

## OPTIMA® Wall Insulation System

### 1. PRODUCT NAME

OPTIMA® Wall Insulation System

### 2. MANUFACTURER

CertainTeed Corporation

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### 3. PRODUCT DESCRIPTION

**Basic Use:** The OPTIMA system of fibre 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 fibre 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 fibre 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 must be kept dry during shipping, storage and installation. Not to be used for open blow applications.

### 4. TECHNICAL DATA

#### **Applicable Standards:**

- National Building Code
  - Article 9.25.2.2
- CCMC Evaluation Report No. 13272-R
- CAN/ULC-S702
- ICC Model Building Codes
- ASTM C764—Complies with Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation, as a Type I material.

#### **Fire Resistance:**

- Fire Hazard Classification:
  - CAN/ULC-S102 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 table 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.

**Sound Transmission Loss:** The same STC ratings obtained with fibre glass blanket insulation can be estimated for OPTIMA. Request CertainTeed's "A Guide for Residential Sound Control Using Fiber Glass Insulation" brochure (30-28-008) for more information on the subject.



### 5. INSTALLATION

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

### 6. AVAILABILITY AND COST

Distributed and sold throughout North America. 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 Limited Lifetime 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.

## 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, floored attics and other closed cavities that are compression filled.**

Cavity Size	Thickness		R-Value		Density		Minimum weight		Number of bags		Maximum coverage per bag	
	Inches	mm	R	RSI	lbs/ft <sup>3</sup>	kg/m <sup>3</sup>	lbs/ft <sup>2</sup>	kg/m <sup>2</sup>	Per 1,000 ft <sup>2</sup>	Per 100 m <sup>2</sup>	ft <sup>2</sup>	m <sup>2</sup>
2 x 4	3½	89	15	2.6	1.8	26.7	0.525	2.56	18.8	20.3	53	4.92
2 x 6	5½	140	23	4.1	1.8	26.7	0.825	4.03	29.5	31.7	34	3.16
2 x 8	7¼	184	30	5.3	1.8	26.7	1.088	5.31	38.8	41.4	26	2.42
2 x 10	9¼	235	39	6.9	1.8	26.7	1.388	6.78	49.6	53.8	20	1.86
2 x 12	11¼	286	47	8.3	1.8	26.7	1.688	8.24	60.3	63.3	17	1.58
2 x 14	13¼	337	56	9.9	1.8	26.7	1.988	9.71	71	76.9	14	1.30

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.



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