

ATTICGUARD[®] PLUS

PREMIUM LOOSE-FILL FIBERGLASS INSULATION



OPEN ATTIC COVERAGE

R-Value	Bags Per 1000 Ft ²	Maximum Coverage Per Bag	Minimum Density Lbs per Ft ²	Thickness Initial Installed	Thickness Minimum Settled
R-60	34.9	29 SF	1.141	20.75"	20.75"
R-49	26.9	37 SF	0.887	17.25"	17.25"
R-44	23.8	42 SF	0.787	15.50"	15.50"
R-38	20.2	49 SF	0.668	13.50"	13.50"
R-30	15.5	65 SF	0.510	10.875"	10.875"
R-26	13.3	75 SF	0.438	9.625"	9.625"
R-22	10.9	92 SF	0.360	8.375"	8.375"
R-19	9.2	109 SF	0.303	7.375"	7.375"
R-13	6.3	159 SF	0.207	5.00"	5.00"
R-11	5.3	190 SF	0.173	4.25"	4.25"

For pneumatic application only. This product is designed to be installed using appropriate machines. The machine settings supplied by the manufacturer for this equipment should be used carefully in order to get optimum results. The equipment must be designed for fiberglass and has to have an effective shredding section, a controlled feed section and sufficient air volume to achieve the desired result.

To achieve stated R-values, the insulation must be installed at these minimal thicknesses and maximum coverages. Failure to install both the required bags and at least the minimum thickness will lower R-value. Net coverage includes framing. Not for exposed applications. Insulation should not be installed over eave vents or near light fixtures or other heat generating devices. Nominal bag weight - 33 lbs.

CLOSED CAVITY COVERAGE

R-Value	Thickness	Framing	Minimum Density per Ft ²	Bags per 1000 Ft ²	Min. Wt. Lbs. per Ft ²	Max. Cov. Ft ² . Per Bag
R-15	3.50	2 x 4	2.0	17.7	0.58	56.6
R-24	5.50	2 x 6	2.0	27.8	0.92	36.0
R-31	7.25	2 x 8	2.0	36.6	1.21	27.3
R-40	9.25	2 x 10	2.0	46.7	1.54	21.4
R-51	11.875	Eng. I-Joist	2.0	60.0	1.98	16.7
R-60	14.00	Eng. I-Joist	2.0	70.7	2.33	14.1
R-69	16.00	Eng. I-Joist	2.0	80.8	2.67	12.4

Closed cavity applications can be difficult to judge material usage during installation since 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. **This product meets or exceeds the requirements of ASTM C 764 Type 1.**

R-VALUE INFORMATION

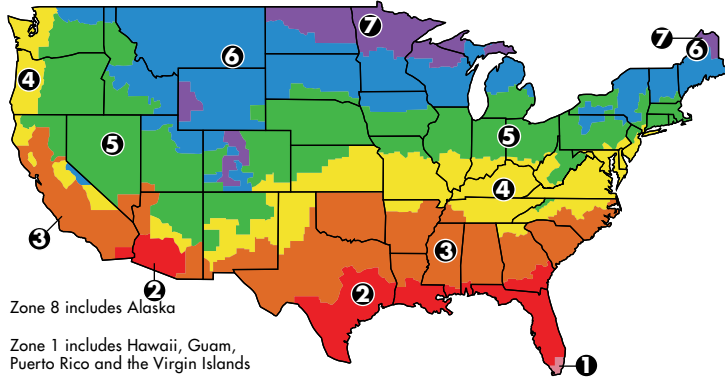
Insulation is specified by its thermal resistance or R-value. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

The amount of insulation you need depends mainly on climate, type of heating/air conditioning (gas, oil, electricity) you use, and the area of the house you plan to insulate.

The U.S. Dept. of Energy has established minimum recommended insulation R-values for 8 distinct parts of the country, or insulation zones.

FIND THE R-VALUES FOR YOUR ZONE.

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



R-VALUES FOR NEW WOOD-FRAMED HOUSES

Insulation Zone	Heating System	Attic	Cathedral Ceiling	Wall		Floor
				Cavity	Insulation Sheathing	
1	All	R-30 to R-49	R-22 to R-28	R-13 to R-15	None	R-13
2	Gas, Oil, Heat Pump, Electric Furnace	R-30 to R-60	R-22 to R-38	R-13 to R-15	None	R-13 R-19 to R-25
3	Gas, Oil, Heat Pump, Electric Furnace	R-30 to R-60	R-22 to R-38	R-13 to R-15	None	R-25
4	Gas, Oil, Heat Pump, Electric Furnace	R-38 to R-60	R-30 to R-38	R-13 to R-15	R-2.5 to R-6 R-5 to R-6	R-25 to R-30
5	Gas, Oil, Heat Pump, Electric Furnace	R-38 to R-60	R-30 to R-38 R-30 to R-60	R-20 R-20	R-2.5 to R-6 R-5 to R-6	R-25 to R-30
6	All	R-49 to R-60	R-30 to R-60	R-20	R-5 to R-6	R-25 to R-30
7 & 8	All	R-49 to R-60	R-30 to R-60	R-21	R-5 to R-6	R-38

R-VALUES FOR EXISTING WOOD-FRAMED HOUSES

Insulation Zone	Add Insulation To Attic		Floor
	Uninsulated Attic	Existing 3-4 Inches Of Insulation	
1	R-30 to R-49	R-25 to R-30	R-13
2	R-30 to R-60	R-25 to R-38	R-13 to R-19
3	R-30 to R-60	R-25 to R-38	R-19 to R-25
4	R-38 to R-60	R-38	R-25 to R-30
5	R-49 to R-60	R-38 to R-49	R-25 to R-30
6	R-49 to R-60	R-38 to R-49	R-25 to R-30
7 & 8	R-49 to R-60	R-38 to R-49	R-25 to R-30

WALL INSULATION: WHENEVER EXTERIOR SIDING IS REMOVED ON AN -

Uninsulated wood-frame wall:

- Drill holes in the sheathing and blow insulation into the empty wall cavity before installing the new siding
- Zones 3-4: Add R-5 insulative wall sheathing beneath the new siding
- Zones 5-8: Add R-5 to R-6 insulative wall sheathing beneath the new siding.

Insulated wood-frame wall:

- Zones 4 to 8; Add R-5 insulative sheathing before installing the new siding.

MINNESOTA LOOSE-FILL INSULATION REQUIREMENTS

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

Winter Design Temperatures - 99% Winter Design Temperatures from ASHRAE handbook of fundamentals

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

It is recommended that Attic Guard® PLUS be installed to the specific weights and coverages listed in the Attic Guard PLUS coverage chart and the Winter Design Insulation Requirements below with Pneumatic Equipment to comply with Minnesota Rules Chapter 7670.0260 Section 102.3.



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