
Submittal Form



Residential and Commercial Insulation Products

Submitted to: _____

Job Name: _____

Submitted by: _____

Date: _____

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

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 1-800-735-2381

Many of CertainTeed's Manufacturing plants are registered to ISO 9001:2000 standards.

Product	Description	R-Values* and Thicknesses	Applicable Standards
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Unfaced Building Insulation

Manufactured in widths to permit pressure fit installation. Used with a separate vapor retarder or where no vapor retarder is required or recommended.

R	Nominal Thickness	R	Nominal Thickness
38	12"	21	5½"
38C*	10¼"	19	6¼"
30	10"	15	3½"
30C*	8¼"	13	3½"
25	8"	11	3½"
22	6½"	—	—

*Cathedral Ceiling Batt

Complies with ASTM C665, Type I. Is noncombustible, meeting test criteria of ASTM E136. Thermal performance determined by ASTM C653 and C518.

Kraft Faced Building Insulation

Manufactured with a kraft paper facing with a vapor permeance rating of 1.0 or less. Includes stapling flanges.

R	Nominal Thickness	R	Nominal Thickness
38	12"	22	6½"
38C*	10¼"	21	5½"
30	10"	19	6¼"
30C*	8¼"	15	3½"
26	8⅜"	13	3½"
25	8"	11	3½"

*Cathedral Ceiling Batt

Complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C653 and C518.

DryRight™ Building Insulation

DryRight batt insulation, faced with MemBrain™, the Smart Vapor Retarder, is intended for use in either residential or commercial construction as thermal and acoustical insulation in wood framed assemblies.

R	Nominal Thickness	R	Nominal Thickness
38	12"	19	6¼"
30	10"	13	3½"
30C*	8¼"	15	3½"
21	5½"	11	3½"

*Cathedral Ceiling Batt

Complies with ASTM C665, Type II, Class A, Category 1.

Thermal performance determined by ASTM C653 and C518.

Water vapor permeance values are determined by ASTM E96.

- ≤ 1.0 perm (57 ng/Pa•s•m²)
(ASTM E96, Standard Desiccant method)
Dry Cup Mean, Relative Humidity=25%
- > 8 perms (456 ng/Pa•s•m²)
(ASTM E96, Standard Water method)

SpeedyR™ Kraft Faced Building Insulation

Manufactured with a kraft paper facing with a vapor permeance rating of 1.0 or less. No stapling required.

R	Nominal Thickness	R	Nominal Thickness
21	5½"	13	3½"
19	6¼"	—	—

Complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C653 and C518.

EZR™ Building Insulation

Manufactured with a kraft paper facing with a vapor permeance rating of 1.0 or less and a non-woven tissue adhered to the fiber glass surface. No stapling required.

R	Nominal Thickness
13	3½"

Complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C653 and C518.

Masonry Wall Insulation

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	Nominal Thickness
6	1¾"
3	¾"

Complies with ASTM C665, Type I. Is noncombustible, meeting test criteria of ASTM E136. 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	R-Values* and Thicknesses	Applicable Standards				
Basement Wall Insulation	Available with perforated white flame resistant polypropylene or foil facings. Used to insulate walls of unfinished crawlspaces and basements. Flame spread rating is 25 or less. Available in 48" and 72" widths.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>3¾"</td> </tr> </tbody> </table>	R	Nominal Thickness	11	3¾"	Complies with ASTM C665, Type II, Class A, Category 2. Thermal performance determined by ASTM C653 and C518.
R	Nominal Thickness						
11	3¾"						

MemBrain™ Smart Vapor Retarder	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.	<table border="1"> <thead> <tr> <th>Roll Width</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>8 ft.</td> <td>2 mil</td> </tr> <tr> <td>9 ft.</td> <td>2 mil</td> </tr> <tr> <td>10 ft.</td> <td>2 mil</td> </tr> <tr> <td>12 ft.</td> <td>2 mil</td> </tr> </tbody> </table>	Roll Width	Nominal Thickness	8 ft.	2 mil	9 ft.	2 mil	10 ft.	2 mil	12 ft.	2 mil	Water vapor permeance values are determined by ASTM E96. ≤ 1.0 perm (57 ng/Pa•s•m²) (ASTM E96, Standard Desiccant method) > 10 perms (570 ng/Pa•s•m²) (ASTM E96, Standard Water method)
Roll Width	Nominal Thickness												
8 ft.	2 mil												
9 ft.	2 mil												
10 ft.	2 mil												
12 ft.	2 mil												

