



GUARDIAN
BUILDING PRODUCTS
FIBERGLASS INSULATION



ATTIC
GUARD[®]
PREMIUM
LOOSE-FILL FIBERGLASS INSULATION

ATTIC GUARD® means comfort and savings*

It's here - the thermally efficient, cost effective way to protect your home investment from continually rising fuel and energy costs. **ATTIC GUARD®** Premium 100% virgin white fiberglass insulation is now available to make your home a more comfortable place to live. Its premium quality provides consistent thermal performance, and looks great at the same time. Insulating those difficult areas in your home becomes easier using **ATTIC GUARD®** loose-fill insulation.

ATTIC GUARD® is free of bonding agents. It's non-corrosive, non-combustible, non-flammable

and pest resistant. Additionally, there is no formaldehyde in the product. Plus, like all Guardian fiberglass products, **ATTIC GUARD®** is backed by our unconditional customer satisfaction guarantee. So, whether you're building your dream home or improving an existing home's thermal performance, **ATTIC GUARD®** is the perfect insulation solution for you. It's designed to excel in providing the thermal performance homes need today...and tomorrow. Protect your energy bills both summer and winter.

What you should know about R-values

Insulation is specified by its thermal resistance or R-value. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

The amount of insulation needed depends mainly on climate, type of heating (gas, oil, electricity) used, and the area of the house insulated.

The U.S. Dept. of Energy has established minimum recommended insulation R-values for six distinct parts of the country, or insulation zones.

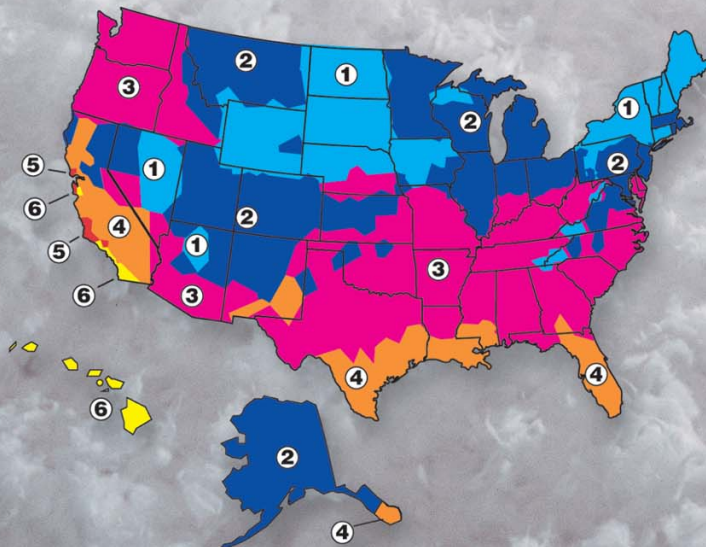
U.S. Department of Energy Recommendations For New Homes

FIND YOUR ZONE ON THE MAP

Determine your insulation zone by locating your city or town on the map provided below.

FIND THE R-VALUES FOR YOUR ZONE

If you live on the border between two zones, choose the higher rather than the lower values.



Insulation Zone	Gas	Heat Pump	Fuel Oil	Electric Furnace	Attic	Wall ^(A)	Floor	Crawl Space ^(B)	Basement
1	✓	✓	✓		R-49	R-18	R-25	R-19	R-11
2	✓	✓	✓	✓	R-49	R-28	R-25	R-19	R-19
3	✓	✓	✓	✓	R-49	R-18	R-25	R-19	R-11
4	✓	✓	✓	✓	R-49	R-18	R-25	R-19	R-11
5	✓	✓	✓	✓	R-38	R-13	R-11	R-13	R-11
6	✓	✓	✓	✓	R-38	R-13	R-13	R-19	R-11

(A) R-18, R-22 and R-28 exterior wall systems can be achieved by either cavity insulation or cavity insulation with insulating sheathing.

For 2" x 4" walls, use either R-15 or R-13 fiberglass with insulating sheathing.

For 2" x 6" walls, use either R-21 or R-19 fiberglass insulation.

(B) Insulate crawlspace walls only if the crawlspace is dry all year, the floor above is not insulated, and all ventilation to the crawlspace is blocked. A vapor retarder (e.g., 4- or 6-mil polyethylene film) should be installed on the ground to reduce moisture migration into the crawlspace.

NOTE: For more information see: DOE Insulation Fact Sheet (DOE/CE-0180). Energy Efficiency and Renewable Energy Clearinghouse, P.O. Box 3048, Merrifield, VA 22116, www.ornl.gov

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

Meets GREENGUARD® Indoor air quality standards



Indoor air quality is a growing concern with today's tighter construction practices for homes and buildings. The importance of using healthy, low emitting products and materials is a major component in maintaining safer, healthy indoor environments.

The GREENGUARD Certification Program™ was founded to establish a true third party certification based on proven emissions criteria used by the State of Washington, the U.S. Environmental Protection Agency, OSHA and the World Health

Organization to implement an indoor air quality (IAQ) management plan that addresses all factors potentially impacting IAQ. These include emissions from construction materials, indoor furnishings, and processes such as cleaning and operation of office equipment.

