sustainable insulation. Specification Sheet

Metal Building Insulation 202-96

PRODUCT DESCRIPTION

Basic Use: CertainTeed Fiberglass 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.



Benefits: Metal Building Insulation 202-96 reduces transmission of

exterior sound to the interior of the building and absorbs reverberating sounds within the building.

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

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 table below. Contact CertainTeed for nonstandard sizes.

INSTALLATION

The vapor retarder on Metal Building Insulation 202-96 should be installed toward the conditioned spaces

THERMAL PERFORMANCE								
Nominal 1 (Pre-Larr		R-Value						
in.	mm	R	Pre-Lamination	Post-Lamination	RSI			
3¾	86	10	10.8	10	1.76			
31⁄4	95	11	11.9	11	1.94			
43%	111	13	14.0	13	2.29			
51/4	133	16	17.3	16	2.82			
6¾	162	19	20.5	19	3.35			
6¼	171	21	22.7	21	3.70			
8	203	25	27.0	25	4.40			
91/4	235	30	32.4	30	5.30			

AVAILABLE SIZES								
R-Value Nominal Thickness		Thickness	Wi	Length				
R	in.	mm	in.	mm	ft.	m		
10	33%	86	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5		
11	31/4	95	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5		
13	43%	111	36, 48, 60, 72	914, 1219, 1524, 1829	75	22.9		
16	51⁄4	133	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2		
19	6¾	162	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2		
21*	61⁄4	171	36, 48, 60, 72	914, 1219, 1524, 1829	45	13.7		
25*	8	203	36, 48, 60, 72	914, 1219, 1524, 1829	30	9.1		
30*	91⁄4	235	36, 48, 60, 72	914, 1219, 1524, 1829	25	7.6		

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-21, R-25 and R-30 are made to order.

Product Name	CertainTeed Metal Building Insulation 202–96
Manufacturer	CertainTeed Corporation
Address	20 Moores Road Malvern, PA 19355
Phone	800-233-8990
Website	www.certainteed.com/ technicalinsulation

TECHNICAL DATA

Applicable Standards

- Model Building Codes:
 - ICC
- Material Standards:
 - ASTM C99, 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 Resistance:
 - ASTM C518 and/or ASTM C177 at 75 ° F (24 ° C) mean temperature: see table at left
- Acoustical Performance: see tables on other side
- Water Vapor Sorption:
 - ASTM C1104 / No greater than 5.0% by weight
- Corrosiveness:
 - ASTM C665 / Pass
 - ASTM C1617 / Pass
- Odor Emission:
 - ASTM C1304 / Pass
- Fungi Resistance:
- ASTM C1338 / Pass Test



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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 fiberglass insulation should be completely filled.

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 Malvern, PA at 800-233-8990.

WARRANTY

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

MAINTENANCE

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

TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling CertainTeed Sales Support Group in Malvern, PA at 800-233-8990.

SOUND ABSORPTION - UNFACED									
R-Value	Nom. Th	nickness	Absorption Coefficients at the Octave Band Frequencies (Hz)						
R	in.	mm	125	250	500	1000	2000	4000	NRC
10	3%	86	0.29	0.82	1.02	0.94	0.96	0.98	0.95
11	31⁄4	95	0.39	0.91	1.01	0.92	0.93	0.98	0.95
13	43/8	111	0.53	0.97	1.04	0.90	0.95	0.98	0.95
16	51⁄4	133	0.67	1.05	1.02	0.92	0.98	0.99	1.00
19	6¾	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.

	Transmission Loss in dB at the Octave Band Frequencies (Hz)								
125	250	500	1000	2000	4000	Rating			
ROOFS									
12	13	19	24	30	32	24			
12	16	26	37	45	49	29			
13	20	30	41	49	51	32			
14	24	34	44	53	56	36			
WALLS									
12	14	19	19	20	27	21			
13	16	25	32	37	46	28			
13	17	26	33	38	47	29			
26	40	51	60	64	65	50			
31	43	55	68	73	75	54			
	12 12 13 14 14 12 13 13 13 13 26	I2 I3 I2 I3 I2 I6 I3 20 I4 24 VVA 14 I3 16 I3 17 26 40 31 43	I2 I3 I9 I2 I3 I9 I2 I6 26 I3 20 30 I4 24 34 WALLS I2 I4 19 I3 I6 25 I3 I7 26 26 40 51 31 43 55	IC IC IC I2 I3 I9 24 I2 I3 I9 24 I2 I6 26 37 I3 20 30 41 I4 24 34 44 WALLS WALLS IS IS I2 I4 19 19 I3 I6 25 32 I3 I7 26 33 26 40 51 60 31 43 55 68	I2 I3 I9 24 30 12 13 19 24 30 12 16 26 37 45 13 20 30 41 49 14 24 34 44 53 WALLS 12 14 19 19 20 13 16 25 32 37 13 17 26 33 38 26 40 51 60 64 31 43 55 68 75	ROOFS 31 19 24 30 32 12 13 19 24 30 32 12 16 26 37 45 49 13 20 30 41 49 51 14 24 34 44 53 56 WALLS 12 14 19 19 20 27 13 16 25 32 37 46 13 16 25 32 37 46 13 17 26 33 38 47 26 40 51 60 64 65 31 43 55 68 73 75			

Sound Transmission Class (STC) in accordance with 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 35/8" by 25ga. on 24' centers.





CertainTeed Corporation

CEILINGS • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM 20 Moores Road Malvern, Pa 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com