CertaSound™ Products	Description	R-Values* and Thicknesses	Applicable Standards						
Sound Attenuation Batts	Unfaced batts manufactured in widths to permit pressure fit installation in steel stud systems.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>3½"</td> </tr> <tr> <td>8</td> <td>2½"</td> </tr> </tbody> </table>	R	Nominal Thickness	11	3½"	8	2½"	Complies with ASTM C665, Type I. Is noncombustible, meeting test criteria of ASTM E136. Thermal performance determined by ASTM C653 and C518.
R	Nominal Thickness								
11	3½"								
8	2½"								
Acoustical Ceiling Batts	24" x 48" batts either unfaced or with tabless kraft paper facing. For use in suspended ceiling systems.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>19</td> <td>6¼"</td> </tr> <tr> <td>11</td> <td>3½"</td> </tr> </tbody> </table>	R	Nominal Thickness	19	6¼"	11	3½"	Complies with ASTM C665, Type I (unfaced), Type II, Class C, Category 1, (faced). Thermal performance determined by ASTM C653 and C518.
R	Nominal Thickness								
19	6¼"								
11	3½"								
NoiseReducer™	Batts are available with a white kraft facing for easy positive attachment to interior wood stud framing.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>3½"</td> </tr> </tbody> </table>	R	Nominal Thickness	11	3½"	Complies with ASTM C665, Type II, Class C, Category 2. Thermal performance determined by ASTM C653 and C518.		
R	Nominal Thickness								
11	3½"								

Commercial Products	Description	R-Values* and Thicknesses	Applicable Standards										
CertaPro™ AcoustaTherm™ Batts	Manufactured in widths to permit friction fit installation. Unfaced is used with a separate vapor retarder or where no vapor retarder is required or recommended.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>30 (Unfaced)</td> <td>10"</td> </tr> <tr> <td>19 (Unfaced, Kraft-faced no tabs)</td> <td>6¼"</td> </tr> <tr> <td>11 (Unfaced, Kraft-faced no tabs)</td> <td>3½"</td> </tr> <tr> <td>8 (Unfaced)</td> <td>2½"</td> </tr> </tbody> </table>	R	Nominal Thickness	30 (Unfaced)	10"	19 (Unfaced, Kraft-faced no tabs)	6¼"	11 (Unfaced, Kraft-faced no tabs)	3½"	8 (Unfaced)	2½"	Unfaced complies with ASTM C553, Type I, ASTM C665, Type I and is noncombustible, per ASTM E136. Kraft Faced complies with ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C518.
R	Nominal Thickness												
30 (Unfaced)	10"												
19 (Unfaced, Kraft-faced no tabs)	6¼"												
11 (Unfaced, Kraft-faced no tabs)	3½"												
8 (Unfaced)	2½"												

