

Indian River County

Blower Door (air infiltration) and Duct Leakage (duct and system sealing) Requirements Summary

Effective date July 1, 2017

2016 Glitch R101.4.9 Blower door testing. The mandatory blower door testing for residential buildings or dwelling units as contained in section R402.4.1.2 of the Florida Building Code, 5th Edition (2014) Energy Conservation, shall not take effect until July 1, 2017, and shall not apply to construction permitted before July 1, 2017.

FBC, Energy R402.4.1.2 Blower Door Air Infiltration

- IRC Climate Zone 2 **Max ACH 7 (7/1/16 Glitch)**
- Calculation **CFM(50) x 60/Conditioned Volume = ACH(50)**

IRC Approved Testing Agency individuals who can conduct the test means:

- Must be third party no conflict of interest
 1. Individuals defined under FS 553.993 (5) or (7)
 - Energy Auditor or Energy Rater
 - Currently Certified through RESNET, BUILDING PERFORMANCE INSTITUTE or other approved agency or organization
 2. Individuals licensed under FS 489.105(3)(f),(g)or(i)
 - Class A Air Conditioning Contractor
 - Class B Air Conditioning Contractor
 - Mechanical Contractor

FBC, Residential R303.4 Mechanical Ventilation

Air infiltration rate **less than 3 ACH (7/1/16 Glitch)** requires whole house mechanical ventilation per M1507.3

FBC, Energy R403.2.2 Duct and Equipment Sealing

- Testing verified per RESNET Standards section 803
- Approved Testing Agencies as indicated above
- **Post construction test** (will be most common done at same time as and with blower door)– shall be less than or equal to 4 cfm per 100 sqft conditioned floor area at 25 Pa
- Rough-in test – less than 4 cfm per 100 sqft at 25 Pa, if equipment is not installed less than 3 cfm per 100 sqft
- Exception 1. ducts and equipment entirely within thermal envelope
- Exception 2. Building complying with Section R405 (Performance Method)
- Calculation **CFM(25) x 100/CFA Conditioned Floor Area = Duct Leakage CFM/100sqft**
- Duct Leakage test currently required (prior to 7/1/17 changes) if the default on Form R405 (Performance Method) is not used

New section (7/1/16 Glitch) R406 ERI Energy Rating Index

- **Blower Door and Duct tests required** and can be conducted by individuals listed above per FS 553.998
- Determined building rating must be determined by a **Certified Rater** FS 553.998
- Max ERI 58
- Approved software and approved/required documentation, including checklists

Required to be added and included to submitted Building Permit Plans, projects applied for effective July 1, 2017

- **Building Volume** is now required to be included with the square footage breakdown on the plans. Need to verify submitted Blower Door and Duct Sealing Certifications with indicated volume.