

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Clinton - 889 NW Blackberry Ct Street: 889 NW Blackberry Ct City, State, Zip: Lake City, FL, 32055 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Lake City Permit Number: Jurisdiction: 221200 County: Columbia(Florida Climate Zone 2)
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Glass/Floor Area: 0.213	Total Proposed Modified Loads: 113.15	PASS
	Total Baseline Loads: 120.36	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Eric Stauble</u> E-Calcs Plus, Inc. DATE: <u>October 30, 2023</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	 Code Compliance  GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST BUILDING OFFICIAL DATE: <u>11/01/2023</u>
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Clinton - 889 NW Blackberry Ct	Bedrooms:	2	Address type:	Street Address
Building Type:	User	Conditioned Area:	4037	Lot #:	---
Owner:		Total Stories:	2	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	889 NW Blackberry Ct
Permit Office:	Lake City	Cross Ventilation:	No	County:	Columbia
Jurisdiction:	221200	Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32055
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:					
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5%	2.5%	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	AC1	2579	30653 cu ft
___ 2	AC2	1458	14580 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Kit Liv Din	1621	21073	Yes	0		Yes	Yes	Yes
___ 2	Sun	192	1920	No	0		Yes	Yes	Yes
___ 3	BR1	235	2350	No	1	1	Yes	Yes	Yes
___ 4	BA2	66	660	No	0		Yes	Yes	Yes
___ 5	Mud	228	2280	No	0		Yes	Yes	Yes
___ 6	Sitting	237	2370	No	0		Yes	Yes	Yes
___ 7	MBA	340	3400	No	0		Yes	Yes	Yes
___ 8	MWIC	300	3000	No	0		Yes	Yes	Yes
___ 9	MBR	340	3400	No	2	1	Yes	Yes	Yes
___ 10	Library	368	3680	No	0		Yes	Yes	Yes
___ 11	BA1	110	1100	No	0		Yes	Yes	Yes

FLOORS

(Total Exposed Area = 4037 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Kit Liv Din	79.2	1621 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 2	Slab-On-Grade Edge Ins	Sun	38.8	192 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 3	Slab-On-Grade Edge Ins	BR1	45	235 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 4	Slab-On-Grade Edge Ins	BA2	8	66 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 5	Slab-On-Grade Edge Ins	Mud	58	228 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 6	Slab-On-Grade Edge Ins	Sitting	20.9	237 sqft	0	---	0.473	0 (ft)/0 (ft)	0.00	1.00
___ 7	Slab-On-Grade Edge Ins	MBA	37	340 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 8	Slab-On-Grade Edge Ins	MWIC	50	300 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 9	Slab-On-Grade Edge Ins	MBR	33	340 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 10	Slab-On-Grade Edge Ins	Library	56	368 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00
___ 11	Slab-On-Grade Edge Ins	BA1	11	110 sqft	0	---	0.710	2 (ft)/0 (ft)	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

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	Metal	5476 ft ²	1850 ft ²	Medium	N	0.75	No	0.9	No	0	42.51

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Full attic	Vented	150	4037 ft ²	N	N

CEILING

(Total Exposed Area = 4037 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
1	Flat ceiling under attic(Vented)	Kit Liv Din	38.0	Batt	845.0ft ²	0.060	0.10	Wood
2	Flat ceiling under attic(Vented)	Kit Liv Din	38.0	Batt	776.0ft ²	0.060	0.10	Wood
3	Flat ceiling under attic(Vented)	Sun	38.0	Batt	192.0ft ²	0.060	0.10	Wood
4	Flat ceiling under attic(Vented)	BR1	38.0	Batt	235.0ft ²	0.060	0.10	Wood
5	Flat ceiling under attic(Vented)	BA2	38.0	Batt	66.0ft ²	0.060	0.10	Wood
6	Flat ceiling under attic(Vented)	Mud	38.0	Batt	228.0ft ²	0.060	0.10	Wood
7	Flat ceiling under attic(Vented)	Sitting	38.0	Batt	237.0ft ²	0.060	0.10	Wood
8	Flat ceiling under attic(Vented)	MBA	38.0	Batt	340.0ft ²	0.060	0.10	Wood
9	Flat ceiling under attic(Vented)	MWIC	38.0	Batt	300.0ft ²	0.060	0.10	Wood
10	Flat ceiling under attic(Vented)	MBR	38.0	Batt	340.0ft ²	0.060	0.10	Wood
11	Flat ceiling under attic(Vented)	Library	38.0	Batt	368.0ft ²	0.060	0.10	Wood
12	Flat ceiling under attic(Vented)	BA1	38.0	Batt	30.0ft ²	0.060	0.10	Wood
13	Flat ceiling under attic(Vented)	BA1	38.0	Batt	80.0ft ²	0.060	0.10	Wood

