

# Metal Building Insulation 202

CertainTeed Fiberglass Metal Building Insulation 202 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.

## Features & Benefits

Metal Building Insulation 202 reduces transmission of exterior sound to the interior of the building and absorbs reverberating sounds within the building.

## Composition & Materials

The product is composed of, uniformly textured, inorganic fiberglass and bonded with a thermoset resin to form a 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 standard.

## Sizes

Standard available sizes as noted in table below. Contact CertainTeed for non-standard sizes.

## Installation

The vapor retarder on Metal Building Insulation 202 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 fiberglass insulation should be completely filled.

## APPLICABLE STANDARDS, CODE COMPLIANCE

Model Building Codes:

- ICC

Material Standards:

- ASTM C991, Type I
- NAIMA 202
- GREENGUARD® Gold Certified

## FIRE RESISTANCE

Fire Hazard Classification:

- UL 723, ASTM E84, NFPA 255  
Max. Flame Spread Index: 25  
Max. Smoke Developed Index: 50
- CAN/ULC-S102

Non-Combustible:

- ASTM E136 / Meets requirements

## PHYSICAL/CHEMICAL PROPERTIES

PROPERTY (UNIT)	TEST	VALUE
Thermal Resistance:	ASTM C518 and/or ASTM C177	75°F (24°C) mean temperature
Water Vapor Sorption:	ASTM C1104	No greater than 5.0% by weight
Odor Emission:	ASTM C1304	Pass
Corrosiveness:	ASTM C665, ASTM C1617	Pass
Fungi Resistance:	ASTM C1338	Pass



# Metal Building Insulation

## Available Sizes

R-VALUES	NOMINAL THICKNESS		WIDTH		LENGTH	
R	IN	MM	IN	MM	FT	M
10	3-3/8	86	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5
11	3-3/4	95	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5
13	4-3/8	111	36, 48, 60, 72	914, 1219, 1524, 1829	75	22.9
16	5-1/4	133	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
19	6-3/8	162	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
21*	6-3/4	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*	9-1/4	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.

SOUND ABSORPTION - UNFACED										THERMAL PERFORMANCE					
R-VALUE	NORMAL THICKNESS		ABSORPTION COEFFICIENTS @ OCTAVE BAND FREQUENCIES (HZ)						NRC	NOMINAL THICKNESS (PRE-LAMINATION)		R-VALUE			
R	IN.	MM	125	250	500	1000	2000	4000		IN.	MM.	R	PRE-LAMINATION	POST-LAMINATION	RSI
10	3-3/8	86	0.29	0.82	1.02	0.94	0.96	0.98	0.95	3-3/8	86	10	10.8	10	1.76
11	3-3/4	95	0.39	0.91	1.01	0.92	0.93	0.98	0.95	3-1/4	95	11	11.9	11	1.94
13	4-3/8	111	0.53	0.97	1.04	0.90	0.95	0.98	0.95	4-3/8	111	13	14.0	13	2.29
16	5-1/4	133	0.67	1.05	1.02	0.92	0.98	0.99	1.00	5-1/4	133	16	17.3	16	2.82
19	6-3/8	162	0.89	1.22	1.02	0.98	1.01	1.00	1.05	6-3/8	162	19	20.5	19	3.35
										6-1/4	171	21	22.7	21	3.70
										8	203	25	27.0	25	4.40
										9-1/4	235	30	32.4	30	5.30

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

SOUND TRANSMISSION							
CONSTRUCTION TYPE	TRANSMISSION LOSS IN DB AT THE OCTAVE BAND FREQUENCIES (HZ)						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 5/8" 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 5/8" 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 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 3 5/8" by 25ga. on 24" centers.

## TECHNICAL SERVICES

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

## MAINTENANCE

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

## AVAILABILITY & COST

For availability and cost, contact your local contractor or distributor, or call Customer Experience team at 800-233-8990

## WARRANTY

Refer to CertainTeed's Limited Warranty. Full warranty information can be found at [certainteed.com/warranty](https://certainteed.com/warranty).



**CertainTeed**

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