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# Submittal Form

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# CertainTeed

## Insulation Residential Products

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Submitted to: \_\_\_\_\_

Job Name: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_

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This Submittal Form is provided to assist you in specifying and selecting the proper CertainTeed Insulation product. Basic product descriptions and performance data are included. For further information or technical assistance, contact your local CertainTeed representative.

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**CertainTeed Corporation, P.O. Box 860, Valley Forge, PA 19482**  
**1-800-233-8990**

**Visit our web site at: <http://www.certainteed.com> • Fax-on-Demand service: 1-800-947-0057**  
**Customer Service 1-800-441-9850 • Fax 1-800-799-2381**

CertainTeed was the first fiber glass insulation manufacturer to have all its manufacturing plants, R&D center and corporate headquarters registered to ISO 9001:2000 standards.

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Product	Description	Thermal Resistance* / Nominal Thickness	Applicable Standards
<b>Unfaced Building Insulation</b>	Manufactured in widths to permit pressure fit installation. Used with a separate vapor retarder or where no vapor retarder is required or recommended.	R-38 / 12" R-38C / 10¼" (Cathedral Ceiling Batt) R-30 / 10" R-30C / 8¾" (Cathedral Ceiling Batt) R-25 / 8" R-22 / 6½" R-21 / 5½" R-19 / 6¼" R-15 / 3½" R-13 / 3½" R-11 / 3½"	Complies with ASTM C665, Type I. Is noncombustible, meeting test criteria of ASTM E136. Thermal performance determined by ASTM C653 and C518.
<b>Kraft Faced Building Insulation</b>	Manufactured with a kraft paper facing with a vapor permeance rating of 1.0 or less. Includes stapling flanges.	R-38 / 12" R-38C / 10¼" (Cathedral Ceiling Batt) R-30 / 10" R-30C / 8¾" (Cathedral Ceiling Batt) R-26 / 8⅝" R-25 / 8" R-22 / 6½" R-21 / 5½" R-19 / 6¼" R-15 / 3½" R-13 / 3½" R-11 / 3½"	Complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C653 and C518.
<b>SpeedyR™ Kraft Faced Building Insulation</b>	Manufactured with a kraft paper facing with a vapor permeance rating of 1.0 or less. No stapling required.	R-21 / 5½" R-19 / 6¼" R-13 / 3½"	Complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C653 and C518.
<b>EZR™ Building Insulation</b>	Manufactured with a kraft paper facing with a vapor retarder permeance rating of 1.0 or less and a non-woven tissue adhered to the fiber glass surface. No stapling required.	R-13 / 3½"	Complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C653 and C518.
CertaSound™ Products	Description	Thermal Resistance* / Nominal Thickness	Applicable Standards
<b>Sound Attenuation Batts</b>	Unfaced batts manufactured in widths to permit pressure fit installation in steel stud systems.	R-11 / 3½" R-8 / 2½"	Complies with ASTM C665, Type I. Is noncombustible, meeting test criteria of ASTM E136. Thermal performance determined by ASTM C653 and C518.
<b>Acoustical Ceiling Batts</b>	24" x 48" batts either unfaced or with tabless kraft paper facing. For use in suspended ceiling systems.	R-19 / 6¼" R-11 / 3½"	Complies with ASTM C665, Type I (unfaced), Type II, Class C, Category 1, (faced). Thermal performance determined by ASTM C653 and C518.
<b>NoiseReducer™</b>	Batts are available with a white kraft facing for easy positive attachment to interior wood stud framing.	R-11 / 3½"	Complies with ASTM C665, Type II, Class C, Category 2. Thermal performance determined by ASTM C653 and C518.

\*R means resistance to heat flow. The higher the R-Value, the greater the insulating power.