WALLS

(Total Exposed Area = 4608 sq.ft.)

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
1	SE	Exterior	Conc. Blk - Int Ins	Kit Liv Din	3.0	24.0	0	13.0	0	312.0	0.179	0	0	0.45	0 %
2	S	Exterior	Conc. Blk - Int Ins	Kit Liv Din	3.0	3.0	7	13.0	0	46.6	0.179	0	0	0.45	0 %
3	SW	Exterior	Conc. Blk - Int Ins	Kit Liv Din	3.0	18.0	0	13.0	0	234.0	0.179	0	0	0.45	0 %
4	W	Exterior	Conc. Blk - Int Ins	Kit Liv Din	3.0	3.0	7	13.0	0	46.6	0.179	0	0	0.45	0 %
5	NW	Exterior	Conc. Blk - Int Ins	Kit Liv Din	3.0	30.0	0	13.0	0	390.0	0.179	0	0	0.45	0 %
6	N	Exterior	Conc. Blk - Int Ins	Sun	3.0	6.0	5	10.0	0	64.2	0.179	0	0	0.45	0 %
7	NE	Exterior	Conc. Blk - Int Ins	Sun	3.0	7.0	0	10.0	0	70.0	0.179	0	0	0.45	0 %
8	SW	Exterior	Conc. Blk - Int Ins	Sun	3.0	7.0	0	10.0	0	70.0	0.179	0	0	0.45	0 %
9	W	Exterior	Conc. Blk - Int Ins	Sun	3.0	6.0	5	10.0	0	64.2	0.179	0	0	0.45	0 %
10	NW	Exterior	Conc. Blk - Int Ins	Sun	3.0	12.0	0	10.0	0	120.0	0.179	0	0	0.45	0 %
11	NE	Exterior	Conc. Blk - Int Ins	BR1	3.0	13.0	0	10.0	0	130.0	0.179	0	0	0.45	0 %
12	SE	Exterior	Conc. Blk - Int Ins	BR1	3.0	16.0	0	10.0	0	160.0	0.179	0	0	0.45	0 %
13	SW	Exterior	Conc. Blk - Int Ins	BR1	3.0	16.0	0	10.0	0	160.0	0.179	0	0	0.45	0 %
14	SE	Exterior	Conc. Blk - Int Ins	BA2	3.0	2.0	0	10.0	0	20.0	0.179	0	0	0.45	0 %
15	SW	Exterior	Conc. Blk - Int Ins	BA2	3.0	6.0	0	10.0	0	60.0	0.179	0	0	0.45	0 %
16	NE	Exterior	Conc. Blk - Int Ins	Mud	3.0	7.0	0	10.0	0	70.0	0.179	0	0	0.45	0 %
17	SE	Exterior	Conc. Blk - Int Ins	Mud	3.0	18.0	0	10.0	0	180.0	0.179	0	0	0.45	0 %
18	SW	Exterior	Conc. Blk - Int Ins	Mud	3.0	7.0	0	10.0	0	70.0	0.179	0	0	0.45	0 %
19	NW	Exterior	Conc. Blk - Int Ins	Mud	3.0	18.0	0	10.0	0	180.0	0.179	0	0	0.45	0 %
20	SW	Garage	Conc. Blk - Int Ins	Mud	3.0	8.0	0	10.0	0	80.0	0.179	0	0	0.01	0 %
21	N	Exterior	Conc. Blk - Int Ins	Sitting	3.0	6.0	6	10.0	0	65.0	0.179	0	0	0.45	0 %
22	NE	Exterior	Conc. Blk - Int Ins	Sitting	3.0	8.0	0	10.0	0	80.0	0.179	0	0	0.45	0 %
23	E	Exterior	Conc. Blk - Int Ins	Sitting	3.0	6.0	6	10.0	0	65.0	0.179	0	0	0.45	0 %
24	SW	Exterior	Conc. Blk - Int Ins	MBA	3.0	20.0	0	10.0	0	200.0	0.179	0	0	0.45	0 %
25	NW	Exterior	Conc. Blk - Int Ins	MBA	3.0	17.0	0	10.0	0	170.0	0.179	0	0	0.45	0 %
26	NE	Exterior	Conc. Blk - Int Ins	MWIC	3.0	20.0	0	10.0	0	200.0	0.179	0	0	0.45	0 %

