

InsulSafe® SP Fiber Glass Blowing Insulation for Minnesota

Stated R-values are as measured in accordance with FTC regulations. Depending on installed density, thickness, attic framing and presence of batt insulation, R-values may be reduced at cold temperatures due to convective air movement in the insulation. At winter design conditions, the cold temperature R-value loss of InsulSafe® SP Fiber Glass Insulation in Minneapolis, MN, for example, is 2% at R-49 (CertainTeed's recommended R-value for Minnesota) and 0% at R-38. As another example, in Bemidji, MN, the R-value loss of InsulSafe SP at winter design conditions is 18% at R-49 and 16% at R-38. R-values are determined in accordance with ASTM C 687 and C 518. This insulation conforms to ASTM C 764 as Type I insulation and ASTM C1373 Standard Practice for Determination of Thermal Resistance of Attic Insulation Systems Under Simulated Winter Conditions.

"Winter design conditions" refers to the temperature that has been equaled or exceeded 99% of the winter; by definition, temperatures colder than design conditions occur only 1% of the time in winter. Thus, the average winter temperature is much warmer than the winter design temperature. For example, Minneapolis, with a winter design temperature of -16°F, has an average winter temperature of 16°F.

Homeowner Name / Jobsite Name

Home Address

Installer/Contractor (sign)

Company Name

Date

Builder (sign)

Company Name

Date

Inspected By (sign if required)

Date

STANDARD COVERAGE CHART FOR USE AT WINTER REGION TEMPERATURES OF -15°F TO +75°F

R-VALUE	MINIMUM BAGS PER 1000 SQ. FT.	MAXIMUM NET SQ. FT. PER BAG COVERAGE	MINIMUM WEIGHT LBS. PER SQ. FT.	MINIMUM INSTALLED THICKNESS	MINIMUM SETTLED THICKNESS
To obtain a Thermal Resistance (R) of:	Bags per 1000 sq. ft. of net area:	Contents of bag will not cover more than: (sq. ft.)	Weight per sq. ft. of installed insulation will not be less than: (lbs.)	Installed insulation will not be less than: (in.)	Minimum settled thickness will not be less than: (in.)
60	28.9	34.5	0.897	21.75	21.75
49	23.5	42.6	0.727	18.25	18.25
44	20.8	48.0	0.646	16.50	16.50
38	17.9	55.7	0.556	14.50	14.50
30	13.8	72.5	0.427	11.50	11.50
26	11.8	84.8	0.366	10.00	10.00
22	9.9	101.4	0.306	8.50	8.50
19	8.6	116.2	0.267	7.50	7.50
13	5.9	170.4	0.182	5.25	5.25
11	5.0	200.5	0.155	4.50	4.50

R-values are determined in accordance with ASTM C687 and C518. Complies with ASTM C764 as Type 1 pneumatic application.

COLD CLIMATE COVERAGE TABLE - MINNESOTA

To maintain label R-values at winter design conditions in colder regions, extra insulation can be installed in accordance with this chart.

Winter Design Temperature Degrees F	R-30		R-38		R-44		R-49		R-60	
	Extra Depth: (in.)	Extra Bags Per 1000 Sq. Ft.	Extra Depth: (in.)	Extra Bags Per 1000 Sq. Ft.	Extra Depth: (in.)	Extra Bags Per 1000 Sq. Ft.	Extra Depth: (in.)	Extra Bags Per 1000 Sq. Ft.	Extra Depth: (in.)	Extra Bags Per 1000 Sq. Ft.
-16 to -19	0	0.0	0	0.0	0	0.0	1/2	0.9	1	1.9
-20 to -23	0	0.0	1/4	0.6	1	1.9	1-1/2	2.7	2	3.7
-24 to -28	0	0.0	1-3/4	2.7	2-1/4	4.0	2-3/4	4.9	3-1/4	5.8
-29 and colder	3/4	1.0	2-1/2	3.9	3-1/4	5.3	3-1/2	6.2	4	7.1

See Minnesota map and winter design temperatures chart for selected Minnesota cities on the back of this sheet.

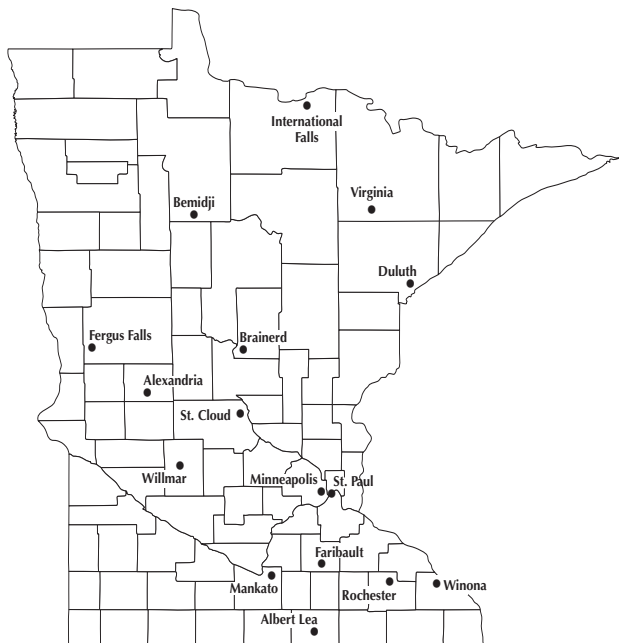
	R-VALUE	THICKNESS	NET AREA (SQ. FT.)	INSULSAFE SP FOR MINNESOTA	NUMBER OF BAGS USED
CEILINGS					
WALLS					
FLOORS					

THERMAL PERFORMANCE—ATTIC BLOWING APPLICATION

- In accordance with the chart above, you must install the minimum number of bags per 1,000 sq. ft. of net area for each R-value listed.
- The maximum net coverage must not exceed that specified for each R-value.
- The insulation must be installed at or above the specified installed thickness for each R-value.
- Failure to install the required minimum weight per square foot of insulation at or above the initial installed thickness will result in reduced R-value.
- This product should not be mixed with other blown insulations or the thermal claims will become invalid.

DANGER: RECESSED LIGHT FIXTURES—TO PREVENT OVERHEATING, DO NOT INSULATE ON TOP OR WITHIN 3" OF SUCH DEVICES. THIS WARNING DOES NOT APPLY TO TYPE IC LIGHT FIXTURES OR TO FLUORESCENT FIXTURES WITH THERMALLY PROTECTED BALLASTS.

COLD CLIMATE COVERAGE TABLE - MINNESOTA



Location	Temperature °F
Winona	-14
Willmar	-15
St. Cloud	-15
Minneapolis	-16
St. Paul	-16
Mankato	-17
Rochester	-17
Albert Lea	-17
Faribault	-17
Brainerd	-20
Duluth	-21
Fergus Falls	-21
Alexandria	-22
Virginia	-25
International Falls	-29
Bemidji	-31
Minnesota Energy Code Chapter 7672	

READ THIS BEFORE YOU BUY

What you should know about R-values.

The chart shows the R-value 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, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly.



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