

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Metzger Residence	Builder Name:	
Street:	329 SW William Young Ln	Permit Office:	Columbia County
City, State, Zip:	Lake City, FL, 32024	Permit Number:	
Owner:	Joseph & Cheryl Metzger	Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)
1. New construction or existing	New (From Plans)	10. Wall Types(3592.7 sqft.)	Insulation Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0 3379.70 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0 213.00 ft ²
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)	3216	11. Ceiling Types(3010.1 sqft.)	Insulation Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0 3010.10 ft ²
7. Windows(399.0 sqft)	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 3289 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R ft ²
SHGC		a. Sup: Attic, Ret: Attic, AH. 2nd Floor	6 804
c. U-Factor:	N/A	b.	
SHGC		c.	
Area Weighted Average Overhang Depth:	2 742 ft	14. Cooling Systems	kBtu/hr Efficiency
Area Weighted Average SHGC	0.250	a. Central Unit	58.5 SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	58.5 HSPF2:8.80
SHGC(AVG)	N/A	16. Hot Water Systems	
9. Floor Types	Insulation	a. Electric	Cap. 50 gallons
a. Crawlspace	R= 19.0	b. Conservation features	EF. 0.920
b. Floor over Garage	R= 19.0		
c. other (see details)	R=	17. Credits	None
			CV, Pstat

Glass/Floor Area: 0.124

Total Proposed Modified Loads: 87.20

PASS

Total Baseline Loads: 94.50

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 WMC/M

DATE: 7/23/2025

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: 

- 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT**PROJECT**

Title	Metzger Residence	Address type	Street Address
Building Type	User	Lot #	---
Owner	Joseph & Cheryl Metzger	Block/SubDivision	---
Builder Home ID		PlatBook	---
Builder Name		Street	329 SW William Young Ln
Permit Office	Columbia County	County	Columbia
Jurisdiction		City, State, Zip	Lake City, FL, 32024
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	3216	27985 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	1st Floor	2257	20313	Yes	6	2	Yes	Yes	Yes
2	2nd Floor	959	7672	No	4	1	Yes	Yes	Yes

FLOORS (Total Exposed Area = 2737 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim	U-Factor Joist	Slab Insul Vert/Horiz	Tile	Wood	Carpet
1	Crawlspace	1st Floor	274	2257 sqft	0.0	19.0	0.047	----	0.00	0.00
2	Floor over Garage	2nd Floor	---	479.5 sqft	---	19.0	0.046	----	0.00	0.00
3	Floor Over Other Space	2nd Floor	---	479.5 sqft	---	19.0	0.046	----	0.00	0.00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Framing Fract	Roof Color	Rad Barr	Solar Absor	SA Tested	Emiss	Emiss Tested	Deck Insul	Pitch (deg)
1	Gable or shed	Composition shingles	3289 ft ²	510 ft ²	0.11	Medium	Y	0.96	No	0.9	No	0	33.69

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Partial cathedral ceiling	Vented	300	2737 ft ²	Y	N

