

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Wright Residence Street: City, State, Zip: Lake City, FL, 32024 Owner: Richard & Ann Wright Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.147	Total Proposed Modified Loads: 72.35 Total Baseline Loads: 81.27	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: 9/20/2021 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: 11-2-21	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:	Wright Residence	Bedrooms:	4	Address Type:	Lot Information								
Building Type:	User	Conditioned Area:	3250	Lot #	11								
Owner Name:	Richard & Ann Wright	Total Stories:	1	Block/Subdivision:	The Oaks Ph 1								
# of Units:	1	Worst Case:	No	PlatBook:									
Builder Name:		Rotate Angle:	0	Street:									
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia								
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32024								
Family Type:	Detached												
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	3250	32500									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	3250	32500	Yes	10	4	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet			
_____	1	Slab-On-Grade Edge Insulation	Main	339 ft	0	3250 ft²	----	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	Hip	Composition shingles	3906 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	33.69
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Vented	300	3250 ft²	Y	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	38	Double Batt	3413 ft²	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Omt	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	SE	Exterior	Frame - Wood	Main	13	13		10		130.0 ft²		0.23	0.75	0
___ 2	NE	Exterior	Frame - Wood	Main	13	10		10		100.0 ft²		0.23	0.75	0
___ 3	SE	Exterior	Frame - Wood	Main	13	40		10		400.0 ft²		0.23	0.75	0
___ 4	SW	Exterior	Frame - Wood	Main	13	26	6	10		265.0 ft²		0.23	0.75	0
___ 5	SE	Exterior	Frame - Wood	Main	13	17	4	10		173.3 ft²		0.23	0.75	0
___ 6	NE	Exterior	Frame - Wood	Main	13	6		10		60.0 ft²		0.23	0.75	0
___ 7	NE	Garage	Frame - Wood	Main	13	45		10		450.0 ft²		0.23	0.75	0
___ 8	NE	Exterior	Frame - Wood	Main	13	21	6	10		215.0 ft²		0.23	0.75	0
___ 9	NW	Exterior	Frame - Wood	Main	13	19	8	10		196.7 ft²		0.23	0.75	0
___ 10	SW	Exterior	Frame - Wood	Main	13	10		10		100.0 ft²		0.23	0.75	0
___ 11	NW	Exterior	Frame - Wood	Main	13	11	4	10		113.3 ft²		0.23	0.75	0
___ 12	SW	Exterior	Frame - Wood	Main	13	8	8	10		86.7 ft²		0.23	0.75	0
___ 13	W	Exterior	Frame - Wood	Main	13	23		10		230.0 ft²		0.23	0.75	0
___ 14	NE	Exterior	Frame - Wood	Main	13	16	8	10	0	166.7 ft²		0.23	0.75	0
___ 15	NW	Exterior	Frame - Wood	Main	13	16	4	10		163.3 ft²		0.23	0.75	0
___ 16	SW	Exterior	Frame - Wood	Main	13	54		10		540.0 ft²		0.23	0.75	0

DOORS

✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	NE	Insulated	Main	None	.46	3		8		24 ft²
___ 2	SW	Insulated	Main	None	.46	2	6	8		20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___ 1	SE	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft²	1 ft 0 in	3 ft 0 in	None	None
___ 2	SE	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	72.0 ft²	9 ft 6 in	1 ft 0 in	None	None
___ 3	SE	3	TIM	Low-E Double	Yes	0.36	0.25	N	42.7 ft²	9 ft 6 in	1 ft 0 in	None	None
___ 4	SE	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 0 in	3 ft 0 in	None	None
___ 5	NE	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 6	NW	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 7	NW	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 8	NW	11	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	9 ft 6 in	1 ft 0 in	None	None
___ 9	W	13	TIM	Low-E Double	Yes	0.36	0.25	N	128.0 ft²	18 ft 0 in	1 ft 0 in	None	None
___ 10	NW	15	Vinyl	Low-E Double	Yes	0.36	0.25	N	54.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 11	SW	16	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 12	SW	16	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 13	SW	16	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	1 ft 6 in	1 ft 0 in	None	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE										
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation				
✓	1	1170 ft²	1170 ft²	97 ft	10 ft	1				

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000317	2708.3	148.59	278.96	.1071	5

HEATING SYSTEM									
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts	
✓	1	Electric Heat Pump/	None	Single	HSPF:8.2	51.33 kBtu/hr	1	sys#1	

COOLING SYSTEM										
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	Single	SEER: 14	37.98 kBtu/hr	1140 cfm	0.7	1	sys#1

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Propane	Tankless	Exterior	0.59	1 gal	40 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
✓	FSEC	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	812.5 ft²	Attic	162.5 ft²	Default Leakage	Main	(Default) c	(Default) c			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	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	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 89

The lower the Energy Performance Index, the more efficient the home.

, Lake City, FL, 32024

1. New construction or existing	New (From Plans)	10. Wall Type and Insulation	Insulation	Area
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4. Number of Bedrooms	4	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)	3250	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=38.0	3413.00 ft ²
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SHGC:	SHGC=0.25	c. N/A	R=	ft ²
b. U-Factor:	N/A	12. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	6	812.5
c. U-Factor:	N/A			
SHGC:		13. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:	N/A	a. Central Unit	38.0	SEER:14.00
SHGC:				
Area Weighted Average Overhang Depth:	8.173 ft.	14. Heating systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Electric Heat Pump	51.3	HSPF:8.20
8. Skylights	Description			
a. U-Factor(AVG):	N/A	15. Hot water systems	Cap: 1 gallons	
SHGC(AVG):	N/A	a. Propane	EF: 0.59	
9. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	Credits (Performance method)	CV, Pstat	
c. N/A	R=			

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: [Signature] Date: 11-2-21
 Address of New Home: SW Manidoba City/FL Zip: Lake City



*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.