

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Little Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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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 5 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2862 Conditioned floor area below grade (ft²) 0 7. Windows(379.5 sqft.) Description Area a. U-Factor: Dbl, U=0.26 379.50 ft² SHGC: SHGC=0.20 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: 0.200 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 2862.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2992.7 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 2514.20 ft² b. Frame - Wood, Adjacent R=13.0 478.50 ft² c. N/A d. N/A 11. Ceiling Types(2862.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=0.0 2862.00 ft² b. N/A c. N/A 12. Roof(Metal, Unvent) Deck R=30.0 3313 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Garage 6 572 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 48.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF2:8.20 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.133	Total Proposed Modified Loads: 65.66	PASS
	Total Baseline Loads: 78.49	

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: 10-31-24 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: _____
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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 5.24 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:Little Residence

Building Type:User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type:Detached

New/Existing:New (From Plans)

Year Construct:2024

Comment:

Bedrooms:5

Conditioned Area:2862

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:

County:Columbia

City, State, Zip: , FL,

CLIMATE

✓

Design Location

Tmy Site

Design Temp

97.5%2.5%

Int Design Temp

WinterSummer

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

2862

25758 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

1

Main

2862

25758

Yes

10

5

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 2862 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

3152862 sqft

0---

0.563

0 (ft)/0 (ft)

0.20

0.60

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

Metal

3313 ft²834 ft²

Unf, Gal.

N

0.7

No

0.7

No

30

30.26

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

No attic

Unvented

0

2862 ft²

N

N

CEILING

(Total Exposed Area = 2862 sq.ft.)

✓

#

Ceiling Type

Space

R-Value

Ins. Type

Area

U-Factor

Framing Frac.

Truss Type

1

Single assembly, no airspace(Unvented)

Main

0.0

Blown

2862.0ft²

0.031

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2993 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	19.0	23.0	0	9.0	0	207.0	0.061		0.23	0.75	0 %			
___ 2	E	Exterior	Frame - Wood	Main	19.0	22.0	0	9.0	0	198.0	0.061		0.23	0.75	0 %			
___ 3	N	Exterior	Frame - Wood	Main	19.0	39.0	4	10.0	0	393.3	0.061		0.23	0.75	0 %			
___ 4	W	Exterior	Frame - Wood	Main	19.0	22.0	0	9.0	0	198.0	0.061		0.23	0.75	0 %			
___ 5	N	Exterior	Frame - Wood	Main	19.0	15.0	8	9.0	0	141.0	0.061		0.23	0.75	0 %			
___ 6	E	Exterior	Frame - Wood	Main	19.0	55.0	8	9.0	0	501.0	0.061		0.23	0.75	0 %			
___ 7	S	Exterior	Frame - Wood	Main	19.0	23.0	0	9.0	0	207.0	0.061		0.23	0.75	0 %			
___ 8	W	Exterior	Frame - Wood	Main	19.0	3.0	6	9.0	0	31.5	0.061		0.23	0.75	0 %			
___ 9	S	Exterior	Frame - Wood	Main	19.0	10.0	8	9.0	0	96.0	0.061		0.23	0.75	0 %			
___ 10	E	Exterior	Frame - Wood	Main	19.0	2.0	0	10.0	0	20.0	0.061		0.23	0.75	0 %			
___ 11	S	Exterior	Frame - Wood	Main	19.0	10.0	8	10.0	0	106.7	0.061		0.23	0.75	0 %			
___ 12	W	Exterior	Frame - Wood	Main	19.0	2.0	0	10.0	0	20.0	0.061		0.23	0.75	0 %			
___ 13	S	Exterior	Frame - Wood	Main	19.0	10.0	8	10.0	0	106.7	0.061		0.23	0.75	0 %			
___ 14	W	Garage	Frame - Wood	Main	13.0	53.0	2	9.0	0	478.5	0.084		0.23	0.75	0 %			
___ 15	W	Exterior	Frame - Wood	Main	19.0	32.0	0	9.0	0	288.0	0.061		0.23	0.75	0 %			

DOORS											(Total Exposed Area = 140 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²			
___ 2	W	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²			
___ 3	S	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²			
___ 4	W	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²			

WINDOWS																	(Total Exposed Area = 380 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	0.26	0.20	N	N	24.0	2	2.00	6.00	1.5	1.3	None	None			
___ 2	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	1.3	None	None			
___ 3	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	2	2.50	4.00	1.5	1.3	None	None			
___ 4	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	72.0	4	3.00	6.00	1.5	1.3	None	None			
___ 5	N	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None			
___ 6	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	75.0	5	3.00	5.00	1.5	1.3	None	None			
___ 7	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	2	3.00	1.00	1.5	1.3	None	None			
___ 8	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None			
___ 9	S	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	35.0	2	2.50	7.00	1.5	1.3	None	None			
___ 10S		13	Vinyl	Low-E Double	Y	0.26	0.20	N	N	35.0	2	2.50	7.00	1.5	1.3	None	None			
___ 11W		15	Vinyl	Low-E Double	Y	0.26	0.20	N	N	7.5	1	2.50	3.00	1.5	1.3	None	None			
___ 12W		15	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	1.3	None	None			
___ 13W		15	Vinyl	Low-E Double	Y	0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	1.3	None	None			

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	2250	123.43	231.72	0.1076	5.2	All	25758 cu ft

INPUT SUMMARY CHECKLIST REPORT

GARAGE													
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation								
___ 1	544 ft²	544 ft²	50 ft	9 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 Entry	Heat Pump Power	----	Volt	Current	Ducts	Block	
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.20	48.0		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		SEER2:15.0	48.0	1440	0.75	sys#1	1				
HOT WATER SYSTEM													
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length			
___ 1	Electric	None	Garage	0.92 (0.92)	50.00 gal	80 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----- Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
___ 1	Main	6.0	572 ft²	Main	6.0	143 ft²	Prop. Leak Free	Garage	---	---	0.030	0.50	1 1
TEMPERATURES													
Programable Thermostat: Y													
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													
Ceiling Fans: N													
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 80	78 80	78 80	78 80	78 80	78 80	80 78	80 78	80 78
___	Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	80 78	80 78	80 78

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

___ Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
___ Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68