Residential Building Air Leakage Test (Blower Door Test) Results

Permit #: ____________________________

House address or lot number: ______________________________________________________

City: ___________________________ Zip: _______________________

Cond. Floor Area (ft²): _______________ Age of house: _______________________

Source (circle one): Plans Estimated Measured

Results shall be reported as Air Changes per Hour at 50 Pascals (ACH₅₀) and shall be calculated as follows:

ACH₅₀ = (CFM₅₀ x 60)/ Volume

Where:

CFM₅₀ = Blower door fan flow at 50 Pascal pressure difference
Volume = Conditioned Floor Area of the housing unit x ceiling height

Blower Door Test Result: ___________ ACH₅₀
_________________ CFM@50Pa

Ring (circle one if applicable): Open A B C

Blower Door Fan Location: ______________________ Weather Conditions: ______________________

I certify that these blower door results are accurate and determined using standard industry protocol.

Company Name: ____________________________ Technician: ____________________________

Technician Signature: ______________________ Date: ___________ Phone Number: ________________

2015 Washington State Energy Code reference:

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. Once visual inspection has confirmed sealing (see Table R402.4.1.1), operable windows and doors manufactured by small business shall be permitted to be sealed off at the frame prior to the test.
During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open, access hatches to conditioned crawl spaces and conditioned attics shall be open;
4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
6. Supply and return registers, if installed at the time of the test, shall be fully open.