

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

*Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method*

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include:

- ☐ *This Checklist*
- ☐ *Form R405-2023 report*
- ☐ *Input summary checklist that can be used for field verification (usually four pages/may be greater).*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☐ *Mandatory Requirements (five pages)*

Required prior to CO:

- ☐ *Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- ☐ *A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R - 2 Occupancies and multiple attached single family dwellings to comply with Section C402.5*
- ☐ *If FORM R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page).*

Building Input Summary Report

PROJECT

Title:lot 8 Forest Cove

Building Type:FLAsBuilt

Owner:Lo 8 Forest Cove

of Units:1

Builder Name:Maronda Homes

Permit Office:

Jurisdiction:

Family Type:Single-Family

New/Existing:New (From Plans)

Year Construct:2025

Comment:

Bedrooms:3

Bathrooms:1

Conditioned Area:1941

Total Stories:1

Worst Case:No

Rotate Angle:0

Cross Ventilation:No

Whole House Fan:No

Terrain:Suburban

Shielding:Suburban

Address type:Street address

Lot#:Forest Cove

Block/Subdivision:Forest Cove

Platbook:

Street:303 SW Cadence Glen

County:

City, State, Zip:Lake City, FL 32024

CLIMATE

✓

Design Location

TMY Site

IECC Zone

Design Temp 97.5 %

2.5 %

Int Design Temp Winter

Summer

Heating Degree Days

Design Moisture

Daily Temp Range

FL, Gainesville Regional

FL_Gainesville_Rgn

2

33

92

68

75

1148

44

Medium

BLOCKS

#

Name

Area

Volume

1

Entire House

1941.00 ft²

17490.00 ft³

SPACES

#

Area

Volume

Kitchen

Occupants

Bedrooms

Infil ID

Finished

Cooled

Heated

1

sun room

188.00 ft²

1692.00 ft³

No

0

0

1

Yes

Yes

Yes

2

master bedroom

214.11 ft²

1927.00 ft³

No

2

1

1

Yes

Yes

Yes

3

wc

22.00 ft²

198.00 ft³

No

0

0

1

Yes

Yes

Yes

4

master bath

129.44 ft²

1165.00 ft³

No

0

0

1

Yes

Yes

Yes

5

wic

66.67 ft²

600.00 ft³

No

0

0

1

Yes

Yes

Yes

6

living/kitchen

576.22 ft²

5186.00 ft³

No

0

0

1

Yes

Yes

Yes

7

ah

18.67 ft²

168.00 ft³

No

0

0

1

Yes

Yes

Yes

8

bedroom 2

163.78 ft²

1474.00 ft³

No

1

1

1

Yes

Yes

Yes

9

bath 2

49.11 ft²

442.00 ft³

No

0

0

1

Yes

Yes

Yes

10

hall 2

20.78 ft²

187.00 ft³

No

0

0

1

Yes

Yes

Yes

11

hall 1

17.11 ft²

154.00 ft³

No

0

0

1

Yes

Yes

Yes

12

bedroom 3

150.33 ft²

1353.00 ft³

No

1

1

1

Yes

Yes

Yes

13

laundry

69.00 ft²

621.00 ft³

No

0

0

1

Yes

Yes

Yes

14

flex

127.44 ft²

1147.00 ft³

No

0

0

1

Yes

Yes

Yes

15

foyer

130.67 ft²

1176.00 ft³

No

0

0

1

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 1943 sq.ft.)

