

Project Name: Bixler Hanger Street: 266 SW Challenger Ln City, State, Zip: Lake City, FL, 32025 Owner: Tim & Lisa Bixler Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County 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) 1000 Conditioned floor area below grade (ft²) 0 7. Windows(45.0 sqft.) Description Area a. U-Factor: Dbl, U=0.36 45.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.267 ft Area Weighted Average SHGC: 0.250 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 1000.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1120.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 720.00 ft² b. Frame - Wood, Adjacent R=19.0 400.00 ft² c. N/A d. N/A 11. Ceiling Types(1100.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 1100.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 1054 ft² 13. Ducts, location & insulation level R ft² a. b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 33.5 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 33.5 HSPF2:8.80 16. Hot Water Systems a. PropaneTankless Cap: 1 gallons EF: 0.590 b. Conservation features None 17. Credits CV, Pstat
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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: _____ 8 / 18 / 2025 DATE: _____ 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: _____
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8/18/2025 2:15:24 PM EnergyGauge® USA 8.0.00 - FlaRes2023 FBC 8th Edition (2023) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Bixler Hanger			Bedrooms:	1		Address type:	Street Address																
Building Type:	User			Conditioned Area:	1000		Lot #:	---																
Owner:	Tim & Lisa Bixler			Total Stories:	1		Block/SubDivision:	---																
Builder Home ID:				Worst Case:	No		PlatBook:	---																
Builder Name:				Rotate Angle:	0		Street:	266 SW Challenger Ln																
Permit Office:	Columbia County			Cross Ventilation:	Yes		County:	Columbia																
Jurisdiction:				Whole House Fan:	No		City, State, Zip:	Lake City, FL, 32025																
Family Type:	Detached			Terrain:	Suburban																			
New/Existing:	New (From Plans)			Shielding:	Suburban																			
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		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. Joist		U-Factor		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 Tested		Deck Insul.		Pitch (deg)	
___ 1	Gable or shed		Composition shingles		1054 ft²		166 ft²		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 ft²		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		1100.0ft²		0.024		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1120 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	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 %	

DOORS (Total Exposed Area = 172 sq.ft.)												
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	S	Garage	Insulated	1st Floor	None	0.46	6.00	0	6.00	8	40.0ft²	
___ 2	N	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²	
___ 3	N	Exterior	Insulated	1st Floor	None	0.46	16.00	0	7.00	0	112.0ft²	

WINDOWS (Total Exposed Area = 45 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	0.36	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

INFILTRATION										
✓ #	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

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	2000 ft²	40.0 ft²	50.0 ft²	2000 ft²	130 ft	2000 ft	8 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor

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

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

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 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	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 66	68 66	
___ 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 66	68 66	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 89

The lower the EnergyPerformance Index, the more efficient the home.

266 SW Challenger Ln,Lake City,FL,32025

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 ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=19.0	400.00 ft ²
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)	1000	11. Ceiling Types(1100.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1100.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1054 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a.		
c. U-Factor:	N/A	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	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	33.5	HSPF2:8.80
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. PropaneTankless	Cap: 1 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0		EF: 0.590	
b. N/A	R=	b. Conservation features		
c. N/A	R=	17. Credits	None	
			CV, Pstat	

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.