

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: J-12204 - C-1309		Builder Name:	
Street:		Permit Office:	
City, State, Zip: Lake City, FL, 32024		Permit Number:	
Owner: Michael & Shannon Bishop		Jurisdiction:	
Design Location: FL, Gainesville		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 (ft²) 2500 Conditioned floor area below grade (ft²) 0 7. Windows(225.6 sqft.) Description Area a. U-Factor: Dbl, U=0.30 225.58 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.000 ft Area Weighted Average SHGC: 0.250 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 2500.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1800.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 1800.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2500.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 2500.00 ft² b. N/A c. N/A 12. Roof(Metal, Vented) Deck R=0.0 2708 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: M Suite D 6 100 b. Sup: Attic, Ret: Attic, AH: Rest of h 6 100 c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 23.2 SEER2:17.10 b. Central Unit 23.2 SEER2:17.10 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 23.2 HSPF2:9.00 b. Electric Heat Pump 23.2 HSPF2:9.00 16. Hot Water Systems Cap: 40 gallons a. Electric EF: 0.950 b. Conservation features 17. Credits None Pstat
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Glass/Floor Area: 0.090

Total Proposed Modified Loads: 42.79

Total Baseline Loads: 54.76

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY: David Marrs

DATE: 9/23/25

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 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	J-12204 - C-1309	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	2500	Lot #:	---
Owner:	Michael & Shannon Bishop	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:	No	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32024
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:					
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_REGIONA	32	92	70	75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	RoH Unit	1400	12600 cu ft
___ 2	M Suite Unit	1100	9900 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	M Suite Dine Laun	1100	9900	No	4	1	Yes	Yes	Yes
___ 2	Rest of house	1400	12600	Yes	2	2	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2500 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	M Suite Dine Laun	92	1100 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00
___ 2	Slab-On-Grade Edge Ins	Rest of house	108	1400 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or Shed	Metal	2708 ft²	520 ft²	0.11	Medium	N	0.9	No	0.9	No	0	22.62

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	2500 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING														(Total Exposed Area = 2500 sq.ft.)	
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type							
___ 1	Flat ceiling under attic(Vented)	M Suite Dine Laun	30.0	Blown	1100.0ft²	0.053	0.10	Wood							
___ 2	Flat ceiling under attic(Vented)	Rest of house	30.0	Blown	1400.0ft²	0.053	0.10	Wood							

WALLS														(Total Exposed Area = 1800 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	M Suite Dine Laun	19.0	26.0	0	9.0	0	234.0	0.072	0	0.25	0.80	0.0 %
___ 2	S	Exterior	Frame - Wood	M Suite Dine Laun	19.0	26.0	0	9.0	0	234.0	0.072	0	0.25	0.80	0.0 %
___ 3	W	Exterior	Frame - Wood	M Suite Dine Laun	19.0	40.0	0	9.0	0	360.0	0.072	0	0.25	0.80	0.0 %
___ 4	N	Exterior	Frame - Wood	Rest of house	19.0	34.0	0	9.0	0	306.0	0.072	0	0.25	0.80	0.0 %
___ 5	E	Exterior	Frame - Wood	Rest of house	19.0	40.0	0	9.0	0	360.0	0.072	0	0.25	0.80	0.0 %
___ 6	S	Exterior	Frame - Wood	Rest of house	19.0	34.0	0	9.0	0	306.0	0.072	0	0.25	0.80	0.0 %

DOORS														(Total Exposed Area = 39 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
___ 1	N		Wood	Rest of house	None	0.39	2.00	11	6.00	8	19.4ft²				
___ 2	S		Wood	Rest of house	None	0.39	3.00	0	6.00	8	20.0ft²				

WINDOWS														(Total Exposed Area = 226 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	Metal	Low-E Double	Y	0.30	0.25	N	N	21.0	1	3.00	7.00	1.0	1.0	Drapes/blinds	None
___ 2	N	1	Metal	Low-E Double	Y	0.30	0.25	N	N	28.0	1	4.00	7.00	1.0	1.0	Drapes/blinds	None
___ 3	S	2	Metal	Low-E Double	Y	0.30	0.25	N	N	16.0	1	4.00	4.00	1.0	1.0	Drapes/blinds	None
___ 4	S	2	Metal	Low-E Double	Y	0.30	0.25	N	N	42.0	1	6.00	7.00	1.0	1.0	Drapes/blinds	None
___ 5	N	4	Metal	Low-E Double	Y	0.30	0.25	N	N	14.0	1	2.00	7.00	1.0	1.0	Drapes/blinds	None
___ 6	N	4	Metal	Low-E Double	Y	0.30	0.25	N	N	14.6	1	2.08	7.00	1.0	1.0	Drapes/blinds	None
___ 7	N	4	Metal	Low-E Double	Y	0.30	0.25	N	N	21.0	1	3.00	7.00	1.0	1.0	Drapes/blinds	None
___ 8	N	4	Metal	Low-E Double	Y	0.30	0.25	N	N	28.0	1	4.00	7.00	1.0	1.0	Drapes/blinds	None
___ 9	E	5	Metal	Low-E Double	Y	0.30	0.25	N	N	4.0	1	4.00	1.00	1.0	1.0	Drapes/blinds	None
___ 10	S	6	Metal	Low-E Double	Y	0.30	0.25	N	N	16.0	1	4.00	4.00	1.0	1.0	Drapes/blinds	None
___ 11	S	6	Metal	Low-E Double	Y	0.30	0.25	N	N	21.0	1	3.00	7.00	1.0	1.0	Drapes/blinds	None

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00034	2250	123.44	231.75	0.1232	6.0	All	22500 cu ft	

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	M Suite Dine Laun
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Rest of house

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	Split/Single		HSPF2: 9.00	23.2		0.00	0.00	0.00	sys#1	2
___ 2	Electric Heat Pump	Split/Single		HSPF2: 9.00	23.2		0.00	0.00	0.00	sys#2	1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:17.1	23.2	0	0.70	sys#1	2
___ 2	Central Unit	Split/Single		SEER2:17.1	23.2	0	0.80	sys#2	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	M Suite Dine Laun	0.95 (0.93)	40.0 gal	60 gal	120 deg	Standard	Yes	=>R-3	5
	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		Return			Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC #		
	Location	R-Value	Area	Location	R-Value							Area	Heat	Cool
___ 1	Attic	6.0	100 ft²	Attic	6.0	50 ft²	Prop. Leak Free	M Suite Di	--- ---	0.030	Yes	0.50	1	1
___ 2	Attic	6.0	100 ft²	Attic	6.0	50 ft²	Prop. Leak Free	Rest of ho	--- ---	0.030	Yes	0.50	2	2

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	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
___	Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 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 66	68 66