INPUT SUMMARY CHECKLIST REPORT

CEILING (Total Exposed Area = 3010 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	1955.3ft ²	0.024	0.11	Wood								
— 2	Flat ceiling under attic(Vented)	2nd Floor	38.0	Blown	1054.9ft ²	0.024	0.11	Wood								
WALLS (Total Exposed Area = 3593 sq.ft.)																
✓ #	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	S	Exterior	Frame - Wood	13.0	17 0 4	9 0 0	156.0	0.084	0.23	0.75	0 %					
— 2	W	Exterior	Frame - Wood	13.0	5 0 0	9 0 0	45.0	0.084	0.23	0.75	0 %					
— 3	S	Exterior	Frame - Wood	13.0	12 0 0	9 0 0	108.0	0.084	0.23	0.75	0 %					
— 4	E	Exterior	Frame - Wood	13.0	6 0 0	9 0 0	54.0	0.084	0.23	0.75	0 %					
— 5	S	Exterior	Frame - Wood	13.0	16 0 0	13 0 6	216.0	0.084	0.23	0.75	0 %					
— 6	W	Exterior	Frame - Wood	13.0	6 0 0	9 0 0	54.0	0.084	0.23	0.75	0 %					
— 7	S	Exterior	Frame - Wood	13.0	14 0 0	9 0 0	126.0	0.084	0.23	0.75	0 %					
— 8	E	Exterior	Frame - Wood	13.0	5 0 0	9 0 0	45.0	0.084	0.23	0.75	0 %					
— 9	S	Exterior	Frame - Wood	13.0	10 0 0	9 0 0	90.0	0.084	0.23	0.75	0 %					
— 10	E	Exterior	Frame - Wood	13.0	19 0 2	9 0 0	172.5	0.084	0.23	0.75	0 %					
— 11	N	Garage	Frame - Wood	13.0	23 0 8	9 0 0	213.0	0.084	0.23	0.75	0 %					
— 12	E	Exterior	Frame - Wood	13.0	21 0 10	9 0 0	196.5	0.084	0.23	0.75	0 %					
— 13	N	Exterior	Frame - Wood	13.0	9 0 0	9 0 0	81.0	0.084	0.23	0.75	0 %					
— 14	W	Exterior	Frame - Wood	13.0	9 0 0	9 0 0	81.0	0.084	0.23	0.75	0 %					
— 15	N	Exterior	Frame - Wood	13.0	22 0 4	9 0 0	201.0	0.084	0.23	0.75	0 %					
— 16	E	Exterior	Frame - Wood	13.0	13 0 8	10 0 0	136.7	0.084	0.23	0.75	0 %					
— 17	N	Exterior	Frame - Wood	13.0	16 0 0	10 0 0	160.0	0.084	0.23	0.75	0 %					
— 18	W	Exterior	Frame - Wood	13.0	14 0 0	10 0 0	140.0	0.084	0.23	0.75	0 %					
— 19	W	Exterior	Frame - Wood	13.0	31 0 8	9 0 0	285.0	0.084	0.23	0.75	0 %					
— 20	S	Exterior	Frame - Wood	13.0	19 0 0	8 0 0	152.0	0.084	0.23	0.75	0 %					
— 21	E	Exterior	Frame - Wood	13.0	43 0 0	8 0 0	344.0	0.084	0.23	0.75	0 %					
— 22	N	Exterior	Frame - Wood	13.0	14 0 0	8 0 0	112.0	0.084	0.23	0.75	0 %					
— 23	W	Exterior	Frame - Wood	13.0	17 0 0	8 0 0	136.0	0.084	0.23	0.75	0 %					
— 24	N	Exterior	Frame - Wood	13.0	18 0 0	8 0 0	144.0	0.084	0.23	0.75	0 %					
— 25	S	Exterior	Frame - Wood	13.0	18 0 0	8 0 0	144.0	0.084	0.23	0.75	0 %					
DOORS (Total Exposed Area = 44 sq.ft.)																
✓ #	Adjacent To	Door Type	Space	Storms		U-Value	Width Ft In	Height Ft In	Area							
— 1	S	Exterior	Insulated	1st Floor		None	0 46	3 00 0	8 00 0	24 0ft ²						
— 2	E	Exterior	Insulated	1st Floor		None	0 46	3 00 0	6 00 8	20 0ft ²						
WINDOWS (Total Exposed Area = 399 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)	Sep (ft)	Interior Shade	Screen
— 1	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	18.0	1	3.00	6.00	1.5	1.0	None	None
— 2	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	36.0	2	3.00	6.00	1.0	3.0	None	None
— 3	S	5	Vinyl	Low-E Double	Y	0.36	0.25	N	36.0	2	3.00	6.00	8.5	1.0	None	None
— 4	S	7	Vinyl	Low-E Double	Y	0.36	0.25	N	36.0	2	3.00	6.00	1.0	3.0	None	None
— 5	S	9	Vinyl	Low-E Double	Y	0.36	0.25	N	6.0	1	3.00	2.00	1.5	1.0	None	None
— 6	E	10	Vinyl	Low-E Double	Y	0.36	0.25	N	9.0	1	3.00	3.00	1.5	1.0	None	None
— 7	N	13	Vinyl	Low-E Double	Y	0.36	0.25	N	6.0	1	2.00	3.00	1.5	1.0	None	None
— 8	N	15	Vinyl	Low-E Double	Y	0.36	0.25	N	16.0	1	4.00	4.00	10.5	1.0	None	None
— 9	N	15	Vinyl	Low-E Double	Y	0.36	0.25	N	9.0	1	3.00	3.00	10.5	1.0	None	None
— 10	E	16	Metal	Low-E Double	Y	0.36	0.25	N	64.0	1	8.00	8.00	2.5	1.0	None	None
— 11	N	17	TIM	Low-E Double	Y	0.36	0.25	N	60.0	3	3.00	6.67	1.5	1.0	None	None