INPUT SUMMARY CHECKLIST REPORT

WALLS(Continued)

___ 27 SE	Exterior	Conc. Blk - Int Ins	MWIC	3.0	15.0	0	10.0	0	150.0	0.179	0	0	0.45	0 %
___ 28 NW	Exterior	Conc. Blk - Int Ins	MWIC	3.0	15.0	0	10.0	0	150.0	0.179	0	0	0.45	0 %
___ 29 NE	Exterior	Conc. Blk - Int Ins	MBR	3.0	20.0	0	10.0	0	200.0	0.179	0	0	0.45	0 %
___ 30 SE	Exterior	Conc. Blk - Int Ins	MBR	3.0	4.0	0	10.0	0	40.0	0.179	0	0	0.45	0 %
___ 31 SW	Exterior	Conc. Blk - Int Ins	MBR	3.0	9.0	0	10.0	0	90.0	0.179	0	0	0.45	0 %
___ 32 NE	Exterior	Conc. Blk - Int Ins	Library	3.0	23.0	0	10.0	0	230.0	0.179	0	0	0.45	0 %
___ 33 SE	Exterior	Conc. Blk - Int Ins	Library	3.0	16.0	0	10.0	0	160.0	0.179	0	0	0.45	0 %
___ 34 SW	Exterior	Conc. Blk - Int Ins	Library	3.0	13.0	0	10.0	0	130.0	0.179	0	0	0.45	0 %
___ 35 NW	Exterior	Conc. Blk - Int Ins	Library	3.0	4.0	0	10.0	0	40.0	0.179	0	0	0.45	0 %
___ 36 SE	Exterior	Conc. Blk - Int Ins	BA1	3.0	11.0	0	10.0	0	110.0	0.179	0	0	0.45	0 %

DOORS

(Total Exposed Area = 0 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
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WINDOWS

