

# **Mandatory Blower Door Testing Effective July 1, 2017**

City of Bradenton Beach Building Department 941-778-1005 x210

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 licensed in accordance with Florida Statue 489 Section 105(3)(F), (g) and (I) or an approved third party.

## Who can conduct the Test?

Individuals as defined under Florida Statue 553.998 (5) & (7) which include:

- Energy Auditor
- Energy Rater
- Credentialed and certified through RESNET, BUILDING PERFORMANCE INSTITUTE

Individuals licensed under Florida Statue 489.105 (3)(F), (g) and (I) whom have received the required training and certification in blower testing method and protocol.

- Class A and B Air Conditioning Contractor
- Mechanical Contractor

An approved Third Party (Approved by the City of Bradenton Beach 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

City of Bradenton Beach Building Department 941-778-1005 x210

Primary Contractor for Project: \_\_\_\_\_

Property Address: \_\_\_\_\_ Permit #: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

\_\_\_\_ **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 of FORM R405-2017 (Performance) of R406-2017 (ERI), section labeled as infiltration, sub-section ACH.

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

\_\_\_\_\_ x 60 ÷ \_\_\_\_\_ = \_\_\_\_\_ ACH (50)  
CFM (50) times 60. Divided by Building Volume equals the ACH (50)

\_\_\_\_\_ **PASS** or \_\_\_\_\_ **FAIL**

(When ACH (50) is less than 3, Mechanical Ventilation installation must be verified by Building Official)

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 name: \_\_\_\_\_ Phone: \_\_\_\_\_

Name of Tester: \_\_\_\_\_ Date of test: \_\_\_\_\_

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

Signature of Tester: \_\_\_\_\_

# Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance  
 2017 Florida Building Code, Energy Conservation, 6th Edition  
 City of Bradenton Beach Building Department 941-778-1005 x210

Primary Contractor for Project: \_\_\_\_\_

Property Address: \_\_\_\_\_ Permit #: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

## DUCT LEAKAGE TEST RESULTS

\_\_\_\_\_ **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.

\_\_\_\_\_ Leakage Type selected on Form R405-2017 (Energy Calc) or R406-2017.

\_\_\_\_\_ QN specified on Form R405-2017 (Energy Calc) or R406-2017

\_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ QN  
 Total of all systems divided by Total Conditioned Square Footage equals QN.

\_\_\_\_\_ **PASS** \_\_\_\_\_ **FAIL**

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.

System 1	_____ cfm25
System 2	_____ cfm25
System 3	_____ cfm25
<i>Sum of any additional Systems</i>	_____ cfm25
<b>Total of All Systems</b>	_____ <b>cfm25</b>

Testing Company name: _____	Phone: _____
Name of Tester: _____	Date of test: _____
License/Certification # _____	Issuing Authority _____
Signature of Tester: _____	