

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Rosenboom Rowland
 Street:
 City, State, Zip: , FL ,
 Owner: Rowland
 Design Location: FL, Gainesville

Builder Name:
 Permit Office:
 Permit Number:
 Jurisdiction:
 County: Alachua (Florida Climate Zone 2)

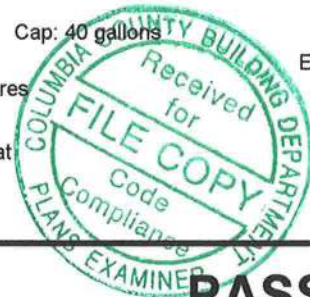
1. New construction or existing
 2. Single family or multiple family
 3. Number of units, if multiple family
 4. Number of Bedrooms
 5. Is this a worst case?
 6. Conditioned floor area above grade (ft²)
 Conditioned floor area below grade (ft²)
 7. Windows(208.2 sqft.) Description
 a. U-Factor: Dbl, U=0.35 SHGC: ft
 SHGC=0.25 b. U-Factor: N/A 2 f
 SHGC: 2 f
 c. U-Factor: N/A t²
 SHGC: t²
 d. U-Factor: N/A ft
 SHGC: ft
 Area Weighted Average Overhang Depth: 2
 Area Weighted Average SHGC: lation
 8. Floor Types (1575.0 sqft.) 1.500 ft.
 a. Slab-On-Grade Edge Insulation 0.250
 R=0.0 Area
 b. N/A R= 1575.00 ft²
 c. N/A R= ft
 2 f
 t²

9. Wall Types(1440.0 sqft.) Insulation Area
 a. Frame - Wood, Exterior R=13.0 1440.00 ft²
 b. N/A R= ft²
 c. N/A R= ft²
 d. N/A R= ft²
 10. Ceiling Types (1575.0 sqft.) Insulation Area
 a. Under Attic (Vented) R=30.0 1575.00 ft²
 b. N/A R= ft²
 c. N/A R= ft²
 11. Ducts R ft²
 a. Sup: Attic, Ret: Attic, AH: Attic 6 315

12. Cooling systems k B t u / h r Efficiency
 a. Central Unit 28.6 SEER:16.00

13. Heating systems k B t u / h r Efficiency
 a. Electric Heat Pump 27.8 HSPF:9.00

14. Hot water systems
 a. Electric Cap: 40 gallons EF: 0.920
 b. Conservation features
 None
 15. Credits CF, Pstat



Glass/Floor Area: 0.132

Total Proposed Modified Loads: 43.24

Total Baseline Loads: 44.88

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.

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:

OWNER/AGENT: _____ 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).

Title:

✓

1

1

✓

✓

✓

✓

PROJECT

Building Type:	Rosenboom Rowland	Bedrooms:	3	Address Type:	Street Address
User	Conditioned Area: 1575	Lot #	Owner Name: Rowland	Total Stories:	1
Block/Subdivision:					

# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Alachua
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

				Design Temp	Int Design Temp	Heating Design	Daily Temp	Design Location
TMY Site	97.5 %	2.5 %	Winter Summer Degree Days	Moisture	Range			
FL, Gainesville		FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51 Medium

BLOCKS

Number	Name	Area	Volume	Block1	1575
					12600

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
	Main	1575	12600	Yes	1	3	1	Yes	Yes	Yes

FLOORS

#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood Carpet
1	Slab-On-Grade Edge Insulatio	Main	160 ft	0	1575 ft²	- - - -	0.22	0.22 0.56

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	1824 ft²	460 ft²	Medium	N	0.96	No	0.9	No	0	30.3

ATTIC

#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Full attic	Vented	300	1575 ft²	N	N

CEILING

#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
1	Under Attic (Vented)	Main	30	Blown	1575 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	E	Exterior	Frame - Wood	Main	13	45	9	405.0 ft²		0.11	0.25	0
2	S	Exterior	Frame - Wood	Main	13	35	9	315.0 ft²		0.11	0.25	0
3	W	Exterior	Frame - Wood	Main	13	45	9	405.0 ft²		0.11	0.25	0
4	N	Exterior	Frame - Wood	Main	13	35	9	315.0 ft²		0.11	0.25	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
1	E	Insulated	Main	None	.46	3	6 8	20 ft²
2	W	Insulated	Main	None	.46	2	6 8	13.3 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	E	1	Vinyl	Low-E Double	Yes	0.35	0.25	N	60.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
2	E	1	Vinyl	Low-E Double	Yes	0.35	0.25	N	18.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
3	S	2	Vinyl	Low-E Double	Yes	0.35	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
4	S	2	Vinyl	Low-E Double	Yes	0.35	0.25	N	4.5 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
5	W	3	Vinyl	Low-E Double	Yes	0.35	0.25	N	24.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
6	W	3	Vinyl	Low-E Double	Yes	0.35	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
7	W	3	Vinyl	Low-E Double	Yes	0.35	0.25	N	26.7 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
8	N	4	Vinyl	Low-E Double	Yes	0.35	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	1050	57.64	108.41	.0956	5

HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	HSPF:9	27.8 kBtu/hr	1	sys#1

COOLING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit/	None	SEER: 16	28.6 kBtu/hr	858 cfm	0.75	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Attic	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

✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	Heat	HVAC # Cool
✓	1	Attic	6	315 ft ²	Attic	78.75 ft	Default Leakage	Attic	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

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	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MASS

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