ (4.0 lbs/ft³)	25 mm (1")	406 mm x 1219 mm (16" x 48"), 610 mm x 1219 mm (24" x 48")
Tolerances	+6 mm (¼"), - 3 mm (-⅜")	Width: -0 +6 mm (¼"), Length: ±13 mm (½")

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

Installation

- Interior Stud Cavity – Friction-fit SAFB™ securely between studs. Butt ends of blankets closely together and fill all voids.
- Creased SAFB™ – Using SAFB™ 25 mm (1") wider than regular blankets, bow the blankets slightly to fit into stud cavity. Slit the blankets vertically 25 mm (1") deep with a utility knife down the center.
- Floor-Ceiling – Friction-fit SAFB™ securely between floor joints.
- Ceiling Overlayment – Lay SAFB™ over ceiling panels, extending 1219 mm (48") beyond all partitions. Tightly fit around all hangers, obstructions, and penetrations.

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.
- SAFB™ products have a published Health Product Declaration (HPD).



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.ca or www.owenscorninglibrary.ca.

Technical Services Available

For Canadian Technical inquiries, please contact our technical team at www.owenscorning.ca/contacttech.

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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>.

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