✓

#

Floor Type

Space

Perimeter

R-Value

Area

U-Factor

Tile

Wood

Carpet

1

Bg floor, heavy dry or light damp soil, on grade

sun room

28 ft

0

188.00 ft²

1.180

0

1.0

0

2

Bg floor, heavy dry or light damp soil, on grade

master bedroom

14 ft

0

214.11 ft²

1.180

0

1.0

0

3

Bg floor, heavy dry or light damp soil, on grade

wc

4 ft

0

22.00 ft²

1.180

0

1.0

0

4

Bg floor, heavy dry or light damp soil, on grade

master bath

6 ft

0

129.44 ft²

1.180

0

1.0

0

5

Bg floor, heavy dry or light damp soil, on grade

wic

18 ft

0

66.67 ft²

1.180

0

1.0

0

6

Bg floor, heavy dry or light damp soil, on grade

living/kitchen

21 ft

0

576.22 ft²

1.180

0

1.0

0

7

Bg floor, heavy dry or light damp soil, on grade

ah

0 ft

0

18.67 ft²

1.180

0

1.0

0

8

Bg floor, heavy dry or light damp soil, on grade

bedroom 2

15 ft

0

163.78 ft²

1.180

0

1.0

0

9

Bg floor, heavy dry or light damp soil, on grade

bath 2

6 ft

0

49.11 ft²

1.180

0

1.0

0

10

Bg floor, heavy dry or light damp soil, on grade

hall 2

0 ft

0

20.78 ft²

1.180

0

1.0

0

11

Bg floor, heavy dry or light damp soil, on grade

hall 1

0 ft

0

17.11 ft²

1.180

0

1.0

0

12

Bg floor, heavy dry or light damp soil, on grade

bedroom 3

25 ft

0

150.33 ft²

1.180

0

1.0

0

13

Bg floor, heavy dry or light damp soil, on grade

laundry

8 ft

0

69.00 ft²

1.180

0

1.0

0

14

Bg floor, heavy dry or light damp soil, on grade

flex

12 ft

0

127.44 ft²

1.180

0

1.0

0

15

Bg floor, heavy dry or light damp soil, on grade

foyer

27 ft

0

130.67 ft²

1.180

0

1.0

0

ROOF

✓

#

Type

Materials

Roof Area

Gable Area

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

1

Gable or shed

RoofAsph

2105 ft²

405 ft²

Dark

N

0.75

No

0.90

No

0

23

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

Full attic

Vented

300

1943.33ft²

N

N

CEILING (Total Exposed Area = 1943 sq.ft.)														
✓ #	Ceiling Type	Space	R-Value	U-Factor	Area	Framing Fraction	Truss Type							
1	Attic ceiling, asphalt shingles roof	sun room	38	0.026	188.00 ft²	0.10	--							
2	Attic ceiling, asphalt shingles roof	master bedroom	38	0.026	214.11 ft²	0.10	--							
3	Attic ceiling, asphalt shingles roof	wc	38	0.026	22.00 ft²	0.10	--							
4	Attic ceiling, asphalt shingles roof	master bath	38	0.026	129.44 ft²	0.10	--							
5	Attic ceiling, asphalt shingles roof	wic	38	0.026	66.67 ft²	0.10	--							
6	Attic ceiling, asphalt shingles roof	living/kitchen	38	0.026	576.22 ft²	0.10	--							
7	Attic ceiling, asphalt shingles roof	ah	38	0.026	18.67 ft²	0.10	--							
8	Attic ceiling, asphalt shingles roof	bedroom 2	38	0.026	163.78 ft²	0.10	--							
9	Attic ceiling, asphalt shingles roof	bath 2	38	0.026	49.11 ft²	0.10	--							
10	Attic ceiling, asphalt shingles roof	hall 2	38	0.026	20.78 ft²	0.10	--							
11	Attic ceiling, asphalt shingles roof	hall 1	38	0.026	17.11 ft²	0.10	--							
12	Attic ceiling, asphalt shingles roof	bedroom 3	38	0.026	150.33 ft²	0.10	--							
13	Attic ceiling, asphalt shingles roof	laundry	38	0.026	69.00 ft²	0.10	--							
14	Attic ceiling, asphalt shingles roof	flex	38	0.026	127.44 ft²	0.10	--							
15	Attic ceiling, asphalt shingles roof	foyer	38	0.026	130.67 ft²	0.10	--							

WALLS (Total Exposed Area = 1644 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	U-Factor	Frm. Frac.	Solar Absor.	Below Grade%		
1	S	Exterior	Frm wall, stucco	sun room	13	12 0	9 0	108.0 ft²	0	0.091	0.25	0.75	0		
2	SW	Exterior	Frm wall, stucco	sun room	13	15 8	9 0	141.0 ft²	0	0.091	0.25	0.75	0		
3	SW	Exterior	Frm wall, stucco	master bedroom	13	13 8	9 0	123.0 ft²	0	0.091	0.25	0.75	0		
4	SW	Exterior	Frm wall, stucco	wc	13	3 8	9 0	33.0 ft²	0	0.091	0.25	0.75	0		
5	SW	Exterior	Frm wall, stucco	master bath	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
6	SW	Exterior	Frm wall, stucco	wic	13	13 4	9 0	120.0 ft²	0	0.091	0.25	0.75	0		
7	SW	Exterior	Frm wall, stucco	wic	13	5 0	9 0	45.0 ft²	0	0.091	0.25	0.75	0		
8	SW	Exterior	Frm wall, stucco	living/kitchen	13	21 4	9 0	192.0 ft²	0	0.091	0.25	0.75	0		
9	SW	Exterior	Frm wall, stucco	bedroom 2	13	14 8	9 0	132.0 ft²	0	0.091	0.25	0.75	0		
10	SW	Exterior	Frm wall, stucco	bath 2	13	5 8	9 0	51.0 ft²	0	0.091	0.25	0.75	0		
11	SW	Exterior	Frm wall, stucco	bedroom 3	13	13 8	9 0	123.0 ft²	0	0.091	0.25	0.75	0		
12	-	Partition	Frm wall, stucco	bedroom 3	13	11 0	9 0	99.0 ft²	0	0.091	0.25	0.75	0		
13	-	Partition	Frm wall, stucco	laundry	13	7 8	9 0	69.0 ft²	0	0.091	0.25	0.75	0		
14	-	Partition	Frm wall, r-13 ca	flex	13	12 4	9 0	111.0 ft²	0	0.091	0.25	0.75	0		
15	NW	Exterior	Frm wall, stucco	foyer	13	9 4	9 0	84.0 ft²	0	0.091	0.25	0.75	0		
16	NW	Exterior	Frm wall, stucco	foyer	13	14 0	9 0	126.0 ft²	0	0.091	0.25	0.75	0		
17	-	Partition	Frm wall, r-13 ca	foyer	13	3 8	9 0	33.0 ft²	0	0.091	0.25	0.75	0		

