



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 Statute 553.998 (5) & (7) which include:
 - Energy Auditor
 - Energy Rater
 - Credentialed and certified through RESNET, BUILDING PERFORMANCE INSTITUTE.
2. Individuals licensed under Florida Statute 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 #: _____

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
Total of all systems	_____ cfm25



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: _____