



# RESIDENTIAL/COMMERCIAL INSULATION & SYSTEMS FOR THERMAL & SOUND CONTROL



## FIBERGLASS INSULATION PRODUCTS

Guardian's fiberglass insulation is manufactured using today's state-of-the-art technology to provide the high thermal performance and excellent acoustical properties required for your applications.

The extensive line of fiberglass insulations are available in a wide range of densities and thicknesses, with R-values up to 49. They are available unfaced or faced to comply with code and moisture control requirements.

#### Contents:

- Thermal and Sound Control Batts
- Metal Building Insulation
- Attic Guard® Loose-fill insulation
- ATS® Spray Foam and Fiberglass Insulation
- Perfect R, and PurlinGlide FP®
- Flame Spread 25 Insulation
- Wall & Panel Insulation
- Ultra Fit DS® and AsureR® Spray-On Insulation
- SolarGuard™ Reflective Insulation, Energy Saver FP™ System,

## RESIDENTIAL/COMMERCIAL THERMAL AND SOUND CONTROL BATTS/ROLLS

Specifically designed for thermal protection. Aids in sound control. Kraft or foil-faced products are intended for use where a vapor retarder is required, and should not be left exposed. Unfaced is designed for use in walls, ceilings, and floors with or without a separate vapor retarder, if required by code. Installation should always be with the facing toward the warm-in-winter heated side. When used in ceilings, allow for ventilation between insulation and roof deck. Tested and certified to meet the GREENGUARD® indoor air quality standards.

### KRAFT & FOIL-FACED

R-value	Thickness	Width	Batts	Rolls
<b>R-49 K</b>	<b>15"</b>	<b>16"/24"</b>	•	
R-38 K/F	12"	16"/24"	•	
<b>R-38 K R-Best*</b>	<b>10½"</b>	<b>15"/23"</b>	•	
R-30 K/F	9½"	16"/24"	•	•
<b>R-30 K/F R-Best*</b>	<b>8½"</b>	<b>15"/23"</b>	•	
R-25	8½"	15"/23"	•	
R-22 K/F	7½"	15"/23"	•	
R-21 K/F <b>R-Best*</b>	<b>5½"</b>	<b>15"/23"</b>	•	
R-19 K/F	6¼"	all	•	•
R-15 K <b>R-Best*</b>	<b>3⅝"</b>	<b>15"/23"</b>	•	
R-13 K	3⅝"	all	•	•
R-11 K	3½"	all	•	•

Basement wall insulation 3½" x 48" x 70'6" and 3½" x 88" x 50' Foil or White Faced.

### UNFACED BUILDING INSULATION

R-value	Thickness	Width	Batts	Rolls
<b>R-49 K</b>	<b>15"</b>	<b>16"/24"</b>	•	
R-38	12"	16"/24"	•	
<b>R-38 R-Best*</b>	<b>10½"</b>	<b>15"/23"</b>	•	
R-30	9½"	16"/24"	•	*
<b>R-30 R-Best*</b>	<b>8½"</b>	<b>15"/23"</b>	•	
R-25	8½"	15"/23"	•	*
R-22	7½"	15"/23"	•	
R-21 <b>R-Best*</b>	<b>5½"</b>	<b>15"/23"</b>	•	
R-19	6¼"	all	•	*
<b>R-15 R-Best*</b>	<b>3⅝"</b>	<b>15"/23"</b>	•	
R-13	3⅝"	all	•	*
R-11	3½"	all	•	*
R-8	2⅝"	16"/24"	•	



### FATT BATT®

Fatt Batt® fiberglass insulation is the highest R-value batt available in the market - R-49 (15" Thick). FattBatt® fiberglass insulation is available kraft-faced or unfaced in dimensions of 24"x48" and 16"x48". It has an easy one-step application and eliminates the need to install multiple thickness of batts or additional loose fill installation for higher R-value specifications.