(Total Exposed Area = 860 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft) Sep. (ft)	Interior Shade	Screen
___ 1 SE		1	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	2.0 0.5	None	None
___ 2 SE		1	Vinyl	Low-E Double	Y 0.28	0.19	N	N	45.0	3	2.50	6.00	13.0 0.5	None	None
___ 3 SE		1	Vinyl	Low-E Double	Y 0.30	0.19	N	N	24.0	1	3.00	8.00	13.0 0.5	None	None
___ 4 S		2	Vinyl	Low-E Double	Y 0.28	0.19	N	N	14.5	1	2.42	6.00	2.0 0.5	None	None
___ 5 SW		3	Vinyl	Low-E Double	Y 0.25	0.21	N	N	36.0	1	4.00	9.00	2.0 0.5	None	None
___ 6 SW		3	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	2.0 0.5	None	None
___ 7 SW		3	Vinyl	Low-E Double	Y 0.28	0.19	N	N	20.1	1	3.00	6.67	2.0 0.5	None	None
___ 8 W		4	Vinyl	Low-E Double	Y 0.28	0.19	N	N	15.0	1	2.50	6.00	2.0 0.5	None	None
___ 9 NW		5	Vinyl	Low-E Double	Y 0.28	0.19	N	N	45.0	3	2.50	6.00	2.0 0.5	None	None
___ 10NW		5	Vinyl	Low-E Double	Y 0.28	0.19	N	N	36.0	2	3.00	6.00	2.0 0.5	None	None
___ 11NW		5	Vinyl	Low-E Double	Y 0.30	0.19	N	N	20.1	1	3.00	6.67	2.0 0.5	None	None
___ 12N		6	Vinyl	Low-E Double	Y 0.28	0.19	N	N	14.5	1	2.42	6.00	2.0 0.5	None	None
___ 13N		6	Vinyl	Low-E Double	Y 0.28	0.19	N	N	15.5	1	2.58	6.00	2.0 0.5	None	None
___ 14NE		7	Vinyl	Low-E Double	Y 0.28	0.19	N	N	30.0	2	2.50	6.00	2.0 0.5	None	None
___ 15W		9	Vinyl	Low-E Double	Y 0.28	0.19	N	N	31.0	2	2.58	6.00	2.0 0.5	None	None
___ 16NW		10	Vinyl	Low-E Double	Y 0.30	0.19	N	N	20.1	1	3.00	6.67	2.0 0.5	None	None
___ 17NE		11	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	29.7 0.5	None	None
___ 18SE		12	Vinyl	Low-E Double	Y 0.28	0.19	N	N	32.0	2	2.67	6.00	2.0 0.5	None	None
___ 19SW		13	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	2.0 0.5	None	None
___ 20SW		15	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	2.0 0.5	None	None
___ 21SE		17	Vinyl	Low-E Double	Y 0.28	0.19	N	N	36.0	2	3.00	6.00	2.0 0.5	None	None
___ 22NW		19	Vinyl	Low-E Double	Y 0.28	0.19	N	N	36.0	2	3.00	6.00	2.0 0.5	None	None
___ 23N		21	Vinyl	Low-E Double	Y 0.28	0.19	N	N	9.2	1	1.83	5.00	2.0 0.5	None	None
___ 24N		21	Vinyl	Low-E Double	Y 0.28	0.19	N	N	9.6	1	1.92	5.00	2.0 0.5	None	None
___ 25NE		22	Vinyl	Low-E Double	Y 0.28	0.19	N	N	11.5	1	1.92	6.00	2.0 0.5	None	None
___ 26NE		22	Vinyl	Low-E Double	Y 0.28	0.19	N	N	12.0	1	2.00	6.00	2.0 0.5	None	None
___ 27NE		22	Vinyl	Low-E Double	Y 0.28	0.19	N	N	12.5	1	2.08	6.00	2.0 0.5	None	None
___ 28E		23	Vinyl	Low-E Double	Y 0.28	0.19	N	N	23.0	2	1.92	6.00	2.0 0.5	None	None
___ 29SW		24	Vinyl	Low-E Double	Y 0.25	0.21	N	N	36.5	5	2.92	2.50	2.0 0.5	None	None
___ 30NE		29	Vinyl	Low-E Double	Y 0.28	0.19	N	N	36.0	2	3.00	6.00	2.0 0.5	None	None
___ 31SW		31	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	2.0 0.5	None	None
___ 32NE		32	Vinyl	Low-E Double	Y 0.28	0.19	N	N	36.0	2	3.00	6.00	2.0 0.5	None	None
___ 33SE		33	Vinyl	Low-E Double	Y 0.28	0.19	N	N	32.0	2	2.67	6.00	2.0 0.5	None	None
___ 34SW		34	Vinyl	Low-E Double	Y 0.28	0.19	N	N	18.0	1	3.00	6.00	29.7 0.5	None	None
___ 35SE		36	Vinyl	Low-E Double	Y 0.28	0.19	N	N	45.0	3	2.50	6.00	13.0 0.5	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00043	4523	248.16	465.90	0.1775	6.0	All	45233 cu ft

