

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 6 Rosepoint Street: 551 SE Plant St City, State, Zip: Lake City, FL, Owner: James & Lora David Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: columbia(Florida Climate Zone 2)
---	--

1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 1496 Conditioned floor area below grade (ft²) 0 7. Windows(163.0 sqft.) Description Area a. U-Factor: Dbl, U=0.33 163.00 ft² SHGC: SHGC=0.22 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.220 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 1496.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1434.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1248.00 ft² b. Frame - Wood, Adjacent R=13.0 186.00 ft² c. N/A d. N/A 11. Ceiling Types(1496.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 1496.00 ft² b. N/A c. N/A 12. Roof(Metal, Vented) Deck R=0.0 1673 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 8 299 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 30.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 30.0 HSPF2:8.20 16. Hot Water Systems a. Electric Cap: 40 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
--	--

Glass/Floor Area: 0.109	Total Proposed Modified Loads: 37.70	PASS
	Total Baseline Loads: 40.42	
NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.		

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 10-4-24 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.  BUILDING OFFICIAL: _____ DATE: _____
--	--

- 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title: Lot 6 Rosepoint

Building Type: User

Owner: James & Lora David

Builder Home ID:

Builder Name:

Permit Office: Columbia County

Jurisdiction:

Family Type: Detached

New/Existing: New (From Plans)

Year Construct: 2024

Comment:

Bedrooms: 3

Conditioned Area: 1496

Total Stories: 1

Worst Case: No

Rotate Angle: 0

Cross Ventilation:

Whole House Fan:

Terrain: Rural

Shielding: Moderate/Rural

Address type: Street Address

Lot #: ---

Block/SubDivision: ---

PlatBook: ---

Street: 551 SE Plant St

County: columbia

City, State, Zip: Lake City, FL,

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

Block1

1496

13464 cu ft

SPACES

✓ Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

___ 1

Main

1496

13464

Yes

6

3

Yes

Yes

Yes

FLOORS (Total Exposed Area = 1496 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

Main

160

1496 sqft

0 ---

0.600

2 (ft)/0 (ft)

0.33

0.33

0.34

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

1673 ft²

374 ft²

Light

N

0.6

No

0.9

No

0

26.6

ATTIC

✓ #

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

___ 1

Full attic

Vented

300

1496 ft²

N

N

CEILING (Total Exposed Area = 1496 sq.ft.)

✓ #

Ceiling Type

Space

R-Value

Ins. Type

Area

U-Factor

Framing Frac.

Truss Type

___ 1

Flat ceiling under attic(Vented)

Main

30.0

Blown

1496.0ft²

0.053

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1434 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	N	Exterior	Frame - Wood	Main	13.0	31.0	4	9.0	0	282.0	0.087	0.625	0.23	0.75	0 %		
___ 2	E	Exterior	Frame - Wood	Main	13.0	48.0	4	9.0	0	435.0	0.087	0.625	0.23	0.75	0 %		
___ 3	S	Exterior	Frame - Wood	Main	13.0	30.0	4	9.0	0	273.0	0.087	0.625	0.23	0.75	0 %		
___ 4	W	Garage	Frame - Wood	Main	13.0	20.0	8	9.0	0	186.0	0.087	0.625	0.23	0.75	0 %		
___ 5	W	Exterior	Frame - Wood	Main	13.0	17.0	4	9.0	0	156.0	0.087	0.625	0.23	0.75	0 %		
___ 6	W	Exterior	Frame - Wood	Main	13.0	11.0	4	9.0	0	102.0	0.087	0.625	0.23	0.75	0 %		

DOORS (Total Exposed Area = 78 sq.ft.)													
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	E	Exterior	Insulated	Main	None	0.40	6.00	0	6.00	8	40.0ft²		
___ 2	W	Garage	Insulated	Main	None	0.40	2.00	8	6.00	8	17.8ft²		
___ 3	W	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		

WINDOWS (Total Exposed Area = 163 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	N	1	Vinyl	Low-E Double	Y 0.33	0.22	N	N	4.0	1	4.00	1.00	1.5	1.3	IECC 2012	None	
___ 2	E	2	Vinyl	Low-E Double	Y 0.33	0.22	N	N	45.0	3	3.00	5.00	1.5	1.3	IECC 2012	None	
___ 3	E	2	Vinyl	Low-E Double	Y 0.33	0.22	N	N	20.0	1	4.00	5.00	1.5	1.3	IECC 2012	None	
___ 4	E	2	Vinyl	Low-E Double	Y 0.33	0.22	N	N	9.0	1	3.00	3.00	1.5	1.3	IECC 2012	None	
___ 5	S	3	Vinyl	Low-E Double	Y 0.33	0.22	N	N	16.0	1	4.00	4.00	1.5	1.3	IECC 2012	None	
___ 6	W	5	Vinyl	Low-E Double	Y 0.33	0.22	N	N	54.0	3	3.00	6.00	1.5	1.3	IECC 2012	None	
___ 7	W	6	Vinyl	Low-E Double	Y 0.33	0.22	N	N	15.0	1	3.00	5.00	1.5	1.3	IECC 2012	None	

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00029	1122	61.56	115.56	0.1027	5.0	All	13464 cu ft	

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	400 ft²	400 ft²	64 ft	8 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump----			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.20	30.0		0.00	0.00	0.00	sys#1 1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM														
✓	#	System Type	Subtype/Speed		AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block			
___	1	Central Unit	None/Single			SEER2:15.0	30.0	900	0.80	sys#1	1			
HOT WATER SYSTEM														
✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length			
___	1	Electric	None	Main	0.92 (0.92)	40.00 gal	60 gal	120 deg	Standard	None	65			
		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			
DUCTS														
✓	Duct #	-----Supply----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
___	1	Attic	8.0	299 ft²	Attic	8.0	75 ft²	Prop. Leak Free	Main	---	---	0.030	0.50	1 1
TEMPERATURES														
Programable Thermostat: Y Ceiling Fans: N														
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec		
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec		
✓	Thermostat Schedule: HERS 2006 Reference													
	Schedule Type	1	2	3	4	5	6	Hours 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* = 93

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

551 SE Plant St,Lake City,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1434.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1248.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	186.00 ft ²
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1496	11. Ceiling Types(1496.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	1496.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.33	c. N/A		
SHGC:	SHGC=0.22	12. Roof(Metal, Vented)	Deck R=0.0	1673 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	8	299
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.220	a. Central Unit	30.0	SEER2:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	30.0	HSPF2:8.20
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric	Cap: 40 gallons	
b. N/A	R=		EF: 0.920	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			CF, 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: 551 SE Plant St

City/FL Zip: Lake City,FL,



*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.