

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Seth & Angel Shaw 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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2240 Conditioned floor area below grade (ft²) 0 7. Windows(266.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 266.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.289 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 2240.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2110.5 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2110.50 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2240.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 2240.00 ft² b. N/A c. N/A 12. Roof(Metal, Vented) Deck R=0.0 2593 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 448 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.0 HSPF2:8.50 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: 0.119	Total Proposed Modified Loads: 52.17	PASS
	Total Baseline Loads: 57.74	
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: _____ 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title: Seth & Angel Shaw

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: 4

Conditioned Area: 2240

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 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

2240

20160 cu ft

SPACES

✓ Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

___ 1

Main

2240

20160

Yes

8

4

Yes

Yes

Yes

FLOORS (Total Exposed Area = 2240 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

224

2240 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

2593 ft²

654 ft²

Light

N

0.6

No

0.9

No

0

30.26

ATTIC

✓ #

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

___ 1

Full attic

Vented

300

2240 ft²

N

N

CEILING (Total Exposed Area = 2240 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

2240.0ft²

0.053

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 2111 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	19.0	0	9.0	0	171.0	0.087	0.625	0.23	0.75	0 %						
___ 2	E	Exterior	Frame - Wood	Main	13.0	9.0	0	9.0	0	81.0	0.087	0.625	0.23	0.75	0 %						
___ 3	N	Exterior	Frame - Wood	Main	13.0	25.0	8	10.0	0	256.7	0.087	0.625	0.23	0.75	0 %						
___ 4	W	Exterior	Frame - Wood	Main	13.0	9.0	0	9.0	0	81.0	0.087	0.625	0.23	0.75	0 %						
___ 5	N	Exterior	Frame - Wood	Main	13.0	16.0	4	9.0	0	147.0	0.087	0.625	0.23	0.75	0 %						
___ 6	E	Exterior	Frame - Wood	Main	13.0	38.0	4	9.0	0	345.0	0.087	0.625	0.23	0.75	0 %						
___ 7	S	Exterior	Frame - Wood	Main	13.0	12.0	4	9.0	0	111.0	0.087	0.625	0.23	0.75	0 %						
___ 8	E	Exterior	Frame - Wood	Main	13.0	3.0	8	9.0	0	33.0	0.087	0.625	0.23	0.75	0 %						
___ 9	S	Exterior	Frame - Wood	Main	13.0	35.0	10	10.0	0	358.3	0.087	0.625	0.23	0.75	0 %						
___ 10	W	Exterior	Frame - Wood	Main	13.0	3.0	8	9.0	0	33.0	0.087	0.625	0.23	0.75	0 %						
___ 11	S	Exterior	Frame - Wood	Main	13.0	12.0	10	9.0	0	115.5	0.087	0.625	0.23	0.75	0 %						
___ 12	W	Exterior	Frame - Wood	Main	13.0	42.0	0	9.0	0	378.0	0.087	0.625	0.23	0.75	0 %						

DOORS												(Total Exposed Area = 100 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²			
___ 2	W	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 3	S	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²			

WINDOWS																	(Total Exposed Area = 266 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	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	49.0	2	3.50	7.00	10.5	2.3	None	None		
___ 2	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	2	2.50	3.00	10.5	2.3	None	None		
___ 3	N	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	3	3.00	2.00	1.5	2.3	None	None		
___ 4	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None		
___ 5	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None		
___ 6	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	2	2.00	5.00	1.5	2.3	None	None		
___ 7	S	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	72.0	4	3.00	6.00	7.5	2.3	None	None		
___ 8	S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	2	2.00	5.00	1.5	2.3	None	None		
___ 9	W	12	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	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)	0.00029	1680	92.17	173.04	0.1027	5.0	All	20160 cu ft

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	

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM(Continued)

1 Electric Heat Pump None/Single HSPF2: 8.50 36.0 0.00 0.00 0.00 sys#1 1

COOLING SYSTEM

1 Central Unit None/Single SEER2:15.0 36.0 1080 0.85 sys#1 1

HOT WATER SYSTEM

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

1 Attic 6.0 448 ft² Attic 6.0 112 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	7	8	9	10	11	12
Cooling (WD)	AM 78	78	78	78	78	78	78	78	80	80	80	80
	PM 80	80	80	80	78	78	78	78	78	78	78	78
Cooling (WEH)	AM 78	78	78	78	78	78	78	78	80	80	80	80
	PM 80	80	80	80	78	78	78	78	78	78	78	78
Heating (WD)	AM 65	65	65	65	65	65	65	65	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	65	68	68	68	68
	PM 68	68	68	68	68	68	68	68	68	68	68	68