



## Air Barrier and Insulation Installation Checklist

This checklist, in accordance with IECC 2021 and 2021 Table N1102.4.1, must be completed and provided to the inspector prior to the wallboard inspection<sup>1</sup>.

Project Address: \_\_\_\_\_ Permit Number: \_\_\_\_\_

Permit Holder Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

<b>General</b>	A continuous air barrier is installed in the building envelope.	<input type="checkbox"/>
	The exterior thermal envelope contains a continuous air barrier.	<input type="checkbox"/>
	Breaks or joints in the air barrier are sealed.	<input type="checkbox"/>
	Air-permeable insulation are not be used as a sealing material.	<input type="checkbox"/>
<b>Ceiling / Attic</b>	The air barrier in any dropped ceiling/soffit are aligned with the insulation and any gaps in the air barrier are sealed.	<input type="checkbox"/>
	Access openings, drop down stairs or knee wall doors to unconditioned attic spaces are sealed.	<input type="checkbox"/>
	Insulation is installed in each ceiling assembly that separates conditioned space from unconditioned space or outdoors.	<input type="checkbox"/>
	Recessed lighting fixtures installed in the building envelope are airtight, IC rated, and buried or surrounded with insulation	<input type="checkbox"/>
	Recessed light fixtures installed in the building thermal envelope are air sealed with a gasket or caulked between the housing and the ceiling covering.	<input type="checkbox"/>
<b>Walls</b>	Insulation is installed in all wall assemblies that separate conditioned space from unconditioned space or the outside.	<input type="checkbox"/>
	Cavity insulation is R-20 or greater or a combination of cavity and continuous insulation is installed with R-13 or greater cavity + R-3.8 or greater continuous. <sup>3</sup>	<input type="checkbox"/>
	The junction of the foundation and sill plate are sealed.	<input type="checkbox"/>
	The junction of the top plate and the top of exterior walls are sealed.	<input type="checkbox"/>
	Knee walls are sealed.	<input type="checkbox"/>
	Walls are framed to allow the corner to be insulated or exterior continuous insulation installed. Corners are insulated with a material that is at least R-3 per inch.	<input type="checkbox"/>
	Headers of frame walls are insulated by completely filling available space with a material that is at least R-3 per inch.	<input type="checkbox"/>
	Exterior thermal envelope insulation for framed walls are installed in substantial contact and continuous alignment with the air barrier.	<input type="checkbox"/>
<b>Windows, Skylights, Doors</b>	The space between window/door jambs & framing and skylights & framing are sealed.	<input type="checkbox"/>
	Window U-factors are 0.30 or below, or U-factors are 0.37 or below, and SHGCs are 0.40 or below. Skylight U-factors are 0.55 or below. <sup>3</sup>	<input type="checkbox"/>
<b>Rim Joists</b>	Junctions of the rimboard to the sill plate and the rim board and the subfloor are air sealed.	<input type="checkbox"/>
	Exterior air barrier is provided to rim joist.	<input type="checkbox"/>
	Rim joists are insulated so that insulation maintains permanent contact with the exterior rim board.	<input type="checkbox"/>
	Wall cavity insulation is R-20 or greater, or a combination of cavity and continuous insulation is installed with R-13 or greater cavity + R-3.8 or greater continuous. <sup>3</sup>	<input type="checkbox"/>
<b>Floors (including above garage/cantilevered floors)</b>	Insulation is installed in all floor assemblies that separate conditioned space from unconditioned space or the outside.	<input type="checkbox"/>
	Floor insulation is R-30 or greater. <sup>3</sup>	<input type="checkbox"/>
	The air barrier is installed at any exposed edge of insulation.	<input type="checkbox"/>
	Floor framing cavity insulation is installed to maintain permanent contact with the underside of subfloor decking. <sup>2</sup>	<input type="checkbox"/>
<b>Basement Crawl Space and Slab Foundations</b>	Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped. Class I vapor retarder are not used as an air barrier on below grade walls. <sup>4</sup>	<input type="checkbox"/>
	Vapor retarder joints for crawl space walls overlap by 6-inches, and are sealed or taped. Vapor retarder edges do not extend less than 6-inches up stem walls, and are attached to the stem wall. <sup>4</sup>	<input type="checkbox"/>
	R-10 or greater continuous insulation is installed <sup>6</sup> and is permanently attached to the below grade walls. <sup>4</sup>	<input type="checkbox"/>
	R-15 slab-on-grade floor insulation is installed for a minimum depth of 24" below grade. <sup>5</sup>	<input type="checkbox"/>
	Slab on grade insulation is extended downward from top of slab on the outside or inside of the foundation wall.	<input type="checkbox"/>
	Slab on grade insulation located below grade is extended 24-inches below grade by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building.	<input type="checkbox"/>
	Slab on grade insulation extending out from the building is protected by pavement or by not less than 10-inches of soil.	<input type="checkbox"/>
Crawl space wall insulation is extended from the floor to the finished grade elevation, then vertically or horizontally for not less than an additional 24-inches. <sup>4</sup>	<input type="checkbox"/>	



