

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 26 Jewel Lake II Street: City, State, Zip: Lake City , FL , 32025 Owner: Design Location: FL, Gainesville	Builder Name: Century CMP Florida Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2 )
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Glass/Floor Area: 0.088	Total Proposed Modified Loads: 36.67 Total Baseline Loads: 38.16	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: Will C. [Signature]  
 DATE: 3/2/2022

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Brittany Dunn  
 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 5.00 ACH50 (R402.4.1.2).

**INPUT SUMMARY CHECKLIST REPORT**

PROJECT													
Title:	Lot 26 Jewel Lake II			Bedrooms:	4		Address Type:	Lot Information					
Building Type:	User			Conditioned Area:	1398		Lot #	26					
Owner Name:				Total Stories:	1		Block/Subdivision:	Jewel Lake II					
# of Units:	1			Worst Case:	No		PlatBook:						
Builder Name:	Century CMP Florida			Rotate Angle:	0		Street:						
Permit Office:	Columbia County			Cross Ventilation:	Yes		County:	Columbia					
Jurisdiction:				Whole House Fan:	No		City, State, Zip:	Lake City , FL , 32025					
Family Type:	Detached												
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	1398	11184									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	1398	11184	Yes	8	4	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area			Tile	Wood	Carpet		
_____	1	Slab-On-Grade Edge Insulation	Main	172.5 ft	0	1398 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	1563 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	26.57
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Vented	300	1398 ft²	Y	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	38	Double Batt	1468 ft²	0.11	Wood					

**INPUT SUMMARY CHECKLIST REPORT**

<b>WALLS</b>														
✓ #	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	11	10	8		94.7 ft²		0.23	0.75	0
___ 2	S	Exterior	Frame - Wood	Main	13	4		8		32.0 ft²		0.23	0.75	0
___ 3	E	Exterior	Frame - Wood	Main	13	4	3	8		34.0 ft²		0.23	0.75	0
___ 4	S	Garage	Frame - Wood	Main	13	16	4	8		130.7 ft²		0.23	0.75	0
___ 5	E	Garage	Frame - Wood	Main	13	20		8		160.0 ft²		0.23	0.75	0
___ 6	S	Exterior	Frame - Wood	Main	13	29	8	8		237.3 ft²		0.23	0.75	0
___ 7	W	Exterior	Frame - Wood	Main	13	36	6	8		292.0 ft²		0.23	0.75	0
___ 8	N	Exterior	Frame - Wood	Main	13	50		8		400.0 ft²		0.23	0.75	0

<b>DOORS</b>											
✓ #	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	E	Insulated	Main	None	.46	3		6	8	20 ft²	

<b>WINDOWS</b>													
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	0.36	0.25	N	30.0 ft²	5 ft 6 in	1 ft 0 in	None	None
___ 2	S	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 3	W	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 4	W	7	Metal	Low-E Double	Yes	0.36	0.25	N	33.3 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 5	N	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None

<b>GARAGE</b>						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation	
___ 1	416.765 ft²	416.765 ft²	44.833 ft	8 ft	1	

<b>INFILTRATION</b>								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	932	51.13	96	.098	5

<b>HEATING SYSTEM</b>								
✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts	
___ 1	Electric Heat Pump/	None	Single	HSPF:8.2	21.87 kBtu/hr	1	sys#1	

## INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM														
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts				
_____	1	Central Unit/	None	Single	SEER: 15	17.82 kBtu/hr	540 cfm	0.7	1	sys#1				
HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
_____	1	Electric	None	Main	0.92	50 gal	40 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	CompanyName	System Model#			Collector Model#	Collector Area	Storage Volume	FEF					
_____	None	None					ft²							
DUCTS														
✓	#	---- Supply ----		---- Return ----		LeakageType	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool		
_____	1	Attic	6	349.5 ft²	Attic	69.9 ft²	Default Leakage	Main	(Default) c	(Default) c		1	1	
TEMPERATURES														
Programable Thermostat: Y				Ceiling Fans:										
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> 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	78	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\* = 96

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

, 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	1090.00 ft <sup>2</sup>
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	290.67 ft <sup>2</sup>
4. Number of Bedrooms	4		c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No		d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area (ft <sup>2</sup> )	1398		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	1468.00 ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.36	123.33 ft <sup>2</sup>	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.25		c. N/A	R=	ft <sup>2</sup>
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SHGC:			a. Sup: Attic, Ret: Attic, AH: Main	6	349.5
c. U-Factor:	N/A	ft <sup>2</sup>	13. Cooling systems	kBtu/hr	Efficiency
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SHGC:			a. Electric Heat Pump	21.9	HSPF:8.20
Area Weighted Average Overhang Depth:		2.473 ft.	15. Hot water systems	Cap: 50 gallons	
Area Weighted Average SHGC:		0.250	a. Electric	EF: 0.92	
8. Skylights	Description	Area	b. Conservation features		
a. U-Factor(AVG):	N/A	ft <sup>2</sup>	None		
SHGC(AVG):	N/A		Credits (Performance method)		CV, Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	1398.00 ft <sup>2</sup>			
b. N/A	R=	ft <sup>2</sup>			
c. N/A	R=	ft <sup>2</sup>			

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: Brittany Dunn Date: \_\_\_\_\_

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.