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

Commercial Products	Description	R-Values* and Thicknesses		Applicable Standards																
CertaPro™ Partition Batts	Unfaced flexible blanket-type batts for use in commercial construction for acoustical and thermal insulation in shaft and partition walls.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>5.8</td> <td>1½"</td> </tr> </tbody> </table>		R	Nominal Thickness	5.8	1½"	Complies with ASTM C553, Type I, II, ASTM C665, Type I and is noncombustible, per ASTM E136.												
R	Nominal Thickness																			
5.8	1½"																			
CertaPro™ Thermal Kraft Faced Batts	Manufactured with a flanged kraft paper facing providing a vapor retarder with a perm rating of 1.0 or less.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>19</td> <td>6¼"</td> </tr> <tr> <td>11</td> <td>3½"</td> </tr> </tbody> </table>		R	Nominal Thickness	19	6¼"	11	3½"	Complies with ASTM C553, Type I and ASTM C665, Type II, Class C, Category 1. Thermal performance determined by ASTM C177 or ASTM C518.										
R	Nominal Thickness																			
19	6¼"																			
11	3½"																			
CertaPro™ Thermal Foil Faced Batts	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.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>38</td> <td>12"</td> <td>13</td> <td>3½"</td> </tr> <tr> <td>30</td> <td>10"</td> <td>11</td> <td>3½"</td> </tr> <tr> <td>19</td> <td>6¼"</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		R	Nominal Thickness	R	Nominal Thickness	38	12"	13	3½"	30	10"	11	3½"	19	6¼"	—	—	Complies with ASTM C553, Type I and ASTM C665, Type III, Class B, Category 1. Thermal performance determined by ASTM C177 and ASTM C518.
R	Nominal Thickness	R	Nominal Thickness																	
38	12"	13	3½"																	
30	10"	11	3½"																	
19	6¼"	—	—																	
CertaPro™ Thermal FSK-25 Faced Batts	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.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>38</td> <td>12"</td> <td>13</td> <td>3½"</td> </tr> <tr> <td>30</td> <td>10"</td> <td>11</td> <td>3½"</td> </tr> <tr> <td>19</td> <td>6¼"</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		R	Nominal Thickness	R	Nominal Thickness	38	12"	13	3½"	30	10"	11	3½"	19	6¼"	—	—	Complies with ASTM C553, Type I and ASTM C665, Type III, Class A, Category 1. Thermal performance determined by ASTM C177 or ASTM C518.
R	Nominal Thickness	R	Nominal Thickness																	
38	12"	13	3½"																	
30	10"	11	3½"																	
19	6¼"	—	—																	
CertaPro™ Thermal Extended Flange FSK Faced, White & Black PSK Faced Batts	Manufactured with a white or black flame-resistant poly-scrim-kraft facing (PSK) or flame-resistant foil-scrim-kraft facing (FSK). Used where a flame spread rating of 25 or less is required for insulation facings. All facings have a perm rating of 0.02 or less and a 4" extended flange.	<table border="1"> <thead> <tr> <th>R</th> <th>Nominal Thickness</th> </tr> </thead> <tbody> <tr> <td>30 (FSK only)</td> <td>10"</td> </tr> <tr> <td>19 (PSK & FSK)</td> <td>6¼"</td> </tr> </tbody> </table>		R	Nominal Thickness	30 (FSK only)	10"	19 (PSK & FSK)	6¼"	<p>PSK & FSK comply with ASTM C553, Type 1.</p> <p>PSK complies with ASTM C665, Type II, Class A, Category 1.</p> <p>FSK complies with ASTM C665, Type III, Class A, Category 1.</p> <p>Thermal performance determined by ASTM C177 and ASTM C518.</p>										
R	Nominal Thickness																			
30 (FSK only)	10"																			
19 (PSK & FSK)	6¼"																			