### STAPLE OPTIONAL® BATTS

A flexible fiberglass insulation batt with kraft facing. The product is designed to be installed in the stud cavity using the friction fit application or stapled using the kraft flanges. The friction fit application is recommended for vertical walls only. The kraft facing provides a vapor retarder membrane. Tested and certified to meet the GREENGUARD® indoor air quality standards.

Product Dimensions		Product Dimensions	
R-11K	15.25" x 93"	R-11K	15.25" x 105"
R-13K	15.25" x 93"	R-13K	15.25" x 105"
R-15K	15.25" x 93"	R-19K	15.25" x 105"
R-19K	15.25" x 93"	R-21K	15.25" x 93"

- Products tested in accordance with ASTM C 518 Thermal Transmission Properties, ASTM E 84 Surface Burning Characteristics, ASTM E 96 Water Vapor Transmission, ASTM C 1338 Fungi Resistance.
- Unfaced products have been tested and comply with ASTM C 665 Type I & ASTM E 84, Flame Spread: <5, Smoke Developed: <-5.
- Kraft faced products have been tested and comply with ASTM C 665, Type II - Class C.
- Foil-Faced products have been tested and comply with ASTM C 665, Type III - Class B & ASTM E 84. Flame Spread: <75, Smoke Developed: <150.



### FLAME SPREAD 25 INSULATION

Designed for use in both commercial and residential construction where a vapor retarder with a flame spread of 25 or less is required. It can be left exposed in low abuse areas in either metal or wood construction where codes permit. Tested and certified to meet the GREENGUARD® indoor air quality standards.

R-value	Thickness	Width	Batts	Rolls
R-30 <sup>1</sup>	9½"	16/24	•	*
R-19 <sup>2</sup>	6½"	16/24	•	*
R-13 <sup>2</sup>	3⅝"	16/24	•	*
R-11 <sup>2</sup>	3½"	16/24	•	*

<sup>1</sup> R-30 Batts, 48" Long      <sup>2</sup> R-19, R-13 & R-11 Batts, 96" Long

\* Made to order items only. Call for pricing and availability. This product has been tested and complies with ASTM C 665 & ASTM E 84. Flame Spread: <25, Smoke Developed: <50



### LOOSE-FILL BLOWING WOOL

Tested and certified to meet the GREENGUARD® indoor air quality standards. The alternative to blanket insulation. Designed for mineral fiber pneumatic blowing machines. To obtain specified R-values refer to the coverage chart on the bag. This product has been tested and complies with ASTM C 764 Type I, ASTM C 1374, ASTM E 136, ASTM E 84, Flame Spread: 0, Smoke Developed: <5.

### PERFECT FILL™ SYSTEM

Perfect Fill™ offers greater coverage per bag. Short fibers mean faster installation, and a smoother finished appearance. It has no formaldehyde, is non-corrosive, non-flammable and non-combustible. Virtually eliminates all gaps and voids. Typically 2-3 times more fiberglass in cathedral ceilings, walls, or floors compared to standard building insulation.





## SPRAY-ON INSULATION

Installed using state-of-the-art technology, these fiberglass spray-on insulation systems combine a specially designed fiberglass insulation with a water-activated powdered adhesive. This is sprayed into the wall cavity forming a seamless blanket of insulation in sidewalls. Because the system creates a monolithic seal in all the sidewalls, it significantly reduces costly voids and air gaps\*. Tested and certified to meet the GREENGUARD® indoor air quality standards.

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Nominal R-value	Thickness	Density	Bags per 1000 Square Feet	Min. Wt. Per Square Foot	Max. Coverage Per Bag
R-14	3½" ( 2 x 4 )	2.0	19.6	.58	51
R-22	5½" ( 2 x 6 )	2.0	31.2	.92	32
R-29	7¼" ( 2 x 8 )	2.0	41.7	1.21	24
R-37	9¼" ( 2 x 10 )	2.0	52.6	1.54	19
R-15	3½" ( 2 x 4 )	2.5	24.4	.73	41
R-23	5½" ( 2 x 6 )	2.5	38.5	1.15	26
R-31	7¼" ( 2 x 8 )	2.5	50.0	1.51	20
R-39	9¼" ( 2 x 10 )	2.5	66.7	1.93	15

This product has been tested and complies with ICBO ES ER-5437, Type I, ASTM C 1014 & C 764, ASTM E 136 for Noncombustibility, ASTM E 119 One Hour Fire Resistance, ASTM E 84 Fire Hazard Classification, Flame Spread: 0, Smoke Developed: <10. ASTM C 518 for thermal resistance and ASTM C 1338 does not promote fungus growth.

