

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Kevin Bedenbaugh		Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)		
Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville				
1. New construction or existing	New (From Plans)	10. Wall Types(1360.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1360.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	1	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1152	11. Ceiling Types(1152.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Single assembly, no ai (Unvented)	R=0.0	1152.00 ft ²
7. Windows(117.0 sqft.)	Description	12. Roof(Metal, Unvent)	Deck R=38.0	1214 ft ²
a. U-Factor: Dbl, U=0.26	Area 117.00 ft ²	13. Ducts, location & insulation level	R	ft ²
SHGC: SHGC=0.20		a. Sup: Main, Ret: Main, AH: Main	6	230
b. U-Factor: N/A	ft ²	b.		
SHGC:		c.		
c. U-Factor: N/A	ft ²	14. Cooling Systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	24.0	SEER2:15.00
Area Weighted Average Overhang Depth:	1.500 ft	15. Heating Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Electric Heat Pump	24.0	HSPF2:7.80
8. Skylights	Description	16. Hot Water Systems		
U-Factor:(AVG)	N/A	a. Propane Tankless		
SHGC(AVG):	N/A	b. Conservation features	Cap: 1 gallons	EF: 0.590
9. Floor Types	Insulation	17. Credits		None
a. Slab-On-Grade Edge Insulation	R= 0.0			CF, Pstat
b. N/A	R=			
c. N/A	R=			

Glass/Floor Area: 0.102

Total Proposed Modified Loads: 34.85

PASS

Total Baseline Loads: 38.98

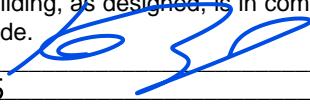
NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: 

DATE: 9-8-25

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: 

DATE: 9-8-2025

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: _____



- 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:	Kevin Bedenbaugh	Address type:	Street Address
Building Type:	User	Bedrooms:	1
Owner:		Conditioned Area:	1152
Builder Home ID:		Total Stories:	1
Builder Name:		Worst Case:	No
Permit Office:		Rotate Angle:	0
Jurisdiction:		Cross Ventilation:	
Family Type:	Detached	Whole House Fan:	
New/Existing:	New (From Plans)	Terrain:	Rural
Year Construct:	2025	Shielding:	Moderate/Rural
Comment:			

CLIMATE

✓ Design Location	Tmy Site	Design Temp	Int Design Temp	Heating	Design	Daily temp
		97.5%	2.5%	Winter	Degree Days	Range
FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5
					51	Medium

BLOCKS

✓ Number	Name	Area	Volume
1	Block1	1152	11520 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	Main	1152	11520	Yes	2	1	Yes	Yes	Yes

FLOORS (Total Exposed Area = 1152 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul.	Tile	Wood	Carpet
1	Slab-On-Grade Edge Ins	Main	136	1152 sqft	0.0	---	0.563	0 (ft)/0 (ft)	0.20	0.60

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt	Deck Insul.	Pitch (deg)
1	Gable or shed	Metal	1214 ft ²	192 ft ²	0.11	Unf, Gal.	N	0.7	No	0.7	No	38	18.43

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	No attic	Unvented	0	1152 ft ²	N	N

CEILING (Total Exposed Area = 1152 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
1	Single assembly, no airspace(Unvented)	Main	0.0	Blown	1152.0ft ²	0.025	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT**WALLS**

(Total Exposed Area = 1360 sq.ft.)

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Main	13.0	32.0	0	10.0	0	320.0	0.084	0.23	0.75	0 %	
___ 2	E	Exterior	Frame - Wood	Main	13.0	36.0	0	10.0	0	360.0	0.084	0.23	0.75	0 %	
___ 3	S	Exterior	Frame - Wood	Main	13.0	32.0	0	10.0	0	320.0	0.084	0.23	0.75	0 %	
___ 4	W	Exterior	Frame - Wood	Main	13.0	36.0	0	10.0	0	360.0	0.084	0.23	0.75	0 %	

DOORS

(Total Exposed Area = 40 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	E	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft ²
___ 2	W	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft ²

WINDOWS

(Total Exposed Area = 117 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft ²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Separ. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	36.0	2	3.00	6.00	1.5	1.3	None	None
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	9.0	1	3.00	3.00	1.5	1.3	None	None
___ 3	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	72.0	4	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)	0.00044	1344	73.74	138.43	0.1500	7.0	All	11520 cu ft

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft ²	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		HSPF2: 7.80	24.0	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		SEER2:15.0	24.0	720	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.	Pipe length
___ 1	Propane	Tankless	Exterior	0.59 (0.59)	1.0 gal	40 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	230 ft ²	Main	6.0	58 ft ²	Prop. Leak Free	Main	--- ---	0.030	Yes	0.50	1 1

TEMPERATURES

Programable Thermostat: Y	Ceiling Fans: N												
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		
✓ 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 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 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	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	68 68	68 68	68 68	68 68	68 68	