

UltraComfort™ Fiber Glass Blowing Insulation

PRODUCT DESCRIPTION

Basic Use: UltraComfort 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, UltraComfort 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: UltraComfort is unbonded, white, virgin fiber glass.

Limitations: UltraComfort is designed for use at ambient temperatures in interior, weather-protected locations. 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 UltraComfort Installation Instructions.

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.



Product Name	UltraComfort™ Fiber Glass Blowing Insulation
Manufacturer	CertainTeed Corporation
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Website	www.certainteed.com/insulation

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® Children & Schools 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 UltraComfort. Refer to CertainTeed's Guide for Residential Sound Control brochure (30-28-008).

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					
R-VALUE	BAG REQUIREMENTS	MAXIMUM COVERAGE	MINIMUM WEIGHT	MINIMUM INSTALLED THICKNESS*	MINIMUM SETTLED THICKNESS
To obtain a thermal resistance (R) of:	Number of bags per 1000 sq. ft. of net area:	Contents of bag shall not cover more than: (sq. ft.)	Weight per sq. ft. of installed insulation shall not be less than: (lbs./sq. ft.)	Should not be less than: (in.)	Should not be less than: (in.)
R-11	5.7	176.9	0.167	4.90	4.90
R-13	6.6	150.5	0.196	5.70	5.70
R-19	9.9	101.5	0.291	8.20	8.20
R-22	11.3	88.3	0.334	9.30	9.30
R-26	13.4	74.7	0.395	10.80	10.80
R-30	15.5	64.5	0.457	12.30	12.30
R-38	19.8	50.5	0.584	15.20	15.20
R-44	23.1	43.4	0.680	17.30	17.30
R-49	25.8	38.8	0.761	19.00	19.00
R-60	32.1	31.2	0.947	22.75	22.75

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

*Minimum Installed Thickness: When using the TrueComfort blowing machine and 2-1/2-inch diameter x 100-foot internally corrugated blowing hose. Based upon 29.5-lb. package net weight.

OPEN ATTIC APPLICATION FOR MINNESOTA AND OTHER NORTHERN STATES

The following chart is a requirement for the state of Minnesota and a recommendation for other northern states.

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

COVERAGE CHART										
WINTER DESIGN TEMPERATURES 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	1/2	0.8	1	1.8
-20 to -23	0	0	1/4	0.4	0	1.6	1-1/2	2.5	2	3.5
-24 to -28	0	0	1-3/4	2.7	2-1/4	3.6	2-3/4	4.6	3-1/4	5.8
-29 and colder	3/4	1.1	2-1/2	3.9	3-1/4	5.3	3-1/2	5.9	4	7.2

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. Based on a design density of 2.0 lb./ft³.

COVERAGE CHART				
R-VALUE	BAG REQUIREMENTS.	MAXIMUM COVERAGE	MINIMUM WEIGHT	CONSTRUCTION CAVITY TYPE
To obtain a thermal resistance (R) of:	Number of bags per 1000 sq. ft. of net area:	Contents of bag shall not cover more than: (sq. ft.)	Weight per sq. ft. of installed insulation shall not be less than: (lbs./sq. ft.)	Width by length (depth)
R-15	19.8	50.6	0.583	2 X 4 (3.5)
R-23	31.1	32.2	0.917	2 X 6 (5.5)
R-31	41.0	24.4	1.208	2 X 8 (7.25)



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