

## Specification Sheet

# Metal Building Insulation 202-96

### 1. PRODUCT NAME

CertainTeed Metal Building Insulation 202-96

### 2. MANUFACTURER

CertainTeed Corporation  
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](http://www.certainteed.com/insulation)

### 3. PRODUCT DESCRIPTION

**Basic Use:** 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 side-walls of pre-engineered metal buildings and post frame construction.

**Benefits:** Metal Building Insulation reduces transmission of exterior sound to the interior of the building and absorbs reverberating sounds within the building.

**Composition and Materials:** Composed of inorganic glass fibers bonded with a thermoset resin to form a uniformly textured yellow blanket insulation.

**Limitations:** This product is designed for use in interior (weather protected) walls and roofs of pre-engineered metal buildings. It should be laminated on a first-in, first-out basis and should be kept dry at all times during processing and end use. After lamination, packaging should not exceed a 5.5:1 compression ratio. For additional information, please refer to the appendix of the NAIMA 202-96 (Rev. 2000) standard.

**Sizes:** Standard available sizes as noted in the table on the other side. Contact CertainTeed for non-standard sizes.

### 4. TECHNICAL DATA

#### Applicable Standards:

- Model Building Codes:
  - ICC
- Material Standards:
  - ASTM C991 Type I
  - NAIMA 202-96 (Rev. 2000)

#### Fire Resistance:

- Fire Hazard Classification:
  - UL 723, ASTM E84, NFPA 255
  - Max. Flame Spread Index: 25
  - Max. Smoke Developed Index: 50
  - CAN/ULC-S102-M88
- Non-combustible:
  - ASTM E136
  - Meets requirements

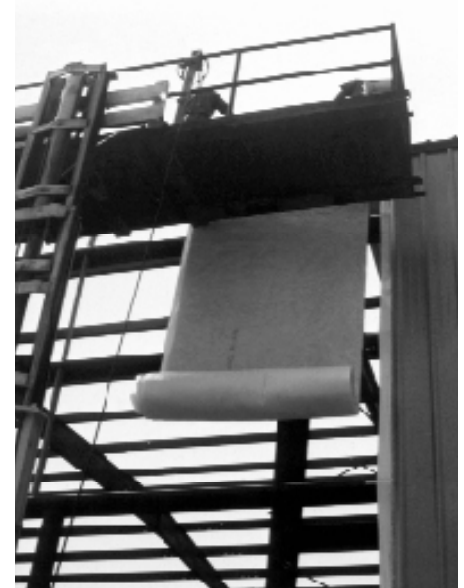
#### Physical/Chemical Properties:

THERMAL PERFORMANCE			
Nominal Thickness Prior to Laminating		R-Value	
in.	mm	R	RSI
3 <sup>3</sup> / <sub>8</sub>	86	10	1.76
3 <sup>3</sup> / <sub>4</sub>	95	11	1.94
4 <sup>3</sup> / <sub>8</sub>	111	13	2.29
5 <sup>1</sup> / <sub>4</sub>	133	16	2.82
6 <sup>3</sup> / <sub>8</sub>	162	19	3.35
8	203	25	4.40

SOUND TRANSMISSION								
Construction Type		Transmission Loss in dB at the Octave Frequencies						STC Rating
		125	250	500	1000	2000	4000	
Roofs	No Insulation	12	13	19	24	30	32	24
	R-10 Faced 202-96 Insulation Over the Purlins	12	16	26	37	45	49	29
	R-19 Faced 202-96 Insulation Over the Purlins	13	20	30	41	49	51	32
	202-96 Insulation Over & Between the Purlins to Fill the Cavity (R-25 Combined)	14	24	34	44	53	56	36
Walls	No Insulation	12	14	19	19	20	27	21
	R-10 Faced 202-96 Insulation Over the Girts	13	16	25	32	37	46	28
	R-13 Faced 202-96 Insulation Over the Girts	13	17	26	33	38	47	29
	R-13 Faced 202-96 Insulation Over the Girts 3 <sup>3</sup> / <sub>8</sub> " Steel Studs on 24" Centers with 1/2" Gyp. Board on Interior.	26	40	51	60	64	65	50
	R-13 Faced 202-96 Insulation Over the Girts 3 <sup>3</sup> / <sub>8</sub> " Steel Studs on 24" Centers with R-11 Batts & 1/2" Gyp. Board on Interior.	31	43	55	68	73	75	54

