

AIR BARRIER & INSULATION INSTALLATION CHECKLIST

(Based on IECC 2015 and 2018 Table R402.4.1.1)

House Address: _____ Permit #: _____ Date: _____

Permit holder: _____ Phone: _____

This checklist must be completed and provided to the inspector prior to the wallboard inspection.¹

PRE-DRYWALL INSPECTION		
General	<input type="checkbox"/>	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 shall not be used as a sealing material.
Ceiling/attic	<input type="checkbox"/>	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"/>	Recessed lighting fixtures installed in the building envelope are air tight & IC rated.
Walls	<input type="checkbox"/>	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 ² or a combination of cavity and continuous insulation is installed with R-13 or greater cavity + R-5 or greater continuous. ³
	<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 have an air barrier on the attic side of the wall.
	<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.
Windows, skylights and doors	<input type="checkbox"/>	The space between window/door jambs & framing and skylights & framing are sealed.
	<input type="checkbox"/>	Window and door U-factors are 0.35 or below and SHGCs are 0.40 or below. Skylight U-factors are 0.55 or below. ²
Rim joists	<input type="checkbox"/>	Rim joists are insulated and sealed to the floor joists, subfloor, and wall plate
	<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-5 or greater continuous. ²
Floors (including above garage and cantilevered floors)	<input type="checkbox"/>	Insulation is installed in all floor assemblies that separate conditioned space from unconditioned space or the outside.
	<input type="checkbox"/>	Floor insulation is R-19 or greater. ²
	<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. ⁴

¹ If choosing the ENERGY STAR certification path, a completed Thermal Enclosure System checklist may be attached in lieu of completing this checklist.

² Exception: R-18 (minimum) cavity insulation is permitted if the wall framing factor is 20% or less and/or walls are framed at 24" o.c.

³ Exception: Values match those listed in an approved REScheck, Simulated Performance, or ERI report.

⁴ Exception: Continuous insulation is installed on the underside of the floor joists.



Unvented crawl space walls	<input type="checkbox"/>	Exposed earth in unvented crawl spaces are covered with a Class I vapor retarder with overlapping joints taped.
	<input type="checkbox"/>	R-10 or greater continuous insulation or R-13 or greater cavity insulation is installed ⁵ and is permanently attached to the crawlspace walls.
Shafts and penetrations	<input type="checkbox"/>	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space are sealed.
Narrow cavities	<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.
Garage separation	<input type="checkbox"/>	Air sealing are provided between the garage and conditioned spaces.
Plumbing and wiring	<input type="checkbox"/>	Batt insulation is cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	<input type="checkbox"/>	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.
Electrical/phone box on exterior walls	<input type="checkbox"/>	The air barrier is installed behind electrical or communication boxes or air-sealed boxes are installed.
HVAC register boots	<input type="checkbox"/>	HVAC register boots that penetrate building thermal envelope are sealed to the subfloor or drywall.
Concealed sprinklers	<input type="checkbox"/>	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.
Roof/ceiling insulation	<input type="checkbox"/>	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. ⁵ (A minimum of R-38 insulation is allowed if the full height of uncompressed insulation extends over the top of the walls.)

Notes:

Inspecting company: _____ Phone: _____

Tester Name (print): _____ Signature: _____ Date: _____

BPI or HERS Rater certification number: BPI no: _____ HERS Rater no: _____

Find a qualified professional at:

<https://peconewhomes.com/builders/find-participating-raters/> | <http://www.bpi.org/locator-tool/find-a-contractor>

⁵ Exception: Values match those listed in an approved REScheck, Simulated Performance, or ERI report.