

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

## Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Gator & Lori David - Lot 25 Rose Point Street: City, State, Zip: Lake City, FL, 32024 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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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 (ft²)      1596 Conditioned floor area below grade (ft²)      0 7. Windows(228.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.33      228.00 ft² SHGC:      SHGC=0.22 b. U-Factor:      N/A      ft² SHGC: c. U-Factor:      N/A      ft² SHGC: Area Weighted Average Overhang Depth:      2.447 ft Area Weighted Average SHGC:      0.220 8. Skylights      Description      Area U-Factor:(AVG)      N/A      N/A ft² SHGC(AVG):      N/A 9. Floor Types      Insulation      Area a. Slab-On-Grade Edge Insulation      R= 0.0      1596.00 ft² b. N/A      R=      ft² c. N/A      R=      ft²	10. Wall Types(1519.5 sqft.)      Insulation      Area a. Frame - Wood, Exterior      R=13.0      1321.50 ft² b. Frame - Wood, Adjacent      R=13.0      198.00 ft² c. N/A d. N/A 11. Ceiling Types(1596.0 sqft.)      Insulation      Area a. Flat ceiling under att (Vented)      R=30.0      1596.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0      1849 ft² 13. Ducts, location & insulation level      R      ft² a. Sup: Attic, Ret: Attic, AH: Garage      8      319 b. c. 14. Cooling Systems      kBtu/hr      Efficiency a. Central Unit      36.0      SEER2:14.30  15. Heating Systems      kBtu/hr      Efficiency a. Electric Heat Pump      36.0      HSPF2:7.50  16. Hot Water Systems a. Electric      Cap: 40 gallons EF: 0.930 b. Conservation features None 17. Credits      CF, Pstat
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Glass/Floor Area: 0.143

Total Proposed Modified Loads: 39.77

Total Baseline Loads: 44.18

**PASS**

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

PREPARED BY: \_\_\_\_\_

DATE: 8-16-23

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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- 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 5.00 ACH50 (R402.4.1.2).

## INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Gator & Lori David - Lot 25 Rose Point					Address type:	Lot					
Building Type:	User		Bedrooms:	3		Lot #:	25					
Owner:			Conditioned Area:	1596		Block/SubDivision:						
Builder Home ID:			Total Stories:	1		PlatBook:	Rose Point					
Builder Name:			Worst Case:	No		Street:						
Permit Office:	Columbia County		Rotate Angle:	0		County:	Columbia					
Jurisdiction:			Cross Ventilation:			City, State, Zip:	Lake City, FL, 32024					
Family Type:	Detached		Whole House Fan:									
New/Existing:	New (From Plans)		Terrain:	Suburban								
Year Construct:	2023		Shielding:	Suburban								
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_REGIONA		32	92	70	75	1305.5	51	Medium			
BLOCKS												
✓ Number	Name	Area	Volume									
___ 1	Block1	1596	14364 cu ft									
SPACES												
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
___ 1	Main	1596	14364	Yes	6	3	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 1596 sq.ft.)												
✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet		
___ 1	Slab-On-Grade Edge Ins	Main	162	0	1596 ft	0.600	---	0.33	0.33	0.34		
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	1849 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	30.3
ATTIC												
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC					
___ 1	Full attic	Vented	300		1596 ft²	N	N					
CEILING (Total Exposed Area = 1596 sq.ft.)												
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type				
___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	1596.0ft²	0.053	0.11	Wood				

# INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1520 sq.ft.)			
✓ #	Ornt	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	N	Exterior	Frame - Wood	Main	13.0	25.0	0	9.0	0	225.0	0.094		0.23	0.75	0 %			
___ 2	E	Exterior	Frame - Wood	Main	13.0	28.0	4	9.0	0	255.0	0.094		0.23	0.75	0 %			
___ 3	N	Exterior	Frame - Wood	Main	13.0	1.0	0	9.0	0	9.0	0.094		0.23	0.75	0 %			
___ 4	E	Exterior	Frame - Wood	Main	13.0	6.0	0	9.0	0	54.0	0.094		0.23	0.75	0 %			
___ 5	S	Exterior	Frame - Wood	Main	13.0	1.0	0	9.0	0	9.0	0.094		0.23	0.75	0 %			
___ 6	E	Exterior	Frame - Wood	Main	13.0	18.0	6	9.0	0	166.5	0.094		0.23	0.75	0 %			
___ 7	S	Exterior	Frame - Wood	Main	13.0	11.0	0	9.0	0	99.0	0.094		0.23	0.75	0 %			
___ 8	W	Exterior	Frame - Wood	Main	13.0	38.0	8	9.0	0	348.0	0.094		0.23	0.75	0 %			
___ 9	N	Exterior	Frame - Wood	Main	13.0	8.0	0	9.0	0	72.0	0.094		0.23	0.75	0 %			
___ 10	W	Exterior	Frame - Wood	Main	13.0	9.0	4	9.0	0	84.0	0.094		0.23	0.75	0 %			
___ 11	S	Garage	Frame - Wood	Main	13.0	22.0	0	9.0	0	198.0	0.094		0.23	0.75	0 %			