INPUT SUMMARY CHECKLIST REPORT**WINDOWS(Continued)**

12W	18	Vinyl	Low-E Double	Y	0 36	0 25	N	N	40 0	2	3 00	6 67	1 5	1 0	None	None
13W	19	Vinyl	Low-E Double	Y	0 36	0 25	N	N	14 0	2	3 50	2 00	1 5	1 0	None	None
14W	19	Vinyl	Low-E Double	Y	0 36	0 25	N	N	18 0	1	3 00	6 00	1 5	1 0	None	None
15S	1	Vinyl	Low-E Double	Y	0 36	0 25	N	N	12 0	1	4 00	3 00	1 5	1 0	None	None
16S	20	Vinyl	Low-E Double	Y	0 36	0 25	N	N	4 0	1	2 00	2 00	1 0	3 0	None	None
17N	22	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 0	2 0	None	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
— 1	Wholehouse	Proposed ACH(50)	0 00039	3265	179 12	336 28	0 1872	7 0	All	27985 cu ft

GARAGE

✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond	Avg Wall Height	Exposed Wall Insulation
— 1	564 ft ²	23 7 ft ²	23 8 ft ²	564 ft ²	50 ft	85 ft	11 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
— 1	Default(8 lbs/sq ft)	0 ft ²	0 ft	0 30	1st Floor
— 2	Default(8 lbs/sq ft)	0 ft ²	0 ft	0 30	2nd Floor

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Entry	Geothermal Power	HeatPump Volt	Ducts Current	Block
— 1	Electric Heat Pump	None/Single		HSPF2 8 80	58 5		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 5	58 5		1755	0 70	sys#1 1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt Flow	Trap	Pipe Ins	Pipe length
— 1	Electric	None	Garage	0 92 (0 92)	50 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	NA	NA	NA	NA	None

INPUT SUMMARY CHECKLIST REPORT

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 Attic	6 0	804 ft ²	Attic	6 0	161 ft ²	Default Leakage	2nd Floor	(Default)	(Default)				1	1
TEMPERATURES														
Programmable Thermostat Y 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 type="checkbox"/> Jul <input type="checkbox"/> Aug <input 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 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 type="checkbox"/> Dec														
✓ Thermostat Schedule	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	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 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	68 68	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

329 SW William Young Ln, Lake City, FL, 32024

1. New construction or existing	New (From Plans)	10. Wall Types (3592.7 sqft)	Insulation	Area
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3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	213.00 ft ²
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)	3216	11. Ceiling Types (3010.1 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	3010.10 ft ²
7. Windows**	Description	12. Roof (Comp. Shingles, Vented)	Deck R=0	3289 ft ²
a. U-Factor:	Dbl, U=0.36	b. Ducts, location & insulation level	R	ft ²
SHGC:	SHGC=0.25	a. Sup: Attic, Ret: Attic, AH: 2nd Floor	6	804
b. U-Factor:	N/A	b.		
SHGC:		c.		
c. U-Factor:	N/A	14. Cooling Systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	58.5	SEER2.15.50
Area Weighted Average Overhang Depth:	2.742 ft	15. Heating Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Electric Heat Pump	58.5	HSPF2.8 80
8. Skylights	Description	16. Hot Water Systems		
U-Factor:(AVG)	N/A	a. Electric	Cap	50 gallons
SHGC(AVG):	N/A	b. Conservation features	EF:	0.920
9. Floor Types	Insulation	17. Credits		None
a. Crawlspace	R= 19.0			CV, Pstat
b. Floor over Garage	R= 19.0			
c. other (see details)	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: _____ Date: _____

Address of New Home: 329 SW William Young Ln 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

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:
Job Information	
Builder:	Community.
Address:	329 SW William Young Ln
City:	Lake City
	State: FL
	Zip: 32024
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
<input type="radio"/> PRESCRIPTIVE METHOD -The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g (50 Pascals) in Climate Zones 1 and 2	
<input checked="" type="radio"/> PERFORMANCE or ERI METHOD -The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as Infiltration, sub-section ACH50 ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7 000	
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div 27985 = \text{ACH}(50)$	
<input type="checkbox"/> PASS	
<input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department	
Method for calculating building volume:	
<input type="radio"/> Retrieved from architectural plans	
<input checked="" type="radio"/> Code software calculated	
<input type="radio"/> Field measured and calculated	
R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the <i>Florida Building Code, Residential</i> . Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statutes</i> , or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>local official</i> . Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i> . During testing 1 Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures 2 Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures 3 Interior doors, if installed at the time of the test, shall be open 4 Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed 5 Heating and cooling systems, if installed at the time of the test, shall be turned off 6 Supply and return registers, if installed at the time of the test, shall be fully open 7 If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home	
Testing Company	
Company Name _____ Phone _____ I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above	
Signature of Tester: _____ Date of Test: _____	
Printed Name of Tester: _____	
License/Certification #: _____ Issuing Authority: _____	