

CertainTeed

Specification Sheet

High-Performance Fiber Glass Building Insulation

1. PRODUCT NAME

CertainTeed High-Performance Fiber Glass Building Insulation Batts for Thermal and Acoustical Applications

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: High-Performance Fiber Glass Building Insulation Batts are intended for use in walls and cathedral ceilings where maximum thermal 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 reinsulation 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.

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 yellow, uniformly

textured, inorganic glass fiber. Products are available unfaced or faced with a kraft vapor retarder.

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 installation 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 the table below. Contact CertainTeed for non-standard sizes.



4. TECHNICAL DATA

Applicable Standards:

- Model Building Codes:
 - (BOCA, ICBO, SBCCI and ICC)
 - New York City – MEA 18-80-M, unfaced
 - New York – NYS UFPBC Article 15
 - California and Minnesota Quality Standards.
- Material Standards:
 - (ASTM C 665), Type I, unfaced
 - (ASTM C 665), Type II, Class C, Category 1, kraft-faced

Fire Resistance:

- Fire Hazard Classification: (ASTM E 84)
 - Unfaced insulation:
 - Max. Flame Spread Index; 25
 - Max Smoke Developed Index; 50
 - Kraft-faced insulation: Not rated for flame spread/smoke developed.
- Noncombustibility: (ASTM E 136)
 - Unfaced insulation: Passes

AVAILABLE SIZES – HIGH-PERFORMANCE BATTS					
R-Value		Thickness		Width	
R	RSI	inches	mm	inches	mm
15	2.6	3½	89	15, 15¼, 23, 23¼	381, 387, 584, 590
21	3.7	5½	140	15, 15¼, 23, 23¼	381, 387, 584, 590
30C*	5.3	8¼	210	15, 15¼, 23, 23¼	381, 387, 584, 590
38C*	6.7	10¼	260	15, 15¼, 23, 23¼	381, 387, 584, 590

* Cathedral Ceiling Batts

Physical/Chemical Properties:

- Thermal Performance:
 - (ASTM C 518)
 - R-values for insulation only, as stated in the table on the front page.
- Water Vapor Sorption:
 - (ASTM C 1104)
 - ≤ 5%
- Water Vapor Permeance:
 - Permeance of Facing (ASTM E 96, Desiccant method) Unperforated facing
 - ≤ 1.0 perm (57 ng/Pa•s• m²)

Quality Assurance: CertainTeed participates in the NHAB 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 9000 standards.



5. INSTALLATION

General: For most areas, vapor retarders should be installed on the warm-in-winter side of the insulation (toward the interior). For some warm and humid areas, the vapor retarder should be installed facing the exterior. Check local practice and/or building codes.

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" (203-305mm) to prevent fish-mouths. Unfaced, rigid fit insulation is pressure fitted between studs.

Ceiling Joists–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.

Floor Joists–Faced insulation with the vapor retarder facing up. 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 air space is recommended between the insulation and roof sheathing. If unfaced insulation is used, a separate vapor retarder should be installed. When vents at both eaves and ridge are not provided, a high-performance vapor retarder, such as polyethylene, should be used in northern locations. (Polyethylene can be used with either faced or unfaced insulation.)

6. AVAILABILITY AND COST

Manufactured and sold throughout the United States. For availability and cost contact your local 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 Fiber Glass Building Insulation (30-21-1321).

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 & CET
- CertainTeed Pub. No. 30-29-013
- Additional product information is available upon request.



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