

# Code Inspections, Inc.

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A Full Service Agency Providing  
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◆ Building ◆ Plumbing ◆ Electrical ◆ Mechanical ◆ Fire ◆ Energy ◆ Accessibility ◆ Property Maintenance ◆

Permit Number \_\_\_\_\_

Issue Date \_\_\_\_\_

2009 IRC \_\_\_\_\_

2009 IECC \_\_\_\_\_

PA Alternative \_\_\_\_\_

The 2009 International Residential Code requires the following:

## **N1102.4.2 Air sealing and insulation**

Building envelope air tightness and insulation installation shall be demonstrated to comply with one of the following options given by Section N1102.4.2.1 or N1102.4.2.2.

### **N1102.4.2.1 Testing option**

Tested air leakage is less than 7 ACH when tested with a blower door at a pressure of 50 pascals (0.007 psi). Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed;
2. Dampers shall be closed, but not sealed; including exhaust, intake, makeup air, back draft, and flue dampers;
3. Interior doors shall be open;
4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling system(s) shall be turned off;
6. HVAC ducts shall not be sealed; and
7. Supply and return registers shall not be sealed.

### **N1102.4.2.2 Visual inspection option** Inspection by \_\_\_\_\_

The items listed in Table N1102.4.2, applicable to the method of construction, are field verified. Where required by the code official, an *approved party* independent from the installer of the insulation, shall inspect the air barrier and insulation.

#### Visual Item Check List

1. Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier.
2. Breaks or joints in the air barrier are filled or repaired.
3. Air-permeable insulation is not used as a sealing material.
4. Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
5. Attic access (except unvented attic), knee wall door, or drop down stair is sealed.

6. Corners and headers are insulated.
7. Junction of foundation and sill plate is sealed.
8. Space between window/door jambs and framing is sealed.
9. Rim joists are insulated and include an air barrier.
10. Insulation is installed to maintain permanent contact with underside of subfloor decking.
11. Air barrier is installed at any exposed edge of floor.
12. Insulation is permanently attached to walls.
13. Exposed earth in unvented crawlspaces is covered with Class I vapor retarder with overlapping joints taped.
14. Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.
15. Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed or blown insulation.
16. Air sealing is provided between the garage and conditioned spaces.
17. Recessed light fixtures are airtight, IC rated and sealed to drywall.  
Exception-fixtures in conditioned space.
18. Insulation is placed between outside and pipes.
19. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
20. Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.
21. Air barrier extends behind boxes or air sealed type boxes are installed.
22. Air barrier is installed in common wall between dwelling units.
23. HVAC register boots that penetrate building envelope are sealed to subfloor or Drywall.
24. Fireplace walls include an air barrier.

\*\*Please note that the Visual Inspection Option will require items to be inspected before they are covered and this may cause delays in the construction process.

**Code Inspections Inc can do the Visual Inspection Test. There would be an additional minimum fee of \$50.00 plus 10 cents a sq. ft.**

**Before a permit can be issued the choice shall be made of which option you choose: Please put X beside which energy code you are building the structure under and which testing option you are using. Please sign and date below.**

**A blower door test will be required if any of the visual inspections on checklist are not requested and approved.**

**Certificate of Occupancy will not be issued until the building meets the requirements of N1102.4.2**

Signature\_\_\_\_\_

Date\_\_\_\_\_