

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 33 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: 0.095	Total Proposed Modified Loads: 40.41	PASS
	Total Baseline Loads: 41.36	


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

PREPARED BY: W. C. [Signature]
 DATE: 3/8/2022

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 33 Jewel Lake II			Bedrooms:	4		Address Type:	Lot Information					
Building Type:	User			Conditioned Area:	1607		Lot #	33					
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 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	1607	12856										
SPACES													
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated			
1	Main	1607	12856	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	183.33 ft	0	1607 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	1797 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	1607 ft²	Y	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	38	Double Batt	1687 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	17	8	8		141.3 ft²		0.23	0.75	0
___ 2	S	Garage	Frame - Wood	Main	13	18		8		144.0 ft²		0.23	0.75	0
___ 3	W	Garage	Frame - Wood	Main	13	19	8	8		157.3 ft²		0.23	0.75	0
___ 4	S	Exterior	Frame - Wood	Main	13	36		8		288.0 ft²		0.23	0.75	0
___ 5	E	Exterior	Frame - Wood	Main	13	28	8	8		229.3 ft²		0.23	0.75	0
___ 6	S	Exterior	Frame - Wood	Main	13	8		8		64.0 ft²		0.23	0.75	0
___ 7	W	Exterior	Frame - Wood	Main	13	9		8		72.0 ft²		0.23	0.75	0
___ 8	S	Exterior	Frame - Wood	Main	13	46		8		368.0 ft²		0.23	0.75	0

DOORS													
✓ #	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	N	Insulated	Main	None	.46	2	8	6	8	17.8 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	0.36	0.25	N	30.0 ft²	1 ft 0 in	3 ft 0 in	None	None
___ 2	S	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 3	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	60.0 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	9 ft 6 in	1 ft 0 in	None	None
___ 5	S	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation	
___ 1	396.435 ft²	396.435 ft²	42.2 ft	8 ft	1	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	1071.3	58.78	110.35	.098	5

HEATING SYSTEM								
✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts	
___ 1	Electric Heat Pump/	None	Single	HSPF:8.2	24.16 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	19.3 kBtu/hr	570 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 ----			Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool		
	1	Attic	6	401.75 f	Attic	80.35 ft²	Default Leakage	Main	(Default) c	(Default) c			1	1	
TEMPERATURES															
Programmable 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	80	80
		PM 80	80	78	78	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	78	78
		PM 78	78	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	68	68
		PM 68	68	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	68	68
		PM 68	68	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* = 98

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

, Lake City, FL, 32025

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3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	301.33 ft ²
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)	1607		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	1687.00 ft ²
a. U-Factor:	Dbl, U=0.36	153.33 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: Main	6	401.75
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	19.3	SEER:15.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	24.2	HSPF:8.20
Area Weighted Average Overhang Depth:		3.141 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 ²	None		
SHGC(AVG):	N/A		Credits (Performance method)		CV, Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	1607.00 ft ²			
b. N/A	R=	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: 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.