KF-110 Commercial Building Insulation

with ECOSE® Technology

Submittal Date _____

DESCRIPTION

Knauf Insulation KF-110 Commercial Building Insulation with ECOSE Technology is an unfaced, semi-rigid batt insulation made from inorganic fibers bonded by a thermo-setting resin. The KF-110 batt has sufficient tensile, bond strength and rigidity for normal handling by a fabricator or contractor.

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 KF-110 Commercial Building Insulation with ECOSE Technology is designed for applications for wall panels and roof cavities in pre-engineered metal buildings or other types of commercial building applications in Canada. Examples include between steel studs, sandwich walls and roof panels.

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

SPECIFICATION COMPLIANCE

- ASTM C553; Type I, II (350° F max. operating temp.)
- CAN/ULC S702

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 KF-110 Commercial 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 Insulation Territory Manager to ensure information is current.

with ECOSE® TECHNOLOGY

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	177 °C (350 °F)
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, and CAN/ULC S102-M88	25/50

Forms Available

R-Value (RSI)	Thickness	Width	Length	Minimum Order
R-8 (1.4)	51 mm (2")	610 mm (24") 813 mm (32")	1219 mm (48")	62 MSF
R-12 (2.1)	76 mm (3")			50 MSF
R-14 (2.5)	89 mm (3½")			45 MSF
R-16 (2.8)	102 mm (4")			40 MSF
R-20 (3.5)	127 mm (5")			35 MSF
R-24 (4.2)	152 mm (6")			30 MSF

Please contact your Territory Manager for availability.

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