EcoBatt® Integrated Roof Deck (IRD) Insulation
with ECOSE® Technology

DESCRIPTION
EcoBatt IRD Insulation is the proven insulation solution preferred by professional installers. It provides the insulation component of an unvented attic assembly. New code requirements offer insulation options for vented attics—where HVAC systems and water heaters are often placed in states where basements are not standard. EcoBatt IRD insulation is an economical solution to support Title 24 Option B High-Performance Attic Prescriptive Method code requirements.

APPLICATION
- Wood Frame Construction
  - Vented High Performance attics
  - Unvented High Performance attics

SPECIFICATION COMPLIANCE
- ASTM C665; Type II, Class C, Category 2
- California Energy Commission

FIBERGLASS AND MOLD
Fiberglass 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.

FORMS AVAILABLE

<table>
<thead>
<tr>
<th>R-Value</th>
<th>Facing</th>
<th>Dimensions</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-19</td>
<td>KSK, PERF</td>
<td>6 1/4&quot; x 24&quot; x 48&quot;</td>
<td>128 sq. ft./bag</td>
</tr>
<tr>
<td>R-38</td>
<td>KSK, PERF</td>
<td>12&quot; x 24&quot; x 48&quot;</td>
<td>64 sq. ft./bag</td>
</tr>
</tbody>
</table>

DOING MORE FOR THE WORLD WE LIVE IN.

Knauf Insulation products with ECOSE® Technology are made using our patented, bio-based binder - a smarter alternative to the phenol/formaldehyde (PF) binder traditionally used in fiberglass products. The bio-based binder holds our product together, gives the product its unique appearance and makes it formaldehyde-free.

All of our products are made from sustainable resources, such as recycled glass and sand. And we’re proud to be putting glass bottles back to work rather than into landfills. Our products are made with a minimum of 50% recycled glass—totaling an average of 26 million bottles each month.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property (Unit)</th>
<th>Test</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosiveness</td>
<td>ASTM C665</td>
<td>Does not accelerate corrosion of steel</td>
</tr>
<tr>
<td>Maximum Service Temperature</td>
<td>ASTM C518</td>
<td>R-19, R-38</td>
</tr>
<tr>
<td>Water Vapor Sorption (by weight)</td>
<td>ASTM C1104</td>
<td>Less than 5%</td>
</tr>
<tr>
<td>Mold Growth</td>
<td>ASTM C1338</td>
<td>Pass</td>
</tr>
<tr>
<td>Surface Burning Characteristics</td>
<td>ASTM E84</td>
<td>Kraft facing will burn and should not be left exposed</td>
</tr>
</tbody>
</table>
HIGH PERFORMANCE VENTED ATTICS (R-19 IRD)
New code requirements offer insulation options for vented attics—where HVAC systems are often placed in states where basements are not standard. EcoBatt IRD insulation is an economical solution to support the Title 24 Option B High-Performance Attic code requirements.

Defining California’s Title 24 Code Requirements — Title 24, Section: 150.1(c).1.ii—Option B High-Performance Vented Attic
A minimum R-value of insulation installed between the roof rafters in contact with the roof deck and an additional layer of ceiling insulation located between the attic and the conditioned space. The EcoBatt IRD solution applies to California’s climate zones 4 and 8–16.

Compliance Credits: 1–3% compliance credits over R-13 wired roof deck batts*

*Two-story, 1,400 sq. ft. attic with R-38 + R-19 insulation vs. R-38 + R-13

HIGH PERFORMANCE UNVENTED ATTICS (R-38 IRD)
Potential Cost Savings vs Vented Attics
• Eliminates ceiling insulation
• Eliminates O’Hagin’s or ridge vents
• Eliminates soffit, gable vents
• Eliminates radiant barrier where required

IRD provides the insulation component of an unvented attic assembly. Air sealing the attic is another important component of the unvented attic and special attention should be given to critical areas such as the roof deck, gable ends, eaves and any roof penetrations.

Compliance Credits: 2.4–6.2% compliance credits over R-13 wired roof deck batts**

**Unvented two-story, 1,400 sq. ft. attic vs. R-38 + R-13 vented

CERTIFICATIONS

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