

## InsulSafe® SP Fiber Glass Blowing Insulation

### PRODUCT DESCRIPTION

**Basic Use:** InsulSafe® SP Fiber Glass Blowing Insulation is used in residential and commercial construction as a thermal and acoustical insulation. It is designed for pneumatic installation in open attic areas and for retrofitting enclosed sidewall and floor/ceiling construction assemblies.

**Benefits:** This product is noncombustible, noncorrosive and odor free. In addition, InsulSafe SP won't settle, contains no chemicals to cause mildew and fungus growth, contains no formaldehyde, provides no sustenance for vermin, contains no asbestos, won't rot or decay and won't absorb moisture.

**Composition and Materials:** InsulSafe SP is unbonded, white, virgin fiber glass.

**Limitations:** InsulSafe SP is designed for use at ambient temperatures in interior, weather-protected locations. Pneumatic installation equipment must have an effective shredding section, a uniform controlled feed system and adequate material/air flow capabilities. This product must be kept dry during shipping, storage and installation.

### INSTALLATION

Installation procedures and techniques must be as recommended by CertainTeed Corporation, using blowing machines approved for fiber glass insulation. Please refer to InsulSafe SP Installation Instruction Manual 30-24-302.

### AVAILABILITY AND COST

For availability and cost, contact your local contractor or distributor, or call CertainTeed Sales Support Group at 800-233-8990.

### WARRANTY

Refer to CertainTeed's Lifetime Limited Warranty for Fiber Glass Building Insulation (30-21-1321).

### MAINTENANCE

No maintenance required.

### TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling CertainTeed Sales Support Group at 800-233-8990.



<b>Product Name</b>	InsulSafe® SP Fiber Glass Blowing Insulation
<b>Manufacturer</b>	CertainTeed Corporation
<b>Address</b>	20 Moores Road Malvern, PA 19355
<b>Phone</b>	800-233-8990
<b>Website</b>	<a href="http://www.certainteed.com/insulation">www.certainteed.com/insulation</a>

### TECHNICAL DATA

#### Applicable Standards

- Model Building Codes:
  - ICC
  - New York City MEA 218-85M
  - New York State NYS UFPBC Article 15
  - California and Minnesota quality standards
- Material Standards:
  - ASTM C764, Mineral Fiber Loose-Fill Thermal Insulation Type 1 – Pneumatic Application Properties:
    - Thermal resistance — ASTM C518 and C687
    - Critical radiant flux — ASTM E970
    - Combustion characteristics — ASTM E136
    - Water vapor sorption — ASTM C1104
    - Odor emission — ASTM C1304
    - Corrosiveness — ASTM C764
    - Fungi resistance — ASTM C1338
    - GREENGUARD™ Gold Certified

#### Fire Resistance

- Fire Hazard Classification:
  - UL 723, ASTM E84
  - Max. Flame Spread Index: 5
  - Max. Smoke Developed Index: 5
- Noncombustibility:
  - ASTM E136 / Meets requirements

#### Thermal / Acoustical Properties

- Thermal Performance:
  - ASTM C518 and C687
  - Stated R-Value achieved at minimum thickness and minimum weights as stated within coverage chart(s).
- Acoustical Performance:
  - ASTM E90 and E413
  - The same STC ratings obtained with fiber glass blanket insulation can be estimated to be achieved by InsulSafe SP. Refer to CertainTeed's Guide for Residential Sound Control brochure (30-29-121).

#### Quality Assurance

CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001:2000 and ISO 14001:2004 standards.

## OPEN ATTIC APPLICATION

The following thermal performance values are achieved at the thicknesses, weights and coverages specified when insulation is installed with pneumatic equipment in a horizontal open blow application.

### COVERAGE CHART

When properly installed with pneumatic equipment in attic horizontal open blow, the following thermal performance is achieved at the thicknesses, weights and coverages specified:

R-VALUE	NO. BAGS PER 1,000 SQ. FT. NET AREA	MAXIMUM NET COVERAGE	MINIMUM WEIGHT	INITIAL INSTALLED THICKNESS	MINIMUM SETTLED THICKNESS
To obtain thermal resistance (R) of:	No. of bags	Contents of bag should not cover more than: (sq. ft.)	Weight per sq. ft. of installed insulation should not be less than: (lbs./sq. ft.)	Installed insulation should not be less than: (inches)	Installed insulation should not be less than: (inches)
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

For Minnesota installations, refer to our InsulSafe SP Minnesota Builders Statement (publication 30-24-303)

Initial installed thickness testing per ASTM C1374 using Unisul VoluMatic III; 3rd gear; 12-inch gate opening; 150-ft. x 3-inch diameter internally corrugated blowing hose, 2.0 psi., 10-14 foot arc length.

## CLOSED CAVITY (WALLS, FLOORS, CEILINGS) RETROFIT APPLICATIONS

The following thermal performance values are achieved at the thicknesses, weights and coverages specified when insulation is installed with pneumatic equipment in closed wall, floor and ceiling cavities.

### INSULSAFE SP BLOWN-IN-BLANKET CLOSED CAVITY

CAVITY FRAMING INSTALLED THICKNESS	INSTALLED R-VALUE	INSTALLED DESIGN DENSITY	MAXIMUM COVERAGE PER PACKAGE	MINIMUM PACKAGES PER AREA	BAG WEIGHT 31 LBS MINIMUM WEIGHT PER UNIT AREA
In.	(hr-ft <sup>2</sup> -°f)/btu	lbs/ft <sup>3</sup>	net ft <sup>2</sup>	#/1,000 ft <sup>2</sup>	lbs./ft <sup>2</sup>
3 1/2" (2x4)	14	1.2	88.6	11.3	0.350
3 1/2" (2x4)	15	1.6	66.4	15.1	0.467
5 1/2" (2x6)	22	1.2	56.4	17.7	0.550
5 1/2" (2x6)	23	1.4	48.3	20.7	0.642
5 1/2" (2x6)	24	1.8	37.6	26.6	0.825
7 1/4" (2x8)	29	1.2	42.8	23.4	0.725
7 1/4" (2x8)	31	1.6	32.1	31.2	0.967
9 1/4" (2x10)	38	1.4	28.7	34.8	1.079
9 1/4" (2x10)	40	1.8	22.3	44.8	1.388
11 1/4" (2x12)	45	1.2	27.6	36.3	1.125
11 1/4" (2x12)	48	1.6	20.7	48.4	1.500
13 1/4" (2x14)	55	1.4	20.1	49.9	1.546
13 1/4" (2x14)	56	1.5	18.7	53.4	1.656



Cert. #00048

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