

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Suzie Hall
 Street: Old Mill Road
 City, State, Zip: Lake City, FL, 32055
 Owner:
 Design Location: FL, Gainesville

Builder Name: IC Construction
 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	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft ²)	2805
Conditioned floor area below grade (ft ²)	0
7. Windows(489.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 489.00 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:	8.251 ft.
Area Weighted Average SHGC:	0.220
8. Floor Types (2805.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2805.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types(3234.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 2695.70 ft ²
b. Frame - Wood, Adjacent	R=13.0 538.33 ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (2805.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 2805.00 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	6 561
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	48.0 SEER:16.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	48.0 HSPF:8.50
14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.920
b. Conservation features	
None	
15. Credits	CF, Pstat

Glass/Floor Area: 0.174

Total Proposed Modified Loads: 76.70

Total Baseline Loads: 80.82

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 4.72 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Suzie Hall	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2805	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	IC Construction	Rotate Angle:	0	Street:	Old Mill Road
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City ,
Family Type:	Single-family				FL , 32055
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			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
1	Block1	2805	28050

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2805	28050	Yes	8	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	313 ft	0	2805 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	Gable or shed	Composition shingles	3249 ft²	820 ft²	Medium	N	0.85	No	0.9	No	0	30.3

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2805 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2805 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	W	Exterior	Frame - Wood	Main	13	24		10		240.0 ft²	0.625	0.23	0.75	0
___	2	N	Exterior	Frame - Wood	Main	13	25	2	10		251.7 ft²	0.625	0.23	0.75	0
___	3	W	Exterior	Frame - Wood	Main	13	13	6	12		162.0 ft²	0.625	0.23	0.75	0
___	4	N	Exterior	Frame - Wood	Main	13	9	4	12		112.0 ft²	0.625	0.23	0.75	0
___	5	W	Exterior	Frame - Wood	Main	13	18	6	12		222.0 ft²	0.625	0.23	0.75	0
___	6	S	Exterior	Frame - Wood	Main	13	10	4	10		103.3 ft²	0.625	0.23	0.75	0
___	7	W	Exterior	Frame - Wood	Main	13	18	8	10		186.7 ft²	0.625	0.23	0.75	0
___	8	N	Exterior	Frame - Wood	Main	13	38	10	10		388.3 ft²	0.625	0.23	0.75	0
___	9	E	Exterior	Frame - Wood	Main	13	5	8	10		56.7 ft²	0.625	0.23	0.75	0
___	10	N	Exterior	Frame - Wood	Main	13	6	6	10		65.0 ft²	0.625	0.23	0.75	0
___	11	E	Exterior	Frame - Wood	Main	13	32	4	12		388.0 ft²	0.625	0.23	0.75	0
___	12	S	Exterior	Frame - Wood	Main	13	6	6	10		65.0 ft²	0.625	0.23	0.75	0
___	13	E	Exterior	Frame - Wood	Main	13	12	8	10		126.7 ft²	0.625	0.23	0.75	0
___	14	S	Exterior	Frame - Wood	Main	13	32	10	10		328.3 ft²	0.625	0.23	0.75	0
___	15	S	Garage	Frame - Wood	Main	13	53	10	10		538.3 ft²	0.625	0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___	1	N	Insulated	Main	None	.46	2	6	8		20 ft²
___	2	W	Insulated	Main	None	.46	10		6	8	66.7 ft²
___	3	E	Insulated	Main	None	.46	3		8		24 ft²
___	4	S	Insulated	Main	None	.46	3		8		24 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	W	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	2	W	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	54.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	3	N	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	4	W	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	60.0 ft²	10 ft 6 in	1 ft 4 in	None	None
___	5	W	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	10 ft 6 in	1 ft 4 in	None	None
___	6	N	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	13 ft 6 in	1 ft 4 in	None	None
___	7	N	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	13 ft 6 in	1 ft 4 in	None	None
___	8	W	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	19 ft 10 in	1 ft 4 in	None	None
___	9	W	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	19 ft 10 in	1 ft 4 in	None	None
___	10	W	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	25.0 ft²	19 ft 10 in	1 ft 4 in	None	None
___	11	W	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	12	N	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	13	N	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	14	N	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	4.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	15	E	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	10.0 ft²	4 ft 6 in	1 ft 4 in	None	None
___	16	E	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	60.0 ft²	9 ft 6 in	3 ft 4 in	None	None

INPUT SUMMARY CHECKLIST REPORT

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
_____	17	E	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	9 ft 6 in	1 ft 4 in	None	None
_____	18	E	13	Vinyl	Low-E Double	Yes	0.33	0.22	N	10.0 ft²	4 ft 6 in	1 ft 4 in	None	None
_____	19	S	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	20	S	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 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	816 ft²	816 ft²	71.1667 ft	9 ft	13

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.0003	2207.3	121.18	227.89	.1234	4.7214

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	Singl	HSPF:8.5	48 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	Singl	SEER: 16	48 kBtu/hr	1440 cfm	0.85	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Garage	0.92	50 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

✓	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	1	Attic	6	561 ft²	Attic	140.25	Default Leakage	Garage	(Default)	(Default)			1	1

INPUT SUMMARY CHECKLIST REPORT**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

Hours

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	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

MASS

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