Sound Transmission Class (STC) in accordance ASTM E90

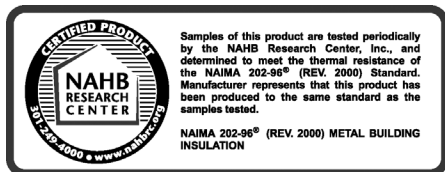
- Roof construction is 24ga. standing seam roof with 8" Z purlins on 5' centers
- Wall construction is 26ga. wall panels screwed to 8" Z girts placed on 7' centers interior metal furring wall studs were 3<sup>3</sup>/<sub>8</sub>" by 25ga. on 24' centers



- Thermal Resistance:
  - ASTM C518 and/or ASTM C177 at 75°F (24°C) mean temperature.
  - See table at left.
- Acoustical Performance:
  - See the tables below and on other side.

- Water Vapor Sorption:
  - (ASTM C1104)
  - No greater than 5.0% by weight.
- Corrosiveness:
  - (ASTM C665)
  - Meets requirements for steel, copper and aluminum.
- Odor Emission:
  - (ASTM C1304)
  - Pass
- Fungi Resistance:
  - (ASTM C1104)
  - Pass Test

**Quality Assurance:** Many of CertainTeed's insulation manufacturing plants are registered to ISO 9001-2000 standards.



## 5. INSTALLATION

The vapor retarder on Metal Building Insulation 202-96 should be installed toward the conditioned spaces in the building. The insulation is normally applied over or between the structural members of the building and held in place by the covering sheets or insulation support system. When using high R-value systems, it is recommended that the cavity between the exterior metal sheet and the faced fiber glass insulation should be completely filled.

## 6. AVAILABILITY AND COST

Manufactured and sold throughout the United States and Canada. For availability and cost, contact your local distributor or call CertainTeed Sales Support Group in Valley Forge, PA, at (800) 233-8990.

## 7. WARRANTY

Inasmuch as CertainTeed has no control over installation design, installation workmanship, accessory materials, or conditions of applications, CertainTeed does not warrant the performance or results of any installation containing its products.

## 8. MAINTENANCE

An inspection and preventative maintenance program for the insulation and vapor retarder system is recommended to ensure optimum performance.

## 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, (800) 233-8990.

## 10. FILING SYSTEMS

- CertainTeed Pub. No. 30-25-031
- Additional product information available upon request.

SOUND ABSORPTION – UNFACED									
R-Value	Nom. Thickness		Absorption Coefficients @ Octave Band Frequencies (Hz)						NRC
	in.	mm	125	250	500	1000	2000	4000	
10	3 <sup>3</sup> / <sub>8</sub>	86	0.29	0.82	1.02	0.94	0.96	0.98	0.95
11	3 <sup>3</sup> / <sub>4</sub>	95	0.39	0.91	1.01	0.92	0.93	0.98	0.95
13	4 <sup>3</sup> / <sub>8</sub>	111	0.53	0.97	1.04	0.90	0.95	0.98	0.95
16	5 <sup>1</sup> / <sub>4</sub>	133	0.67	1.05	1.02	0.92	0.98	0.99	1.00
19	6 <sup>3</sup> / <sub>8</sub>	162	0.89	1.22	1.02	0.98	1.01	1.00	1.05

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

AVAILABLE SIZES						
R-Value	Nominal Thickness		Widths		Lengths	
	in.	mm	in.	mm	ft.	m
10	3 <sup>3</sup> / <sub>8</sub>	86	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5
11	3 <sup>3</sup> / <sub>4</sub>	95	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5
13	4 <sup>3</sup> / <sub>8</sub>	111	36, 48, 60, 72	914, 1219, 1524, 1829	75	22.9
16	5 <sup>1</sup> / <sub>4</sub>	133	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
19	6 <sup>3</sup> / <sub>8</sub>	162	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
25*	8	203	36, 48, 60, 72	914, 1219, 1524, 1829	30	9.1

Non-standard widths are available and subject to an upcharge on an individual basis determined by manufacturer's capability, quantity, lead times and packaging availability. \*R-25 is made to order.



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