

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Little Residence Street: Little Road City, State, Zip: Lake City, FL, 32024 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
---	--

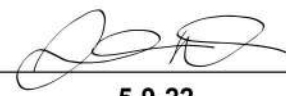

  

1. New construction or existing      New (From Plans) 2. Single family or multiple family      Detached 3. Number of units, if multiple family      1 4. Number of Bedrooms      4 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      2710 Conditioned floor area below grade (ft²)      0 7. Windows(336.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.26      336.00 ft² SHGC:      SHGC=0.20 b. U-Factor:      N/A      ft² SHGC: c. U-Factor:      N/A      ft² SHGC: Area Weighted Average Overhang Depth:      6.905 ft Area Weighted Average SHGC:      0.200 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      2710.00 ft² b. N/A      R=      ft² c. N/A      R=      ft²	10. Wall Types(2613.7 sqft.)      Insulation      Area a. Concrete Block - Int Insul, Exterior      R=13.0      2613.70 ft² b. N/A      R=      ft² c. N/A      R=      ft² d. N/A      R=      ft² 11. Ceiling Types(2710.0 sqft.)      Insulation      Area a. Cathedral/Single Assembly (Unvented)      R=30.0      2710.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² 12. Ducts, location & insulation level      R      ft² a. a. Sup: Main, Ret: Main, AH: Main      6      542 b. c. 13. Cooling Systems      kBtu/hr      Efficiency a. Central Unit      36.0      SEER:15.00 14. Heating Systems      kBtu/hr      Efficiency a. Electric Heat Pump      36.0      HSPF:8.50 15. Hot Water Systems a. Electric      Cap: 50 gallons EF: 0.920 b. Conservation features      None Pstat 16. Credits
--	---

Glass/Floor Area: 0.124	Total Proposed Modified Loads: 51.56	PASS
	Total Baseline Loads: 74.59	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY:  DATE: <u>5-9-22</u>  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:	Little Residence	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	2710	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Name:		Worst Case:	No	PlatBook:	---
Permit Office:		Rotate Angle:	0	Street:	Little Road
Jurisdiction:		Cross Ventilation:		County:	Columbia
Family Type:	Detached	Whole House Fan:		City, State, Zip:	Lake City, FL, 32024
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2022	Shielding:	Moderate/Rural		
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	Block1	2710	25295.140625

## SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2710	25295.14	Yes	8	4	Yes	Yes	Yes

## FLOORS

(Total Exposed Area = 2710 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	279	0	2710 ft	0.516	---	0.10	0.70	0.20

## 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	Composition shingles	3137 ft²	790 ft²	Dark	N	0.96	No	0.9	No	30	30.26

## ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	2710 ft²	N	N

## CEILING

(Total Exposed Area = 2710 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Cathedral/Single Assembly(Unvented)	Main	30.0	Blown	2710.0ft²	0.032	0.11	Wood

# INPUT SUMMARY CHECKLIST REPORT

## WALLS

(Total Exposed Area = 2614 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	W	Exterior	Conc. Blk - Int Ins	Main	13.0	17.0	0	9.0	4	158.7	0.064		0	0.75	0 %
___ 2	N	Exterior	Conc. Blk - Int Ins	Main	13.0	13.0	10	9.0	4	129.1	0.064		0	0.75	0 %
___ 3	W	Exterior	Conc. Blk - Int Ins	Main	13.0	34.0	10	10.0	0	348.3	0.064		0	0.75	0 %
___ 4	S	Exterior	Conc. Blk - Int Ins	Main	13.0	7.0	0	9.0	4	65.3	0.064		0	0.75	0 %
___ 5	W	Exterior	Conc. Blk - Int Ins	Main	13.0	30.0	10	9.0	4	287.8	0.064		0	0.75	0 %
___ 6	N	Exterior	Conc. Blk - Int Ins	Main	13.0	21.0	6	9.0	4	200.7	0.064		0	0.75	0 %
___ 7	E	Exterior	Conc. Blk - Int Ins	Main	13.0	3.0	8	9.0	4	34.2	0.064		0	0.75	0 %
___ 8	N	Exterior	Conc. Blk - Int Ins	Main	13.0	15.0	4	9.0	4	143.1	0.064		0	0.75	0 %
___ 9	E	Exterior	Conc. Blk - Int Ins	Main	13.0	17.0	0	9.0	4	158.7	0.064		0	0.75	0 %
___ 10	S	Exterior	Conc. Blk - Int Ins	Main	13.0	3.0	10	9.0	4	35.8	0.064		0	0.75	0 %
___ 11	E	Exterior	Conc. Blk - Int Ins	Main	13.0	45.0	0	10.0	0	450.0	0.064		0	0.75	0 %
___ 12	N	Exterior	Conc. Blk - Int Ins	Main	13.0	3.0	10	9.0	4	35.8	0.064		0	0.75	0 %
___ 13	E	Exterior	Conc. Blk - Int Ins	Main	13.0	17.0	0	9.0	4	158.7	0.064		0	0.75	0 %
___ 14	S	Exterior	Conc. Blk - Int Ins	Main	13.0	43.0	8	9.0	4	407.6	0.064		0	0.75	0 %