DOORS (Total Exposed Area = 40 sq.ft.)														
✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area						
1	N	Door, wd sc type	laundry	None	0.390	2 10	6 10	19.3 ft²						
2	N	Door, wd sc type	foyer	None	0.390	3 0	6 10	20.4 ft²						

WINDOWS (Total Exposed Area = 175 sq.ft.)															
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Impact	W x H, Area	Overhang Depth	Separation	Interior Shade	Screening		
1	S	1	Vinyl	Low-E Double	Yes	0.340	0.23	No	6'0" x 6'10", 41 ft²	10 ft 0 in	0 ft 0 in	None	None		
2	SW	2	Vinyl	Low-E Double	Yes	0.340	0.23	No	9'0" x 5'0", 45 ft²	0 ft 0 in	0 ft 0 in	None	None		
3	SW	3	Vinyl	Low-E Double	Yes	0.340	0.23	No	3'0" x 5'0", 15 ft²	10 ft 0 in	0 ft 0 in	None	None		
4	SW	5	Vinyl	Low-E Double	Yes	0.340	0.23	No	4'0" x 1'0", 4 ft²	0 ft 0 in	0 ft 0 in	None	None		
5	SW	8	Vinyl	Low-E Double	Yes	0.340	0.23	No	6'0" x 5'0", 30 ft²	0 ft 0 in	0 ft 0 in	None	None		
6	SW	9	Vinyl	Low-E Double	Yes	0.340	0.23	No	3'0" x 5'0", 15 ft²	1 ft 0 in	0 ft 0 in	None	None		
7	SW	11	Vinyl	Low-E Double	Yes	0.340	0.23	No	3'0" x 5'0", 15 ft²	1 ft 0 in	0 ft 0 in	None	None		
8	N	15	Vinyl	Low-E Double	Yes	0.340	0.23	No	2'0" x 5'0", 10 ft²	8 ft 0 in	0 ft 0 in	None	None		

GARAGE															
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation										
1					0										

INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50						
1	Wholehouse	Simplified	0.000401	2040	112.0	210.4	0.55	7.00						

HEATING SYSTEM															
✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts									
1	Split air source heat pump		8.5 HSPF2	31.8 kBtu/hr	1	sys#1									

COOLING SYSTEM														
✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts						
1	Split air source heat pump		16 SEER2	33.4 kBtu/hr	1113 cfm	0.70	1	sys#1						

HOT WATER SYSTEM														
✓ #	System Type	Subtype	Location	EF	Cap	Use	SetPnt	Conservation						
1	Electric conventional			0.98 UEF	50 gal	60 gal	120 °F	None						

[illegible]

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX = 84****The lower the EnergyPerformance Index, the more efficient the home.**

