

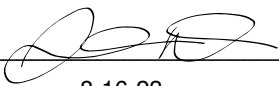
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

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	PASS
	Total Baseline Loads: 44.18	

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: _____
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- 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).

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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----				Ducts	Block
						Entry	Power	Volt	Current		
___ 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	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec		
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec		
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ 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	