

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

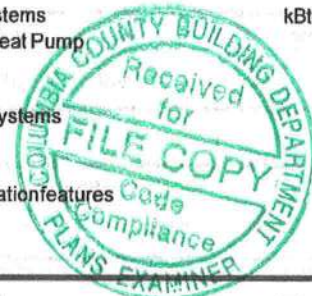
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mark & Angie Smith  
 Street: Little Road  
 City, State, Zip: Lake City, FL, 32024  
 Owner: Mark & Angie Smith  
 Design Location: FL, Gainesville

Builder Name:  
 Permit Office: Columbia County  
 Permit Number:  
 Jurisdiction:  
 County: Columbia (Florida Climate Zone 2)

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	3	
5. Is this a worst case?	No	
6. Conditioned floor area above grade (ft <sup>2</sup> )	2986	
Conditioned floor area below grade (ft <sup>2</sup> )	0	
7. Windows (327.3 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.36	327.33 ft <sup>2</sup>
SHGC:	SHGC=0.25	
b. U-Factor:	N/A	ft <sup>2</sup>
SHGC:		
c. U-Factor:	N/A	ft <sup>2</sup>
SHGC:		
Area Weighted Average Overhang Depth:	1.000 ft.	
Area Weighted Average SHGC:	0.250	
8. Skylights	Area	
c. U-Factor (AVG):	N/A	ft <sup>2</sup>
SHGC (AVG):	N/A	
9. Floor Types (2986.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2986.00 ft <sup>2</sup>
b. N/A	R=	ft <sup>2</sup>
c. N/A	R=	ft <sup>2</sup>

10. Wall Types (2070.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1692.00 ft <sup>2</sup>
b. Frame - Wood, Adjacent	R=19.0	378.00 ft <sup>2</sup>
c. N/A	R=	ft <sup>2</sup>
d. N/A	R=	ft <sup>2</sup>
11. Ceiling Types (3135.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	3135.00 ft <sup>2</sup>
b. N/A	R=	ft <sup>2</sup>
c. N/A	R=	ft <sup>2</sup>
12. Ducts	R	ft <sup>2</sup>
a. Sup: Attic, Ret: Attic, AH: Garage	6	746.25
13. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	29.2	SEER: 14.00
14. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	37.7	HSPF: 8.20
15. Hot water systems		
a. Electric		Cap: 50 gallons
b. Conservation features		EF: 0.920
None		
16. Credits		CV, Pstat



Glass/Floor Area: 0.110

Total Proposed Modified Loads: 60.44

Total Baseline Loads: 61.69

**PASS**

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

PREPARED BY: 7/5/2024  
 DATE: \_\_\_\_\_

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.
- 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

## 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	Main	19	73	9	657.0 ft²		0.23	0.75	0
2	E	Garage	Frame - Wood	Main	19	42	9	378.0 ft²		0.23	0.75	0
3	N	Exterior	Frame - Wood	Main	19	73	9	657.0 ft²		0.23	0.75	0
4	W	Exterior	Frame - Wood	Main	19	42	9	378.0 ft²		0.23	0.75	0

## DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
1	S	Insulated	Main	None	.46	3	6 8	20 ft²
2	E	Insulated	Main	None	.46	3	6 8	20 ft²
3	N	Insulated	Main	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	105.0 ft²	1 ft 0 in	7 ft 0 in	None	None
2	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	1 ft 0 in	7 ft 0 in	None	None
3	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	13.3 ft²	1 ft 0 in	7 ft 0 in	None	None
4	N	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft²	1 ft 0 in	7 ft 0 in	None	None
5	N	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	3.0 ft²	1 ft 0 in	7 ft 0 in	None	None
6	N	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	90.0 ft²	1 ft 0 in	7 ft 0 in	None	None
7	N	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	40.0 ft²	1 ft 0 in	7 ft 0 in	None	None
8	W	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 0 in	9 ft 0 in	None	None
9	W	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft²	1 ft 0 in	9 ft 0 in	None	None

## GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	1126.986 ft²	1126.986 ft²	95.6667 ft	9 ft	1

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	2239.5	122.87	230.67	.1027	5

## HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Single	HSPF:8.2	37.67 kBtu/hr	1	sys#1

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 98

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

Little Road, Lake City, FL, 32024

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=19.0	1692.00 ft <sup>2</sup>
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=19.0	378.00 ft <sup>2</sup>
4. Number of Bedrooms	3		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> )	2986		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	3135.00 ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.36	327.33 ft <sup>2</sup>	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.25		c. N/A	R=	ft <sup>2</sup>
b. U-Factor:	N/A	ft <sup>2</sup>	12. Ducts, location & insulation level	R	ft <sup>2</sup>
SHGC:			a. Sup: Attic, Ret: Attic, AH: Garage	6	746.25
c. U-Factor:	N/A	ft <sup>2</sup>	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	29.2	SEER:14.00
d. U-Factor:	N/A	ft <sup>2</sup>	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	37.7	HSPF:8.20
Area Weighted Average Overhang Depth:	1.000 ft.		15. Hot water systems		
Area Weighted Average SHGC:	0.250		a. Electric		Cap: 50 gallons
8. Skylights	Description	Area			EF: 0.92
a. U-Factor(AVG):	N/A	ft <sup>2</sup>	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	2986.00 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: \_\_\_\_\_ 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.