

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: LaFlamme 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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Glass/Floor Area: 0.112	Total Proposed Modified Loads: 38.60	PASS
	Total Baseline Loads: 39.32	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: <u>8-3-22</u> _____ 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 0.000 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:	LaFlamme Residence	Bedrooms:	3	Address type:	Lot
Building Type:	User	Conditioned Area:	1293	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	1293	11637

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1293	11637	Yes	6	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1293 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	176	0	1293 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	Hip	Composition shingles	1446 ft ²	0 ft ²	Medium	N	0.85	No	0.9	No	0	26.57

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	1293 ft ²	N	N

CEILING

(Total Exposed Area = 1293 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	30.0	Blown	1293.0ft ²	0.053	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1589 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	21.0	6	9.0	0	193.5	0.094		0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	13.0	5.0	6	9.0	0	49.5	0.094		0.23	0.75	0 %
___ 3	N	Exterior	Frame - Wood	Main	13.0	14.0	6	9.0	0	130.5	0.094		0.23	0.75	0 %
___ 4	W	Exterior	Frame - Wood	Main	13.0	5.0	6	9.0	0	49.5	0.094		0.23	0.75	0 %
___ 5	N	Exterior	Frame - Wood	Main	13.0	10.0	0	9.0	0	90.0	0.094		0.23	0.75	0 %
___ 6	E	Exterior	Frame - Wood	Main	13.0	24.0	3	9.0	0	218.3	0.094		0.23	0.75	0 %
___ 7	S	Exterior	Frame - Wood	Main	13.0	6.0	0	9.0	0	54.0	0.094		0.23	0.75	0 %
___ 8	E	Exterior	Frame - Wood	Main	13.0	12.0	6	9.0	0	112.5	0.094		0.23	0.75	0 %
___ 9	S	Exterior	Frame - Wood	Main	13.0	11.0	6	9.0	0	103.5	0.094		0.23	0.75	0 %
___ 10	W	Exterior	Frame - Wood	Main	13.0	5.0	10	9.0	0	52.5	0.094		0.23	0.75	0 %
___ 11	S	Exterior	Frame - Wood	Main	13.0	6.0	6	9.0	0	58.5	0.094		0.23	0.75	0 %
___ 12	S	Garage	Frame - Wood	Main	13.0	24.0	4	9.0	0	219.0	0.094		0.23	0.75	0 %
___ 13	W	Exterior	Frame - Wood	Main	13.0	28.0	8	9.0	0	258.0	0.094		0.23	0.75	0 %

DOORS														(Total Exposed Area = 58 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
___ 1	N	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²				
___ 2	S	Exterior	Wood	Main	None	0.40	3.00	0	6.00	8	20.0ft²				
___ 3	S	Garage	Insulated	Main	None	0.40	2.00	8	6.00	8	17.8ft²				

WINDOWS														(Total Exposed Area = 144 sq.ft.)	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	----Overhang----		Interior Shade	Screening	
											Depth	Separation			
___ 1	N	1	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None	
___ 2	N	3	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	30.0ft²	7.0 ft 0 in	2.0 ft 4 in	None	None	
___ 3	N	5	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	
___ 4	S	9	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None	
___ 5	S	11	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	13.3ft²	9.0 ft 6 in	2.0 ft 4 in	None	None	
___ 6	W	13	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	6.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None	
___ 7	W	13	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	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	
___ 1	Wholehouse	Proposed ACH(50)	0.00029	970	53.20	99.88	0.1027	5.0	All	

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	484 ft²	484 ft²	64 ft	9 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		HSPF: 8.50	30.0		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	30.0	900	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	60 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	Supply Area	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___ 1	Attic	6.0	264 ft²	6.0	66 ft²	Default Leakage	Garage	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: HERS 2006 Reference	Hours												
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM 78	PM 78	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM 78	PM 78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM 65	PM 68	65	65	65	65	65	65	68	68	68	68	68
___ Heating (WEH)	AM 65	PM 68	65	65	65	65	65	65	68	68	68	68	68