Product	Description	R-Values* and Thicknesses		Specification Compliance																																																																																												
CertaPro™ Commercial Board	<p>Flexible to rigid boards for residential and commercial construction. Manufactured unfaced, with a reinforced white kraft and foil laminate (ASJ) or an aluminum foil, glass scrim kraft laminate (FSK).</p> <p>Available in four densities:</p> <p>CB 150: Light weight, used where flexibility is desired.</p> <p>CB 225: Semi-rigid board type.</p> <p>CB 300: Board type with greater rigidity and compressive strength for a smoother more abuse resistant surface.</p> <p>CB 600: A rigid board product.</p>	<table border="1"> <thead> <tr> <th colspan="2">CB 150</th> <th colspan="2">CB 225</th> <th colspan="2">CB 300</th> <th colspan="2">CB 600</th> </tr> <tr> <th>R-Value</th> <th>Thickness</th> <th>R-Value</th> <th>Thickness</th> <th>R-Value</th> <th>Thickness</th> <th>R-Value</th> <th>Thickness</th> </tr> </thead> <tbody> <tr> <td>16.0</td> <td>4"</td> <td>17.4</td> <td>4"</td> <td>17.4</td> <td>4"</td> <td>—</td> <td>—</td> </tr> <tr> <td>14.0</td> <td>3½"</td> <td>15.2</td> <td>3½"</td> <td>15.2</td> <td>3½"</td> <td>—</td> <td>—</td> </tr> <tr> <td>12.0</td> <td>3"</td> <td>13.0</td> <td>3"</td> <td>13.0</td> <td>3"</td> <td>—</td> <td>—</td> </tr> <tr> <td>10.0</td> <td>2½"</td> <td>10.9</td> <td>2½"</td> <td>10.9</td> <td>2½"</td> <td>—</td> <td>—</td> </tr> <tr> <td>8.0</td> <td>2"</td> <td>8.7</td> <td>2"</td> <td>8.7</td> <td>2"</td> <td>9.1</td> <td>2"</td> </tr> <tr> <td>6.0</td> <td>1½"</td> <td>6.5</td> <td>1½"</td> <td>6.5</td> <td>1½"</td> <td>6.8</td> <td>1½"</td> </tr> <tr> <td>—</td> <td>—</td> <td>4.3</td> <td>1"</td> <td>4.3</td> <td>1"</td> <td>4.5</td> <td>1"</td> </tr> </tbody> </table>		CB 150		CB 225		CB 300		CB 600		R-Value	Thickness	R-Value	Thickness	R-Value	Thickness	R-Value	Thickness	16.0	4"	17.4	4"	17.4	4"	—	—	14.0	3½"	15.2	3½"	15.2	3½"	—	—	12.0	3"	13.0	3"	13.0	3"	—	—	10.0	2½"	10.9	2½"	10.9	2½"	—	—	8.0	2"	8.7	2"	8.7	2"	9.1	2"	6.0	1½"	6.5	1½"	6.5	1½"	6.8	1½"	—	—	4.3	1"	4.3	1"	4.5	1"	<table border="1"> <thead> <tr> <th>Product</th> <th>ASTM C612</th> <th>ASTM C665</th> <th>ASTM C553</th> </tr> </thead> <tbody> <tr> <td>CB 150</td> <td>Type IA</td> <td>Type IA Type II or III Category 1</td> <td>Types I, II & III</td> </tr> <tr> <td>CB 225</td> <td>Type IA</td> <td>—</td> <td>—</td> </tr> <tr> <td>CB 300</td> <td>Types IA & IB</td> <td>—</td> <td>—</td> </tr> <tr> <td>CB 600</td> <td>Types IA & IB</td> <td>—</td> <td>—</td> </tr> </tbody> </table> <p>ASTM C1136 (Facing only) Type II: FSK; Type I: ASJ</p> <p>*FSK, Type III ASJ, Type II Unfaced, Type I</p>	Product	ASTM C612	ASTM C665	ASTM C553	CB 150	Type IA	Type IA Type II or III Category 1	Types I, II & III	CB 225	Type IA	—	—	CB 300	Types IA & IB	—	—	CB 600	Types IA & IB	—	—
CB 150		CB 225		CB 300		CB 600																																																																																										
R-Value	Thickness	R-Value	Thickness	R-Value	Thickness	R-Value	Thickness																																																																																									
16.0	4"	17.4	4"	17.4	4"	—	—																																																																																									
14.0	3½"	15.2	3½"	15.2	3½"	—	—																																																																																									
12.0	3"	13.0	3"	13.0	3"	—	—																																																																																									
10.0	2½"	10.9	2½"	10.9	2½"	—	—																																																																																									
8.0	2"	8.7	2"	8.7	2"	9.1	2"																																																																																									
6.0	1½"	6.5	1½"	6.5	1½"	6.8	1½"																																																																																									
—	—	4.3	1"	4.3	1"	4.5	1"																																																																																									
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CB 150	Type IA	Type IA Type II or III Category 1	Types I, II & III																																																																																													
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*R means resistance to heat flow. The higher the R-Value, the greater the insulating power.

Product**Description****R-Values* and Thicknesses****Specification Compliance****CertaPro™
AcoustaBoard™
Black**

Rigid or semi-rigid fiber glass board with a black mat facing for acoustical applications in sound studios or other acoustically sensitive applications requiring a black exposed surface.

Available in two densities:

Type 225: Semi-rigid board type.

Type 300: Board type with greater rigidity and compressive strength for a smoother more abuse resistant surface.

Type 225		Type 300	
R-Value	Thickness	R-Value	Thickness
8.7	2"	8.7	2"
6.5	1½"	6.5	1½"
4.3	1"	4.3	1"

Type	ASTM C612
225	Type IA
300	Types IA & IB

**CertaPro™
AcoustaBlanket™
Black**

1/2" to 1" thick black fiber glass blanket with a durable fire-resistant black composite surface used for acoustical control applications in theaters, sound studios or other acoustically sensitive applications requiring a black exposed surface.

Type 150	Type 200
Thickness	Thickness
1"	—
1½"	½"
2"	—

Complies with ASTM C553, Type I and II. Acoustical performance determined by ASTM C423 using Type A mounting. Thermal resistance determined by ASTM C177 or C518.

