

## Description

Knauf Unfaced Metal Building Insulation is a resilient, flexible blanket insulation made from inorganic fibers bonded by thermosetting resin. The blanket is suitable for application of facings and has sufficient tensile and bond strength for normal handling by the fabricator and contractor. The blanket may also be used unfaced as additional insulation to fill voids in wall and roofs of metal buildings.

## Application

When Knauf Unfaced Metal Building Insulation is faced with a suitable vapor retarder, it can be installed in exterior wall and roof surfaces of pre-engineered buildings. The product may be used unfaced to fill voids in walls and roof cavities of pre-engineered buildings.

## Features and Benefits

### Energy Conservation

- Knauf Unfaced Metal Building Insulation has excellent thermal properties and reduces the building's operating costs for heating and air conditioning.

### Identification

- Knauf Unfaced Metal Building Insulation is identified by manufacturer and R-value printed on the product.

### Permanence

- Knauf Unfaced Metal Building Insulation will not rot, mold or deteriorate and will not provide sustenance for vermin, rodents or insects.

## Specification Compliance

Knauf Unfaced Metal Building Insulation complies to the property requirements of the following specifications:

- HH-I-558C Form B, Class 6
- ASTM C 553 Type I, II
- ASTM C 991 Type I
- ASTM E 136
- CGSB 51-GP-11M Type I
- CAN/ULC S702-97

## Technical Data

### Surface Burning Characteristics

- When tested in accordance with ASTM E 84, NFPA 255 and CAN/ULC S102-M88, Knauf Unfaced Metal Building Insulation does not exceed:  
25 Flame Spread  
50 Smoke Developed

### Odor (ASTM C 1304)

- No objectionable odor emission.

### Corrosiveness (ASTM C 665)

- Does not accelerate corrosion on steel, copper or aluminum.

### Resistance to Fungi or Bacteria (ASTM C 1338)

- Does not promote growth of fungi or bacteria.

### Water Vapor Sorption (ASTM C 1104)

- Less than 0.2% by volume or 5% by weight.

### Temperature Resistance (ASTM C 411)

- The unfaced blanket will not deteriorate up to +350°F.

## Fiber Glass and Mold

Fiber glass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated with organic materials. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold, it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced. Air handling insulation used in the air stream must be discarded if exposed to water.

## Notes

The chemical physical properties of Knauf Unfaced Metal Building Insulation represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing and testing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

## Caution

If Knauf Unfaced Metal Building Insulation is compressed beyond a 5:1 ratio during or after lamination, the product can be damaged.

Check with your Knauf sales representative to assure information is current.

# Unfaced Metal Building Insulation

Submittal Date \_\_\_\_\_



Sounds Absorption Coefficients (ASTM C 423, Type A Mounting)							
	$\frac{1}{3}$ Octave Band Center Frequency (cycles/sec.)						NRC
	125	250	500	1000	2000	4000	
3"	.36	.76	1.04	.94	.98	1.00	.95
4"	.59	1.01	.97	.96	1.06	1.08	1.00
6"	1.18	1.36	1.02	1.02	1.12	1.07	1.15

Forms Available		
Thickness	Width	Length
3¼** (83 mm)	36"-60" (915-1524 mm) 72"-96" (1829-2438 mm)	100' (30.48 m)
3½** (89 mm)		100' (30.48 m)
4¼** (108 mm)		75' (22.86 m)
5** (127 mm)	72"-96" (1829-2438 mm)	50' (15.24 m)
6** (152 mm)	36"-60" (915-1524 mm) 72"-96" (1829-2438 mm)	50' (15.24 m)
8" (203 mm)		40' (12.19 m)
9½" (241 mm)		25' (7.62 m)

\* Meets NAIMA Standard 202-96 (REV. 2000)

R-Value (ASTM C 518 @ 75°F MT)		
Thickness	R-Value	RSI
3" (76 mm)	10.3	1.8
3½" (89 mm)	12.0	2.1
4" (101 mm)	13.6	2.3
5" (127 mm)	17.2	3.0
6" (152 mm)	20.6	3.5
8" (203 mm)	25.0	4.4
9½" (241 mm)	30.0	5.3