

Unfaced Metal Building Insulation for Canada

with ECOSE® Technology

Submittal Date _____

KNAUF INSULATION

DESCRIPTION

Knauf Insulation Unfaced Metal Building Insulation for Canada is a resilient, flexible unfaced blanket insulation made from inorganic fibers bonded with ECOSE Technology. This product is intended for the Canadian Market and 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.

ECOSE® TECHNOLOGY

ECOSE Technology is a revolutionary binder chemistry that enhances the sustainability of our products. The “binder” is the bond that holds our glass mineral wool product together and gives the product its shape and brown color. ECOSE Technology is a plant-based, sustainable chemistry that replaces the phenol/formaldehyde (PF) binder traditionally used in glass mineral wool products. Products using ECOSE Technology are formaldehyde-free and have reduced global warming potential when compared to our products of the past.

APPLICATION

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

PRODUCT FEATURES

Energy Conservation

- Excellent thermal properties and reduces the building's operating costs for heating and air conditioning

Durability

- Will not rot, mold or deteriorate and will not provide sustenance for vermin, rodents or insects

SUSTAINABILITY

Knauf Insulation's products used for thermal insulating purposes recover the energy that it took to make them in just hours or days, depending on the application. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.

Glass mineral wool insulation with ECOSE Technology contains three key ingredients:

- Recycled glass content, verified every 6 months by UL Environment
- Sand, one of the world's most abundant resources
- Our green chemistry initiative ECOSE Technology, which is validated to be formaldehyde-free

INDOOR AIR QUALITY

- UL Environment
 - GREENGUARD Certified
 - GREENGUARD GOLD Certified
 - Validated to be formaldehyde free

SPECIFICATION COMPLIANCE

- ASTM C553; Type I
- CAN/ULC S702

CERTIFICATIONS

- UL Environment
 - GREENGUARD
 - GREENGUARD Gold
 - Formaldehyde Free
 - UL/ULC Classified
- EUCEB

CAUTION

If Knauf Insulation Unfaced Metal Building Insulation for Canada with ECOSE Technology is compressed beyond a 5:1 ratio during or after lamination, the product's recovered thickness may be affected.

GLASS MINERAL WOOL AND MOLD

Glass mineral wool insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. 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.

NOTES

The chemical and physical properties of Knauf Insulation Unfaced Metal Building Insulation for Canada represent 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 Insulation Territory Manager to ensure information is current.

with **ECOSE**[®]
TECHNOLOGY

Unfaced Metal Building Insulation for Canada
with *ECOSE®* Technology
Submittal Sheet



Technical Data		
Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Combustibility	ASTM E136	Non-combustible
Odor Emission	ASTM C1304	Pass
Maximum Service Temperature	ASTM C411	350 °F (177 °C)
Mold Growth	ASTM C1338	Pass
Water Vapor Sorption (by weight)	ASTM C1104	5% or less
Surface Burning Characteristics (flame spread/smoke developed)	ASMT E84, NFPA 255, and CAN/ULC S102-M88	25/50

Forms Available			
R-Value (RSI)	Thickness	Width	Length
R-12 (2.1)	3½" (89 mm)	36"–96" (914 mm–2438 mm)	100' (30.5 m)
R-14 (2.5)	4¼" (108 mm)		75' (22.9 m)
R-17 (3.0)	5" (127 mm)		50' (15.3 m)
R-20 (3.5)	6" (152 mm)		50' (15.3 m)
R-21 (3.7)	6¼" (159 mm)		40' (12.2 m)
R-25 (4.4)	8" (203 mm)		35' (11.0 m)
R-28 (4.9)	8¼" (210 mm)		30' (9.1 m)
R-30 (5.3)	9¼" (235 mm)		25' (8.0 m)

Please contact your Territory Manager for availability.

This product is covered by one or more U.S. and/or other patents. See patent www.knaufinsulation.us/patents.



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