

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 24 Turkey Run
 Street:
 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	Single-family
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 (ft ²)	1570
Conditioned floor area below grade (ft ²)	0
7. Windows (148.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 148.00 ft ²
SHGC:	SHGC=0.22
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	2.493 ft.
Area Weighted Average SHGC:	0.220
8. Floor Types (1570.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1570.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types (1695.1 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 1461.10 ft ²
b. Frame - Wood, Adjacent	R=13.0 234.00 ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (1570.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 1570.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	R ft ²
a. Sup: Attic, Ret: Attic, AH: Garage	6 314
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	30.0 SEER:14.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	30.0 HSPF:8.50
14. Hot water systems	
a. Electric	Cap: 40 gallons
	EF: 0.920
b. Conservation features	
None	
15. Credits	CF, Pstat

Glass/Floor Area: 0.094

Total Proposed Modified Loads: 45.65

Total Baseline Loads: 47.64

PASS

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: _____

- 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 requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a 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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Rose Point Spec		Bedrooms:	3		Address Type:	Lot Information						
Building Type:	User		Conditioned Area:	1527		Lot #	20						
Owner Name:			Total Stories:	1		Block/Subdivision:	Rose Point						
# of Units:	1		Worst Case:	No		PlatBook:	SW Cherry Blossom W						
Builder Name:			Rotate Angle:	0		Street:							
Permit Office:			Cross Ventilation:			County:	Columbia						
Jurisdiction:			Whole House Fan:			City, State, Zip:	Lake City , FL , 32024						
Family Type:	Single-family												
New/Existing:	New (From Plans)												
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_REGI	32	92	70	75	1305.5	51	Medium				
BLOCKS													
	Number	Name	Area	Volume									
	1	Block1	1570	12560									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	1570	12560	Yes	6	3	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area			Tile	Wood	Carpet		
_____	1	Slab-On-Grade Edge Insulatio	Main	195 ft	0	1570 ft²	----		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	Hip	Composition shingles	1756 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	26.6
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Vented	300	1570 ft²	N	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	30	Blown	1570 ft²	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
1	N	Exterior	Frame - Wood	Main	13	29	2	8		233.3 ft²	0.625	0.23	0.75	0
2	W	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²	0.625	0.23	0.75	0
3	N	Exterior	Frame - Wood	Main	13	10	8	9		96.0 ft²	0.625	0.23	0.75	0
4	E	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²	0.625	0.23	0.75	0
5	N	Exterior	Frame - Wood	Main	13	10	2	9		91.5 ft²	0.625	0.23	0.75	0
6	E	Exterior	Frame - Wood	Main	13	27	5	9		246.8 ft²	0.625	0.23	0.75	0
7	S	Exterior	Frame - Wood	Main	13	18	6	9		166.5 ft²	0.625	0.23	0.75	0
8	W	Exterior	Frame - Wood	Main	13	5		9		45.0 ft²	0.625	0.23	0.75	0
9	S	Exterior	Frame - Wood	Main	13	10	10	9		97.5 ft²	0.625	0.23	0.75	0
10	E	Exterior	Frame - Wood	Main	13	5		9		45.0 ft²	0.625	0.23	0.75	0
11	W	Exterior	Frame - Wood	Main	13	32	10	9		295.5 ft²	0.625	0.23	0.75	0
12	S	Garage	Frame - Wood	Main	13	26		9		234.0 ft²	0.625	0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	E	Insulated	Main	None	.4	6		6	8	40 ft²
2	S	Insulated	Main	None	.4	3		6	8	20 ft²
3	S	Insulated	Main	None	.4	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	45.0 ft²	1 ft 6 in	1 ft 4 in	None	None
2	W	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
3	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
4	N	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 ft²	9 ft 6 in	1 ft 4 in	None	None
5	S	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
6	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	6 ft 6 in	1 ft 4 in	None	None
7	W	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	4.0 ft²	1 ft 6 in	1 ft 4 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	430.5 ft²	430.5 ft²	56.667 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	1046.7	57.46	108.06	.0956	5

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM										
☒	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts			
☒	1	Electric Heat Pump/	None	HSPF:8.5	30 kBtu/hr	1	sys#1			

COOLING SYSTEM									
☒	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
☒	1	Central Unit/	None	SEER: 14	30 kBtu/hr	900 cfm	0.85	1	sys#1

HOT WATER SYSTEM									
☒	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
☒	1	Electric	None	Garage	0.92	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
☒	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
☒	None	None			ft ²		

DUCTS														
☒	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
☒	1	Attic	6	314 ft ²	Attic	78.5 ft ²	Prop. Leak Free	Garage	--- cfm	47.1 cfm	0.03	0.50	1	1

TEMPERATURES														
Programable Thermostat: Y Ceiling Fans:														
Cooling Heating Venting	☒ Jan ☒ Jan	☒ Feb ☒ Feb	☒ Mar ☒ Mar	☒ Apr ☒ Apr	☒ May ☒ May	☒ Jun ☒ Jun	☒ Jul ☒ Jul	☒ Aug ☒ Aug	☒ Sep ☒ Sep	☒ Oct ☒ Oct	☒ Nov ☒ Nov	☒ Dec ☒ Dec		
Thermostat Schedule: HERS 2006 Reference														
Schedule Type														
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68	
Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68	

MASS				
Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft ²	0 ft	0.3	Main