  

DOORS												(Total Exposed Area = 40 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		
___ 2	S	Garage	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		

  

WINDOWS																	(Total Exposed Area = 228 sq.ft.)	
✓ #	Ornt	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	N	1	Vinyl	Low-E Double	Y	0.33	0.22	N	N	24.0	2	2.00	6.00	1.5	1.3	IECC 2012	None	
___ 2	E	2	Vinyl	Low-E Double	Y	0.33	0.22	N	N	10.0	1	2.50	4.00	1.5	1.3	IECC 2012	None	
___ 3	E	2	Vinyl	Low-E Double	Y	0.33	0.22	N	N	18.0	1	3.00	6.00	1.5	1.3	IECC 2012	None	
___ 4	E	4	Vinyl	Low-E Double	Y	0.33	0.22	N	N	4.0	1	4.00	1.00	1.5	1.3	IECC 2012	None	
___ 5	E	6	Vinyl	Low-E Double	Y	0.33	0.22	N	N	18.0	1	3.00	6.00	1.5	1.3	IECC 2012	None	
___ 6	E	6	Vinyl	Low-E Double	Y	0.33	0.22	N	N	10.0	1	2.50	4.00	1.5	1.3	IECC 2012	None	
___ 7	W	8	Vinyl	Low-E Double	Y	0.33	0.22	N	N	48.0	2	4.00	6.00	1.5	1.3	IECC 2012	None	
___ 8	W	8	Vinyl	Low-E Double	Y	0.33	0.22	N	N	54.0	3	3.00	6.00	1.5	1.3	IECC 2012	None	
___ 9	N	9	Vinyl	Low-E Double	Y	0.33	0.22	N	N	24.0	1	3.00	8.00	10.5	1.3	IECC 2012	None	
___ 10	W	10	Vinyl	Low-E Double	Y	0.33	0.22	N	N	18.0	1	3.00	6.00	1.5	1.3	IECC 2012	None	

  

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00029	1197	65.67	123.29	0.1027	5.0	All	14364 cu ft	

  

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	480 ft²	480 ft²	66 ft	8 ft	1

  

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

# INPUT SUMMARY CHECKLIST REPORT

## HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	36.0	0.00 0.00 0.00	sys#1	1

## COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:14.3	36.0	1080	0.80	sys#1	1

## HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.93 (0.92)	40.00 gal	60 gal	120 deg	Standard	None	90
	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 #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic 8.0 319 ft²	Attic 8.0 80 ft²	Prop. Leak Free	Garage	---	---	0.03	0.50	1 1

## TEMPERATURES

Programable Thermostat: Y					Ceiling Fans: N									
Cooling	[ ] Jan	[ ] Feb	[ ] Mar	[ ] Apr	[ ] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[ ] Oct	[ ] Nov	[ ] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[ ] Apr	[ ] May	[ ] Jun	[ ] Jul	[ ] Aug	[ ] Sep	[ ] Oct	[X] Nov	[X] Dec		
Venting	[ ] Jan	[ ] Feb	[X] Mar	[X] Apr	[ ] May	[ ] Jun	[ ] Jul	[ ] Aug	[ ] Sep	[X] Oct	[X] Nov	[ ] Dec		
Thermostat Schedule: HERS 2006 Reference														
✓ Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12	
___ Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Cooling (WEH)	AM PM	78 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 PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
___ Heating (WEH)	AM PM	66 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\* = 90

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

,Lake City,FL,32024

1. New construction or existing	New (From Plans)	10. Wall Types(1519.5 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1321.50 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	198.00 ft <sup>2</sup>
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft <sup>2</sup> )	1596	11. Ceiling Types(1596.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft <sup>2</sup> )	0	a. Flat ceiling under att (Vented)	R=30.0	1596.00 ft <sup>2</sup>
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.33	c. N/A		
SHGC:	SHGC=0.22	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1849 ft <sup>2</sup>
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft <sup>2</sup>
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	8	319
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	2.447 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.220	a. Central Unit	36.0	SEER2:14.30
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	36.0	HSPF2:7.50
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric	Cap: 40 gallons	
b. N/A	R=		EF: 0.930	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			CF, 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: \_\_\_\_\_ 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.