

# Metal Building Cavity Insulation

with ECOSE® Technology

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



## DESCRIPTION

Knauf Insulation Metal Building Cavity Insulation with ECOSE Technology is a resilient, flexible unfaced blanket insulation made from inorganic fibers bonded with ECOSE Technology. The cavity blanket is designed for use as a thermal and acoustical insulation to fill voids in walls and roofs of metal buildings. **It is not designed to meet the requirements of NAIMA 202-96 (Rev. 2000).**

## 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

Knauf Insulation Metal Building Cavity Insulation with ECOSE Technology is used as unfaced thermal and acoustical insulation to fill voids in walls and roofs of metal buildings. **The Cavity Insulation is not intended to meet the requirements of NAIMA 202-96 (Rev. 2000).**

## 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 six 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, II (Max. operating temp. 350° F)
- ASTM C991; Type I

## CERTIFICATIONS

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

## 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 Metal Building Cavity 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 Insulation Territory Manager to ensure information is current.



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)	ASTM E84, NFPA 255, UL 723	25/50

Forms Available			
R-value	Thickness	Width	Length
R-10	3¼" (76 mm)	48" (1219 mm)–72" (1824 mm)	100' (30.5 m)
R-11	3½" (89 mm)	48" (1219 mm)–88" (2235 mm)	90' (27.4 m)
R-13	4¼" (102 mm)	36" (914 mm)–72" (1824 mm)	80' (24.4 m)
R-16	5" (127 mm)	36" (914 mm)–96" (2438 mm)	60' (18.3 m)
R-19	6" (152 mm)		55' (16.8 m)
R-25	8" (203 mm)	48" (1219 mm)–72" (1824 mm)	40' (12.2 m)
R-30	9¼" (235 mm)		30' (9.1 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](http://www.knaufinsulation.us/patents).



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