

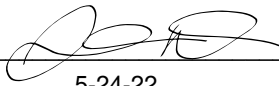
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lavender & Murry Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: 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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft ²) 3021 Conditioned floor area below grade (ft ²) 0 7. Windows(349.5 sqft.) Description Area a. U-Factor: Dbl, U=0.26 349.50 ft ² SHGC: SHGC=0.20 b. U-Factor: N/A ft ² SHGC: c. U-Factor: N/A ft ² SHGC: Area Weighted Average Overhang Depth: 4.008 ft Area Weighted Average SHGC: 0.200 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft ² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 3021.00 ft ² b. N/A R= ft ² c. N/A R= ft ²	10. Wall Types(3448.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 3448.30 ft ² b. N/A R= ft ² c. N/A R= ft ² d. N/A R= ft ² 11. Ceiling Types(3021.0 sqft.) Insulation Area a. Roof Deck (Unvented) R=30.0 3021.00 ft ² b. N/A R= ft ² c. N/A R= ft ² 12. Ducts, location & insulation level R ft ² a. a. Sup: Main, Ret: Main, AH: Garage 6 604.2 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 48.0 SEER:15.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF:8.50 15. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None CF, Pstat 16. Credits
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Glass/Floor Area: 0.116	Total Proposed Modified Loads: 62.01	PASS
	Total Baseline Loads: 79.31	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  _____ DATE: 5-24-22 _____ 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 4.72 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Lavender & Murry Residence	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	3021	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Name:		Worst Case:	No	PlatBook:	---
Permit Office:		Rotate Angle:	0	Street:	
Jurisdiction:		Cross Ventilation:		County:	columbia
Family Type:	Detached	Whole House Fan:		City, State, Zip:	, FL,
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2022	Shielding:	Moderate/Rural		
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	Block1	3021	30210

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	3021	30210	Yes	8	4	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 3021 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	313	0	3021 ft	0.563	---	0.20	0.60	0.20

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Composition shingles	3498 ft²	882 ft²	Dark	N	0.92	No	0.9	No	30	30.26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	3021 ft²	N	N

CEILING

(Total Exposed Area = 3021 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Unvented)	Main	30.0	Blown	3021.0ft²	0.030	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 3448 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	18.0	8	10.0	0	186.7	0.094		0.23	0.75	0 %			
___ 2	E	Exterior	Frame - Wood	Main	13.0	22.0	4	10.0	0	223.3	0.094		0.23	0.75	0 %			
___ 3	N	Exterior	Frame - Wood	Main	13.0	18.0	6	10.0	0	185.0	0.094		0.23	0.75	0 %			
___ 4	W	Exterior	Frame - Wood	Main	13.0	2.0	8	10.0	0	26.7	0.094		0.23	0.75	0 %			
___ 5	N	Exterior	Frame - Wood	Main	13.0	13.0	6	10.0	0	135.0	0.094		0.23	0.75	0 %			
___ 6	W	Exterior	Frame - Wood	Main	13.0	42.0	10	10.0	0	428.3	0.094		0.23	0.75	0 %			
___ 7	N	Exterior	Frame - Wood	Main	13.0	24.0	0	10.0	0	240.0	0.094		0.23	0.75	0 %			
___ 8	E	Exterior	Frame - Wood	Main	13.0	35.0	2	10.0	0	351.7	0.094		0.23	0.75	0 %			
___ 9	S	Exterior	Frame - Wood	Main	13.0	52.0	8	10.0	0	526.7	0.094		0.23	0.75	0 %			
___ 10	S	Exterior	Frame - Wood	Main	13.0	12.0	8	10.0	0	126.7	0.094		0.23	0.75	0 %			
___ 11	E	Exterior	Frame - Wood	Main	13.0	6.0	6	10.0	0	65.0	0.094		0.23	0.75	0 %			
___ 12	S	Exterior	Frame - Wood	Main	13.0	32.0	4	10.0	0	323.3	0.094		0.23	0.75	0 %			
___ 13	W	Exterior	Frame - Wood	Main	13.0	6.0	6	10.0	0	65.0	0.094		0.23	0.75	0 %			
___ 14	S	Exterior	Frame - Wood	Main	13.0	5.0	8	10.0	0	56.7	0.094		0.23	0.75	0 %			
___ 15	W	Exterior	Frame - Wood	Main	13.0	50.0	10	10.0	0	508.3	0.094		0.23	0.75	0 %			

DOORS												(Total Exposed Area = 198 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	E	Exterior	Insulated	Main	None	0.40	10.00	0	6.00	8	66.7ft²		
___ 2	E	Exterior	Insulated	Main	None	0.40	2.00	8	6.00	8	17.8ft²		
___ 3	N	Exterior	Insulated	Main	None	0.40	14.00	0	6.00	8	93.3ft²		
___ 4	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		

WINDOWS													(Total Exposed Area = 350 sq.ft.)	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	-----Overhang----- Depth Separation	Interior Shade	Screening	
___ 1	N	1	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 2	N	5	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	20.0ft²	21.0 ft 4 in 2.0 ft 4 in	None	None	
___ 3	W	6	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 4	N	7	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	54.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 5	N	7	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	15.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 6	E	8	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	8.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 7	E	8	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	20.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 8	E	8	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	4.5ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 9	E	8	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	9.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 10S	10	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	N	10.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 11S	12	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	N	60.0ft²	9.0 ft 6 in 2.0 ft 4 in	None	None	
___ 12S	14	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	N	10.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 13W	15	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	N	10.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 14W	15	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	N	54.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	
___ 15W	15	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	N	3.0ft²	1.0 ft 6 in 2.0 ft 4 in	None	None	

INFILTRATION									
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00030	2375	130.28	244.59	0.1010	4.7	All

INPUT SUMMARY CHECKLIST REPORT

GARAGE														
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation									
___ 1	816 ft²	816 ft²	73 ft	10 ft	1									
MASS														
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space									
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main									
HEATING SYSTEM														
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal Entry	HeatPump Power	--- Volt	Current	Ducts	Block			
___ 1	Electric Heat Pump	None/Single		HSPF: 8.50	48.0		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		SEER:15.0	48.0	1440	0.85	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	0.92 (0.92)	50.00 gal	70 gal	120 deg	Standard	None	99				
	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 Location	-----Supply----- R-Value Area	-----Return----- R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool				
___ 1	Main	6.0 604 ft²	Main 6.0 151 ft²	Prop. Leak Free	Garage	---	---	0.03	0.50	1 1				
TEMPERATURES														
Programable Thermostat: Y 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: Schedule Type	HERS 2006 Reference	1	2	3	4	5	6	Hours 7	8	9	10	11	12
___	Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___	Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78

INPUT SUMMARY CHECKLIST REPORT**TEMPERATURES(Continued)**

___ Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
___ Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68