## DOORS

(Total Exposed Area = 167 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	W	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²
___ 2	S	Exterior	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
___ 4	W	Exterior	Insulated	Main	None	0.40	5.00	0	6.00	8	33.3ft²
___ 5	E	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²

## WINDOWS

(Total Exposed Area = 336 sq.ft.)

✓	#	Wall		Frame	Panels	NFRC	U-Factor	SHGC	Imp	Storm	Area	-----Overhang-----		Interior Shade	Screening
		Ornt	ID									Depth	Separation		
___	1	W	1	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	18.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	2	W	3	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	72.0ft²	11.0 ft 6 in	2.0 ft 4 in	None	None
___	3	W	3	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	16.0ft²	11.0 ft 6 in	2.0 ft 4 in	None	None
___	4	W	5	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	12.0ft²	31.0 ft 6 in	2.0 ft 4 in	None	None
___	5	N	6	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	6.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	6	N	6	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	20.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	7	N	6	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	3.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	8	N	8	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	24.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	9	E	9	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	10E		11	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	72.0ft²	9.0 ft 6 in	2.0 ft 4 in	None	None
___	11E		13	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	12E		13	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	18.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___	13E		13	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	3.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None

## INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00030	2108	115.65	217.11	0.1042	5.0	All

## MASS

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

## INPUT SUMMARY CHECKLIST REPORT

## HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current				Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF: 8.50	36.0	0.00	0.00	0.00		sys#1	1

## COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:15.0	36.0	1080	0.85	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)	50.00 gal	70 gal	120 deg	Standard	None	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

## DUCTS

✓ Duct #	Location	Supply R-Value Area	Return R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Main	6.0 542 ft²	Main 6.0 136 ft²	Prop. Leak Free	Main	---	---	0.03	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\* = 69

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

Little Road,Lake City,FL,32024

1. New construction or existing	New (From Plans)	10. Wall Types(2613.7 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=13.0	2613.70 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. N/A	R=	ft <sup>2</sup>
4. Number of Bedrooms	4	c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No	d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area above grade (ft <sup>2</sup> )	2710	11. Ceiling Types(2710.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft <sup>2</sup> )	0	a. Cathedral/Single Assembly (Unvented)	R=30.0	2710.00 ft <sup>2</sup>
7. Windows**	Description	b. N/A	R=	ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.26	c. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.20	12. Ducts, location & insulation level	R	ft <sup>2</sup>
b. U-Factor:	N/A	a. a. Sup: Main, Ret: Main, AH: Main	6	542
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	6.905 ft	a. Central Unit	36.0	SEER:15.00
Area Weighted Average SHGC:	0.200	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	36.0	HSPF:8.50
U-Factor:(AVG)	N/A	15. Hot Water Systems		
SHGC(AVG):	N/A	a. Electric	Cap: 50 gallons	
9. Floor Types	Insulation	b. Conservation features	EF: 0.920	
a. Slab-On-Grade Edge Insulation	R= 0.0			None
b. N/A	R=			Pstat
c. N/A	R=	16. Credits		

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: Little Road City/FL Zip: Lake City,FL,32024



\*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.