

Building Insulation with ECOSE® Technology

Submittal Date _____

KNAUF INSULATION
it's time to save energy

Product Provided

○ Unfaced Batts and Blankets

EcoBatt® Insulation with ECOSE® Technology

Glasswool insulation is designed to be friction fit between framing members. Specifier permitted choice of warm side vapor retarders, including foil backed gypsum board or polyethylene film.

Unfaced glasswool insulation is also an excellent sound control insulation, designed for installation in floor systems and in partition walls between rooms or dwellings.

When tested in accordance with ASTM E 84, material has a Fire Hazard Classification of 25/50 or less.

Complies with the requirements of the applicable ASTM and cancelled federal specifications:

ASTM C 665, Type I, Class A

HH-I-521F, Type I, Class A

ASTM E 136

- | | |
|------------|------------|
| ○ 2½" R-8 | ○ 8" R-25 |
| ○ 3½" R-11 | ○ 9" R-26 |
| ○ 3½" R-13 | ○ 10" R-30 |
| ○ 6¼" R-19 | ○ 12" R-38 |
| ○ 6½" R-22 | |

○ Kraft Faced Batts and Blankets

EcoBatt® Insulation with ECOSE® Technology

Glasswool insulation with asphalted kraft paper with or without stapling flanges. Kraft vapor retarder has vapor transmission (permeance) rating of 1.0 or less.

Kraft Faced glasswool insulation is also an excellent sound control insulation, designed for installation in floor systems and in partition walls between rooms or dwellings. Kraft facing will burn and should not be left exposed. Install kraft facing in contact with approved finish material.

Complies with the requirements of the applicable ASTM and cancelled federal specifications:

ASTM C 665, Type II, Class C

HH-I-521F, Type II, Class C

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|------------|------------|
| ○ 3½" R-11 | ○ 9" R-26 |
| ○ 3½" R-13 | ○ 10" R-30 |
| ○ 6¼" R-19 | ○ 12" R-38 |
| ○ 6½" R-22 | |

Unfaced HD EcoBatt® Insulation

- Certified for indoor air quality as a low emitting product by the GREENGUARD Environmental Institute.

○ Foil Faced Batts

EcoBatt® Insulation with ECOSE® Technology

Glasswool foil insulation with asphalted-coated kraft/foil facing with flanges. Foil vapor retarder has vapor transmission (permeance) rating of .05 or less. Insulation should not be left exposed. Cover with fire rated finishing surface.

Complies with the requirements of the applicable ASTM and cancelled federal specifications:

ASTM C 665, Type III, Class B

HH-I-521F, Type III, Class B

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|------------|------------|
| ○ 3½" R-11 | ○ 9" R-26 |
| ○ 3½" R-13 | ○ 10" R-30 |
| ○ 6¼" R-19 | ○ 12" R-38 |

○ FSK-25 Foil Faced Batts

EcoBatt® Insulation with ECOSE® Technology

Glasswool foil insulation with flanged reinforced foil/scrim/kraft facing with an average vapor transmission (permeance) rating of .04.

When tested in accordance with ASTM E 84, material has a Fire Hazard Classification of 25/50 or less.

Complies with the requirements of the applicable ASTM and cancelled federal specifications:

ASTM C 665, Type III, Class A

HH-I-521F, Type III, Class A

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|------------|------------|
| ○ 3½" R-11 | ○ 9" R-26 |
| ○ 3½" R-13 | ○ 10" R-30 |
| ○ 6¼" R-19 | ○ 12" R-38 |
| ○ 8" R-25 | |

○ Specialty Insulation

Sill Sealer with ECOSE® Technology

A flexible unfaced glasswool insulation designed for use between the sill plate and the foundation wall to provide an air infiltration barrier.

When tested in accordance with ASTM E 84, material has a Fire Hazard Classification of 25/50 or less.

Complies with the requirements of the applicable ASTM and cancelled federal specifications:

ASTM C 665, Type I, Class A

HH-I-521F, Type I, Class A

- 1¼" x 6"

ECOSE® Technology Description

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.

Sustainability

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

Fiber glass insulation with ECOSE Technology contains three primary ingredients:

- Sand, one of the world's most abundant and renewable resources.
- Post-consumer recycled bottle glass.
- ECOSE Technology, which reduces binder embodied energy by up to 70% and total product embodied energy by approximately 4%.

Thermal Performance

Thermal resistance (R-value) of the blanket insulation only is certified to be as represented above when measured at a mean temperature of 75°F (24°C) and subject to manufacturing and testing tolerances.

Fiber Glass and Mold

Glasswool 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.

Quality Assurance

On-line production is periodically tested to ensure that Knauf insulation delivers the stated thermal performance or better when properly installed at the label thickness.

See Knauf Commercial Building Insulation Submittal (BI-SS-7) or High Density Building Insulation Submittal (BI-SS-13) for additional products.



Knauf EcoBatt® Building Insulation is certified for indoor air quality as a low emitting product by The GREENGUARD Environmental Institute to both the GREENGUARD Certification ProgramSM and the more stringent GREENGUARD For Children and SchoolsSM standard. www.greenguard.org

