sustainable insulation
Specification Sheet

CertainTeed
SAINT-GOBAIN

Fiber Glass Building Insulation

PRODUCT DESCRIPTION

Basic Use: Fiber Glass Building Insulation is intended for use in either residential or commercial construction as thermal and acoustical insulation in ceilings, walls and floors.

The product is available unfaced or kraft faced and is designed for use in standard wood stud and steel frame assemblies.

Benefits: Installing Fiber Glass Building Insulation is an easy, cost-effective method to help conserve energy in residential and commercial new construction, remodeling and reinsulation projects. In addition to its thermal properties, Fiber Glass Building Insulation 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.

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

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

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 a FSK (flame-resistant foil) facing.

Because of potential skin irritation, unfaced building insulation should not be installed in an exposed area 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.

INSTALLATION

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

Installation in 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"–12" (203–305 mm) to prevent gaps. 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 is installed with the vapor retarder facing up and in contact with the floor. All insulation must be supported between joists on an approved support such as wire.

Product Name	CertainTeed Fiber Glass Building Insulation
Manufacturer	CertainTeed Corporation
Address	P.O. Box 860 Valley Forge, PA 19482-0105
Phone	610-341-7000 • 800-233-8990
Fax	610-341-7571
Website	www.certainteed.com/insulation

TECHNICAL DATA

Applicable Standards

- Model Building Codes:
  - – ICC
  - – California and Minnesota quality standards
- Material Standards:
  - – ASTM C665
    Type I, unfaced
    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: Passes the test

Physical/Chemical Properties

- Thermal Performance:
  - – ASTM C518 / R-Values for insulation only, as stated in table on other side
- Water Vapor Sorption:
  - – ASTM C1104 / $\leq$ 5%
- Water Vapor Permeance (of Facing):
  - – ASTM E96, Desiccant Method / Unperforated facing: $\leq$ 1.0 perm (57 ng/Pa•s•m^2)

Quality Assurance

CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla, Kansas City and Mountaintop plants to ISO 9001:2000 and ISO 14001:2004 standards.

Cathedral Ceilings – Faced insulation with vapor retarder facing down is stapled between the rafters. A 1" air space is recommended between insulation and roof sheathing. If unfaced insulation is used, a separate vapor retarder, like MemBrain™ the Smart Vapor Retarder, should be installed where required.

Installation in steel framing:

- Standard practice for installing fiber glass batts in steel studs is to friction fit batts into stud cavities. When batts completely fill stud cavities they are constrained by studs at their edges and by wall facings front and rear. For faced product, use tabless batts or leave stapling flanges folded.
- When fiber glass batts are installed in steel ceiling or floor joists or rafters from below, they must be supported with wire or a ceiling finish material.
- Ventilation and vapor retarder requirements are the same as with wood framing.

AVAILABILITY AND COST

Initially limited availability in North America. For availability and cost, contact your local contractor, retailer or distributor, or call CertainTeed Sales Support Group at 800-233-8990.

WARRANTY

Refer to CertainTeed's Lifetime Limited 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 at 800-233-8990.

AVAILABLE SIZES

R-Value		Thickness		Width	
R	RSI	in.	mm	in.	mm
UNFACED					
8	1.4	2½	64	16 & 24	406 & 610
11	1.9	3½	89	11¼, 15, 15¼, 19, 23, 23¼, 44, 48 & 84	286, 381, 387, 483, 584, 591, 1118, 1219 & 2134
13	2.3	3½	89	15¼, 16, 23¼ & 24	387, 406, 591 & 610
15	2.6	3½	89	15¼ & 23¼	387 & 591
19	3.3	6¼	159	11, 11¼, 15, 15¼, 16, 19, 23, 23¼, 24 & 48	279, 286, 381, 387, 406, 483, 584, 591, 610 & 1219
21	3.7	5½	140	15, 15¼ & 23¼	381, 387 & 591
25	4.4	8	203	15, 16, 19, 23, 24, 32 & 46½	381, 406, 483, 584, 610, 813 & 1181
30	5.3	10	254	16, 19 & 24	406, 483 & 610
30C*	5.3	8¼	210	15¼ & 23¼	387 & 591
38	6.7	12	305	16 & 24	406 & 610
38C*	6.7	10¼	260	15¼ & 23¼	387 & 591
KRAFT FACED					
11	1.9	3½	89	11, 15, 16, 23 & 24	279, 381, 406, 584 & 610
13	2.3	3½	89	11, 15, 16, 19, 23 & 24	279, 381, 406, 483, 584 & 610
15	2.6	3½	89	15 & 23	381 & 584
19	3.3	6¼	159	11, 15, 16, 19, 23 & 24	279, 381, 406, 483, 584 & 610
21	3.7	5½	140	15 & 23	381 & 584
22	3.9	6½	165	15, 19 & 23	381, 483 & 584
25	4.4	8	203	15 & 23	381 & 584
26	4.6	8	203	16 & 24	406 & 610
30	5.3	10	254	11, 15, 16, 19, 19¼ & 24	279, 381, 406, 483, 489 & 610
30C*	5.3	8¼	210	15 & 23	381 & 584
38	6.7	12	305	16 & 24	406 & 610
38C*	6.7	10¼	260	15 & 23	381 & 584

* Cathedral Ceiling Baits

Seal and Insulate with ENERGY STAR — LEARN MORE AT energystar.gov

HEALTH & SAFETY PARTNERSHIP PROGRAM NAIMA

GREENGUARD Children & Schools Indoor Air Quality Certified

U.S. GREEN BUILDING COUNCIL MEMBER

ENERGY STAR AWARD 2010 PARTNER OF THE YEAR

NAHB RESEARCH CENTER — Samples of this product are tested periodically by the NAHB Research Center, Inc., and determined to meet the average of the manufacturer's stated dimensions and thermal resistance at or below the stated thickness. Manufacturer represents that this product has been produced to the same standard as samples tested.

QUALITY MANAGEMENT SYSTEM ISO 9001:2000 REGISTERED

ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

EXTERIOR: ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE
INTERIOR: INSULATION • GYPSUM • CEILINGS

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482

Professional: 800-233-8990
Consumer: 800-782-8777
www.certainteed.com/insulation

CertainTeed SAINT-GOBAIN