**Metal Building
Insulation
202-96**

CertainTeed fiber glass Metal Building Insulation 202-96 is a flexible blanket insulation furnished in rolls and intended to be laminated on one side with a suitable vapor retarder. It is used as a thermal and acoustical insulation in the roofs and sidewalls of pre-engineered metal buildings and post frame construction. Plain unfaced, Metal Building Insulation 202-96 may be used as an additional layer of insulation over laminated metal building insulation in systems or over the top of BUR or single ply roofs in metal reroof applications to achieve greater thermal performance.

R	Nominal Thickness	Widths	Lengths
30	9¼"	36", 48", 60", 72"	25'
25	8"	36", 48", 60", 72"	30'
21	6¾"	36", 48", 60", 72"	45'
19	6⅝"	36", 48", 60", 72"	50'
16	5½"	36", 48", 60", 72"	50'
13	4¾"	36", 48", 60", 72"	75'
11	3¾"	36", 48", 60", 72"	100'
10	3⅝"	36", 48", 60", 72"	100'

Metal Building Insulation 202-96 has physical properties that regularly meet the requirements of the following specifications: ASTM C991, Type I Plain and NAIMA 202-96. (Rev. 2000)

**Commercial
Blanket
Insulation**

This product is used as a thermal or acoustical insulation in commercial buildings where wide rolls of unfaced insulation are required such as retrofitting a warehouse. It is also used in post frame construction. In roofs and sidewalls this product can be used as a second layer over the unfaced side of Metal Building Insulation 202-96. Additionally, it may be installed over old roof decks (BUR and metal) prior to application of a new standing seam roof.

Limitations: This product is not intended to be laminated with vapor retarder facing and does not meet the requirements of NAIMA 202-96.

R	Nominal Thickness	Widths	Lengths
30	10"	48", 60", 72"	25'
25	8"	48", 60", 72"	40'
19	6¼"	48", 60", 72"	50'
11	3½"	48", 60", 72"	100'

Commercial Blanket Insulation has physical properties that regularly meet the requirements of the following specifications: ASTM C553, Type I and ASTM C665, Type I Plain. ASTM C665, Type I Plain.

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

Premium Blowing Wool Products	Description	R-Values*	Bags per 1,000 sq. ft.	Minimum Weight Pounds per sq. ft.	Min. Installed/Settled Thickness	Applicable Standards
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)	

Standard Blowing Wool	Description	R-Values*	Bags per 1,000 sq. ft.	Minimum Weight Pounds per sq. ft.	Min. Installed/Settled Thickness	Applicable Standards
UltraTherm®	Fiber glass insulation material processed for pneumatic application in attics.	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	R-Values* and Thicknesses							
CertaSpray™ Open Cell Foam	A two-component water blown spray polyurethane 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	Nominal Thickness	R	Nominal Thickness	R	Nominal Thickness	R	Nominal Thickness
		21	6"	15.8	4½"	10.5	3"	5.3	1½"
		19.3	5½"	14	4"	8.8	2½"	3.6	1"
		17.5	5"	12.3	3½"	7.0	2"	—	—

CertaSpray™ Closed Cell Foam	A two-component HFC-245fa blown spray polyurethane 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	Nominal Thickness	R	Nominal Thickness	R	Nominal Thickness	R	Nominal Thickness
		38.7	6"	28.8	4½"	19	3"	8.7	1½"
		35.5	5½"	25.6	4"	16	2½"	5.8	1"
		32.3	5"	22.4	3½"	11.6	2"	—	—

Product Characteristics

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

Product Characteristics (continued)

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
FSK-25 Building Insulation	25	50
Basement Wall Insulation	25	50
Standard Foil Faced 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/cm².

Fire Safety CertainTeed Unfaced Fiber Glass Building Insulation, OPTIMA®, InsulSafe® SP, 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		3½" 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				3½" of CertainTeed Fiber Glass Insulation (batts or blown)			
	2½" Studs		3½" Studs		2½" Studs		3½" 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 (3½" R-11) (6¼" 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.

Guide Specifications for CertainTeed Commercial Fiber Glass Insulation Products

PART 1 – GENERAL

1.01 Summary

A. This section includes commercial building thermal/acoustical insulation for application to:

1. Exterior building walls;
2. Interior partition walls, shaft walls, and other interior surfaces;
3. Ceiling suspension systems.

