


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Krygier Residence Street: SW Mixon Road City, State, Zip: Lake City, FL, 32024 Owner: Steve & Gayle Krygier 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 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 1911 Conditioned floor area below grade (ft²) 0 7. Windows(245.0 sqft.) Description Area a. U-Factor: Dbl, U=0.36 245.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: N/A c. U-Factor: N/A ft² SHGC: N/A Area Weighted Average Overhang Depth: 7.500 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 1911.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1632.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1632.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2006.6 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 2006.60 ft² b. N/A c. N/A 12. Roof(Metal, Vented) Deck R=0.0 2137 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 478 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 22.1 SEER:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 27.3 HSPF:8.80 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CV, Pstat
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Glass/Floor Area:0.128	Total Proposed Modified Loads: 44.14	PASS
	Total Baseline Loads: 48.19	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Will C. My</u> DATE: <u>4 / 4 / 2023</u> 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. <div style="text-align: center;">  </div> 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT														
Title:	Krygier Residence				Address type:	Street Address								
Building Type:	User				Lot #:	---								
Owner:	Steve & Gayle Krygier				Block/SubDivision:	---								
Builder Name:					PlatBook:	---								
Permit Office:	Columbia County				Street:	SW Mixon Road								
Jurisdiction:					County:	Columbia								
Family Type:	Detached				City, State, Zip:	Lake City, FL, 32024								
New/Existing:	New (From Plans)													
Year Construct:	2023													
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		1911		17199 cu ft									
SPACES														
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished Cooled Heated	
___ 1	1st Floor		1911		17199		Yes		6		3		Yes Yes Yes	
FLOORS (Total Exposed Area = 1911 sq.ft.)														
✓ #	Floor Type		Space		Exposed Perim		Perimeter R-Value		Area		U-Factor		Joist R-Value Tile Wood Carpet	
___ 1	Slab-On-Grade Edge Ins		1st Floor		181.33		0		1911 ft		0.304		--- 0.00 0.00 1.00	
ROOF														
✓ #	Type		Materials		Roof Area		Gable Area		Roof Color		Rad Barr		Solar Absor. SA Tested Emitt Tested Deck Insul. Pitch (deg)	
___ 1	Gable or shed		Metal		2137 ft²		478 ft²		Medium		Y 0.96		No 0.9 No 0 26.57	
ATTIC														
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC			
___ 1	Full attic		Vented		300		1911 ft²		Y		N			
CEILING (Total Exposed Area = 2007 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		2006.5ft²		0.024		0.11 Wood	

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1632 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	E	Exterior	Frame - Wood	1st Floor	13.0	33.0	4	9.0	0	300.0	0.084		0.23	0.75	0 %	
___ 2	S	Exterior	Frame - Wood	1st Floor	13.0	57.0	4	9.0	0	516.0	0.084		0.23	0.75	0 %	
___ 3	W	Exterior	Frame - Wood	1st Floor	13.0	33.0	4	9.0	0	300.0	0.084		0.23	0.75	0 %	
___ 4	N	Exterior	Frame - Wood	1st Floor	13.0	57.0	4	9.0	0	516.0	0.084		0.23	0.75	0 %	

DOORS (Total Exposed Area = 36 sq.ft.)											
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	N	Exterior	Insulated	1st Floor	None	0.46	5.00	4	6.00	8	35.6ft²

WINDOWS (Total Exposed Area = 245 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	E	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	7.5	1.0	None	None
___ 2	E	1	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	7.5	1.0	None	None
___ 3	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	75.0	5	3.00	5.00	7.5	1.0	None	None
___ 4	W	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	45.0	3	3.00	5.00	7.5	1.0	None	None
___ 5	N	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	40.0	4	2.00	5.00	7.5	1.0	None	None
___ 6	N	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	7.5	1.0	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00029	1433	78.63	147.62	0.1027	5.0	All	17199 cu ft

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 HeatPump----	Ducts	Block			
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF: 8.80	27.3		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		SEER:15.0	22.1	660	0.70	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	1st Floor	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	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	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	478 ft²	Attic	6.0	96 ft²	Default Leakage	1st Floor	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N										
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> 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* = 92

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

SW Mixon Road,Lake City,FL,32024

1. New construction or existing	New (From Plans)	10. Wall Types(1632.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1632.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1911	11. Ceiling Types(2006.6 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	2006.60 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Metal, Vented)	Deck R=0.0	2137 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	478
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	7.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	22.1	SEER:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	27.3	HSPF:8.80
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 50 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0		EF: 0.920	
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: _____ Date: _____

Address of New Home: SW Mixon Road

City/FL Zip: Lake City,FL,32024



*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.