

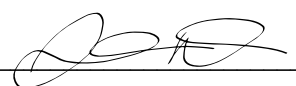
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Meredith 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 (ft²) 2384 Conditioned floor area below grade (ft²) 0 7. Windows(196.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 196.00 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 2384.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2409.8 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2409.80 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2384.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 2384.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2865 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 477 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 48.0 SEER2:16.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF2:7.80 16. Hot Water Systems a. PropaneTankless Cap: 1 gallons EF: 0.590 b. Conservation features 17. Credits None Pstat
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Glass/Floor Area: 0.082	Total Proposed Modified Loads: 60.85	PASS
	Total Baseline Loads: 61.51	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 9-7-23 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 4.89 ACH50 (R402.4.1.2).

Page 2

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2410 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	15.0	0	9.0	0	135.0	0.094		0.23	0.75	0 %				
___ 2	E	Exterior	Frame - Wood	Main	13.0	12.0	10	9.0	0	115.5	0.094		0.23	0.75	0 %				
___ 3	N	Exterior	Frame - Wood	Main	13.0	39.0	10	10.0	0	398.3	0.094		0.23	0.75	0 %				
___ 4	W	Exterior	Frame - Wood	Main	13.0	8.0	2	9.0	0	73.5	0.094		0.23	0.75	0 %				
___ 5	N	Exterior	Frame - Wood	Main	13.0	25.0	0	9.0	0	225.0	0.094		0.23	0.75	0 %				
___ 6	E	Exterior	Frame - Wood	Main	13.0	21.0	4	9.0	0	192.0	0.094		0.23	0.75	0 %				
___ 7	S	Exterior	Frame - Wood	Main	13.0	6.0	4	9.0	0	57.0	0.094		0.23	0.75	0 %				
___ 8	E	Exterior	Frame - Wood	Main	13.0	11.0	0	9.0	0	99.0	0.094		0.23	0.75	0 %				
___ 9	S	Exterior	Frame - Wood	Main	13.0	20.0	2	9.0	0	181.5	0.094		0.23	0.75	0 %				
___ 10	E	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.094		0.23	0.75	0 %				
___ 11	S	Exterior	Frame - Wood	Main	13.0	30.0	0	10.0	0	300.0	0.094		0.23	0.75	0 %				
___ 12	W	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.094		0.23	0.75	0 %				
___ 13	S	Exterior	Frame - Wood	Main	13.0	17.0	8	9.0	0	159.0	0.094		0.23	0.75	0 %				
___ 14	W	Exterior	Frame - Wood	Main	13.0	4.0	0	9.0	0	36.0	0.094		0.23	0.75	0 %				
___ 15	S	Exterior	Frame - Wood	Main	13.0	5.0	8	9.0	0	51.0	0.094		0.23	0.75	0 %				
___ 16	W	Exterior	Frame - Wood	Main	13.0	33.0	0	9.0	0	297.0	0.094		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 206 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	15.00	0	8.00	0	120.0ft²			
___ 2	W	Exterior	Insulated	Main	None	0.40	2.00	8	6.00	8	17.8ft²			
___ 3	N	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 4	S	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²			

WINDOWS															(Total Exposed Area = 196 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	54.0	3	3.00	6.00	1.5	2.3	None	None
___ 2	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.0	2	2.00	4.00	1.5	2.3	None	None
___ 3	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	1	3.00	6.00	1.5	2.3	None	None
___ 4	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None
___ 5	S	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	1	3.00	6.00	1.5	2.3	None	None
___ 6	S	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	2.3	None	None
___ 7	S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	2.3	None	None
___ 8	S	13	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	2.3	None	None
___ 9	S	13	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	1	3.00	6.00	1.5	2.3	None	None
___ 10	S	15	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None
___ 11	W	16	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	2	2.00	2.00	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)	0.00028	1749	95.94	180.11	0.1004	4.9	All	21456 cu ft

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		HSPF2: 7.80	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		SEER2:16.0	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	Propane	Tankless	Exterior	0.59 (0.59)	1.00 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 #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1 Attic	6.0 477 ft² Attic	6.0 119 ft²	Default Leakage	Main	(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					Hours								
	Schedule Type		1	2	3	4	5	6	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