

UltraComfort™ Fiber Glass Blowing Insulation

1. PRODUCT NAME

UltraComfort™ Fiber Glass Blowing Insulation

2. MANUFACTURER

CertainTeed Corporation
P.O. Box 860

Valley Forge, PA 19482-0105

Phone: (610) 341-7000

(800) 233-8990

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3. 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, decay or absorb moisture.

Composition and Materials: UltraComfort is an unbonded, white, virgin fiber, loose-fill fiber glass insulation designed for pneumatic application.

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.

4. TECHNICAL DATA

Applicable Standards:

- Model Building Codes:
 - (ICC International Code Council)
 - (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

Fire Resistance:

- Fire Hazard Classification:
 - (UL 723, ASTM E84)
 - Max. Flame Spread Index — 5
 - Max. Smoke Dev. 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 in 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.

Quality Assurance: Many of our manufacturing plants are registered to ISO 9001-2000 standards.



5. 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.

6. AVAILABILITY AND COST

Distributed and sold throughout the United States. For availability and cost, contact your local Territory Manager, contractor or distributor, or call CertainTeed Sales Support Group in Valley Forge, PA at (800) 233-8990.

7. MAINTENANCE

No maintenance required.

8. TECHNICAL SERVICES

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

9. FILING SYSTEMS

Additional product information is available upon request.

COVERAGE CHART— 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.

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.

*Initial 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.

COVERAGE CHART— 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.

Winter Design Temperature 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	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

Winona (-14), Willmar (-15), St. Cloud (-15), Minneapolis (-16), Mankato (-17), Rochester (-17), Albert Lee (-17), Faribault (-17), Brainerd (-20), Duluth (-21), Fergus Falls (-21), Alexandria (-22), Virginia (-15), Albert Lea (-29), Bemidji (-31)

COVERAGE CHART— 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.

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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