

City of Melbourne

Code Compliance Division

Blower Door and Duct Leakage Requirements Summary

FBC, Energy R402.4.1.2 Blower Door Air Infiltration

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

Approved Testing Agency individuals who can conduct the test means:

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); who have received proper training in blower testing methods and procedures
 - Class A Air Conditioning Contractor
 - Class B Air Conditioning Contractor
 - *Mechanical Contractor (FS 489 licensed individuals will need to submit proof of certification from an approved organization indicating education, training, use, and evaluation of testing results for the blower door and duct testing equipment and procedures)

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 R403.3.2 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 ft² at 25 Pa
- Rough-in test – less than 4 cfm per 100 ft² at 25 Pa, if equipment is not installed less than 3 cfm per 100 ft²
- Exception 1. ducts and equipment entirely within thermal envelope
- Exception 2. Building complying with Section R405 (Performance Method)
- Calculation $CFM(25) \times 100 / CFA \text{ Conditioned Floor Area} = \text{Duct Leakage CFM}/100\text{ft}^2$
- Duct Leakage test currently required (prior to 7/1/17 changes) if the default on Form R405 (Performance Method) is not used

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

- **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.