



INDIAN RIVER COUNTY/CITY OF VERO BEACH
 BUILDING DIVISION
 1801 27th Street
 Vero Beach, FL 32960

**7TH EDITION FBC ENERGY CONSERVATION TABLE R402.4.1.1 BUILDING ENVELOPE AIR BARRIER
 TIGHTNESS AND INSULATION INSTALLATION AFFIDAVIT AND LIGHTING EQUIPMENT**

COMPONENT	CRITERIA
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. 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 sealed. Access openings, drop down stair or knee wall doors to unconditioned attic spaces shall be sealed.
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and top of exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.
Windows, skylights and doors	The space between window/door jambs and framing and skylights and framing shall be sealed.
Rim joists	Rim joists shall be insulated and include the air barrier.
Floors (including above-garage and cantilevered floors)	Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation.
Crawl space walls	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.
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.
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the finished surface.
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	Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.
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 supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.
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.
Fireplace R402.4.2	New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
R404.1 Lighting Equipment (Mandatory)	Not less than 90 percent of the lamps in permanently installed luminaires shall have an efficacy of less than 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

I hereby certify that the above areas that pertain to permit # _____ and address _____ have been completed.

 Qualifier's Agent Signature

Acknowledgement for Person in an Individual Capacity	Acknowledgement for Person in a Representative Capacity
State of Florida, County of _____ The foregoing instrument was acknowledged before me by means of <input type="checkbox"/> physical presence or <input type="checkbox"/> online notarization this _____ day of _____, 20 _____, by _____ who is <input type="checkbox"/> personally known or <input type="checkbox"/> produced identification Type of ID Produced _____ Printed Name of Notary _____ Signature of Notary _____ Notary Seal _____	State of Florida, County of _____ The foregoing instrument was acknowledged before me by means of <input type="checkbox"/> physical presence or <input type="checkbox"/> online notarization this _____ day of _____, 20 _____, by _____ (Name of Person) as _____ (Explain Representative Capacity) for _____ (Name of Party on Behalf of Whom Instrument was Executed). who is <input type="checkbox"/> personally known or <input type="checkbox"/> produced identification Type of ID Produced _____ Printed Name of Notary _____ Signature of Notary _____ Notary Seal _____