\* NOT INTENDED FOR EXPOSED APPLICATIONS

The ATS™ Insulation system is a combination of Handi-Foam® closed-cell polyurethane foam and Guardian Fiberglass Insulation. This state-of-the-art system increases thermal resistance and virtually eliminates air infiltration.



R-value	Framing Size	½" Handi-Foam® R-Value	Manufactured Batt R-Value	Installed Batt R-Value	Ultra Fit DS® / AsureR® R-Value
R-13	2 x 4	R-3	R-11	R-10	
R-15	2 x 4	R-3	R-13	R-12	
R-16	2 x 4	R-3			R-13
R-19	2 x 6	R-3	R-19	R-16	
R-22	2 x 6	R-3	R-21	R-19	
R-24	2 x 6	R-3			R-21
R-24	2 x 8	R-3	R-21	R-21	
R-32	2 x 8	R-3			R-29
R-33	2 x 10	R-3	R-30C	R-30C	
R-39	2 x 10	R-3			R-36
R-41	2 x 12	R-3	R-38C	R-38C	
R-48	2 x 12	R-3			R-45

<sup>1</sup> ½" Handi-Foam. Guardian Fiberglass products have been tested and comply with ASTM C 665. Fomo Handi-Foam® Magnum Two-Component Compliances: ASTM E 84 Class I, Flame Spread: <25, Smoke Developed: <200. See Fomo Technical Data Sheet for additional information.

## WALL AND PANEL INSULATION

Designed for use with standard metal panels, masonry walls, curtain wall assemblies and cavity walls.

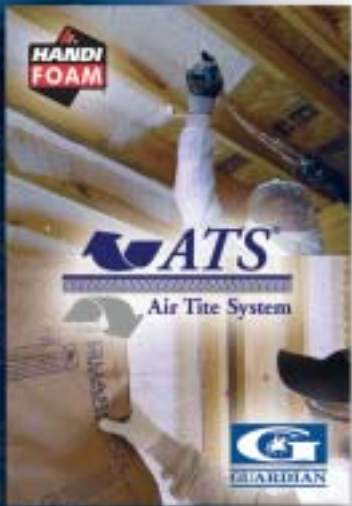
Type	Density	Thickness	Thermal
I	1.65	1½" - 4"	.235
II	2.25	1" - 4"	.23
III	3.0	1" - 4"	.23

This product has been tested and complies with ASTM C 612, Class I & II and ASTM E 84, Flame Spread: <25, Smoke Developed: <50.

## SOLARGUARD™ REFLECTIVE INSULATION

SolarGuard™ is a revolutionary new reflective insulation product that combines a high-performance fiberglass core with durable reinforced facing material on the exposed side and a reflective foil film on the back side. The materials used in SolarGuard™ offer the best fire performance of any reflective insulation material in the market today and top thermal performance.

SolarGuard™ has a mineral fiber (fiberglass) core and has been tested to the nations' most stringent and most current fire and thermal test standards. Both SolarGuard™ White and SolarGuard™ Foil products have passed the ASTM E 84 Tunnel Test (Flame Spread 25 or less, Smoke Developed 50 or less) in an unsupported condition. Additionally, SolarGuard™ White and SolarGuard™ RFSK have passed the UL1715 Corner Room Test. All tests were conducted by Omega Point Laboratories. This product is suitable for metal buildings and for use in residential construction.



## METAL BUILDING INSULATION

Faced metal building insulation is designed to fit between the structural steel and sheeting of pre-engineered and post frame buildings. It is furnished in custom length rolls and laminated with various facings, designed to meet the building's interior finish needs. Unfaced metal building insulation is designed for use in adding to a structure's thermal performance by the addition of one or more layers next to the interior layer of faced metal building insulation.

