

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

## Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Streeter 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      3 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      1560 Conditioned floor area below grade (ft²)      0 7. Windows(194.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.26      194.00 ft² SHGC:      SHGC=0.33 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:      0.330 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      1560.00 ft² b. N/A      R=      ft² c. N/A      R=      ft²	10. Wall Types(1461.0 sqft.)      Insulation      Area a. Frame - Wood, Exterior      R=13.0      1107.00 ft² b. Frame - Wood, Adjacent      R=13.0      354.00 ft² c. N/A d. N/A 11. Ceiling Types(1560.0 sqft.)      Insulation      Area a. Flat ceiling under att (Unvented)      R=30.0      1560.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0      1806 ft² 13. Ducts, location & insulation level      R      ft² a. Sup: Attic, Ret: Attic, AH: Garage      6      312 b. c. 14. Cooling Systems      kBtu/hr      Efficiency a. Central Unit      36.0      SEER2:16.00  15. Heating Systems      kBtu/hr      Efficiency a. Electric Heat Pump      36.0      HSPF2:7.70  16. Hot Water Systems a. Electric      Cap: 40 gallons EF: 0.920 b. Conservation features  None CF 17. Credits
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Glass/Floor Area: 0.124	Total Proposed Modified Loads: 42.12	<div style="font-size: 2em; font-weight: bold;">PASS</div>
	Total Baseline Loads: 45.43	

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: 11-20-24  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.  <div style="text-align: center;">           BUILDING OFFICIAL: _____          DATE: _____       </div>
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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:Streeter 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:3

Conditioned Area:1560

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

1560

14040 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

\_\_\_

1

Main

1560

14040

Yes

6

3

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 1560 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

168

1560 sqft

0.0

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0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

ROOF

✓

#

Type

Materials

Roof Area

Gable Area

Framing. Fract.

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

\_\_\_

1

Gable or shed

Composition shingles

1806 ft²

456 ft²

0.11

Dark

N

0.96

No

0.9

No

0

30.26

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

\_\_\_

1

Full attic

Vented

300

1560 ft²

N

N

CEILING

(Total Exposed Area = 1560 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

1560.0ft²

0.030

0.11

Wood

## INPUT SUMMARY CHECKLIST REPORT

WALLS																(Total Exposed Area = 1461 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	40.0	0	9.0	0	360.0	0.084		0.23	0.75	0 %				
___ 2	E	Exterior	Frame - Wood	Main	13.0	38.0	0	9.0	0	342.0	0.084		0.23	0.75	0 %				
___ 3	S	Exterior	Frame - Wood	Main	13.0	40.0	0	9.0	0	360.0	0.084		0.23	0.75	0 %				
___ 4	W	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.084		0.23	0.75	0 %				
___ 5	W	Garage	Frame - Wood	Main	13.0	39.0	4	9.0	0	354.0	0.084		0.23	0.75	0 %				

  

DOORS												(Total Exposed Area = 84 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	3.00	0	6.00	8	20.0ft²				
___ 2	N	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²				
___ 3	S	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²				
___ 4	W	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²				

  

WINDOWS																(Total Exposed Area = 194 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	0.33	N	N	108.0	6	3.00	6.00	1.5	2.3	None	None		
___ 2	E	2	Vinyl	Low-E Double	Y	0.26	0.33	N	N	8.0	1	2.00	4.00	1.5	2.3	None	None		
___ 3	E	2	Vinyl	Low-E Double	Y	0.26	0.33	N	N	6.0	1	4.00	1.50	1.5	2.3	None	None		
___ 4	S	3	Vinyl	Low-E Double	Y	0.26	0.33	N	N	54.0	3	3.00	6.00	1.5	2.3	None	None		
___ 5	W	4	Vinyl	Low-E Double	Y	0.26	0.33	N	N	18.0	1	3.00	6.00	1.5	2.3	None	None		

  

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	1226	67.28	126.31	0.1076	5.2	All	14040 cu ft

  

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	803 ft²	33.0 ft²	24.3 ft²	803 ft²	81 ft	803 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 HeatPump---- Entry Power	Volt	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.70	36.0	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			SEER2:16.0	36.0	1080	0.75	sys#1	1		
HOT WATER SYSTEM													
✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length	
___	1	Electric	None	Garage	0.92 (0.92)	40.0 gal	60 gal	120 deg	Standard	Yes	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 #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area		Leakage Type		AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool	
___	1	Attic 6.0 312 ft²	Attic 6.0 78 ft²		Prop. Leak Free		Garage	--- ---	0.030	Yes	0.50	1 1	
TEMPERATURES													
Programable Thermostat: N      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 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 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
___	Heating (WD)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
___	Heating (WEH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68