CertainTeed

Specification Sheet

OPTIMA®

Loose Fill Fiber Glass Insulation for Closed Cavity Applications in the BIBS-HP System

1. PRODUCT NAME

OPTIMA® Fiber Glass blowing insulation for use with OPTIMA Fabric in the OPTIMA system.

2. MANUFACTURER

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482-0105
Phone: (610) 341-7000
(800) 233-8990
Fax: (610) 341-7571
Fax-On-Demand: (800) 947-0057
Website: www.certainteed.com

3. 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.

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

Limitations: The product is designed for use at ambient temperatures in interior (weather protected) construction. 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.

4. TECHNICAL DATA

Applicable Standards:

- 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
- ASTM C764—Complies with Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation, as a Type I material.

Fire Resistance:

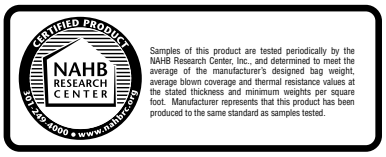
- Fire Hazard Classification:
  – (UL 723, ASTM E84)
  Max. Flame Spread Index; 5
  Max. Smoke Dev. Index; 5
- Noncombustibility:
  – (ASTM E136)
  Meets requirements

Physical/Chemical Properties:

- Thermal Performance:
  – (ASTM C687) The stated R-values in the closed cavity, sidewall, cathedral ceiling and floored attic charts on the back of this sheet are achieved at weights and coverages specified when insulation is installed with pneumatic equipment in accordance with CertainTeed recommendations. See tables on back page.

Sound Transmission Loss: 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 participates in the NAHB Research Center Certification and Labeling Program. CertainTeed was the first fiber glass insulation manufacturer to have its manufacturing plants, R&D center and corporate headquarters 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. Refer to OPTIMA Installation Guide (30-24-223).

6. 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.

7. WARRANTY

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

8. MAINTENANCE

No maintenance required.

9. 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.

10. FILING SYSTEMS

- Sweet's Catalog File 07210/CER
- CertainTeed Pub. No. 30-29-013
- Additional product information is available upon request.

Thermal Performance

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 that are compression filled.

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
2.5	10.5	1.8	0.375	13.4	75
3	12.6	1.8	0.45	16.1	62
4.5	19	1.8	0.675	24.1	41
5	21	1.8	0.75	26.8	37

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.

	2x4 Wood Stud Wall										
	Insulation Layer Thickness					Insulation Layer Thickness					Vapor Retarder Requirement
Climate Zone	CertaSpray CC SPF (inch)	CertaSpray R-Value*	OPTIMA (inch)	OPTIMA R-Value**	Hybrid Insulation Cavity R-value	CertaSpray CC SPF (inch)	CertaSpray R-Value*	OPTIMA (inch)	OPTIMA R-Value**	Hybrid Insulation Cavity R-value	
1a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	Unfaced
2a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	Unfaced
2b	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	Unfaced
3a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	Unfaced
3b	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	Unfaced
3c	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	Unfaced
4a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
4b	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
4c	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
5a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
5b	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
6a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
6b	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
7a	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
7b	1	5.8	2 1/2	10.5	16	1/2	2.9	3	12.6	15.5	MemBrain
8	Requires custom hygrothermal analysis.										NA

	2x6 Wood Stud Wall										
	Insulation Layer Thickness					Insulation Layer Thickness					Vapor Retarder Requirement
Climate Zone	CertaSpray CC SPF (inch)	CertaSpray R-Value*	High Density Fiber Glass (inch)	OPTIMA R-Value**	Hybrid Insulation Cavity R-value	CertaSpray CC SPF (inch)	CertaSpray R-Value*	High Density Fiber Glass (inch)	OPTIMA R-Value**	Hybrid Insulation Cavity R-value	
1a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	Unfaced
2a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	Unfaced
2b	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	Unfaced
3a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	Unfaced
3b	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	Unfaced
3c	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	Unfaced
4a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
4b	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
4c	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
5a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
5b	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
6a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
6b	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
7a	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
7b	1	5.8	4 1/2	18.9	25	1/2	2.9	5	21.0	24	MemBrain
8	Requires custom hygrothermal analysis.										N/A

* Tested in accordance with ASTM C518 and/or C177 at 75F (24C) mean Temperature

* Aged 90 days at 140F

** R-values are determined in accordance with ASTM C 687. Complies with ASTM C 764 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.

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