

OCT 12 2023



**RUNBROOK**  
GREEN BUILDING & ENERGY TESTING

**Envelope Leakage Test Report (Blower Door Test)**  
Residential Prescriptive, Performance or ERI Method Compliance  
2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction: \_\_\_\_\_ Permit #: 2302-0101

**Job Information**

Builder: K Hamilton Community: FSP Lot: 284  
Address: 11900 Leon Circle S Unit: \_\_\_\_\_  
City: Parkland State: FL Zip: 33076

**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): 5.5

$$\frac{1442}{\text{CFM}(50)} \times 60 + \frac{26548}{\text{Building Volume}} = \frac{3.25}{\text{ACH}(50)}$$

- Method for calculating building volume:
- Retrieved from architectural plans
  - Code software calculated
  - Field measured and calculated

**PASS**

When ACH(50) is less than 3, mechanical ventilation installation must be verified by building department.

**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 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**

Company Name: RunBrook, LLC Phone: 561-510-5715  
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: [Signature] Date of Test: 10/5/23  
Printed Name of Tester: Frank Costagliola  
License/Certification #: 3243649 Issuing Authority: RESNET



ENTERED

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GREEN BUILDING & ENERGY TESTING

# Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance

2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:

Permit #: 2302-0101

## Job Information

Builder: K. Hernandez

Job Address: 11990 Leon Circle S

City: Pompano

State: FL

Zip: 33076

## Duct Leakage Test Results

System 1	103 cfm25
System 2	_____ cfm25
System 3	_____ cfm25
Sum of any additional systems	_____ cfm25
Total of all systems	_____ cfm25

$$\frac{103}{\text{Total of all systems}} + \frac{2428}{\text{Total Conditioned Square Footage}} = 0.04 \text{ Qn}$$

PASS  FAIL

**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 R405-2020 (Energy Calc) or R406-2020

Qn specified on Form R405-2020 (Energy Calc) or R406-2020

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.

## Testing Company

Company Name: RunBrook, LLC

Phone: 561-510-5715

I hereby verify that the above duct leakage testing 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:

Date of Test: 10/5/23

Printed Name of Tester:

Frank Costagliola