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Knauf Metal Building Insulation

MSDS

Description

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



Application

When Knauf Metal Building Insulation is faced with a suitable vapor retarder, it can be installed in exterior walls 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

- Low thermal conductivity.
- Superior acoustical performance.
- Fire-resistant, non-corrosive, tough, and resilient.

Benefits

- Energy conservation.
- Better temperature control.
- Lower operating costs.
- Noise control.
- Withstands damage from normal handling and shop abuse.
- Condensation control.
- Light reflectivity.

Technical Data

Surface Burning Characteristics

- Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84, NFPA 255, and UL 723.

Odor (ASTM C 1304)

- No objectionable odor emission.

Water Vapor Sorption (ASTM C 1104)

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

Corrosiveness (ASTM C 665)

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

Microbial Growth (ASTM C 1338)

- Does not promote microbial growth.

Temperature Range (ASTM C 411)

- The unfaced blanket will not deteriorate up to 350°F (177°C).

Website Options

Language

[English \(United States\)](#)
[français \(Canada\)](#)

Links To Other Country Sites

Search

Latest News

International

www.knaufinsulation.com
www.knauf.com

Noncombustibility (ASTM E 136)

- Noncombustible.

Specification Compliance

- ASTM C 553; Type I, II
- ASTM C 991; Type I
- HH-I-558C; Form B, Class 6
- NAIMA Standard 202-96 (REV. 2000)
(R-10, R-11, R-13, R-16, R-19 ONLY)

Notes

The chemical and physical properties of Knauf Metal Building Insulation represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing 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. Check with your Knauf regional office to assure information is current.

Caution

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



Knauf Metal Building Insulation products are certified for indoor air quality as a low emitting product by The GREENGUARD Environmental Institute™, to both the GREENGUARD Certification Program™ and the more stringent GREENGUARD For Children and Schools™ standard.
<http://www.greenguard.org/>

R-VALUE (ASTM C 518) @ 75°F MEAN TEMPERATURE

Thickness	R-Value
3 ¹ / ₄ "	10
3 ¹ / ₂ "	11
4 ¹ / ₄ "	13
5"	16
6"	19
8"	25
9 ¹ / ₂ "	30

SOUND ABSORPTION COEFFICIENTS, 1/3 OCTAVE BANDS (ASTM C 423, TYPE A MOUNTING)

Product	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
R-10	.36	.76	1.04	.94	.98	1.00	.95
R-13	.59	1.01	.97	.96	1.06	1.08	1.00
R-19	1.18	1.36	1.02	1.02	1.12	1.07	1.15

FORMS AVAILABLE

Thickness	Width	Length
3 ¹ / ₄ " (83 mm)	36" to 96" (914 mm to 2438 mm)	100' (30.48 m)
3 ¹ / ₂ " (89 mm)	36" to 96" (914 mm to 2438 mm)	100' (30.48 m)
4 ¹ / ₄ " (108 mm)	36" to 96" (914 mm to 2438 mm)	75' (22.86 m)
5" (127 mm)	36" to 96" (914 mm to 2438 mm)	50' (15.24 m)
6" (152 mm)	36" to 96" (914 mm to 2438 mm)	50' (15.24 m)
8" (203 mm)	36" to 96" (914 mm to 2438 mm)	40' (12.19 m)
9 ¹ / ₂ " (241 mm)	36" to 96" (914 mm to 2438 mm)	25' (7.62 m)