1. New home or addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-Family</u>	a. Supply ducts:	R <u>6.0</u>
3. Number of units, if multiple-family	3. <u>1</u>	b. Return ducts:	R <u>Entire House</u>
4. Number of bedrooms	4. <u>3</u>	c. AHU location:	
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling systems	Capacity <u>32.2</u>
6. Conditioned floor area (ft²)	6. <u>1941.00</u>	a. Split system:	SEER2 <u>16.00</u>
7. Windows, type and area*		b. Single package:	SEER2 <u></u>
a. U-Factor:	7a. <u>Dbl, 0.340</u>	c. Ground/water source:	SEER/COP <u></u>
b. Solar Heat Gain Coefficient (SHGC):	7b. <u>0.23</u>	d. Room unit/PTAC:	EER <u></u>
c. Area (ft²)	7c. <u>175</u>	e. Other:	<u></u>
8. Skylights		14. Heating systems	Capacity <u>31.8</u>
a. U-Factor:	8a. <u></u>	a. Split system heat pump:	HSPF2 <u>8.50</u>
b. Solar Heat Gain Coefficient (SHGC):	8b. <u></u>	b. Single package heat pump:	HSPF2 <u></u>
9. Floor type, insulation level		c. Electric resistance:	COP <u></u>
a. Slab-on-grade (R-value):	9a. <u>0.0</u>	d. Gas furnace, natural gas:	AFUE <u></u>
b. Wood, raised (R-value):	9b. <u></u>	e. Gas furnace, LPG:	AFUE <u></u>
c. Concrete, raised (R-value):	9c. <u></u>	f. Other:	<u></u>
10 Wall type and insulation:		15. Water heating systems	
a. Exterior:		a. Electric resistance:	<u>0.98 UEF</u>
1. Wood/mtl frame (Insulation R-value):	10a1. <u>13.0</u>	b. Gas fired, natrual gas:	<u></u>
2. Masonry (Insulation R-value):	10a2. <u></u>	c. Gas fired, LPG:	<u></u>
b. Adjacent:		d. Solar system with tank:	<u></u>
1. Wood/mtl frame (Insulation R-value):	10b1. <u>13.0</u>	e. Dedicated heat pump with tank:	<u></u>
2. Masonry (Insulation R-value):	10b2. <u></u>	f. Heat recovery unit:	HeatRec% <u></u>
11. Ceiling type and insulation level		g. Other:	<u></u>
a. Under attic (R-value):	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)	
b. Single assembly (R-value):	11b. <u></u>	a. Ceiling fans:	<u>Yes</u>
c. Knee walls/skylight walls (R-value):	11c. <u></u>	b. Cross ventilation:	<u>Yes</u>
d. Radiant barrier installed	11d. <u>No</u>	c. Whole house fan:	<u></u>
		d. Multizone cooling credit:	<u></u>
		e. Multizone heating credit:	<u></u>
		f. Programmable thermostat:	<u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: Kaylis PresleyDate: 9/12/25Address of New Home: 303 SW Cadence GlenCity/FL Zip: Lake City, FL 32024

Florida Building Code, Energy Conservation, 8th Edition (2023)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 303 SW Cadence Glen
Lake City, FL 32024

PERMIT #:

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

- ☒ **R401.3 Energy Performance Level (EPL) display card (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit, completed and signed by the builder. The building official shall verify that the EPL display card accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

- ☐ **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 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 the 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.

- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

- ☐ **R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- ☐ **R402.4.6 Air-Sealed Electrical and Communication Boxes.** Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

SECTION R403 SYSTEMS

- ☐ **R403.1 Controls**
- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.
- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that limit supplemental heat operation to only those times when one of the following applies:
1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
 2. The heat pump is operating in defrost mode.
 3. The vapor compression cycle malfunctions.
 4. The thermostat malfunctions.
- ☐ **R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 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, to be "substantially leak free" in accordance with Section R403.3.3.
- ☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.
- ☐ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:
1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
 2. Post construction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test.
- Exceptions:**
1. A duct leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
 2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Q_n to the outside of less than 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.
- A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.
- ☐ **R403.3.5 Building Cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.
- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
- ☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
- ☐ **R403.5.2 Demand recirculation water systems (Mandatory).** Where installed, demand recirculation water systems shall have controls that comply with both of the following:
1. The controls shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance.
 2. The controls shall limit the temperature of the water entering the cold water piping to not greater than 104°F (40°C).

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/2 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- ☐ **R403.5.6 Water heater efficiencies (Mandatory).**
- ☐ **R403.5.6.1 Storage water heater temperature controls.**
- ☐ **R403.5.6.1.1 Automatic controls.** Service water heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- ☐ **R403.5.6.1.2 shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water heating systems to be turned off.
- ☐ **R403.5.6.2 Water heating equipment.** Water heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- ☐ **R403.5.6.2.1 Solar water heating system.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation, including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure of for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed spaces(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- ☐ **R403.7 Heating and cooling equipment.**
- ☐ **R403.7.1 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved methodologies, heating and cooling calculation based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM CFM	MINIMUM EFFICACY (a) CFM/WATT	AIRFLOW RATE MAXIMUM CFM
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	< 90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm - 28.3 L/min.

(a) When tested in accordance HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load. The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature. Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

- ☐ **R403.7.1.2 Heating equipment capacity.**

- ☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- ☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
- ☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

- ☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 2. A variable capacity system sized for optimum performance during base load periods is utilized.

- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

- ☐ **R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

- ☐ **R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operations.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor- retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

MANDATORY REQUIREMENTS - (Continued)

☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

☐ **R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements:

1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.
2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.

☐ **R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:

1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.
2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.
3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.
4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

☐ **R404.1 Lighting equipment (Mandatory).** All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

Exception: Low-voltage lighting.

☐ **R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:	lot 8 Forest Cove	Builder Name:	Maronda Homes
Street:	303 SW Cadence Glen	Permit Office:	
City, State, Zip:	Lake City, FL 32024	Permit Number:	
Owner:	Lo 8 Forest Cove	Jurisdiction:	
Design Location:	FL, Gainesville Regional		
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	✓
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	<input type="checkbox"/>
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attics paces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	<input type="checkbox"/>
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities with corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier	<input type="checkbox"/>
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		<input type="checkbox"/>
Rim joists	Rim joists are insulated and include an air barrier.	Rim joists shall be insulated.	<input type="checkbox"/>
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity Insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	<input type="checkbox"/>
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls.	<input type="checkbox"/>
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.		<input type="checkbox"/>
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	<input type="checkbox"/>
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		<input type="checkbox"/>
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	<input type="checkbox"/>
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	<input type="checkbox"/>
Shower/tub on exterior wall	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	Exterior walls adjacent to showers and tubs shall be insulated.	<input type="checkbox"/>
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6.	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	<input type="checkbox"/>
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.		<input type="checkbox"/>
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		<input type="checkbox"/>

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:

Permit Number:

Job Information

Builder: Maronda Homes

Community: Forest Cove

Lot:

Address: 303 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 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 R405-2023 (Performance) or R406-2023 (ERI), section labeled as Infiltration, sub-section ACH50.

ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): **7.000**

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{17490}{\text{ACH}(50)} =$$



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. 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 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 the 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, 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.
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: _____ Phone: _____

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

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction: _____

Permit Number: _____

Job Information

Builder: Maronda Homes Community: Forest Cove Lot: _____
Address: 303 SW Cadence Glen Unit: _____
City: Lake City State: FL Zip: 32024

Duct Leakage Test Results

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

☐ Prescriptive Method cfm25 (Total)

To qualify as "substantially leak free" Qn Total 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.

Is the air handler unit installed during testing?

☐ YES (<= 0.04 Qn)

☐ NO (<= 0.03 Qn)

_____ ÷ _____ = _____ Qn
Total of all systems Total Conditioned Square Footage

☐ **PASS**

☐ **FAIL**

☒ Performance / ERI Method cfm25 (Out or Total)

To qualify using this method, Qn must be not greater than the proposed duct leakage Qn specified on Form R405-2023 or R406-2023.

Leakage Type selected on Form R405-2023 (Energy Calc) or R406-2023

Qn specified on Form R405-2023 (Energy Calc) or R406-2023

Proposed Qn

0.04

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: _____ Phone: _____

I hereby verify that the above duct leakage test results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Reference Home Characteristics

Lo 8 Forest Cove
303 SW Cadence Glen
Lake City, FL 32024

Title: Lot 8 Forest Cove
FLBase2023

TMY City: FL_Gainesville_Rgn

Above-grade Walls (Uo)	0.084
Above-grade Wall Solar Absorptance	0.75
Above-grade Wall Infrared Emittance	0.90
Basement Walls (Uo)	n/a
Above-grade Floors (Uo)	n/a
Slab Insulation R-Value	0.0
Ceilings (Uo)	0.030
Roof Solar Absorptance	0.75
Roof Infrared Emittance	0.90
Attic Vent Area (ft ²)	6.48
Crawlspace Vent Area (ft ²)	n/a
Exposed Masonry Floor Area (ft ²)	388.67
Carpet & Pad R-Value	2.0
Door Area (ft ²)	0.00
Door U-Factor	n/a
North Window Area (ft ²)	0.00
South Window Area (ft ²)	43.70
East Window Area (ft ²)	43.70
West Window Area (ft ²)	43.70
Window U-Factor	0.400
Window SHGC (Heating)	0.2169
Window SHGC (Cooling)	0.2169
ACH50	7.00
Internal Gains * (Btu/day)	76463
Water heater gallons per day	60.00
Water Heater set point temperature	120.00
Water heater efficiency rating	0.90
Labeled Heating System Rating and Efficiency	HSPF = 8.8
Labeled Cooling System Rating and Efficiency	SEER = 15.0
Air Distribution System Efficiency	0.88
Thermostat Type	Manual
Heating Thermostat Settings	72.0 (All hours)