

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance
2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction: Columbia County, Florida

Permit #: 43219

Job Information

Builder: Morey Doyle

Community: Reserve at Jewel Lake

Lot: 19

Address: 103 SW Bie Lane

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 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 R405-2020 (Performance) or R406-2020 (ERI), section labeled as Infiltration, sub-section ACH50.

ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI):

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$$\frac{921}{\text{CFM}(50)} \times 60 + \frac{11292}{\text{Building Volume}} = \frac{4.89}{\text{ACH}(50)}$$

☒ **PASS**

☐ 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. 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 485.105(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: Airtight Testing LLC Phone: 386-365-3203

I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester:

Amy Bedenbaugh

Date of Test:

9-21-22

Printed Name of Tester: Amy Bedenbaugh

License/Certification #: 5064331

Issuing Authority: BPI

HOMEOWNER #19 Jewel Lake DATE 9.20.2022
 ADDRESS 103 SW Bre Lane
 CITY Lake City STATE FL ZIP _____

RECORD OF INSTALLATION

BLOWING WOOL		BATTS AND ROLLS		
<input checked="" type="checkbox"/> New Construction	If Retrofit:	R-VALUE	THICKNESS	AREA INSULATED
<input type="checkbox"/> Retrofit	Depth of Previous Insulation _____ in.			
Number of bags used <u>24</u>	Estimated R-value of Previous Installation _____	Ceilings		
Area Insulated <u>1366</u> sq. ft.	Types of Previous Insulation in Attic _____			
Thickness of Insulation <u>13.5</u> in.		Walls		
R-value of Insulation <u>38</u>				
		Floors		

CLIMATE PRO ATTIC COVERAGE CHART

R-VALUE (hr•sq.ft.°F/BTU)	MINIMUM INSTALLED THICKNESS (in.)	SETTLED THICKNESS (in.)	BAGS PER 1,000 SQ. FT.	MAXIMUM NET COVERAGE* (sq.ft./bag)	MINIMUM WEIGHT (lbs./sq.ft.)
To obtain an insulation resistance (R) of:	Installed insulation should not be less than:	Expected thickness after long-term settling has occurred:	Minimum number of bags per 1,000 sq.ft. of net area:	Contents of this bag should not cover more than:	The weight per sq. ft. of installed insulation should not be less than:
11	4.25	4.25	4.6	215.9	0.15
13	5.00	5.00	5.5	181.3	0.17
19	7.00	7.00	8.0	125.4	0.25
22	8.00	8.00	9.3	108.0	0.29
26	9.50	9.50	11.2	88.9	0.35
30	10.75	10.75	13.0	77.1	0.41
38	13.50	13.50	17.0	59.0	0.53
44	15.25	15.25	19.6	50.9	0.62
49	17.00	17.00	22.4	44.6	0.71
60	20.25	20.25	27.9	35.8	0.88

The manufacturer recommends that the insulation be installed at these minimum thicknesses and maximum coverages to provide the levels of insulation thermal resistance (R-value) shown.
 See reverse to determine adjustment in coverage for Climate Pro Insulation installed in Minnesota.

INSULATION CONTRACTOR SIGNATURE Suncoast Insulators DATE 9.20.2022
825 NW 253rd Terrace
 COMPANY _____ ADDRESS Newberry, FL 32669 PHONE _____
 HOME BUILDER SIGNATURE Century Complete DATE _____
 COMPANY _____ ADDRESS _____ PHONE _____