INSTALLING ECOBATT IRD INSULATION IS SIMPLE.
This guide will provide you a list of equipment and materials, and the necessary steps to install EcoBatt IRD. Please review this document in full before starting installation. If you have any questions, please call Technical Services at 1-800-825-4434, ext. 8727.

DEFINING CALIFORNIA’S TITLE 24 CODE REQUIREMENTS

**TITLE 24, SECTION: 150.1(C).1.II—OPTION B HIGH-PERFORMANCE VENTILATED 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 system applies to California’s climate zones 4 and 8–16.

RECOMMENDED MATERIALS AND EQUIPMENT

- EcoBatt IRD insulation
- Low-pressure air compressor
- Pneumatic or cordless staple gun to install ½" crown/½" leg galvanized staple
- Ladder or scaffolding
- Batt knife
- Dust mask, safety glasses, and gloves
The EcoBatt® IRD Insulation System from Knauf Insulation

Designed to easily and economically support the Title 24 Option B High-Performance Vented Attic code requirements or for Unvented Attics, EcoBatt Integrated Roof Deck allows for insulation to be installed quickly and offers a wide range of benefits:

- QII installations easily achieved
- Saves time and money on projects
- Safe and proven thermal and acoustic protection
- Continuous, uniform layer of insulation forming a thermal break
- Easy handling for overhead installations
- Declare listed

1 JOBSITE PREP

- Preferably, install EcoBatt IRD prior to HVAC installation.
- Make sure area is clear of debris.
- Make sure air lines and cords are free of snags or catch-points if using a pneumatic stapler. Cordless staplers are also approved for installation.
- Adjust the air compressor’s pressure to ~125 psi.
- Adjust the stapler’s pressure to leave roughly $\frac{1}{8}''$–$\frac{1}{16}''$ of the staple crown revealed.
- Set up scaffolding or ladder, and ensure all parts are locked.

AIR COMPRESSOR PRESSURE
- 125 PSI

STAPLER’S PRESSURE
$\frac{1}{8}''$–$\frac{1}{16}''$ STAPLE CROWN REVEALED

1/8"
2 Unvented Attics

- If installing in an Unvented Attic application, make sure the attic area is properly air sealed, paying particular attention to the roof deck, gable ends, eaves, and any roof penetrations.

3 Batt Installation

- Install IRD batts along the eave, working up the slope of the roof deck.
- Ensure the facing is tight against the roof deck and the edges of the IRD batt touch each other beneath the top chord of the roof truss, creating a thermal break. The friction fit will hold the batt in place until stapling.

4 Stapling

- A total of six (6) staples per batt: one in each corner a minimum of 6” from either edge, and two (2) additional down the center line of the batt, approximately 16” from both ends of the batt. (See inset for detail.)
- The IRD batts will envelop the bottom of the 2x4 roof truss, so that the framing is hidden from view—creating a thermal break.

5 Install the Insulation Stops

- Only required for vented attics.
- Install insulation stops at bottom of eave, allowing air flow between ceiling insulation and IRD roof deck batts.
USE KNAUF INSULATION THROUGHOUT YOUR PROJECT

Our products work together to seal the building envelope—offering enhanced comfort, energy-efficiency and sustainability.

Learn more about our full product line by visiting knaufinsulation.us/en/products

Defining California’s Title 24 Code Requirements

(c) Prescriptive Standards/Component Package. Buildings that comply with the prescriptive standards shall be designed, constructed, and equipped to meet all of the requirements for the appropriate Climate Zone shown in Table 150.1-A. In Table 150.1-A, a NA (not allowed) means that feature is not permitted in a particular Climate Zone and a NR (no requirement) means that there is no prescriptive requirement for that feature in a particular Climate Zone. Installed components shall meet the following requirements:

1. Insulation.
   A. Roof and Ceiling insulation shall be installed in a ventilated attic with an R-value equal to or greater than that shown in Table 150.1-A meeting options i through iii below.
   i. Option A: A minimum R-value of continuous insulation installed above the roof rafters in contact with the roof deck and an additional layer of ceiling insulation located between the attic and the conditioned space when meeting Section 150.1(c)9A; or
   ii. Option B: 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 when meeting Section 150.1(c)9A; or
   iii. Option C: A minimum R-value of ceiling insulation located between the attic and the conditioned space when meeting Section 150.1(c)9B.

   NOTE: Low-rise residential single-family and multi-family buildings with the ducts and air handler located in the conditioned space, as specified by Section 150.1(c)9B, need only comply with insulation requirements of Option C.

Wood Frame Construction

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Reference Number</th>
<th>R-Value</th>
<th>Thickness</th>
<th>Description</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>596035</td>
<td>223IRD</td>
<td>R-19</td>
<td>6½&quot; (1,599 mm)</td>
<td>KSK 6½&quot; x 24&quot; x 48&quot;</td>
<td>128 sq. ft./bag</td>
</tr>
<tr>
<td>625074</td>
<td>237IRD</td>
<td>R-38</td>
<td>12&quot; (305 mm)</td>
<td>KSK 12&quot; x 24&quot; x 48&quot;</td>
<td>64 sq. ft./bag</td>
</tr>
</tbody>
</table>

Knauf Insulation, Inc.
One Knauf Drive
Shelbyville, IN 46176
Sales and Marketing ...... (800) 825-4434, ext. 8485
Technical Support......... (800) 825-4434, ext. 8727
www.knaufinsulation.us

© 2018 Knauf Insulation, Inc. BIBT001/GG 09-18
Patent Pending