



## Mandatory Blower door testing effective date July 1, 2017

Blower door testing will be required for all New Residential buildings and dwelling units as required by the Florida Building Code Energy section R402.4.1.2

The required test must be performed by individuals as defined in section 553.993 section (5) or (7). The Florida code also allows individuals licensed in accordance with Section 489.105(3)(F), (g) and (I) or an approved third party.

### Who can conduct the Test :

1. Individuals as defined under Florida Statue 553.998 (5) & (7) which include:
  - Energy Auditor
  - Energy Rater
  - Credentialed and certified through RESNET, BUILDING PERFORMANCE INSTITUTE.
2. Individuals licensed under Florida Statue 489.105(3)(F), g or (I) whom have received the required training and certification in blower testing method and protocol
  - Class A,B Air Conditioning Contractor
  - Mechanical Contractor
3. An approved Third Party (Approved by City Of Sarasota Building Official)
  - Proof of license or certification
  - Proof of workman's compensation or exemption
  - Proof of liability insurance

# Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: \_\_\_\_\_

Permit #: \_\_\_\_\_

## Job Information

Builder: \_\_\_\_\_

Community: \_\_\_\_\_

Lot: \_\_\_\_\_

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

Unit: \_\_\_\_\_

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

State: \_\_\_\_\_

Zip: \_\_\_\_\_

## Air Leakage Test Results

*Passing results must meet either the Performance, Prescriptive, or ERI Method*

**PRESCRIPTIVE METHOD**- The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) in Climate Zones 1 and 2.

**PERFORMANCE or ERI METHOD**- The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on FORM R405-2017 (Performance) or R406-2017 (ERI), section labeled as Infiltration, sub-section ACH.

ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI):

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \text{ACH}(50) = \text{ACH}(50)$$

**PASS**

**FAIL**

When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

Retrieved from architectural plans

Code software calculated

Field measured and calculated

**Testing.** Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or 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*.

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, back draft 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.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

## Testing Company

Company Name: \_\_\_\_\_ Phone: \_\_\_\_\_

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: \_\_\_\_\_ Date of Test: \_\_\_\_\_

Printed Name of Tester: \_\_\_\_\_

License/Certification #: \_\_\_\_\_ Issuing Authority: \_\_\_\_\_

# Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance  
2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: _____	Permit #: _____
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## Job Information

Builder: _____	Community: _____	Lot: _____
Address: _____	Unit: _____	
City: _____	State: _____	Zip: _____

## Duct Leakage Test Results

System 1	_____ cfm25
System 2	_____ cfm25
System 3	_____ cfm25
Sum of any additional systems	_____ cfm25
<b>Total of all systems</b>	<b>_____ cfm25</b>

**Prescriptive Method** cfm25 (Total)  
To qualify as "substantially leak free" Qn must be less than or equal to 0.04 if air handler unit is installed. If air handler unit is not installed, Qn Total must be less than or equal to 0.03. This testing method meets the requirements in accordance with Section R403.3.3.

**Performance / ERI Method** cfm25 (Out or Total)  
To qualify using this method, Qn must not be greater than the proposed duct leakage Qn specified on Form R405-2017 or R406-2017.

$$\frac{\text{Total of all systems}}{\text{Total Conditioned Square Footage}} = \text{_____ Qn}$$

**PASS**       **FAIL**

*Leakage Type selected on Form R405-2017 (Energy Calc) or R406-2017*

*Qn specified on Form R405-2014 (Energy Calc) or 406-2017*

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes.

## Testing Company

Company Name: \_\_\_\_\_ Phone: \_\_\_\_\_

I hereby verify that the above duct leakage testing results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: \_\_\_\_\_ Date of Test: \_\_\_\_\_

Printed Name of Tester: \_\_\_\_\_