

Seal and Insulate with ENERGY STAR® Insulation Installation Check Sheet

The following **must** be included in the installation instructions in order to fully meet all applicable program requirements:

NOTE: For reflective insulation, additional requirements are provided in a separate document, *Guidance for Reflective Insulation Installation Instructions*.

NOTE: The following product types are **not** included in the program scope: Radiant barriers, duct or pipe insulation, insulation chinking materials, small volumes of spray foams, flashing, vents, baffles, house wraps, structural insulated panels (SIPs), paints, coatings, and exterior or interior finishing. R-values claimed for foil faced laminated systems for exterior applications (not in a formally enclosed airspace) are also not included in the scope of this program.

OK	Requirement
<input type="checkbox"/>	<p>Personal Protective Equipment</p> <p>A description of recommended Personal Protective Equipment (PPE) for safe and effective handling and installation of product (e.g. eye wear, gloves, other skin protection, respiratory protection such as dust masks or respirator, etc.).</p>
<input type="checkbox"/>	<p>Locations/Applications</p> <p>A description of the location(s) or scenario(s) in the home this set of instructions is applicable to. The application should apply to a whole or continuous surface such as a wall, ceiling or floor.</p>
<input type="checkbox"/>	<p>Site Preparation</p> <p>A description of any site preparation needed before beginning installation to ensure the user will get the full performance from the product (e.g. dry surface, removal of obstructions, etc.)</p>
<input type="checkbox"/>	<p>Air Sealing</p> <p>For blanket, board, and loose fill insulation types, a detailed description of recommended air sealing methods (e.g. caulking the cavity before inserting insulation, taping board insulation joints, sealing typical holes and gaps, etc.) to ensure the user will get the full thermal performance from the product.</p>
<input type="checkbox"/>	<p>Installation Instructions</p>
	<p><input type="checkbox"/> A step by step description of product installation methods to achieve the listed R-value such as cutting, shaping, forming or other manipulation of the product, proper insertion of product into enclosed spaces, proper mixing, proper blowing strategies, etc.</p>
	<p><input type="checkbox"/> Recommended characteristics of mechanical fasteners (e.g. type, size, spacing, corrosion protection requirements, etc.) and/or adhesives (e.g. type, bead size, cure time, etc.) necessary to maintain the insulation in place.</p>
	<p><input type="checkbox"/> Clearly identify whether the product is required by the manufacturer to be installed by a trained or certified installer.</p>
	<p><input type="checkbox"/> A statement that the product must not contact hot objects (e.g. chimneys, furnace and water heater flues, lighting fixtures, etc.) and to maintain gaps in accordance with local codes.</p>
	<p>NOTE: Step by step product installation instructions may be either included in the report or attached at the end of the report.</p>
	<p>NOTE: Information that is not instructional or not relevant to the certified product should not be included (e.g. marketing claims, instructions not applicable to the product under certification, product performance claims, product physical properties, etc.)</p>

OK	Requirement			
<input type="checkbox"/>	<p>Product and Application Specific Instructions</p> <p><input type="checkbox"/> For blanket or loose fill insulation, a description of inserting baffles in vented attic applications.</p> <p><input type="checkbox"/> For loose fill and spray foam insulation, a brief description of the recommended equipment needed to apply the product.</p> <p><input type="checkbox"/> For blanket, spray foam, and board insulation that is installed over crawlspace walls, a description of the interaction of the product with the vapor barrier that covers the floor and comes up the walls.</p> <p><input type="checkbox"/> For foam plastic (e.g. spray foam or board foam) insulation installed over crawlspace walls, a description of one method of ensuring a termite inspection gap near the sill plate and the ground to provide guidance to installers in "very heavy" termite infestation probability areas where this is a code requirement.</p>			
	<p><input type="checkbox"/> For board and spray foam insulation, a statement indicating that local codes should be consulted in regards to appropriate thermal and ignition barriers for use with the product.</p>			
	<p>NOTE: It is optional to include visuals of the above (Product and Application Specific Instructions) instructional details in the diagrams.</p>			
<input type="checkbox"/>	<p>Diagrams and Labels</p> <p>At least one detailed drawing, diagram, illustration, picture or other graphic representation for each location or scenario for which the product is certified showing the proper installation and orientation of the product. Typical scenarios:</p> <table border="1" data-bbox="188 926 1516 1203"> <tr> <td data-bbox="188 926 651 1203"> <input type="checkbox"/> Above grade wall (inside) <input type="checkbox"/> Above grade wall (outside) <input type="checkbox"/> Below grade wall (inside) <input type="checkbox"/> Below grade wall (buried outside) <input type="checkbox"/> Crawlspace wall (under house) </td> <td data-bbox="651 926 1065 1203"> <input type="checkbox"/> Roof or rafters (cathedral ceiling) <input type="checkbox"/> Attic floor <input type="checkbox"/> Attic knee wall <input type="checkbox"/> Ceiling of basement or crawlspace </td> <td data-bbox="1065 926 1516 1203"> <input type="checkbox"/> Over concrete floor <input type="checkbox"/> Inside/under concrete floor <input type="checkbox"/> Other _____ </td> </tr> </table> <p>NOTE: More than one drawing, diagram, illustration, picture or other graphic representation per location may be provided</p> <p><input type="checkbox"/> All components of the wall, ceiling, roof, or floor assembly that the insulation is installed in are shown in the diagram to provide visual context to the reader. For example, for attic/basement/crawlspace applications joists, insulation supporting materials, and fasteners should be shown; for wall applications studs, sheathing or cross bracing, insulation support materials, fasteners, and air spaces should be shown; for basement/crawlspace applications studs, sill plate, joists, foundation wall, sheathing or cross bracing, insulation support materials, fasteners, and air spaces should be shown.</p> <p><input type="checkbox"/> All two-dimensional (2D) diagrams are drawn to scale, three-dimensional (3D) diagrams are graphically proportional, and any dimensions shown in the diagrams shall identify actual sizes of components, not nominal sizes.</p> <p><input type="checkbox"/> Labels or text are provided to identify components in the diagrams when it is not obvious what the component is, or if not described in the instructions.</p> <p>NOTE: Only diagrams that are applicable to the certified insulation product and/or the assembly under consideration should be included.</p>	<input type="checkbox"/> Above grade wall (inside) <input type="checkbox"/> Above grade wall (outside) <input type="checkbox"/> Below grade wall (inside) <input type="checkbox"/> Below grade wall (buried outside) <input type="checkbox"/> Crawlspace wall (under house)	<input type="checkbox"/> Roof or rafters (cathedral ceiling) <input type="checkbox"/> Attic floor <input type="checkbox"/> Attic knee wall <input type="checkbox"/> Ceiling of basement or crawlspace	<input type="checkbox"/> Over concrete floor <input type="checkbox"/> Inside/under concrete floor <input type="checkbox"/> Other _____
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<input type="checkbox"/>	<p>Re-Entry/Re-Occupancy Times</p> <p>A listing of the time period, time range, or a table of ranges for wet insulation to dry (such as wet-spray cellulose or fiberglass) or for any chemical reactions to be completed for safe re-entry into building (such as spray or pour foam insulations).</p>			