

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Paschall 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 5 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 3250 Conditioned floor area below grade (ft²) 0 7. Windows(378.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 378.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.200 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 3250.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2070.0 sqft.) Insulation Area a. Frame - Steel, Exterior R=13.0 2070.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(3250.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=0.0 3250.00 ft² b. N/A c. N/A 12. Roof(Metal, Unvent) Deck R=21.0 3426 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Main 6 650 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 48.0 SEER2:17.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF2:8.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.116	Total Proposed Modified Loads: 69.99	PASS
	Total Baseline Loads: 75.12	

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: _____ DATE: 2-27-25 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: _____
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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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Paschall Residence			Bedrooms:	5		Address type:	Street Address					
Building Type:	User			Conditioned Area:	3250		Lot #:	---					
Owner:				Total Stories:	1		Block/SubDivision:	---					
Builder Home ID:				Worst Case:	No		PlatBook:	---					
Builder Name:				Rotate Angle:	0		Street:						
Permit Office:				Cross Ventilation:			County:	Columbia					
Jurisdiction:				Whole House Fan:			City, State, Zip:	, FL,					
Family Type:	Detached			Terrain:	Rural								
New/Existing:	New (From Plans)			Shielding:	Moderate/Rural								
Year Construct:	2025												
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	3250	29250 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	Main	3250	29250	Yes	10	5	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 3250 sq.ft.)													
✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	SlabInsul. Vert/Horiz	Tile	Wood	Carpet			
___ 1	Slab-On-Grade Edge Ins	Main	230	3250 sqft	0.0	---	0.563	0 (ft)/0 (ft)	0.20	0.60	0.20		
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	3426 ft²	542 ft²	0.11	Unf, Gal.	N	0.7	No	0.7	No	21	18.43
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
___ 1	No attic	Unvented	0	3250 ft²	N	N							
CEILING (Total Exposed Area = 3250 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	FramingFrac.	Truss Type					
___ 1	Single assembly, no airspace(Unvented)	Main	0.0	Blown	3250.0ft²	0.045	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2070 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 - Steel	Main	13.0	50.0	0	9.0	0	450.0	0.205		0.23	0.75	0 %				
___ 2	E	Exterior	Frame - Steel	Main	13.0	65.0	0	9.0	0	585.0	0.205		0.23	0.75	0 %				
___ 3	S	Exterior	Frame - Steel	Main	13.0	50.0	0	9.0	0	450.0	0.205		0.23	0.75	0 %				
___ 4	W	Exterior	Frame - Steel	Main	13.0	65.0	0	9.0	0	585.0	0.205		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 116 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²			
___ 2	S	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²			
___ 3	W	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²			

WINDOWS															(Total Exposed Area = 378 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	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	1.3	None	None
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	108.0	6	3.00	6.00	1.5	1.3	None	None
___ 3	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	1	3.00	6.00	1.5	1.3	None	None
___ 4	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	144.0	8	3.00	6.00	1.5	1.3	None	None
___ 5	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	4.00	1.50	1.5	1.3	None	None
___ 6	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	1.3	None	None
___ 7	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	90.0	5	3.00	6.00	1.5	1.3	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00040	3413	187.22	351.48	0.1438	7.0	All	29250 cu ft

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

HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----GeothermalHeatPump----	Ducts	Block			
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF2: 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		SEER2:17.0	48.0	1440	0.75	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM														
✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipelength		
___	1	Electric	None	Main	0.92 (0.92)	50.0 gal	80 gal	120 deg	Standard	Yes	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 #	-----Supply----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
___	1	Main	6.0	650 ft²	Main	6.0	163 ft²	Prop. Leak Free	Main	--- ---	0.030	Yes	0.50	1 1
TEMPERATURES														
Programable Thermostat: Y														
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		
Ceiling Fans: N														
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 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
___	Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
___	Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68