

NEW JERSEY'S CLEAN ENERGY PROGRAM™

IECC 2015 TIER 1 INSPECTION CHECKLIST

Home Address: _____ City: _____ Permit Date: _____		Rater Verified	Must Correct	N/A
R103.2 Information on construction documents				
R103.2.1 Building thermal envelope depiction represented in construction documents		<input type="checkbox"/>	<input type="checkbox"/>	—
R402.4 Air leakage				
R402.4.1 Building thermal envelope shall comply with sections R402.1.1 and R402.1.2				
R402.4.1.1 Installation full compliance with table R402.4.1.1				
AIR BARRIERS				
A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed. Air-permeable insulation shall not be used as a sealing material.				
Walls	Attic knee walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ceilings	Dropped ceilings or soffits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floors	An air barrier shall be installed at any exposed edge of insulation of any floor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Showers and Tubs	An air barrier shall be installed behind showers and tubs adjacent exterior walls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Boxes	An air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AIR SEALING				
Walls	The junction of the foundation and sill plate shall be sealed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	The junction of the top plate and the top of exterior walls shall be sealed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windows	The space between window/door jambs and framing, and skylights and framing shall be sealed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Doors and openings	Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recessed Lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall, air tight and IC rated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC Boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
INSULATION				
All ceiling, wall, floor, and slab insulation shall achieve RESNET-defined Grade I installation		<input type="checkbox"/>	<input type="checkbox"/>	—
R402.4.1.2 Infiltration Testing: Envelope leakage must be determined by RESNET-approved testing protocol.				
4 ACH @ 50pa single-family, 5 ACH @ 50pa multi-single, 6 ACH @ 50pa multi-family		<input type="checkbox"/>	<input type="checkbox"/>	—
R402.4.2 Fireplaces: Tight fitting flue dampers—outside combustion air		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R402.4.4 Rooms containing fuel-burning appliances				
Natural drafting appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R402.5 Maximum fenestration U-factor and SHGC, maximum U-factor .48		<input type="checkbox"/>	<input type="checkbox"/>	—
R403.1 Controls				
R403.1.1 Programmable thermostat installed on the primary heating or cooling unit		<input type="checkbox"/>	<input type="checkbox"/>	—
R403.1.2 Heat pump supplementary heat controls		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.3 Ducts				
R403.3.1 Duct Insulation: Supply and return ducts in attics minimum of R-8 insulation, all other unconditioned spaces minimum of R6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.3.2 Sealing: Ducts must be sealed with welds, mastics, or tapes in accordance with M1601.4.1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.3.2.1 Sealed air handler: Manufacturer's designation of no more than 2% air leakage of design flow		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.3.3 Duct testing: Ducts shall be pressure tested to determine air leakage in accordance with RESNET standards		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.3.5 Building cavities: Building framing cavities shall not be used as ducts or plenums		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.4 Mechanical system piping insulation: Minimum of R-3				
R403.4.1 Protection of piping insulation: Piping insulation exposed to weather shall be protected from damage.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R403.6 Mechanical ventilation meets the provisions from the 2015 IRC				
M1507.3 Whole-house mechanical ventilation system				
M1507.3.3 Mechanical Ventilation Rate Table M1507.3.3(1), M1507.3.3(2) Design Rate: _____ Measured Rate: _____ % Run Time: _____		<input type="checkbox"/>	<input type="checkbox"/>	—
M1507.4 Local Exhaust Rates Table M1507.4				
Kitchens – 100 cfm intermittent or 25 cfm continuous		<input type="checkbox"/>	<input type="checkbox"/>	—
Bathrooms – toilet rooms 50 cfm intermittent or 20 cfm continuous		<input type="checkbox"/>	<input type="checkbox"/>	—
R403.7 Equipment sizing and efficiency rating: Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J				
R404.1. Lighting equipment minimum 75% efficient lighting		<input type="checkbox"/>	<input type="checkbox"/>	—
Rater Name: _____ Rater Pre-Drywall Inspection Date: _____ Rater Initials: _____				
Rater Name: _____ Rater Final Inspection Date: _____ Rater Initials: _____				

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IECC 2015 TIER 1 INSPECTION CHECKLIST TABLES

TABLE 402.4.1.1

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General Requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.
Ceiling/Attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, Skylights and Doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.	
Floors (including above garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.
Crawl Space Walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, Penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	
Narrow Cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.
Garage Separation	Air sealing shall be provided between the garage and conditioned spaces.	
Plumbing and Wiring		Batt insulation shall be 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	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/Phone Box on Exterior Walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	
HVAC Register Boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.	
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.	

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Ventilation Table M1507.3.3(1)

DWELLING UNIT FLOOR AREA (Square Feet)	NUMBER OF BEDROOMS				
	0-1	2-3	4-5	6-7	>7
	AIRFLOW IN CFM				
< 1,500	30	45	60	75	90
1,501-3,000	45	60	75	90	105
3,001-4,500	60	75	90	105	120
4,501-6,000	75	90	105	120	135
6,001-7,500	90	105	120	135	150
> 7,500	105	120	135	150	165

Table M1507.3.3(2) ^{a, b}

INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS

Run-Time Percentage in Each 4-Hour Segment	25%	33%	50%	66%	75%	100%
Factor	4	3	2	1.5	1.3	1

a. For ventilation system run-time values between those given, the factors are permitted to be determined by interpolation.

b. Extrapolation beyond the table is prohibited.

Table M1507.4

MINIMUM REQUIRED LOCAL EXHAUST RATES FOR ONE- AND TWO-FAMILY DWELLINGS

Area to be Exhausted	Exhaust Rates
Kitchens	100 cfm intermittent or 25 cfm continuous
Bathrooms – Toilet Rooms	Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous

To find detailed requirement information please go to

[ICC publicACCESS 2015 IECC](#)

New Jersey's Clean Energy Program™

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