



# THERMAFIBER® SAFB™ FF FORMALDEHYDE-FREE MINERAL WOOL INSULATION

Thermafiber® SAFB™ (Sound Attenuation Fire Blankets) Formaldehyde-Free mineral wool insulation is a solution for architects, specifiers, and contractors interested in achieving green building standards and using products that exclude red list<sup>1</sup> materials like formaldehyde. Thermafiber® SAFB™ FF batts provide excellent acoustical control and fire protection in interior walls and floor/ceiling fire-rated assemblies, and are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, and mold-resistant. The new formaldehyde-free Thermafiber® light-density products are especially appropriate for applications in education, health care, and other institutions committed to indoor air quality. SAFB™ FF can be installed in both steel-stud and wood-framed construction.



1 Reference Cradle to Cradle Innovation Institution banned list and Living Building Challenge red list.

## Features

- Formaldehyde-free
- 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 2,000 °F (1,093 °C)
- Minimum 70% recycled content<sup>2</sup>
- Conserves energy, reduces greenhouse gas emissions
- Mold-resistant<sup>3</sup>
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

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

## Standards, Code Compliance

- NFPA 101, Class A-rated interior finish

## Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Type I
Non-Combustibility	ASTM E136	Non-Combustible
Non-Combustibility	CAN/ULC S114	Complies
Water Vapor Sorption	ASTM C1104	Sorption less than 1% by volume
Surface Burning Characteristics	ASTM E84	Flame Spread 0, Smoke Developed 0
Surface Burning Characteristics	CAN/ULC S102	Flame Spread 0, Smoke Developed 0
Fungi-Resistance	ASTM C1338	Complies
UL Formaldehyde-Free		Validated
GREENGUARD		Gold Certified

## Acoustical Performance

Coefficients at Frequencies per ASTM C423

	THICKNESS	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
2.5 pcf SAFB™ Density	2"	0.34	0.61	1.07	1.09	1.07	1.10	0.95
	3"	0.51	0.99	1.18	1.03	0.99	0.96	1.05
	4"	0.83	1.19	1.27	1.12	1.12	1.13	1.20
	6"	1.37	1.32	1.23	1.16	1.12	1.12	1.20

## Availability

NOMINAL DENSITY	THICKNESS <sup>4</sup>	WIDTHS <sup>5</sup>	LENGTHS
2.5 pcf	1½"–7"	15", 16", 17", 23", 24", 25"	48"
4.0 pcf	1"	15", 16", 17", 23", 24", 25"	48"
Tolerances	+1/4"-1/8"	±1/8"	±1/2"

4 Thicknesses are available in ½-inch increments.

5 15-inch and 23-inch are recommended widths for wood-framed construction.

## Installation

- Interior Stud Cavity — Friction-fit SAFB™ securely between studs. Butt ends of blankets closely together and fill all voids.
- Creased SAFB™ — Using SAFB™ 1 inch wider than regular blankets, bow the blankets slightly to fit into stud cavity. Slit the blankets vertically 1 inch 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 48 inches beyond all partitions. Tightly fit around all hangers, obstructions, and penetrations.

## Product Options

Recycled Content Options<sup>2,6</sup>:

- EPA Choice Fiber  
(U.S. Government Buildings) .....Minimum 75%
- Standard Fiber .....70%

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

## Certifications and Sustainable Features

- <sup>2</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).
- UL® Environment GREENGUARD Gold Certified. GREENGUARD Gold Certified products are certified to GREENGUARD Gold standards for low chemical emissions into indoor air during product usage, and are qualified for use in environments such as schools and health care facilities. For more information, visit [ul.com/gg](http://ul.com/gg).
- Thermafiber® SAFB™ FF mineral wool insulation is participating in Declare and is Living Building Challenge-compliant. For more information, visit [living-future.org/declare](http://living-future.org/declare).
- This product receives SAFETY Act designation by the U.S. Department of Homeland Security. For more information, visit [safetyact.gov](http://safetyact.gov).
- 86% biobased content for unfaced product and 64% biobased content for faced product, certified by USDA BioPreferred® program.

## 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).

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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>.



Made in the USA

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

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