



# Residential Energy Inspection Report

Date: \_\_\_\_\_ Permit No.: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Lot No.: \_\_\_\_\_

Foundation:       Slab                       Crawl Space                       Basement                       Above Conditioned Space  
 If Crawl Space:    Enclosed Vented                       Conditioned                      **\*\*If Basement:**  50% below grade

**1. Duct Leakage @ 25 Pascal\*:** \_\_\_\_\_

	<i>Total (cfm25)</i>	<i>Unconditioned (cfm25)</i>	<i>Cond Area (ft2)</i>	<i>Total Leakage (%)</i>	<i>Leakage to Unconditioned (%)</i>
System 1.	[_____cfm <sub>25</sub> ]	[_____cfm <sub>25</sub> ]	÷ _____ft <sup>2</sup>	= _____% Total	_____% to Unconditioned
System 2.	[_____cfm <sub>25</sub> ]	[_____cfm <sub>25</sub> ]	÷ _____ft <sup>2</sup>	= _____% Total	_____% to Unconditioned
System 3.	[_____cfm <sub>25</sub> ]	[_____cfm <sub>25</sub> ]	÷ _____ft <sup>2</sup>	= _____% Total	_____% to Unconditioned

**2. Infiltration CFM50:** \_\_\_\_\_ **X 60 /** \_\_\_\_\_ **=** \_\_\_\_\_ **ACH (Final)**  
(Blower Door Reading)                      (Cu. Volume)

**Duct Blaster Results:**    PASS                       FAIL                       N/A (Re-inspection required if Fail is checked)

**Blower Door Results:**    PASS                       FAIL                       N/A (Re-inspection required if Fail is checked)

I certify that the testing results above are accurate and determined using protocol referenced in VRC N 1102.4.1.2.1 and N 1103.3.3

Technician Name: \_\_\_\_\_

Technician Signature: \_\_\_\_\_

VA DPOR Residential Energy Analyst License No.: \_\_\_\_\_

Builder Company Name: \_\_\_\_\_

**N1102.4.1.2.1 (R402.4.1.2.1) Blower Door.**

The building or dwelling unit shall be tested for air leakage. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pa). Where required by the building 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 building official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

**During Testing:**

1. Exterior windows and doors and fireplace and stove doors shall be closed, but not sealed beyond the intended weather-stripping 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;
4. Exterior doors 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.

**N1103.3.3 (R403.3.3) Duct Blaster.**

Duct tightness shall be verified by either of the following:

1. Post-construction Test: Total leakage shall be less than or equal to 6 cfm (169.9 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in Test: Total leakage shall be less than or equal to 5 cfm (141.5 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 5 cfm (141.5 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area.

*Exception:* The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.

Testing shall be performed by approved qualified individuals, testing agencies or contractors. Testing and results shall be as prescribed in Section N1103.2.2 and approved recognized industry standards.