ATTIC GUARD® loose-fill insulation, as well as the other Guardian building insulations are tested and certified to meet the tough GREENGUARD® IAQ standards. This gives you the assurance that by using ATTIC GUARD® you are assured of excellent IAQ performance.

Attic coverage information

ATTIC GUARD®					GR00AG
R-VALUE	BAGS PER 1000 SQ. FT.	MAXIMUM NET COVERAGE	MINIMUM WEIGHT PER SQ. FT.	INITIAL INSTALLED THICKNESS	MINIMUM SETTLED THICKNESS
R-60	40.00	25 SF	1.105 LBS	21.50"	21.50"
R-49	31.25	32 SF	0.865 LBS	18.00"	18.00"
R-44	27.77	36 SF	0.771 LBS	16.25"	16.25"
R-38	23.25	43 SF	0.659 LBS	14.25"	14.25"
R-30	17.85	56 SF	0.504 LBS	11.50"	11.50"
R-26	15.62	64 SF	0.436 LBS	10.25"	10.25"
R-22	12.98	77 SF	0.362 LBS	9.00"	9.00"
R-19	10.98	91 SF	0.307 LBS	8.00"	8.00"
R-13	7.57	132 SF	0.213 LBS	5.50"	5.50"
R-11	6.49	154 SF	0.181 LBS	4.75"	4.75"

Bag Weight: nominal 28 LBS., minimum 26 LBS. For pneumatic application only. Not for exposed applications. Insulation should not be installed over eave vents. Thermal resistance values are determined in accordance with ASTM C 687 and ASTM C 518. This product meets or exceeds the requirements of ASTM C 764 Type 1 and ASTM C 1374.

ATTIC GUARD® - WALL & FLOOR RETROFIT APPLICATION					GR00AG
R-VALUE	STUD/JOIST THICKNESS	BAGS PER 1000 SQ. FT.	MAXIMUM NET COVERAGE	MIN. WEIGHT PER FT ² .	MIN. WEIGHT PER FT ² .
66	16.00"*	105.2	9.5 SF	2.93 LBS	2.20 LBS
58	14.00"*	91.7	10.9 SF	2.57 LBS	2.20 LBS
49	11.88"*	78.1	12.8 SF	2.18 LBS	2.20 LBS
39	9.50"*	62.1	16.1 SF	1.74 LBS	2.20 LBS
38	9.25"	61.0	16.4 SF	1.70 LBS	2.20 LBS
30	7.25"	47.6	21.0 SF	1.33 LBS	2.20 LBS
22	5.50"	36.1	27.7 SF	1.01 LBS	2.20 LBS
14	3.50"	22.9	43.7 SF	0.64 LBS	2.20 LBS

*Engineered I-joists. Closed cavity applications can be difficult to judge material usage during installation since the fiberglass is compression filled in the cavity. Make sure you are monitoring material usage as the job progresses, so that the proper number of bags are being installed. For pneumatic application only. Not for exposed applications. Insulation should not be installed over eave vents. Thermal resistance values are determined in accordance with ASTM C 687 and ASTM C 518. This product meets or exceeds the requirements of ASTM C 764 Type 1 and ASTM C 1374.

Minnesota loose-fill insulation requirements

MINNESOTA LOOSE-FILL INSULATION REQUIREMENTS

The manufacturer recommends that **ATTIC GUARD®** loose-fill fiberglass insulation be installed to the specific weights and coverages listed in the **ATTIC GUARD®** coverage chart and the Winter Design Insulation Requirements chart (below) with pneumatic equipment

to comply with Minnesota Rules Chapter 7670.0260 Section 102.3 ("Minnesota Rules") effective September 7, 1992. The chart below indicates the extra insulation which must be installed to obtain label R-values at winter design temperature conditions.

MINNESOTA WINTER DESIGN INSULATION REQUIREMENTS

Winter Design Temperature (Degrees F)	R-38		R-44		R-50	
	Extra Depth (Inches)	Extra Bags Per 1000 Sq. Ft.	Extra Depth (Inches)	Extra Bags Per 1000 Sq. Ft.	Extra Depth (Inches)	Extra Bags Per 1000 Sq. Ft.
-17°	0"	0	0"	0	.5"	1.2
-25°	.5"	1	1"	2	1.5"	3.2

MINNESOTA WINTER DESIGN TEMPERATURES*

Albert Lea	-17°	Faribault	-17°	Rochester	-17°
Alexandria	-22°	Fergus Falls	-21°	St. Cloud	-15°
Bemidji	-31°	International Falls	-29°	Virginia	-25°
Brainerd	-20°	Mankato	-17°	Wilmar	-15°
Duluth	-21°	Minneapolis/St. Paul	-16°	Winona	-14°

*99% Winter Design Temperatures from 1989 ASHRAE Handbook of Fundamentals.

ATTIC GUARD® product attributes

- * Non-corrosive
- * Non-flammable
- * Non-combustible
- * Pest Resistant
- * Pure Glass Fibers
- * No Bonding Agents
- * No Formaldehyde

Premium quality - consistent coverage makes **ATTIC GUARD®** one of the best and easiest to install loose-fill insulations on the market today!

Customer satisfaction - **ATTIC GUARD®**, like all Guardian fiberglass products, is backed by our unconditional guarantee of complete customer satisfaction.



GUARDIAN
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