

# High-Performance Fiber Glass Building Insulation

## PRODUCT DESCRIPTION

**Basic Use:** High-Performance Fiber Glass Building Insulation batts are intended for use in walls and cathedral ceilings where maximum thermal and acoustical performance is desired and limited space is available.

**Benefits:** Installing High-Performance Fiber Glass Building Insulation is an easy, cost effective method to help conserve energy in the residential and commercial new construction, remodeling and re-insulation markets. In addition to its thermal properties, High-Performance Fiber Glass Building Insulation also provides excellent acoustical performance. It is compression packaged for ease of handling, and its broad availability of R-Values, sizes and facings ensures the right product for the job. The product resists mold and mildew and will not rot or deteriorate.



High-density sidewall batts are available in sizes to fit standard construction without loss of R-Value due to compression. High-density cathedral ceiling batts allow an airspace between the insulation and roof deck for ventilation.

High-density batts meet the energy-saving requirements of today's codes without requiring changes in construction techniques.

**Composition and Materials:** The product is composed of tan, uniformly textured, inorganic fibrous glass and formed with a formaldehyde-free binding agent.

**Limitations:** The National Electrical Code prohibits installation of any insulation over or within 3" (76 mm) of recessed light fixtures, unless approved insulated ceiling (IC) lighting fixtures are used.

Standard Kraft facing is flammable and should not be left exposed. Kraft faced insulation must be installed behind and in substantial contact with the unexposed surface of the ceiling, floor or wall finish. Special care should be taken when working with an open flame. Where a flame spread rating of 25 is required, insulation must be unfaced or have flame-resistant foil facing (FSK-25).

Because of potential skin irritation, unfaced building insulation should not be installed in an exposed application where it will be subject to human contact.

All building insulation should be kept dry. Wet fiber glass insulation will lose its effectiveness until it dries. Fiber glass will often dry naturally and regain its original R-Value. However, under conditions where the insulation will not dry thoroughly, it should be removed and allowed to dry or be replaced.

**Sizes:** Available standard sizes are listed in table on other side. Contact CertainTeed for non-standard sizes.

## INSTALLATION

**General:** For most areas, vapor retarders should be installed on the warm-in-winter side of the insulation (toward the interior). Check local practice and building codes. CertainTeed insulation is not intended to be installed with the facing placed toward the exterior of the building.

**Wood framing:** Studs – Faced insulation fits between wood studs with flanges stapled either to the faces or sides of the studs. Pull flanges taut while stapling every 8" to 12" (203-305 mm) to prevent gaps. Unfaced, rigid fit insulation is pressure fitted between studs.

Ceiling Joists (Attics) – Faced insulation is placed between joists with vapor retarder facing down. Flanges can be stapled to bottom faces or sides of joists if insulation is installed before ceiling finish. Only unfaced insulation is installed over existing insulation.

<b>Product Name</b>	High-Performance Fiber Glass Building Insulation
<b>Manufacturer</b>	CertainTeed Corporation
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<b>Website</b>	<a href="http://www.certainteed.com/insulation">www.certainteed.com/insulation</a>

## TECHNICAL DATA

### Applicable Standards

- Model Building Codes:
  - ICC
  - California and Minnesota Quality Standards
- Material Standards:
  - ASTM C665, Type I, Unfaced
  - ASTM C665, Type II, Class C, Category 1, Kraft Faced
- GREENGUARD® Children & Schools Certified

### Fire Resistance

- Fire Hazard Classification:
  - ASTM E84
    - Unfaced insulation: Max. Flame Spread Index: 25; Max. Smoke Developed Index: 50;
    - Kraft Faced insulation: Not rated for flame spread/smoke developed
- Noncombustibility:
  - ASTM E136
    - Unfaced insulation / Pass

### Physical/Chemical Properties

- Thermal Performance:
  - ASTM C518 / R-Values for insulation only, as stated in table on other side.
- Water Vapor Sorption:
  - ASTM C1104 / ≤ 5%
- Water Vapor Permeance:
  - Permeance of Kraft Facing: ASTM E96, Desiccant method
  - Unperforated facing / ≤ 1.0 perm (57 ng/Pa•s•m<sup>2</sup>)
  - Class II vapor retarder

### 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.

**Floor Joists** – Faced insulation with the vapor retarder facing up and in contact with the subfloor above. All insulation must be supported between joists with wire supports or by lacing wire across joists.

**Cathedral Ceilings** – Faced insulation with vapor retarder facing down is stapled between the rafters. A vented 1" air space is recommended between the insulation and roof sheathing. If unfaced insulation is used, a separate vapor retarder may be required. Always check with local practice and building codes.

**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 Insulation 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 in Valley Forge, PA at 800-233-8990.

**HIGH-PERFORMANCE BATTS**

AVAILABLE SIZES					
R-Value		Thickness		Width	
R	RSI	in.	mm	in.	mm
15	2.6	3 1/2	89	15, 15 1/4, 23, 23 1/4	381, 387, 584, 590
21	3.7	5 1/2	140	15, 15 1/4, 23, 23 1/4	381, 387, 584, 590
30C*	5.3	8 1/4	210	15, 15 1/4, 23, 23 1/4	381, 387, 584, 590
38C*	6.7	10 1/4	260	15, 15 1/4, 23, 23 1/4	381, 387, 584, 590

\* Cathedral Ceiling Batts



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