

OPTIMA® Loose-Fill Fiber Glass Insulation for Closed Cavity Applications

PRODUCT DESCRIPTION

Basic Use: The OPTIMA® system of fiber glass blow-in insulation is designed for installation in sidewalls, cathedral ceilings, floored attics and other closed cavity applications. It is pneumatically installed behind non-woven OPTIMA fabric (or equivalent).

This product is approved for use in the Blow-In-Blanket® System (BIBS®). OPTIMA fiber glass blowing insulation is used in residential and commercial construction as a thermal and acoustical insulation.

Benefits: This product is noncombustible, noncorrosive and odor free. In addition, OPTIMA 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: OPTIMA is unbonded, white, virgin fiber glass.

Limitations: The product is designed for use at ambient temperatures in interior, weather-protected locations. Pneumatic equipment must have an effective shredding section, a uniform control feed system and adequate material/air flow capabilities. Product should be kept dry during shipping, storage and installation. Not to be used for open blow applications.

INSTALLATION

Installation procedures and techniques must be as recommended by CertainTeed Corporation, using blowing machines approved for fiber glass insulation. Refer to OPTIMA Installation Guide (30-24-290).

AVAILABILITY AND COST

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

WARRANTY

Refer to CertainTeed's Lifetime Limited Insulation Warranty for OPTIMA (30-24-271).

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	OPTIMA® Loose-Fill Fiber Glass Insulation for Closed Cavity Applications
Manufacturer	CertainTeed Corporation
Address	P.O. Box 860 Valley Forge, PA 19482-0105
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Website	www.certainteed.com/insulation

TECHNICAL DATA

Applicable Standards

- Model Building Codes:
 - ICC Model Building Codes including BOCA, ICBO and SBCCI
 - 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:
 - ASTM E84 and CAN/ULC S102.2
Max. Flame Spread Index: 25
Max. Smoke Developed Index: 50
- Noncombustibility:
 - ASTM E136 / Meets requirements

Thermal / Acoustical Properties

- Thermal Performance:
 - ASTM C687
The stated R-Values in the closed cavity, sidewall, cathedral ceiling and floored attic charts on other side are achieved at weights and coverages specified when insulation is installed with pneumatic equipment in accordance with CertainTeed recommendations.
- Acoustical Performance:
 - The same STC ratings obtained with fiber glass blanket insulation can be estimated for OPTIMA®. Request CertainTeed's Sound Control guide (30-28-008) for more information on the subject.

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.

OPTIMA® Loose-Fill Insulation is manufactured for closed cavity application installed behind OPTIMA Fabric or equivalent. It should not be used for open blow applications. Coverages are based on a nominal 28-lb. bag weight.

BIBS, SIDEWALLS, CATHEDRAL CEILINGS AND OTHER CLOSED CAVITIES — STANDARD DENSITY

COVERAGE CHART					
Thickness Inches	R-Value	Density (lbs. per cu. ft.)	Minimum Weight (lbs. per sq. ft.)	Bags per 1,000 Sq. Ft.	Maximum Sq. Ft. Coverage per Bag
3-1/2" (2 x 4)	15	1.8	0.525	18.8	53.3
5-1/2" (2 x 6)	23	1.8	0.825	29.5	33.9
7-1/4" (2 x 8)	30	1.8	1.088	38.8	25.7
9-1/4" (2 x 10)	39	1.8	1.388	49.6	20.2
11-1/4" (2 x 12)	47	1.8	1.688	60.3	16.6
13-1/4" (2 x 14)	56	1.8	1.988	71.0	14.1

FLOORED ATTICS, CLOSED CAVITIES — OPTIONAL DENSITIES

COVERAGE CHART					
Thickness Inches	R-Value	Density (lbs. per cu. ft.)	Minimum Weight (lbs. per sq. ft.)	Bags per 1,000 Sq. Ft.	Maximum Sq. Ft. Coverage per Bag
3-1/2" (2 x 4)	12	1.0	0.292	10.4	96.0
3-1/2" (2 x 4)	13	1.2	0.350	12.5	80.0
3-1/2" (2 x 4)	14	1.4	0.408	14.6	68.6
3-1/2" (2 x 4)	14	1.6	0.467	16.7	60.0
5-1/2" (2 x 6)	19	1.0	0.458	16.4	61.1
5-1/2" (2 x 6)	21	1.2	0.550	19.6	50.9
5-1/2" (2 x 6)	22	1.4	0.642	22.9	43.6
5-1/2" (2 x 6)	22	1.6	0.733	26.2	38.2
7-1/4" (2 x 8)	26	1.0	0.604	21.6	46.3
7-1/4" (2 x 8)	27	1.2	0.725	25.9	38.6
7-1/4" (2 x 8)	29	1.4	0.846	30.2	33.1
7-1/4" (2 x 8)	30	1.6	0.967	34.5	29.0
9-1/4" (2 x 10)	33	1.0	0.771	27.8	36.3
9-1/4" (2 x 10)	35	1.2	0.925	33.0	30.3
9-1/4" (2 x 10)	36	1.4	1.079	38.5	25.9
9-1/4" (2 x 10)	38	1.6	1.233	44.0	22.7

R-Values are determined in accordance with ASTM C687. Complies with ASTM C764 as Type 1 insulation. "R" means resistance to heat flow. The higher the R-Value, the greater the insulating power. To get the marked R-Value, it is essential that the insulation is installed properly following the recommendations of CertainTeed Corporation.



Cert. #00048

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