

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION****Florida Department of Business and Professional Regulation - Residential Performance Method**

<b>Project Name:</b> 188 SW Birch Glen <b>Street:</b> 188 SW Birch Glen <b>City, State, Zip:</b> Lake City, FL, 32024 <b>Owner:</b> Yasmanis <b>Design Location:</b> FL, Gainesville	<b>Builder Name:</b> <b>Permit Office:</b> Columbia County <b>Permit Number:</b> <b>Jurisdiction:</b> <b>County:</b> 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      4 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      1826 Conditioned floor area below grade (ft²)      0 7. Windows(148.4 sqft.)      Description      Area a U-Factor.      DbI, U=0.36      148.39 ft² SHGC:      SHGC=0.25 b U-Factor:      N/A      ft² SHGC: c. U-Factor      N/A      ft² SHGC: Area Weighted Average Overhang Depth:      3.387 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      1826.00 ft² b. N/A      R=      ft² c. N/A      R=      ft²	10. Wall Types(1661.3 sqft.)      Insulation      Area a. Concrete Block - Int Insul, Exterior      R=4.2      1416.00 ft² b. Frame - Wood, Adjacent      R=13.0      245.33 ft² c. N/A d. N/A 11. Ceiling Types(2008.6 sqft.)      Insulation      Area a. Flat ceiling under att (Vented)      R=38.0      2008.60 ft² b N/A c. N/A 12. Roof(Comp Shingles, Vented) Deck R=0.0      1978 ft² 13. Ducts, location & insulation level      R      ft² a Sup Attic, Ret: Attic, AH: 1st Floor      6      457 b. c 14. Cooling Systems      kBtu/hr      Efficiency a Central Unit      23.5      SEER2:15.50  15. Heating Systems      kBtu/hr      Efficiency a Electric Heat Pump      30.6      HSPF2:8.80  16. Hot Water Systems a Electric Tankless      Cap 1 gallons EF: 0.920 b. Conservation features      None 17. Credits      CV, Pstat
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Glass/Floor Area:0.081	Total Proposed Modified Loads: 47.47	<b>PASS</b>
	Total Baseline Loads: 49.95	

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  <b>PREPARED BY:</b> <u>Will C. [Signature]</u> <b>DATE:</b> <u>01 / 22 / 2025</u>  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code <b>OWNER/AGENT:</b> _____ <b>DATE:</b> _____	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.  <b>BUILDING OFFICIAL:</b> _____ <b>DATE:</b> _____
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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 7.00 ACH50 (R402.4.1.2).

## INPUT SUMMARY CHECKLIST REPORT

PROJECT																							
Title	188 SW Birch Glen				Address type	Street Address																	
Building Type	User				Lot #	---																	
Owner	Yasmanis				Block/SubDivision	---																	
Builder Home ID					PlatBook	---																	
Builder Name					Street	188 SW Birch Glen																	
Permit Office	Columbia County				County	Columbia																	
Jurisdiction					City, State, Zip	Lake City, FL, 32024																	
Family Type	Detached				Whole House Fan	No																	
New/Existing	New (From Plans)				Terrain	Suburban																	
Year Construct	2025				Shielding	Suburban																	
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		1826		14608 cu ft																		
SPACES																							
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated						
___ 1	1st Floor		1826		14608		Yes		8		4		Yes		Yes		Yes						
FLOORS (Total Exposed Area = 1826 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		208		1826 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	Hip		Composition shingles		1978 ft²		0 ft²		0 11		Medium		Y		0 96		No		0 9		No		0 22 62
ATTIC																							
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC												
___ 1	Full attic		Vented		300		1826 ft²		Y		N												
CEILING (Total Exposed Area = 2009 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		2008 6ft²		0 024		0 11		Wood								

## INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1661 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	S	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	12 0	4	8 0	0	98 7	0 147		0	0 75	0 %		
___ 2	S	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	8 0	0	8 0	0	64 0	0 147		0	0 75	0 %		
___ 3	S	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	6 0	0	8 0	0	48 0	0 147		0	0 75	0 %		
___ 4	W	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	5 0	0	8 0	0	40 0	0 147		0	0 75	0 %		
___ 5	S	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	15 3	0	8 0	0	122 6	0 147		0	0 75	0 %		
___ 6	E	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	42 0	4	8 0	0	338 7	0 147		0	0 75	0 %		
___ 7	N	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	15 0	4	8 0	0	122 7	0 147		0	0 75	0 %		
___ 8	W	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	7 0	4	8 0	0	58 7	0 147		0	0 75	0 %		
___ 9	N	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	12 0	0	8 0	0	96 0	0 147		0	0 75	0 %		
___ 10	N	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	34 0	4	8 0	0	274 7	0 147		0	0 75	0 %		
___ 11	W	Exterior	Conc. Blk - Int Ins	1st Floor	4 2	19 0	0	8 0	0	152 0	0 147		0	0 75	0 %		
___ 12	S	Garage	Frame - Wood	1st Floor	13 0	19 0	4	8 0	0	154 7	0 084		0 23	0 75	0 %		
___ 13	W	Garage	Frame - Wood	1st Floor	13 0	11 0	4	8 0	0	90 7	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	In	Height Ft	In	Area		
___ 1	S	Exterior	Insulated	1st Floor	None	0 46	3 00	0	6 00	8	20 0ft²		
___ 2	W	Exterior	Insulated	1st Floor	None	0 46	3 00	0	6 00	8	20 0ft²		