Product	Description	Thermal Resistance* / Nominal Thickness	Applicable Standards
<b>Masonry Wall Batts</b>	Unfaced batts designed for use behind paneling in masonry-type construction where cavity depth is limited by the furring strips. Used with a separate vapor retarder or where no vapor retarder is required or recommended.	R-6 / 1 3/4" R-3 / 3/4"	Complies with ASTM C665, Type I. Is noncombustible, meeting test criteria of ASTM E136. Thermal performance determined by ASTM C653 and C518.
<b>Basement Wall Insulation</b>	Available with perforated white flame resistant polypropylene or foil facings. Used to insulate walls of unfinished basements. Flame spread rating is 25 or less. Available in 48" and 72" widths.	R-11 / 3 1/2"	Complies with ASTM C665, Type II, Class A, Category 1 and 2. Thermal performance determined by ASTM C653 and C518.
<b>MemBrain™</b>	Vapor retarder sheeting intended for use with unfaced, vapor permeable mass insulation (fiber glass and mineral wool) in wall and ceiling cavities. MemBrain is a polyamide film that changes its permeability with ambient humidity conditions.	2 mil	Water vapor permeance values are determined by ASTM E96.  ≤ 1.0 perm (57 ng/Pa•s•m <sup>2</sup> ) (ASTM E96, Standard Desiccant method)  > 10 perms (Membrain S/B 570/Pa•s•m <sup>2</sup> ) (ASTM E96, Standard Water method)
<b>DryRight™</b>	DryRight batt insulation is intended for use in either residential or commercial construction as thermal and acoustical insulation in wood wall assemblies.	R-13 / 3 1/2" R-19 / 6 1/4"	Complies with ASTM C665, Section 7.4, Water-Vapor Permeance  Complies with ASTM E96  Water vapor permeance values are determined by ASTM E96.  ≤ 1.0 perm (57 ng/Pa•s•m <sup>2</sup> ) (ASTM E96, Desiccant method) Dry Cup Mean, Relative Humidity=25%  > 8 perms (1,144ng/Pa•s•m <sup>2</sup> ) (ASTM E96, Water method) Wet Cup Mean, Relative Humidity=75%
CertaPro™ Products	Description	Thermal Resistance* / Nominal Thickness	Applicable Standards
<b>CertaPro™ Thermal Foil Faced Batts</b>	Manufactured with a flanged foil/kraft vapor retarder providing a perm rating of 0.05 or less. Has a flame spread rating of 75 or less.	R-38 / 12" R-30 / 10" R-19 / 6 1/4" R-13 / 3 1/2" R-11 / 3 1/2"	Complies with ASTM C553, Type I & ASTM C665, Type III, Class B, Category 1. Thermal performance determined by ASTM C653 and ASTM C518.
<b>CertaPro™ Thermal FSK-25 Faced Batts</b>	Manufactured with a flanged flame resistant foil-scrim-kraft facing. Used where a flame spread rating of 25 or less is required for insulation facings. The facing has a perm rating of 0.02 or less.	R-38 / 12" R-30 / 10" R-19 / 6 1/4" R-13 / 1/2" R-11 / 3 1/2"	Complies with ASTM C553, Type I & ASTM C665, Type III, Class A, Category 1. Thermal performance determined by ASTM C653 and ASTM C518.

Premium Blowing Wool Products	Description	Thermal Resistance			Applicable Standards	
		R-Value	Bags per 1,000 sq. ft.	Minimum Weight Pounds per sq. ft.		Min. Installed Settled Thickness
InsulSafe® SP	Fiber glass blowing insulation for pneumatic application in open attics or closed cavities.	60	31.4	0.972	22.00"	Complies with ASTM C764, Type I. Thermal performance is determined by ASTM C687 and ASTM C518.
		49	25.2	0.780	18.50"	
		44	22.4	0.695	16.75"	
		38	19.1	0.591	14.50"	
		30	14.9	0.462	11.75"	
		22	10.8	0.334	8.75"	
		19	9.3	0.289	7.75"	
13	6.2	0.192	5.25"			

OPTIMA® System	System including OPTIMA premium fiber glass blowing insulation and OPTIMA non-woven fabric or equivalent.	56	71.0	1.988	13.25" (2 x 14)	Complies with ASTM C764, Type I. Thermal performance is determined by ASTM C687 and ASTM C518.
		47	60.3	1.688	11.25" (2 x 12)	
		39	49.6	1.388	9.25" (2 x 10)	
		30	38.8	1.088	7.25" (2 x 8)	
		23	29.5	0.825	5.50" (2 x 6)	
15	18.8	0.525	3.50" (2 x 4)			

System™ 5	System including System 5 premium fiber glass blowing insulation, System 5 insulation blowing machine and System 5 insulation blowing hose.	49	29.6	0.83	19.25"	Complies with ASTM C764, Type I. Thermal performance is determined by ASTM C687 and ASTM C518.
		44	26.3	0.736	17.50"	
		38	22.5	0.629	15.25"	
		30	17.4	0.487	12.25"	
		22	12.5	0.351	9.25"	
		19	10.8	0.303	8.00"	
13	7.3	0.21	5.50"			

Standard Blowing Wool	Description	Thermal Resistance			Applicable Standards	
		R-Value	Bags per 1,000 sq. ft.	Minimum Weight Pounds per sq. ft.		Min. Installed Settled Thickness
UltraTherm®	Fiber glass insulation material processed for pneumatic application.	49	42.2	1.056	20.25"	Complies with ASTM C764, Type I. Is noncombustible, meeting criteria of ASTM E136. Thermal performance is determined by ASTM C687.
		44	37.6	0.941	18.25"	
		38	32.6	0.815	16.00"	
		30	25.5	0.638	12.75"	
		22	18.6	0.466	9.50"	
		19	16.1	0.402	8.25"	
		13	11.0	0.276	5.75"	

Spray Foam Products	Description	Thermal Resistance* / Nominal Thickness
CertaSpray™ Open Cell Foam	A two-component water blown spray foam applied as a spray insulation. The foam provides thermal insulation for the interior of buildings and reduces air infiltration through the building envelope	R-3.6 / 1"
		R-5.3 / 1½"
		R-7.0 / 2"
		R-8.8 / 2½"
		R-10.5 / 3"
		R-12.3 / 3½"
		R-14.0 / 4"
		R-15.8 / 4½"
		R-17.5 / 5"
R-19.3 / 5½"		
R-21 / 6"		

