



THERMAFIBER® FIRE & SOUND GUARD® PLUS MINERAL WOOL INSULATION

Thermafiber® Fire & Sound Guard® Plus mineral wool insulation is designed to provide excellent thermal, noise control, and fire resistance in residential and light commercial construction applications. Fire & Sound Guard® Plus can be used in a variety of applications, including interior and exterior walls, ceilings, basement walls, and crawl spaces. These products are non-combustible, moisture-resistant, 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

- Designed for interior and exterior wall applications
- Energy-saving thermal insulation²
- Exceptional sound and noise absorption
- Fire-resistant
- Easy to install

² Savings vary. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power.

Standards, Codes Compliance

- NFPA 101, Class A-rated interior finish
- ASTM C665, Mineral Fiber Thermal Insulation for Buildings, Type 1 Compliant

Design Considerations

To prevent fire or overheating of recessed light fixtures or similar electrical devices, do not insulate on top of or within 3 inches of such devices unless they are specifically approved to be covered by insulation (labeled with "IC" rating). Do not place insulation in air spaces surrounding metal flues, chimneys, or fireplaces. Provide minimum clearances specified in NFPA-31, NFPA-54, or NFPA-211, or as required by local building codes. For high efficiency appliances that use PVC pipe for exhaust and intake, follow that manufacturer's recommendations for insulating.

Physical Properties

PROPERTY	TEST METHOD	VALUE
Corrosion of Steel, Aluminum, and Copper	ASTM C665	Complies
Non-Combustibility	ASTM E136	Complies
Non-Combustibility	CAN/ULC S114	Complies
Water Vapor Permeance	ASTM E96	Unfaced, 50 perms as tested
Water Vapor Sorption	ASTM C1104	Sorption less than 1% by volume
Surface Burning Characteristics	ASTM E84	Unfaced, Flame Spread 0, Smoke Developed 0
Surface Burning Characteristics	CAN/ULC S102	Unfaced, Flame Spread 0, Smoke Developed 0
Fungi Resistance	ASTM C1338	Complies

Installation

- **Measure & cut** — Fire & Sound Guard® Plus 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 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 insulation naturally expands to fill in the space, creating a snug, custom fit.

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.

Product Options

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

Recycled Content Options⁴:

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

Formaldehyde-free product available. See Owens Corning publication "Thermafiber® Fire & Sound Guard® Plus Formaldehyde-Free Mineral Wool Insulation Data Sheet" (Pub. No. 10025220) for more information.

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

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

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

- Verified 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.
- Fire & Sound Guard(R) 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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