From: Matt Forsyth
To: Columbia County Building and Zoning Info
Subject: 50007
Date: Friday, December 20, 2024 11:10:23 AM

External Sender - From: (Matt Forsyth <docc.mforsyth@icloud.com>)

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Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:

Job Information

Builder: Maronda Homes Community: Forest Cove Lot: 1

Address: 168 SW Cadence Glen Unit:

City: Lake City State: FL Zip: 32024

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 ERTI 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 R405-2023 (Performance) or R406-2023 (ERI), section labeled as Infiltration, sub-section ACH.

ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): _____

180	X 60 ÷	17743	=	3.38
CFM(50)		Building Volume		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

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 of the *Florida Building Code, Residential*. 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 individual 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*.

Exception: Testing is not required for additions, alterations, renovations or repairs of the building thermal envelope of existing buildings in which new construction is less than 85 percent 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, backdraft 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.
7. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.

Testing Company

Company Name: 15 Lightyears Phone: (855) 438-1515

I hereby verify that the above Air Leakage results are in accordance with the 2023 Florida Building Code Energy Conservation (8th Edition) requirements according to the compliance method selected above.

Signature of Tester: [signature] Date of Test: 12/19/2024

Printed Name of Tester: Nathan Mendenhall

License/Certification #: 4480293 Issuing Authority: RESNET

Created 12/2023

Sent from my iPhone