**Residential Envelope Air Leakage Verification Form**

Project Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Permit #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Builder/Owner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Builder/Owner Phone Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Choose a building envelope air leakage verification method per 2009 IECC 402.4.2:

* Testing option
* Visual inspection option – see reverse for required installation elements [Optional text: The visual inspection must be performed by an approved party independent of the installer of the insulation. See attached for a list of approved contractors.]

Conditioned floor area: \_\_\_\_\_\_\_\_\_\_\_\_ ft2

Average ceiling height: \_\_\_\_\_\_\_\_\_\_\_\_ ft

Volume of conditioned space: \_\_\_\_\_\_\_\_\_\_\_\_ ft3

Blower door test result: \_\_\_\_\_\_\_\_\_\_\_\_ CFM50

**Show CFM50 to ACH50 conversion:**

ACH50 = CFM50 x 60 / conditioned volume

\_\_\_\_\_\_\_\_\_\_\_ CFM50 x 60 / \_\_\_\_\_\_\_\_\_\_\_ ft3 = \_\_\_\_\_\_\_\_\_ ACH50

* Fail
* Pass

Testing company name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Test date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A blower door test has been performed has been performed for the location above, and the building envelope air leakage was measured to be under the maximum leakage rate as outlined in the 2009 International Energy Conservation Code/Chapter 11 of the 2009 International Residential Code/Pennsylvania’s Alternative Residential Energy Provisions.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- |
| **Air Barrier and Insulation Inspection Checklist (Table 402.4.2)** | | | |
| **Component** | **Criteria** | **Complies** | **Does not Comply** |
| 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 attic), knee wall door, or drop down stair is sealed. | 🗆 | 🗆 |
| Walls | Corners and headers are insulated. | 🗆 | 🗆 |
| Junction of foundation and sill plate is sealed. | 🗆 | 🗆 |
| Windows and doors | Space between window/door jams 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. | 🗆 | 🗆 |
| [Unvented]  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. | 🗆 | 🗆 |
| Shafts/penetrations | Duct shafts, utility penetrations, knee walls, and flue shafts opening to exterior or unconditioned space are sealed | 🗆 | 🗆 |
| Narrow cavities | Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/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 space. | 🗆 | 🗆 |
| 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 an air barrier separating them from the exterior wall. | 🗆 | 🗆 |
| Electrical/phone box on exterior wall | Air barrier extends behind boxes or air-sealed-type boxes are installed. | 🗆 | 🗆 |
| Common wall | Air barrier is installed in common wall between dwelling units. | 🗆 | 🗆 |
| HVAC register boots | HVAC register boots that penetrate building envelope are sealed to subfloor or drywall. | 🗆 | 🗆 |
| Fireplace | Fireplace walls include an air barrier. | 🗆 | 🗆 |