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	1026 ft ²	1026 ft ²	64 ft	8 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	Kit Liv Din
___ 2	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	Sun
___ 3	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BR1
___ 4	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BA2
___ 5	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	Mud
___ 6	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	Sitting
___ 7	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	MBA
___ 8	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	MWIC
___ 9	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	MBR
___ 10	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	Library
___ 11	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BA1

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---				Ducts	Block
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	46.0		0.00	0.00	0.00	sys#1	1
___ 2	Electric Heat Pump	Split/Single		HSPF2: 7.50	22.8		0.00	0.00	0.00	sys#2	2

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:14.3	46.0	0	0.80	sys#1	1
___ 2	Central Unit	Split/Single		SEER2:14.3	22.8	0	0.75	sys#2	2

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.97 (0.94)	40.00 gal	50 gal	120 deg	Standard	=>R-3	99
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

INPUT SUMMARY CHECKLIST REPORT

DUCTS

✓ Duct #	Location	Supply R-Value	Area	Return Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	Cool
1	Attic	6.0	405 ft ²	Attic	6.0	106 ft ²	Prop. Leak Free	Attic	---	---	0.030	0.50	1	1
2	Attic	6.0	191 ft ²	Attic	6.0	52 ft ²	Prop. Leak Free	Attic	---	---	0.030	0.50	2	2

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec	
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec	
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ Dec	
✓ Thermostat Schedule: HERS 2006 Reference	Hours												
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 94

The lower the EnergyPerformance Index, the more efficient the home.

889 NW Blackberry Ct,Lake City,FL,32055

1. New construction or existing	New (From Plans)	10. Wall Types(4607.5 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=3.0	4527.50 ft ²
3. Number of units, if multiple family	1	b. Concrete Block - Int Insul, Adjacent	R=3.0	80.00 ft ²
4. Number of Bedrooms	2	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	4037	11. Ceiling Types(4037.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	4037.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.28	c. N/A		
SHGC:	SHGC=0.19	12. Roof(Metal, Vented)	Deck R=0.0	5476 ft ²
b. U-Factor:	Dbl, U=0.25	13. Ducts, location & insulation level	R	ft ²
SHGC:	SHGC=0.21	a. Sup: Attic, Ret: Attic, AH: Attic	6	405
c. U-Factor:	Dbl, U=0.30	b. Sup: Attic, Ret: Attic, AH: Attic	6	191
SHGC:	SHGC=0.19	c.		
Area Weighted Average Overhang Depth:	4.616 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.192	a. Central Unit	46.0	SEER2:14.30
8. Skylights	Description	b. Central Unit	22.8	SEER2:14.30
U-Factor:(AVG)	N/A	15. Heating Systems	kBtu/hr	Efficiency
SHGC(AVG):	N/A	a. Electric Heat Pump	46.0	HSPF2:7.50
9. Floor Types	Insulation	b. Electric Heat Pump	22.8	HSPF2:7.50
a. Slab-On-Grade Edge Insulation	R= 0.0	16. Hot Water Systems		
b. N/A	R=	a. Electric	Cap: 40 gallons	
c. N/A	R=	b. Conservation features	EF: 0.970	
		17. Credits	None	Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction 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: _____ Date: _____

Address of New Home: 889 NW Blackberry Ct City/FL Zip: Lake City,FL,32055



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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

Florida Building Code, Energy Conservation, 7th Edition (2020)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 889 NW Blackberry Ct
Lake City, FL 32055

Permit Number:

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. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code 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. 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.
 - 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.
- ☐ **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.

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, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
- ☐ **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 or 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 airflow 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. Postconstruction 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. Registers shall be taped or otherwise sealed during the test.**Exceptions;**
 1. A duct air 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).** If heated water circulation systems are installed, they 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 a 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.

