



THERMAFIBER® FIRE & SOUND GUARD® PLUS FF FORMALDEHYDE-FREE MINERAL WOOL INSULATION

Thermafiber® Fire & Sound Guard® Plus Formaldehyde-Free insulation batts are designed to provide excellent thermal performance, fire resistance, and noise control in residential and light commercial construction. The new formaldehyde-free Thermafiber® light-density products are especially appropriate for applications committed to indoor air quality. Thermafiber® Fire & Sound Guard® Plus FF insulation is non-combustible, non-corrosive, non-deteriorating, and mold-resistant.¹

¹ Tested per ASTM C1338, Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings, ASTM International.



Features

- Formaldehyde-free
- Designed for interior and exterior wall applications
- Energy-saving thermal insulation²
- Fire-resistant
- Minimum 70% recycled content⁴
- Easy to install
- Helps control moisture, resistant to mold¹
- Contributes to credits in several green building programs, such as LEED® and Green Globes®

² Savings vary. See Owens Corning publication "Thermafiber® Fire & Sound Guard® Plus™ Manufacturers Fact Sheet" (Pub No. 10021146) for more information.

Standards, Code Compliance

- NFPA 101, Class A-rated interior finish

Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Complies
Non-Combustibility	ASTM E136	Complies
Surface Burning Characteristics	ASTM E84	Unfaced, Flame Spread 5, Smoke Developed 5
Fungi Resistance	ASTM C1338	Complies
UL Formaldehyde-Free		Validated
GREENGUARD		Gold Certified

Availability

	R-VALUE ³	SIZES	PIECE/BAG	SQ FT./BAG
Wood Stud Applications	R-11	3" x 15" x 47"	10	48.96
		3" x 23" x 47"	8	60.06
	R-13	3.5" x 15" x 47"	8	39.20
		3.5" x 23" x 47"	8	60.06
	R-15	3.5" x 15" x 47"	8	39.20
		3.5" x 23" x 47"	8	60.06
	R-21	5.5" x 15" x 47"	6	29.37
		5.5" x 23" x 47"	6	45.04
	R-23	5.5" x 15" x 47"	5	24.48
		5.5" x 23" x 47"	5	37.53
R-30	7.1" x 15" x 47"	3	14.70	
	7.1" x 23" x 47"	3	22.50	
Steel Stud Applications	R-10	2.5" x 16" x 48"	8	42.70
		2.5" x 24" x 48"	8	64.00
	R-11	3" x 16" x 48"	10	53.33
		3" x 24" x 48"	8	64.00
	R-13	3.5" x 16" x 48"	8	42.67
		3.5" x 24" x 48"	8	64.00
	R-15	3.5" x 16" x 48"	8	42.67
		3.5" x 24" x 48"	8	64.00
	R-21	5.5" x 16" x 48"	6	32.00
		5.5" x 24" x 48"	6	48.00
	R-24	6" x 16" x 48"	4	21.30
		6" x 24" x 48"	4	32.00

³ R-value is a measure of insulating ability. "R" means resistance to heat flow. The higher the "R" value, the greater the insulation power.

Acoustical Performance

PRODUCT	THICKNESS	COEFFICIENTS AT FREQUENCIES PER ASTM C423						
		125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
R-10	2.5"	0.33	1.05	1.24	1.16	1.07	1.01	1.15
R-11	3"	0.51	0.99	1.18	1.03	0.99	0.96	1.05
R-13	3.5"	0.39	1.15	1.22	1.13	1.07	1.01	1.15
R-15	3.5"	0.51	1.28	1.21	1.13	1.07	1.03	1.15
R-21	5.5"	0.76	1.33	1.17	1.11	1.04	1.01	1.15
R-23	5.5"	0.71	1.26	1.14	1.10	1.04	1.02	1.15
R-24	6.0"	0.74	1.19	1.10	1.12	1.06	1.05	1.10
R-30	7.125"	0.79	1.15	1.15	1.10	1.07	1.04	1.10

Installation

- Measure & cut – Fire & Sound Guard® Plus FF insulation is easy to cut with a serrated knife for custom-fitting around electrical boxes, pipes, duct-work, wiring, or between non-standard studs and joists.
- Squeeze & insert – Fire & Sound Guard® Plus FF insulation is flexible and pliable; simply squeeze the sides to compress the insulation and insert into the desired wall.
- Release & expand – Once in place, Fire & Sound Guard® Plus FF insulation naturally expands to fill in the space, creating a snug, custom fit.

Product Options

- Available in standard widths for both wood and steel stud framing

Recycled Content Options:^{4,5}

- EPA Choice Fiber (U.S. Government Buildings)Minimum 75%
- Standard Fiber70%

⁵ Recycled content options other than standard must be specified at time of order.

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

- ⁴Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org.
- UL GREENGUARD Gold Certified. GREENGUARD Gold Certified products are certified to 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.
- UL validated formaldehyde-free certification. For more information, visit ul.com/ecv.
- Thermafiber® Fire & Sound Guard® Plus FF mineral wool insulation has a Declare Label that is Living Building Challenge Red-list Approved. For more information, visit living-future.org/declare.
- 86% biobased content for unfaced product and 64% biobased content for faced product, certified by USDA BioPreferred® program.
- Environmental Product Declaration (EPD) and Optimization Summary have been certified by UL Environment. For more information, visit ul.com/epd.
- Fire & Sound Guard® Plus products have a published Health Product Declaration (HPD).



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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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