

# Canadian Specifications KF-110 Commercial Building Insulation

with ECOSE® Technology

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

**KNAUF**INSULATION  
its time to save energy

## Description

Knauf 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 new binder chemistry that makes Knauf Insulation products even more sustainable than ever. It is based on rapidly renewable bio-based materials rather than non-renewable petroleum-based chemicals traditionally used in fiberglass insulation products. ECOSE Technology reduces binder embodied energy and does not contain phenol, formaldehyde, acrylics or artificial colors.

## Application

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

## Features and Benefits

### Energy Conservation

- Knauf KF-110 Commercial Building Insulation has excellent thermal properties and reduces the building's operating costs for heating and air conditioning.

### Permanence

- Knauf KF-110 Commercial Building Insulation will not rot, mold or deteriorate and will not provide sustenance for vermin, rodents or insects.

## Low Cost Installation

- Knauf KF-110 Commercial Building Insulation is lightweight, easy to handle and fabricate, resulting in quicker installation and lower installed costs.

## Specification Compliance

- HH-I-558C; Form B, Class 6
- ASTM C 553 Type I, II
- ASTM C 991 Type I
- ASTM E 136
- CAN/ULC S702-97

## 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 CAN/ULC S102-M88.

### Odor (ASTM C 1304)

- No objectionable odor emission.

### Corrosiveness

#### (ASTM C 1617)

- The corrosion rate in mils/year will not exceed the rate of corrosion of 1 ppm chloride solution.

#### (ASTM C 665)

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

### Resistance to Microbial Growth (ASTM C 1338)

- Does not promote microbial growth.

### Water Vapor Sorption (ASTM C 1104)

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

### Maximum Service Temperature (ASTM C 411)

- Designed for applications to a maximum operating temperature of 350°C (177°F).

### Noncombustibility (ASTM E 136)

- Noncombustible.

## 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. 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 KF-110 Commercial Building Insulation with ECOSE Technology 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.

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

with **ECOSE**®  
TECHNOLOGY

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**KF-110 Commercial Building Insulation**

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| Standard Forms Available |              |               |                        |     |  |
|--------------------------|--------------|---------------|------------------------|-----|--|
|                          |              |               | Thermal Resistance "R" |     |  |
| Thickness                | Width        | Length        | R-Value                | RSI |  |
| 51 mm (2")               | 610 mm (24") | 1219 mm (48") | 8                      | 1.4 |  |
| 76 mm (3")               |              |               | 12                     | 2.1 |  |
| 102 mm (4")              | 813 mm (32") |               | 16                     | 2.8 |  |
| 127 mm (5")              |              |               | 20                     | 3.5 |  |
| 152 mm (6")              |              |               | 24                     | 4.2 |  |

| Made-to-Order Minimum Quantities |              |               |                        |     |        |
|----------------------------------|--------------|---------------|------------------------|-----|--------|
|                                  |              |               | Thermal Resistance "R" |     |        |
| Thickness                        | Width        | Length        | R-Value                | RSI | MTO    |
| 51 mm (2")                       | 610 mm (24") | 1219 mm (48") | 8                      | 1.4 | 44 MSF |
| 76 mm (3")                       |              |               | 12                     | 2.1 | 29 MSF |
| 102 mm (4")                      | 813 mm (32") |               | 16                     | 2.8 | 22 MSF |
| 127 mm (5")                      |              |               | 20                     | 3.5 | 18 MSF |
| 152 mm (6")                      |              |               | 24                     | 4.2 | 15 MSF |