

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Stewart Res Street: 215 SW Carpenter Rd City, State, Zip: Lake City, FL, 32024 Owner: George & Christine Stewart 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: 0.093 Total Proposed Modified Loads: 42.11
 Total Baseline Loads: 44.53

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Will C. My


DATE: 4 / 17 / 2026

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.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT														
Title:	Stewart Res			Address type:	Street Address									
Building Type:	User			Bedrooms:	3		Lot #:	---						
Owner:	George & Christine Stewart			Conditioned Area:	1670		Block/SubDivision:	---						
Builder Home ID:				Total Stories:	1		PlatBook:	---						
Builder Name:				Worst Case:	No		Street:	215 SW Carpenter Rd						
Permit Office:	Columbia County			Rotate Angle:	0		County:	Columbia						
Jurisdiction:				Cross Ventilation:	Yes		City, State, Zip:	Lake City, FL, 32024						
Family Type:	Detached			Whole House Fan:	No									
New/Existing:	New (From Plans)			Terrain:	Suburban									
Year Construct:	2026			Shielding:	Suburban									
Comment:														
CLIMATE														
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range			
<input type="checkbox"/>	FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium					
BLOCKS														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume										
<input type="checkbox"/>	1	Block1	1670	15030 cu ft										
SPACES														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
<input type="checkbox"/>	1	1st Floor	1670	15030	Yes	6	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 1670 sq.ft.)														
<input checked="" type="checkbox"/>	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
<input type="checkbox"/>	1	Slab-On-Grade Edge Ins	1st Floor	178	1670 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00		
ROOF														
<input checked="" type="checkbox"/>	#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
<input type="checkbox"/>	1	Gable or shed	Composition shingles	1867 ft²	234 ft²	0.11	Medium	Y	0.96	No	0.9	No	0	26.57
ATTIC														
<input checked="" type="checkbox"/>	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
<input type="checkbox"/>	1	Partial cathedral ceiling	Vented	300	1670 ft²	Y	N							
CEILING (Total Exposed Area = 1837 sq.ft.)														
<input checked="" type="checkbox"/>	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
<input type="checkbox"/>	1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	1837.0ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1602 sq.ft.)	
✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	SW	Exterior	Frame - Wood	1st Floor	13.0	11.0	10	9.0	0	106.5	0.084		0.23	0.75	0.0 %
___ 2	W	Exterior	Frame - Wood	1st Floor	13.0	31.0	8	9.0	0	285.0	0.084		0.23	0.75	0.0 %
___ 3	W	Exterior	Frame - Wood	1st Floor	13.0	11.0	10	9.0	0	106.5	0.084		0.23	0.75	0.0 %
___ 4	S	Exterior	Frame - Wood	1st Floor	13.0	25.0	4	9.0	0	228.0	0.084		0.23	0.75	0.0 %
___ 5	E	Exterior	Frame - Wood	1st Floor	13.0	23.0	2	9.0	0	208.5	0.084		0.23	0.75	0.0 %
___ 6	S	Exterior	Frame - Wood	1st Floor	13.0	8.0	4	9.0	0	75.0	0.084		0.23	0.75	0.0 %
___ 7	E	Exterior	Frame - Wood	1st Floor	13.0	32.0	2	9.0	0	289.5	0.084		0.23	0.75	0.0 %
___ 8	N	Exterior	Frame - Wood	1st Floor	13.0	33.0	8	9.0	0	303.0	0.084		0.23	0.75	0.0 %

DOORS												(Total Exposed Area = 40 sq.ft.)	
✓ #	Omt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	W	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	E	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS																(Total Exposed Area = 155 sq.ft.)	
✓ #	Omt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
___ 1	SW	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None
___ 2	W	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	7.5	1.0	None	None
___ 3	W	2	TIM	Low-E Double	Y	0.36	0.25	N	N	13.3	2	1.00	6.67	7.5	1.0	None	None
___ 4	W	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None
___ 5	S	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	2	4.00	1.00	1.0	3.0	None	None
___ 6	S	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.0	6.0	None	None
___ 7	E	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	1.0	None	None
___ 8	E	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None
___ 9	E	7	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	1.5	1.0	None	None
___ 10N		8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.0	6.0	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00040	1754	96.20	180.61	0.1438	7.0	All	15030 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq ft.)	0 ft²	0 ft	0.30	1st Floor

HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block	
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	25.9		0.00	0.00	0.00	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
__ 1	Central Unit	None/Single		SEER2:16.5	22.0	660	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
__ 1	Electric	None	1st Floor	0.92 (0.92)	50.0 gal	40 gal	120 deg	Standard	Yes	None	12

	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
__ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓ Duct #	Location	Supply R-Value	Area	Return Location	R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
__ 1	Attic	6.0	418 ft²	Attic	6.0	84 ft²	Default Leakage	1st Floor	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans: N

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Venting	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Thermostat Schedule: HERS 2006 Reference

Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12
__ Cooling (WD)	AM 78 PM 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78
__ Cooling (WEH)	AM 78 PM 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
__ Heating (WD)	AM 66 PM 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 66	68 66
__ Heating (WEH)	AM 66 PM 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 95

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

215 SW Carpenter Rd,Lake City,FL,32024

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b. U-Factor:	N/A	ft ²	13. Ducts, location & insulation level	R
SHGC:			a. Sup: Attic, Ret: Attic, AH: 1st Floor	6
c. U-Factor:	N/A	ft ²	b.	418
SHGC:			c.	
Area Weighted Average Overhang Depth:	3.116 ft	14. Cooling Systems	kBtu/hr	Efficiency
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U-Factor:(AVG)	N/A	N/A ft ²	a. Electric Heat Pump	25.9
SHGC(AVG):	N/A			HSPF2:8.80
9. Floor Types	Insulation	Area	16. Hot Water Systems	
a. Slab-On-Grade Edge Insulation	R= 0.0	1670.00 ft ²	a. Electric	Cap: 50 gallons
b. N/A	R=	ft ²		EF: 0.920
c. N/A	R=	ft ²	b. Conservation features	None
			17. Credits	CV, Pstat

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: _____

Address of New Home: 215 SW Carpenter Rd City/FL Zip: Lake City,FL,32024



*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.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:
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Job Information

Builder:	Community:	Lot: NA
Address: 215 SW Carpenter Rd		
City: Lake City	State: FL	Zip: 32024

Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 + \frac{15030}{\text{Building Volume}} = \text{ACH}(50)$ <div style="text-align: center; margin-top: 10px;"> <input type="checkbox"/> PASS </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p><u>Method for calculating building volume:</u></p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
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R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the *Florida Building Code, Residential*. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the ~~code~~ *code official*. Testing shall be performed at any time after creation of all penetrations of the ~~building~~ *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____