Spray Foam Products	Description	Thermal Resistance* / Nominal Thickness
<b>CertaSpray™ Closed Cell Foam</b>	A two-component HFC blown spray foam applied as a spray insulation. The foam provides thermal insulation for the interior of buildings and reduces air infiltration through the building envelope	R-5.4 / 1"
		R-8.1 / 1½"
		R-10.8 / 2"
		R-13.5 / 2½"
		R-16.2 / 3"
		R-18.9 / 3½"
		R-21.6 / 4"
		R-24.3 / 4½"
		R-27 / 5"
		R-29.7 / 5½"
R-32.4 / 6"		

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## Product Characteristics

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### Sound Transmission Loss

CertainTeed's Fiber Glass products can reduce sound transmission when properly installed in construction assemblies and can add from 3 to 12 points to the STC rating depending on the type of assembly. The actual rating is dependent on the workmanship, mass of total material, thickness of insulation, and the air tightness of the construction. In wood stud assemblies, separation of the wall surfaces plus the addition of insulation in stud cavities are the most effective means of reducing sound transmission. This may be accomplished by installing resilient channels on one side of the partition, or with staggered or double wall constructions. The table on the following page lists some typical sound rated partition assemblies.

### Surface Burning Characteristics

These products have the following maximum flame spread and smoke developed ratings when tested per ASTM E84:

Product	Flame Spread	Smoke Developed
Unfaced Building Insulation	5	0
UltraTherm®	5	0
InsulSafe® SP	5	5
OPTIMA®	5	5
System 5™	5	5
FSK-25 Building Insulation	25	50
Basement Wall Insulation	25	50
Standard Foil Building Insulation	75	150
MemBrain™	20	55
DryRight	<25	<50
CertaSpray™ Open Cell Foam	<25	<450
CertaSpray™ Closed Cell Foam	<25	<450

FSK-25, Basement Wall and standard foil-faced insulation products have a critical radiant flux flame propagation resistance equal to or greater than 0.12 w/cm<sup>2</sup>

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### Fire Safety

CertainTeed Unfaced Fiber Glass Building Insulation, OPTIMA®, InsulSafe® SP, System 5™ and UltraTherm® are noncombustible per ASTM E136 test criteria.

Many building codes require that foam plastic insulation be covered with an approved 15-minute thermal barrier. Consult local building code officials to ensure the application meets local building codes and regulations.

**Approximate STC Ratings**

Wood Frame Partitions With Gypsum Wallboard Facings (1/2" & 5/8")	No Insulation		3 1/2" of CertainTeed Fiber Glass Insulation (batts or blown)	
	1/2"	5/8"	1/2"	5/8"
	Single studs/single layer facings	34	35	39
Single studs/resilient channel	39	40	46	50
Staggered studs/single layer facings	39	43	50	51
Double stud walls/single layer facings	46	45	57	57

  

Steel Stud Partitions With Gypsum Wallboard Facings (1/2" & 5/8")	No Insulation				3 1/2" of CertainTeed Fiber Glass Insulation (batts or blown)			
	2 1/2" Studs		3 3/8" Studs		2 1/2" Studs		3 3/8" Studs	
	1/2"	5/8"	1/2"	5/8"	1/2"	5/8"	1/2"	5/8"
Single layer facings	36	39	36	39	45	47	47	50
Double layer one side, single layer other side	39	44	42	47	50	52	52	55
Double layer each side	45	48	50	52	54	57	56	58

**Guide Specifications for CertainTeed Fiber Glass Thermal and Acoustical Insulations**

Note to the specifier: Provide information as required; delete inappropriate items and fill in where indicated.

This guide specification applies to thermal and acoustical insulation in walls, ceilings and floors. It follows Construction Specifications Institute (CSI) format.

**Part 1 General**

- 1.01 Work Included  
State type of insulation and where it is to be installed.
- 1.02 Related Work  
State if separate vapor retarder and/or air barrier is to be installed.
- 1.03 References  
Include appropriate insulation standards.

**Part 2 Products**

- 2.01 Acceptable Manufacturers  
CertainTeed Corporation
- 2.02 Materials

**Thermal Insulation**

Insulation for (ceilings) (walls) (floors) shall be CertainTeed

\_\_\_\_\_ inches thick

with R-Value of \_\_\_\_\_

or

Insulation for (ceilings) (or other approved location) shall be CertainTeed installed at minimum of

\_\_\_\_\_ inches thick, with \_\_\_\_\_ bags/1,000 sq. ft. for R-Value of \_\_\_\_\_.

**Sound Control Insulation**

Insulation for (ceilings) (walls) (floors) shall be CertainTeed

**Acoustical Ceiling Batts**

Insulation over suspended ceilings shall be CertainTeed kraft-faced (3 1/2" R-11) (6 1/4" R-19) Acoustical Ceiling Batts

**Part 3 Execution**

- 3.01 Preparation  
Verify that mechanical and electrical services in (ceilings) (walls) (floors) have been installed and tested and, if appropriate, verify that adjacent materials are dry and ready to receive insulation.
- 3.02 Installation  
Installation shall be in accordance with CertainTeed's instructions.



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