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 ½ 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).**
 - ☐ **R403.5.6.1.1 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 systems.** 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 an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation Air.** Residential buildings designed to be operated at a positive indoor pressure or 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 space(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 heating and cooling calculation methodologies, 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.

MANDATORY REQUIREMENTS (Continued)

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	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

- ☐ **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 R403.7, 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 Florida Building Code, Energy Conservation—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).
- ☐ **403.10 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.

MANDATORY REQUIREMENTS (Continued)

- ☐ **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 operation.
 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.
- ☐ **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).** Not less than 90 percent of the lamps in permanently installed luminaires 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.

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

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1^a

Project Name: Clinton - 889 NW Blackberry Ct		Builder Name:	
Street: 889 NW Blackberry Ct		Permit Office: Lake City	
City, State, Zip: Lake City, FL, 32055		Permit Number:	
Owner:		Jurisdiction: 221200	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHECK
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
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 attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
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 within 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.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
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.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
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.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
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.	
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.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
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.		

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

10/30/2023 9:24:01 AM

EnergyGauge® USA 7.0 - FlaRes2020 FBC 7th Edition (2020) Compliant Software

Page 1

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2020 and 2022 Supplement Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction: 221200	Permit #:
Job Information	
Builder:	Community: Lot: NA
Address: 889 NW Blackberry Ct	
City: Lake City	State: FL Zip: 32055
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
☐ 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): 6.000	
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{45233}{\text{ACH}(50)} =$ 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), <i>Florida Statutes</i>, 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 <i>building thermal envelope</i>. During testing: - Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. - Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. - Interior doors, if installed at the time of the test, shall be open. - Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. - Heating and cooling systems, if installed at the time of the test, shall be turned off. - Supply and return registers, if installed at the time of the test, shall be fully open.	
Testing Company	
Company Name: _____ Phone: _____ 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: _____ Date of Test: _____ Printed Name of Tester: _____ License/Certification #: _____ Issuing Authority: _____	

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance

Jurisdiction: 221200	Permit #:										
Job Information											
Builder:	Community: Lot: NA										
Address: 889 NW Blackberry Ct											
City: Lake City	State: FL Zip: 32055										
Duct Leakage Test Results											
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="padding: 2px 5px;">System 1</td><td style="padding: 2px 5px;">_____ cfm25</td></tr><tr><td style="padding: 2px 5px;">System 2</td><td style="padding: 2px 5px;">_____ cfm25</td></tr><tr><td style="padding: 2px 5px;">System 3</td><td style="padding: 2px 5px;">_____ cfm25</td></tr><tr><td style="padding: 2px 5px;">Sum of others</td><td style="padding: 2px 5px;">_____ cfm25</td></tr><tr><td style="padding: 2px 5px;">Total of all</td><td style="padding: 2px 5px;">_____ cfm25</td></tr></table> $\frac{\text{Total of all systems}}{\text{Total Conditioned Square Footage}} \div \frac{4037}{\text{Total Conditioned Square Footage}} =$ _____ Qn	System 1	_____ cfm25	System 2	_____ cfm25	System 3	_____ cfm25	Sum of others	_____ cfm25	Total of all	_____ 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. <i>Is the air handler unit installed during testing?</i> ☐ YES ($\frac{0.04}{Qn}$) ☐ NO ($\frac{0.03}{Qn}$) ☒ Performance/ERI Method cfm25 (Out or Total) To qualify using this method, Qn must not be greater than the <i>Leakage Type selected on Form</i> Proposed Leak Free 0.030
System 1	_____ cfm25										
System 2	_____ cfm25										
System 3	_____ cfm25										
Sum of others	_____ cfm25										
Total of all	_____ cfm25										

☐ **PASS**

☐ **FAIL**

Testing Company

Company Name: _____

Phone: _____

I hereby verify that the above duct leakage testing results are in accordance with the Florida Building Code requirements with the selected compliance path as stated above, either the Prescriptive Method or Performance Method.

Signature of Tester: _____

Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____

Issuing Authority: _____