

## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Bixler Hanger			Builder Name:			
Street:	266 SW Challenger Ln			Permit Office:	Columbia County		
City, State, Zip:	Lake City, FL, 32025			Permit Number:			
Owner:	Tim & Lisa Bixler			Jurisdiction:			
Design Location:	FL, Gainesville			County:	Columbia(Florida Climate Zone 2)		
1. New construction or existing	New (From Plans)			10. Wall Types(1120.0 sqft.)	Insulation	Area	
2. Single family or multiple family	Detached			a. Frame - Wood, Exterior	R=19.0	720.00 ft <sup>2</sup>	
3. Number of units, if multiple family	1			b. Frame - Wood, Adjacent	R=19.0	400.00 ft <sup>2</sup>	
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 <sup>2</sup> )	1000			11. Ceiling Types(1100.0 sqft.)	Insulation	Area	
Conditioned floor area below grade (ft <sup>2</sup> )	0			a. Flat ceiling under att (Vented)	R=38.0	1100.00 ft <sup>2</sup>	
7. Windows(45.0 sqft.)	Description	Area		b. N/A			
a. U-Factor:	Dbl, U=0.36	45.00 ft <sup>2</sup>		c. N/A			
SHGC:	SHGC=0.25			12. Roof(Comp. Shingles, Vented)	Deck R=0.0	1054 ft <sup>2</sup>	
b. U-Factor:	N/A	ft <sup>2</sup>		13. Ducts, location & insulation level	R	ft <sup>2</sup>	
SHGC:				a.			
c. U-Factor:	N/A	ft <sup>2</sup>		b.			
SHGC:				c.			
Area Weighted Average Overhang Depth:		1.267 ft		14. Cooling Systems	kBtu/hr	Efficiency	
Area Weighted Average SHGC:		0.250		a. Central Unit	33.5	SEER2:15.50	
8. Skylights	Description	Area		15. Heating Systems	kBtu/hr	Efficiency	
U-Factor:(AVG)	N/A	N/A ft <sup>2</sup>		a. Electric Heat Pump	33.5	HSPF2:8.80	
SHGC(AVG):	N/A			16. Hot Water Systems			
9. Floor Types	Insulation	Area		a. Propane Tankless		Cap: 1 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0	1000.00 ft <sup>2</sup>		b. Conservation features		EF: 0.590	
b. N/A	R=	ft <sup>2</sup>					
c. N/A	R=	ft <sup>2</sup>		17. Credits	None		
					CV, Pstat		

Glass/Floor Area: 0.045

Total Proposed Modified Loads: 21.78

PASS

Total Baseline Loads: 24.38

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: W.M.C. Hoag

DATE: 8 / 18 / 2025

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

OWNER/AGENT: Robert Hoag

DATE: 9/25/25

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.
- Homes without ducts do not require duct testing.
- 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: Bixler Hanger	Address type: Street Address
Building Type: User	Lot #: ---
Owner: Tim & Lisa Bixler	Block/SubDivision: ---
Builder Home ID:	PlatBook: ---
Builder Name:	Street: 266 SW Challenger Ln
Permit Office: Columbia County	County: Columbia
Jurisdiction:	City, State, Zip: Lake City, FL, 32025
Family Type: Detached	
New/Existing: New (From Plans)	
Year Construct: 2025	
Comment:	

**CLIMATE**

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

**BLOCKS**

✓ Number	Name	Area	Volume
1	Block1	1000	8000 cu ft

**SPACES**

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	1st Floor	1000	8000	Yes	4	1	Yes	Yes	Yes

**FLOORS** (Total Exposed Area = 1000 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
1	Slab-On-Grade Edge Ins	1st Floor	140	1000 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00
										1.00

**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	Composition shingles	1054 ft <sup>2</sup>	166 ft <sup>2</sup>	0.11	Medium	Y	0.96	No	0.9	No	0	18.43

**ATTIC**

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Full attic	Vented	300	1000 ft <sup>2</sup>	Y	N

**CEILING** (Total Exposed Area = 1100 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	1100.0ft <sup>2</sup>	0.024	0.11	Wood

**INPUT SUMMARY CHECKLIST REPORT**

<b>WALLS</b> (Total Exposed Area = 1120 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	1st Floor	19.0	50.0	0	8.0	0	400.0	0.061		0.23	0.75	0 %
___ 2	W	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	8.0	0	160.0	0.061		0.23	0.75	0 %
___ 3	S	Garage	Frame - Wood	1st Floor	19.0	50.0	0	8.0	0	400.0	0.061		0.23	0.75	0 %
___ 4	E	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	8.0	0	160.0	0.061		0.23	0.75	0 %

  

<b>DOORS</b> (Total Exposed Area = 172 sq.ft.)											
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	S	Garage	Insulated	1st Floor	None	0.46	6.00	0	6.00	8	40.0ft <sup>2</sup>
___ 2	N	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft <sup>2</sup>
___ 3	N	Exterior	Insulated	1st Floor	None	0.46	16.00	0	7.00	0	112.0ft <sup>2</sup>

  

<b>WINDOWS</b> (Total Exposed Area = 45 sq.ft.)																	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Total Area (ft <sup>2</sup> )	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.0	8.0	None	None
___ 2	N	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.0	8.0	None	None
___ 3	W	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	8.0	None	None
___ 4	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	8.0	None	None

  

<b>INFILTRATION</b>												
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume		
___ 1	Wholehouse	Proposed ACH(50)	0.00036	933	51.21	96.13	0.1372	7.0	All	8000 cu ft		

  

<b>GARAGE</b>											
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation			
___ 1	2000 ft <sup>2</sup>	40.0 ft <sup>2</sup>	50.0 ft <sup>2</sup>	2000 ft <sup>2</sup>	130 ft	2000 ft	8 ft	1			

  

<b>MASS</b>												
✓ #	Mass Type	Area			Thickness		Furniture Fraction			Space		
___ 1	Default(8 lbs/sq.ft.)	0 ft <sup>2</sup>			0 ft		0.30			1st Floor		

  

<b>HEATING SYSTEM</b>											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal Entry	HeatPump Power	Volt	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	33.5		0.00	0.00	0.00	sys#0	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		SEER2:15.5	33.5	1005	0.75	Ductless	1

**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	12
	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	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool

**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

✓ Thermostat Schedule: HERS 2006 Reference Schedule Type	Hours											
	1	2	3	4	5	6	7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Cooling (WEH)	AM PM	78 78										
___ Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68
___ Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

## ESTIMATED ENERGY PERFORMANCE INDEX\* = 89

The lower the Energy Performance Index, the more efficient the home.

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SHGC:	SHGC=0.25	a.		
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c. U-Factor:	N/A	14. Cooling Systems	kBtu/hr	Efficiency
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SHGC(AVG):	N/A	b. Conservation features		
9. Floor Types	Insulation	17. Credits	None	
a. Slab-On-Grade Edge Insulation	R= 0.0		CV, Pstat	
b. N/A	R=			
c. N/A	R=			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: Robert Hoag Date: 9/25/25

Address of New Home: 266 SW Challenger Ln City/FL Zip: Lake City, FL, 32025



\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.