

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Dava Walters 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 1 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 432 Conditioned floor area below grade (ft²) 0 7. Windows(82.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 82.00 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. Floor over Garage R= 0.0 432.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(756.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 756.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(432.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 432.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 445 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Garage 6 86 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 24.0 SEER:16.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 24.0 HSPF: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: 0.190	Total Proposed Modified Loads: 28.80	PASS
	Total Baseline Loads: 28.77	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____ 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.
- Default duct leakage does not require a Duct Leakage Test Report.
- 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 4.73 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:		Dava Walters Residence				Address type:		Street Address					
Building Type:		User				Bedrooms:		1					
Owner:						Conditioned Area:		432					
						Total Stories:		1					
Builder Name:						Worst Case:		No					
Permit Office:						Rotate Angle:		0					
Jurisdiction:						Cross Ventilation:							
Family Type:		Detached				Whole House Fan:		FL,					
New/Existing:		New (From Plans)				Terrain:		Rural					
Year Construct:		2023				Shielding:		Moderate/Rural					
Comment:													
CLIMATE													
✓	Design Location	Tmy Site	Design Temp		Int Design Temp		Heating	Design	Daily temp				
			97.5%	2.5%	Winter	Summer	Degree Days	Moisture	Range				
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium				
BLOCKS													
✓	Number	Name	Area	Volume									
	___ 1	Block1	432	3456 cu ft									
SPACES													
✓	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
	___ 1	Main	432	3456	Yes	1	1	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 432 sq.ft.)													
✓	#	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet		
	___ 1	Floor over Garage	Main	---	---	432 ft	0.237	0	0.20	0.50	0.30		
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	445 ft²	0 ft²	Dark	N	0.92	No	0.9	No	0	14.04
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC					
	___ 1	Full attic	Vented	300		432 ft²	N	N					
CEILING (Total Exposed Area = 432 sq.ft.)													
✓	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type				
	___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	432.0ft²	0.053	0.11	Wood				

INPUT SUMMARY CHECKLIST REPORT

WALLS																		(Total Exposed Area = 756 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	0	9.0	0	162.0	0.094		0.23	0.75	0 %						
___ 2	E	Exterior	Frame - Wood	Main	13.0	24.0	0	9.0	0	216.0	0.094		0.23	0.75	0 %						
___ 3	S	Exterior	Frame - Wood	Main	13.0	18.0	0	9.0	0	162.0	0.094		0.23	0.75	0 %						
___ 4	W	Exterior	Frame - Wood	Main	13.0	24.0	0	9.0	0	216.0	0.094		0.23	0.75	0 %						

DOORS														(Total Exposed Area = 20 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				

WINDOWS																		(Total Exposed Area = 82 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	15.0	1	3.00	5.00	1.5	2.3	None	None				
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	2.3	None	None				
___ 3	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	2.3	None	None				
___ 4	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.0	1	4.00	1.00	1.5	2.3	None	None				
___ 5	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None				
___ 6	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None				

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00024	272	14.95	28.06	0.0927	4.7	All	3456 cu ft	

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	432 ft²	432 ft²	84 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

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	24.0		0.00	0.00	0.00	sys#1 1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:16.0	24.0	720	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	40 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	Location	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	86 ft²	Attic	6.0	22 ft²	Default Leakage	Garage	(Default)	(Default)			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 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	