



## Builders Statement

### 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 which 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 To obtain a Thermal Resistance (R) of:	BAGS PER 1,000 SQ. FT.  Bags per 1,000 sq. ft. of net area	MAXIMUM SQ. FT. PER BAG  Contents of bag should not cover more than: (sq. ft.)	MINIMUM WEIGHT POUNDS PER SQ. FT.  Of installed insulation should not be less than: (lbs.)	MINIMUM THICKNESS  Should not be less than: (in.)
60	31.4	31.9	0.972	22.00
49	25.2	39.7	0.780	18.50
44	22.4	44.6	0.695	16.75
38	19.1	52.5	0.591	14.50
30	14.9	67.1	0.462	11.75
26	12.8	77.9	0.398	10.25
22	10.8	92.9	0.334	8.75
19	9.3	107.4	0.289	7.75
13	6.2	161.7	0.192	5.25
11	5.3	190.5	0.163	4.50

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

To maintain label R-Values at Winter Design Conditions in colder regions, extra insulation can be installed in accordance with this chart.

Winter Design Temp. Degrees F	R-30		R-38		R-44		R-49		R-60	
	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.	Extra Depth, Inches	Extra Bags Per 1000 Sq. Ft.	Extra Depth, Inches	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

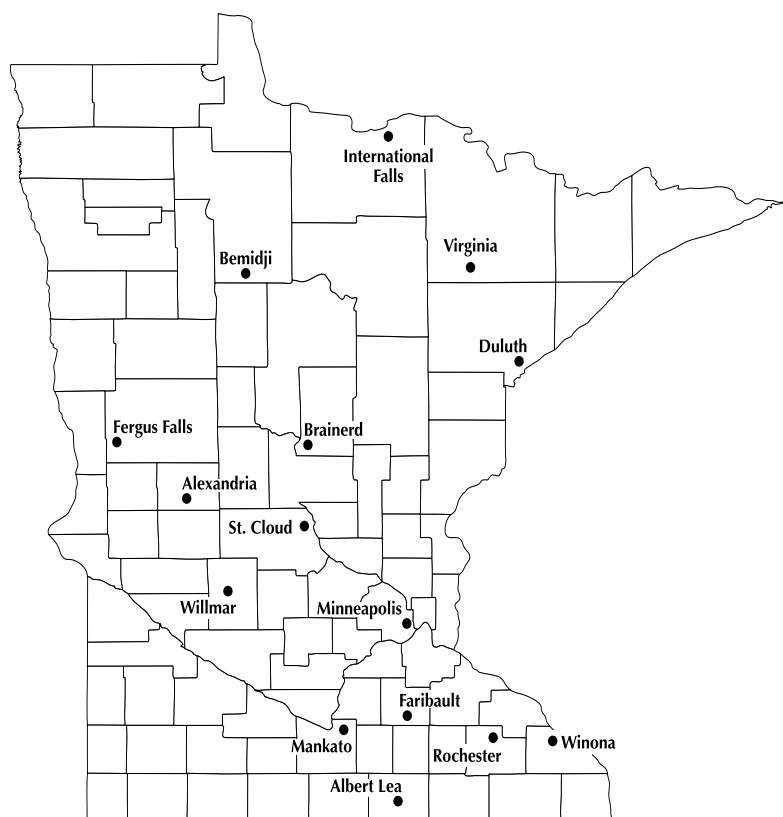
See Minnesota map and Winter Design Temperatures Chart for selected Minnesota cities on the back of this sheet.

	R-VALUE	THICKNESS	AREA (SQ. FT.)	INSULSAFE SP FOR MINNESOTA	BAGS USED	BATTS/ROLLS (✓)
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 installed insulation must be at or above the specified minimum installed thickness for each R-Value.
- Failure to install the required minimum weight per sq. ft. 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.
- R-Values are determined in accordance with ASTM C 687 and C 518. Complies with ASTM C 764 as Type I insulation. "R" means resistance to heat flow. The higher the R-Value, the greater the insulating power. To get the desired R-Value, it is essential that the insulation be installed properly.

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



## Winter Design Temperatures

R-Value	Temperature °F
Winona	-14
Willmar	-15
St. Cloud	-15
Minneapolis	-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 (Effective 4-15-00)