	Basement wall insulation is installed from the top of the basement wall down to 10 feet below grade or to the basement floor, whichever is less.	<input type="checkbox"/>
	Penetrations through concrete foundation walls and slabs are air sealed.	<input type="checkbox"/>
Shafts and Penetrations	Duct shafts and flue shafts opening to exterior or unconditioned space are sealed.	<input type="checkbox"/>
	Utility Penetrations of the air barrier are caulked, gasketed or otherwise sealed and will allow for expansion, contraction of materials and mechanical vibration.	<input type="checkbox"/>
	Insulation is fitted tightly around utilities passing through shafts and penetrations in the building thermal envelope to maintain required R-Value.	<input type="checkbox"/>
Narrow Cavities	Narrow cavities of 1 inch or less that are not able to be insulated shall be air sealed.	<input type="checkbox"/>
	Batts in narrow cavities are cut to fit, or narrow cavities are filled by insulation that on installation readily conforms to the available cavity space.	<input type="checkbox"/>
Garage Separation	Air sealing is provided between the garage and conditioned spaces.	<input type="checkbox"/>
	Insulated portions of the garage separation assembly is installed in accordance with floor insulation requirements.	<input type="checkbox"/>
Plumbing and Wiring	All holes created by wiring, plumbing or other obstructions in the air barrier assembly shall be air sealed.	<input type="checkbox"/>
	Insulation shall be installed to fill the available space and surrounding wiring, plumbing, or other obstructions, unless the required R-value can be met by installing insulation and air barrier systems completely to the exterior side of the obstructions.	<input type="checkbox"/>
Shower/ Tub on Exterior Walls	Exterior walls adjacent to showers and tubs are insulated	<input type="checkbox"/>
	The air barrier installed at exterior walls adjacent showers and tubs shall separate them from the showers and tubs.	<input type="checkbox"/>
Electrical/ Phone Box on Exterior Walls	The air barrier is installed behind electrical, or communication boxes or air-sealed boxes are installed.	<input type="checkbox"/>
HVAC Register Boots	HVAC register boots that penetrate building thermal envelope are sealed to the subfloor or drywall.	<input type="checkbox"/>
Concealed Sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	<input type="checkbox"/>
Roof/ Ceiling Insulation	Insulation will be inspected during final insulation inspection. (Leave remaining boxes unchecked.)	<input type="checkbox"/>
	Insulation is installed in each ceiling assembly that separates conditioned space from unconditioned space or outdoors	<input type="checkbox"/>
	Insulation R-value is R-49 or greater. <sup>5</sup> (A minimum of R-38 insulation is allowed if the full height of uncompressed insulation extends over the top of the walls.)	<input type="checkbox"/>

<sup>1</sup> If choosing the ENERGY STAR certification path, a completed Thermal Enclosure System checklist may be attached in lieu of completing this checklist.  
<sup>2</sup> Exception: Floor framing cavity insulation is installed in contact with top side of sheathing, OR continuous insulation is installed on the underside of the floor joists and extending from the bottom to the top of all perimeter floor framing members.  
<sup>3</sup> Exception: Values match those listed in an approved REScheck, Simulated Performance, or ERI report.  
<sup>4</sup> Exception: Not required where crawl space walls are associated with a crawl space that is vented to the outdoors and the floor overhead is insulated in accordance with the minimum floor insulation values specified and installed per IECC.  
<sup>5</sup> Exception: Values match those listed in an approved REScheck, Simulated Performance, or ERI report.

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**NOTES:**

**Declaration & Signature**

I hereby certify that the information contained herein are true and correct to the best of my knowledge and belief.

Inspecting Company: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
 Tester Name (print): \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ BPI Number: \_\_\_\_\_ HERS Rater Number: \_\_\_\_\_