

ULTRAFIT^{DS}[®] Spray-On Insulation System **PLUS**

SYSTEM FEATURES INCLUDE:

- Contains Water-Activated Adhesive
- 2-3 Times More Fiberglass*
- Reduced Air Infiltration*
- Improved R-Values*
- Excellent STC Ratings
- Non-Corrosive
- Class A Fire Rating

*Compared to standard 3 1/2", R-11 or R-13 blanket insulation when UltraFitDS[®] PLUS is installed in accordance with all bag label specifications.



SIDEWALL COVERAGE INFORMATION

R-VALUE NOMINAL	THICKNESS	DENSITY	BAGS PER 1000 FT ²	MIN. WEIGHT PER FT ²	MAXIMUM COVERAGE PER BAG
To obtain a thermal resistance (R) of:	Installed insulation should not be less than: (inches)	Pounds per foot ³	Bags per 1000 ft. ² of net area	Pounds per ft. ²	Content of bag should not cover more than: (ft. ²)
R-14	3.50" (2x4)	1.9	17.5	0.55	57
R-22	5.50" (2x6)		27.5	0.87	36
R-29	7.25" (2x8)		36.2	1.15	28
R-37	9.25" (2x10)		46.2	1.46	22
R-15	3.50" (2x4)	2.2	21.5	0.64	47
R-23	5.50" (2x6)		33.7	1.01	30
R-31	7.25" (2x8)		44.4	1.33	23
R-39	9.25" (2x10)		56.7	1.70	18

Nominal bag weight 32 lbs. For pneumatic application only. Insulation should not be installed over eave vents. Compliances on back.

READ THIS BEFORE YOU BUY

What You Should Know About R-values

The chart (above) shows the nominal R-values of this insulation. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, your fuel use patterns and family size.

To achieve the desired R-value, it is essential that insulation be installed according to Guardian Fiberglass specifications.

R-VALUE INFORMATION

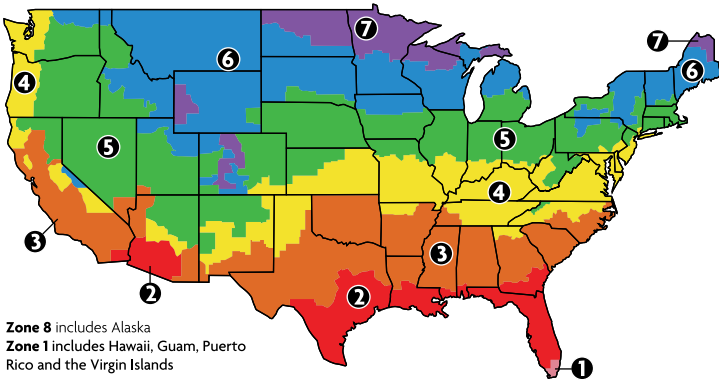
Insulation is specified by its thermal resistance or R-value. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

The amount of insulation you need depends mainly on climate, type of heating (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-13 to R-15 R-13 to R-21	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-13 to R-21	R-5 to R-6	R-25 to R-30
7 & 8	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30

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.

VAPOR RETARDERS

Guardian recommends the installation of an interior vapor retarder in conjunction with the application of UltraFitDS PLUS in climate zones 5, 6 and 7.

- Independent laboratory testing of UltraFitDS PLUS shows a significant reduction in air infiltration through the wall cavity vs. typical fiberglass batts. Water vapor is primarily carried by air, so a reduction in air movement into the wall cavity means there will be a reduction in water vapor movement into the cavity as well.

In locations where local building codes require the installation of a vapor retarder, the installed UltraFitDS PLUS should set a minimum of 24 hours, and be dry to not more than 15% moisture content before installing a vapor retarder. The use or creation of simultaneous interior and exterior (double) vapor retarders should be avoided. The placement of vapor retarders is highly dependent on geographical location and the type of climate. **Local building code officials should always be consulted and their recommendations followed on this issue.**

COMPLIANCES:

- ICC ES ER-5437
- Type 1, ASTM C 1014-88 and ASTM C 764
- CCMC 13315-R
- Non-combustible, as determined by ASTM E 136
- Non-corrosive
- Surface Burning Characteristics in accordance with ASTM E 84
 - Flame Spread Index of 25 or less
 - Smoke Developed 50 or less
- Thermal Resistance values determined in accordance with ASTM C 518
- Inorganic - Does not promote or support fungus growth in accordance with ASTM C 1338

UltraFitDS® PLUS technology is covered by one or more of the following U.S. Patents:	5,641,368	5,947,646	6,047,518
UltraFitDS® PLUS technology is also covered by the following Canadian Patents:	5,666,780	5,952,418	
	5,921,055	5,984,590	
		2,181,295	2,226,341
		2,204,685	

UltraFitDS® PLUS is not intended for use in exposed applications.

see us at
Sweets.com



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