### FACED METAL BUILDING INSULATION (PRE-INSTALLED R-VALUES)

R-value	Nominal Thickness	Widths
N/A	Condensation Blanket	48, 72"
R-10	3"	36", 48", 60", 72"
R-11	3½"	36", 48", 60", 72"
R-13	4"	36", 48", 60", 72"
R-19	6"	36", 48", 60", 72"
R-25	8"	36", 48", 60", 72"
R-30	9½"	36", 48", 60", 72"

This product has been tested and complies with ASTM C 665, ASTM C 991, E 84 & C 553. Tested and Certified to meet the GREENGUARD® indoor air quality standards.

### UNFACED METAL BUILDING INSULATION

R-value	Nominal Thickness	Widths
R-10	3"	36", 48", 60", 72"
R-11	3½"	36", 48", 60", 72"
R-13	4"	36", 48", 60", 72"
R-19	6"	36", 48", 60", 72"
R-25	8"	36", 48", 60", 72"
R-30	9½"	36", 48", 60", 72"

This product has been tested and complies with ASTM C 665 & ASTM E 84. UL Listing BZJZ/BKNV Fire Restrictive Design. Tested and Certified to meet the GREENGUARD® indoor air quality standards.



### INSULATION & LEADING EDGE FALL PREVENTION SYSTEM

The affordable and efficient way to insulate metal buildings with a state-of-the-art insulation system and provide leading edge fall prevention at the same time.

- Vapor Retarder acts as the Fall Prevention
- Efficient/productive one step process
- Reduces seams by 70% (compared to 6' laminated)
- Works on all sizes and types of metal buildings
- Compliant with OSHA Fall Prevention Standards

PurlinGlide <sup>FP</sup> UNFACED FIBERGLASS INSULATION*	
R-20 Thru R-30	Double Layer Insulation
R-19	6"
R-16	5"
R-13	4"
R-11	3½"
R-10	3"

\*Pre-installed R-values



### ENERGY SAVER FP SYSTEM™

The Energy Saver FP System consists of a bright white support fabric, a network of straps (painted galvanized banding), and fiberglass blanket insulation. Each piece of the support fabric is custom made to fit a specific location (roof or wall) within the building. High R-values are achieved by filling the purlin depth with uncompressed blanket insulation. The insulation is positioned on (or to the outside of) the fabric in various combinations of R-values, depending on the project requirements and available space. Our most popular roof system consists of two layers of fiberglass; one installed directly on top of the fabric (parallel with the purlins), while the second layer is positioned perpendicular to the purlins (minimizing conductive heat transfer from the purlins to the roof panels). In a single layer system, the fiberglass is installed on the fabric and thermal spacer blocks (optional component) are positioned on the purlins. The Energy Saver FP System provides leading edge fall protection, excellent condensation control, is bright, durable and requires little maintenance.



### PERFECT R

The Perfect "R" insulation system is a highly efficient method of applying metal building insulation to pre-engineered buildings using a vapor retarder (facing) machine which attaches the facing to the top of roof purlins, trusses or joists. Perfect "R" may be used as a single-layer or two-layer system. When utilized as a two-layer system, the bottom layer is applied between the purlins and a second layer of insulation is applied across the top of the purlins. The Sky-Web II® system, which provides passive restraint that protects workers from falls by providing a web of nylon mesh that is attached to the perimeter of the roof's secondary structural members, must be used when installing a two layer system.

Because Perfect "R" tapes the facing seams and places them directly over the purlins, a continuous vapor retarder is maintained throughout the roof to provide maximum protection against condensation. Also, since the seams are on top of the purlins, there are no visible stapled or lapped joints giving the building interior a seamless look. In addition to these advantages, the Perfect "R" system can be installed in higher-wind conditions than conventional faced insulation blankets because the facing is taped to the purlins.



### FOR MORE INFORMATION

- Residential Products: (800) 748-0035
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