

Building Thermal Envelope Air Leakage Verification

With the adoption of the 2009 International Energy Conservation Code (IECC), licensed residential home builders who can provide documentation that they have attended a state approved training class, may under section 402.4.2.2 provide certification that they as the home builder of record conducted a visual inspection certifying that the structure's building envelope has been sealed in accordance with section 402.4 and table 402.4.2 of the IECC.

The certificate of compliance completed by the home builder of record is a legal document and will become part of the project records. Copies of project records are subject to the *Freedom of Information Act* and may be obtained by any entity formally making a request in writing. Falsifying documentation to the City of Rock Hill is punishable by law, and will result in all wall, ceiling coverings and insulation being removed to facilitate an inspection by a third party agency licensed to conduct building thermal envelope air leakage inspections. Engaging such agencies and payment of services by the third party inspection agencies shall be the responsibility of the home builder of record.

Homebuilders that are not certified and have not attended a state approved training class are required to hire a third party agency to inspect the home to ensure it meets the energy code requirements. The third party agency is required to be certified.

Areas required to be sealed:

- All joints, seams, and penetrations
- Site-built windows, doors and skylights
- Openings between window and door assemblies and their respective jambs and framing
- Utility penetrations
- Dropped ceilings or chases adjacent to the thermal envelope
- Knee walls
- Walls and ceilings separating a garage from conditioned spaces
- Behind tubs and showers on exterior walls
- Common walls between dwelling units
- Attic access openings (attic door blankets shall be the equivalent of R-30)
- Rim joist junction

Building Thermal Envelope Air Leakage Compliance Certificate

Project Address: _____ Permit No. _____

Initial	Component	Criteria
	Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier. Breaks or joints in the air barrier are filled or repaired. Air-permeable insulation is not used as a sealing material. Air-permeable insulation is inside of an air barrier.
	Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed. Attic access (except unvented attics), knee wall door, drop down stair is sealed. Drop down stair insulation blankets shall be R-30.
	Walls	Corners and headers are insulated. Junction of foundation and sill plate is sealed.
	Windows and doors	Space between window/door jambs and framing is sealed.
	Rim Joists	Rim joists are insulated and include an air barrier.
	Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of insulation.
	Shafts and penetrations	Duct shafts, utility penetrations, knee walls and flue shafts openings to exterior or unconditioned spaces are sealed.
	Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by spray/blown insulation.
	Garage separation	Air sealing is provided between the garage and conditioned spaces.
	Recessed lighting	Recessed light fixtures are air tight, IC rated and sealed to drywall. Exception: fixtures in conditioned spaces.
	Plumbing and wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
	Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and air barrier separating them from the exterior wall.
	Electrical/phone box on exterior wall.	Air barrier extends behind boxes or air-sealed boxes are installed.
	Common wall	Air barrier is installed in common wall between dwelling units.
	Crawl space walls	Insulation is permanently attached to walls. Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped.
	HVAC register boots	HVAC register boots that penetrate bldg. envelope are sealed to subfloor or drywall.
	Fireplace	Fireplace walls include an air barrier. Fireplaces have tight fitting flue dampers and combustion air.

By signing and initializing this document you are affirming that this structure is in full compliance with the 2009 International Energy Conservation Code to include sections 402.4, 402.4.3 and table 402.4.2.

Date: _____

Signature: _____

Please Print Name: _____

Company Name: _____