1.02 Submittals

A. Prepare and submit for approval information as required by the conditions of the contract and Division 1 Submittals sections.

B. Submit product data for each thermal and acoustical insulation product specified.

1.03 Quality Assurance

A. Installers shall be qualified to perform work of this section and shall be experienced in the performance of installation operations as appropriate to the project.

1.04 Delivery and Storage

A. Deliver all insulation materials and accessories to the project site in manufacturer's original, unopened, undamaged packaging, with all identification labels intact. Store in a safe place protected from dust, dirt, moisture and physical abuse before and during installation.

PART 2 – PRODUCTS

2.01 Approved Manufacturer and Products

A. All thermal/acoustical insulation materials shall be in accordance with Division 1 Submittals, manufactured by CertainTeed Corporation, including but not limited to:

1. CertaPro AcoustaTherm Batts, Unfaced or Kraft Faced (no tabs).
2. CertaPro Partition Batts, Unfaced.
3. CertaPro Thermal Kraft Faced Batts.
4. CertaPro Thermal Foil Faced Batts.

5. CertaPro Thermal FSK-25 Faced Batts.
6. CertaPro Thermal Extended Flange Batts, FSK Faced.
7. CertaPro Thermal Extended Flange Batts, Black PSK Faced.
8. CertaPro Thermal Extended Flange Batts, White PSK Faced.
9. Building Insulation, Unfaced, Kraft Faced.
10. CertaPro Commercial Board, Unfaced, FSK Faced, ASJ Faced.
11. CertaPro AcoustaBoard Black.
12. CertaPro AcoustaBlanket Black.
13. Metal Building Insulation 202-96 (Rev. 2000).
14. Commercial Blanket Insulation.

B. Where applicable, specify product thicknesses and length/width dimensions so insulation completely fills wall cavities to meet thermal and acoustical performance specifications.

C. Specify type of vapor retarder facing to meet water vapor transmission and fire rating specifications.

2.01 Products and Applications

A. Curtain Wall Insulation:

1. CertaPro AcoustaTherm Batts, Unfaced or Kraft Faced (no tabs).
R-Value: _____.
2. CertaPro Thermal Kraft, Foil, or FSK-25 Faced Batts.
R-Value: _____.
3. CertaPro Commercial Board, Unfaced, FSK or ASJ Faced.
R-Value: _____.

B. Partition Insulation:

1. CertaPro Partition Batts, Unfaced.
R-Value: 5.8.

C. Interior Cavity Wall Insulation:

1. CertaPro AcoustaTherm Batts, Unfaced or Kraft Faced.
R-Value: _____.
2. CertaPro Thermal Batts, Kraft, Foil, or FSK-25 Faced.
R-Value: _____.
3. CertaPro Thermal Extended Flange Batts, FSK or PSK Faced.
R-Value: _____.

D. Insulation over ceiling suspension systems:

1. CertaPro AcoustaTherm Batts, Unfaced or Kraft Faced (no tabs).
R-Value: _____.

E. Insulation for acoustic control in theaters, sound studios, etc.:

1. CertaPro AcoustaBoard Black.
R-Value: _____.
2. CertaPro AcoustaBlanket Black.
R-Value: _____.

F. Insulation for metal building ceiling and side wall applications:

1. CertainTeed Metal Building 202-96 (Rev. 2000).
R-Value: _____.
2. Commercial Blanket Insulation.
R-Value: _____.

PART 3 – EXECUTION

3.01 Inspection

A. Verify that all insulation may be installed in accordance with project drawings, thermal and acoustical design requirements and fire ratings.

B. Confirm that all exterior and interior wall, partition, and floor/ceiling assembly construction has been completed to the point where the insulation may be correctly installed.

3.02 Installation

B. Install all insulation in compliance with manufacturer's published instructions and good workmanship so that acoustical and thermal performance requirements are met.

3.03 Safety Precautions

A. Properly protect insulation contractor's employees during installation of all insulation. Protection shall include proper attire when handling and applying insulation materials, and shall include but not be limited to gloves, hard hats, disposable dust respirators, and eye protection.

B. Conduct all job site operations in compliance with applicable provisions of the Occupational Safety and Health Act and/or local safety and health codes and regulations.



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

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