

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



SIDEWALL COVERAGE

R-Value Nominal	Thickness	Density	Bags Per 1000 Ft ²	Minimum Weight Per Sq. Ft.	Maximum Coverage Per Bag
To obtain a thermal resistance (R) of:	Installed Insulation shall not be less than (inches)	Pounds per ft ³	Bags per 1,000 ft ² of net area	Pounds per ft ²	Contents of bag should not cover more than: (ft ²)
R-14	3.50" (2x4)	1.6	14.7	0.47	68
R-22	5.50" (2x6)		23.1	0.73	43
R-29	7.25" (2x8)		30.5	0.97	33
R-37	9.25" (2x10)		38.9	1.23	26
R-15	3.50" (2x4)	1.9	18.5	0.55	54
R-24	5.50" (2x6)		29.1	0.87	34
R-31	7.25" (2x8)		38.4	1.15	26
R-40	9.25" (2x10)		49.0	1.46	20

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

VAPOR RETARDERS

The installation of an interior vapor retarder in conjunction with the application of UltraFitDS[®] PLUS is recommended 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.**

R-VALUE INFORMATION

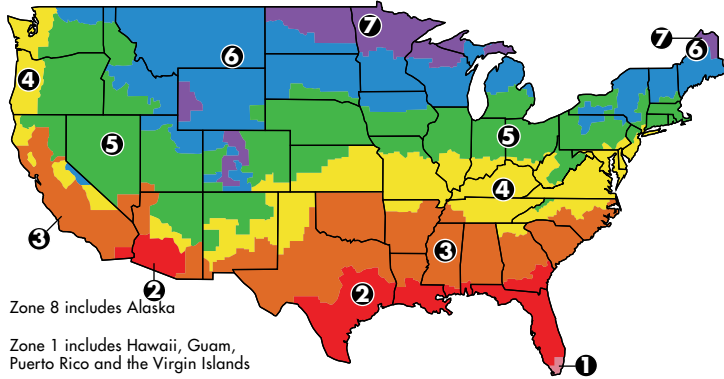
Insulation is specified by its thermal resistance or R-value. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

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.

COMPLIANCES

- IAPMO ER 0339
- Type 1, ASTM C 1014
- 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 0
 - Smoke Developed 0
- 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 is not intended for use in exposed applications.

UltraFitDS® PLUS technology is covered by one or more of the following U.S. Patents:	5,641,368	5,947,646
	5,666,780	5,952,418
	5,921,055	5,984,590
		6,047,518

UltraFitDS® PLUS technology is also covered by the following Canadian Patents:	2,181,295
	2,204,685
	2,226,341



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