

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Souza Renovation Street: 355 Short Lane City, State, Zip: Lake City, FL, 32025 Owner: Camille Souza Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County 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 6 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 3410 Conditioned floor area below grade (ft²) 0 7. Windows (441.1 sqft.) Description Area a. U-Factor: Dbl, U=0.36 441.13 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 2.919 ft. Area Weighted Average SHGC: 0.250 8. Skylights Area c. U-Factor (AVG) N/A ft² SHGC (AVG): N/A 9. Floor Types (3410.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2397.00 ft² b. Floor Over Other Space R=19.0 1013.00 ft² c. N/A R= ft²	10. Wall Types (2856.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2856.00 ft² b. N/A R= ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (2782.7 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 2782.70 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 852.5 13. Cooling systems kBtu/hr Efficiency a. Central Unit 25.0 SEER: 15.00 14. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 36.2 HSPF: 8.20 15. Hot water systems a. Natural Gas Cap: 50 gallons EF: 0.590 b. Conservation features None 16. Credits CV, Pstat
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Glass/Floor Area: 0.129	Total Proposed Modified Loads: 79.49 Total Baseline Loads: 80.15	PASS
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: 4 / 29 / 2022 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: 7.11.22	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 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).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Souza Renovation	Bedrooms:	6	Address Type:	Street Address
Building Type:	User	Conditioned Area:	3410	Lot #	
Owner Name:	Camille Souza	Total Stories:	2	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	355 Short Lane
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City ,
Family Type:	Detached				FL , 32025
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	3410	27280

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	1st Floor	2397	19176	Yes	6	3	1	Yes	Yes	Yes
2	2nd Floor	1013	8104	No	6	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	1st Floor	227.46 ft	0	2397 ft²	----	0	0	1
_____	2	Floor Over Other Space	2nd Floor	----	----	1013 ft²	19	0	0	1

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	3041 ft²	472 ft²	Medium	Y	0.96	No	0.9	No	0	33.69

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Partial cathedral ceili	Vented	300	2530 ft²	Y	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	1st Floor	38	Double Batt	1668.7 ft²	0.11	Wood
✓	2	Under Attic (Vented)	2nd Floor	38	Batt	1114 ft²	0.11	Wood

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	S	Exterior	Frame - Wood	1st Floor	13	26	8	8		213.3 ft²		0.23	0.75	0
✓	2	E	Exterior	Frame - Wood	1st Floor	13	5		8		40.0 ft²		0.23	0.75	0
✓	3	S	Exterior	Frame - Wood	1st Floor	13	54	2	8		433.3 ft²		0.23	0.75	0
✓	4	E	Exterior	Frame - Wood	1st Floor	13	28		8		224.0 ft²		0.23	0.75	0
✓	5	N	Exterior	Frame - Wood	1st Floor	13	80	10	8		646.7 ft²		0.23	0.75	0
✓	6	W	Exterior	Frame - Wood	1st Floor	13	33		8		264.0 ft²		0.23	0.75	0
✓	7	S	Exterior	Frame - Wood	2nd Floor	13	26	8	8		213.3 ft²		0.23	0.75	0
✓	8	E	Exterior	Frame - Wood	2nd Floor	13	38		8		304.0 ft²		0.23	0.75	0
✓	9	N	Exterior	Frame - Wood	2nd Floor	13	26	8	8		213.3 ft²		0.23	0.75	0
✓	10	W	Exterior	Frame - Wood	2nd Floor	13	38		8		304.0 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	S	Insulated	1st Floor	None	.46	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	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.8 ft²	1 ft 0 in	2 ft 0 in	None	None
✓	2	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	28.0 ft²	9 ft 6 in	0 ft 6 in	None	None
✓	3	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.3 ft²	9 ft 6 in	0 ft 6 in	None	None
✓	4	S	3	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft²	9 ft 6 in	0 ft 6 in	None	None
✓	5	E	4	Metal	Low-E Double	Yes	0.36	0.25	N	40.0 ft²	1 ft 0 in	4 ft 0 in	None	None
✓	6	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	1 ft 6 in	0 ft 6 in	None	None
✓	7	N	5	Metal	Low-E Double	Yes	0.36	0.25	N	160.0 ft²	1 ft 6 in	0 ft 6 in	None	None
✓	8	N	5	TIM	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	0 ft 6 in	None	None
✓	9	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	28.0 ft²	1 ft 6 in	9 ft 0 in	None	None
✓	10	S	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	13.1 ft²	0 ft 6 in	0 ft 4 in	None	None
✓	11	N	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	14.0 ft²	1 ft 0 in	4 ft 0 in	None	None
✓	12	W	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	42.0 ft²	1 ft 6 in	0 ft 6 in	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION												
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50				
1	Wholehouse	Proposed ACH(50)	.000254	2273.3	124.72	234.15	.1293	5				

HEATING SYSTEM									
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block		Ducts
✓	1	Electric Heat Pump/	None	Single	HSPF:8.2	36.22 kBtu/hr	1		sys#1

COOLING SYSTEM										
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	Single	SEER: 15	24.95 kBtu/hr	750 cfm	0.7	1	sys#1

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Natural Gas	None	Exterior	0.59	50 gal	40 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 ----			---- Return ----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
✓	1	Attic	6	852.5 ft²	Attic	170.5 ft²	Default Leakage	1st Floor	(Default)	c(Default)	c		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

INPUT SUMMARY CHECKLIST REPORT

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	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 ft²		0 ft		0.3		1st Floor					
Default(8 lbs/sq.ft.		0 ft²		0 ft		0.3		2nd Floor					

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

The lower the EnergyPerformance Index, the more efficient the home.

355 Short Lane, Lake City, FL, 32025

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=13.0	2856.00 ft ²
3. Number of units, if multiple family	1		b. N/A	R=	ft ²
4. Number of Bedrooms	6		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	3410		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	2782.70 ft ²
a. U-Factor:	Dbl, U=0.36	441.13 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.25		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	12. Ducts, location & insulation level	R	ft ²
SHGC:			a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	852.5
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	25.0	SEER:15.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	36.2	HSPF:8.20
Area Weighted Average Overhang Depth:	2.919 ft.		15. Hot water systems		
Area Weighted Average SHGC:	0.250		a. Natural Gas	Cap: 50 gallons	
8. Skylights	Description	Area		EF: 0.59	
a. U-Factor(AVG):	N/A	ft ²	b. Conservation features		
SHGC(AVG):	N/A		None		
9. Floor Types	Insulation	Area	Credits (Performance method)		CV, Pstat
a. Slab-On-Grade Edge Insulation	R=0.0	2397.00 ft ²			
b. Floor Over Other Space	R=19.0	1013.00 ft ²			
c. N/A	R=	ft ²			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____

Date: 7.11.22

Address of New Home: _____

City/FL Zip: _____



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.