WINDOWS														(Total Exposed Area = 148 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	S	1	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 5	1 0	None	None
___ 2	S	3	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 5	1 0	None	None
___ 3	S	5	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 5	1 0	None	None
___ 4	E	6	Vinyl	Low-E Double	Y	0 36	0 25	N	N	4 7	1	2 17	2 17	1 5	1 0	None	None
___ 5	E	6	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 5	1 0	None	None
___ 6	N	7	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 5	1 0	None	None
___ 7	N	9	TIM	Low-E Double	Y	0 36	0 25	N	N	40 0	2	3 00	6 67	8 5	1 0	None	None
___ 8	N	10	Vinyl	Low-E Double	Y	0 36	0 25	N	N	9 0	1	3 00	3 00	1 5	1 0	None	None
___ 9	N	10	Vinyl	Low-E Double	Y	0 36	0 25	N	N	4 7	1	2 17	2 17	1 5	1 0	None	None
___ 10W		11	Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0	1	3 00	5 00	1 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 00036	1704	93 50	175 54	0 1372	7 0	All	14608 cu ft

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond	Avg Wall Height	Exposed Wall Insulation
___ 1	400 ft²	20 0 ft²	20 0 ft²	400 ft²	48 ft	400 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

## INPUT SUMMARY CHECKLIST REPORT

## HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	-----Geothermal HeatPump----- Entry Power Volt Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2 8 80	30 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	23 5	690	0 75	sys#1	1

## HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt Flow	Trap	Pipe Ins	Pipe length
___ 1	Electric	Tankless	Garage	0 92 (0 92)	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 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 0 457 ft²	Attic 6 0 91 ft²	Default Leakage	1st Floor	(Default) (Default)				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	Hours											
Schedule Type		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	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\* = 95

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

188 SW Birch Glen,Lake City,FL,32024

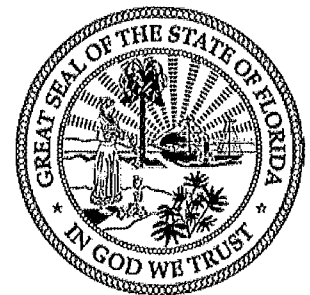
1. New construction or existing	New (From Plans)	10. Wall Types(1661.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=4.2	1416.00 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	245.33 ft <sup>2</sup>
4. Number of Bedrooms	4	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft <sup>2</sup> )	1826	11. Ceiling Types(2008.6 sqft.)	Insulation	Area
Conditioned floor area below grade (ft <sup>2</sup> )	0	a. Flat ceiling under att (Vented)	R=38.0	2008 60 ft <sup>2</sup>
7. Windows**	Description	b. N/A		
a. U-Factor	DbI, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1978 ft <sup>2</sup>
b. U-Factor	N/A	13. Ducts, location & insulation level		R ft <sup>2</sup>
SHGC:		a. Sup: Attic, Ret. Attic, AH: 1st Floor		6 457
c. U-Factor	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	3.387 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	23.5	SEER2:15.50
8. Skylights	Description	Area		
U-Factor:(AVG)	N/A	N/A ft <sup>2</sup>		
SHGC:(AVG).	N/A	15. Heating Systems	kBtu/hr	Efficiency
		a. Electric Heat Pump	30.5	HSPF2 8.80
9. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R= 0.0	1826.00 ft <sup>2</sup>		
b. N/A	R=	ft <sup>2</sup>		
c. N/A	R=	ft <sup>2</sup>		
		16. Hot Water Systems		
		a. Electric Tankless		Cap: 1 gallons
				EF: 0.920
		b. Conservation features		
				None
		17. Credits		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. 188 SW Birch Glen

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 #:
<b>Job Information</b>	
Builder:	Community:
Lot: NA	
Address: 188 SW Birch Glen	
City: Lake City	State: FL
Zip: 32024	
<b>Air Leakage Test Results</b> <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
<input type="radio"/> <b>PRESCRIPTIVE METHOD</b> 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"/> <b>PERFORMANCE or ERI METHOD</b> 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). <span style="border: 1px solid black; padding: 2px 10px;">7.000</span>	
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <math display="block">\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{14608}{\text{ACH}(50)} =</math> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 10px;"></div> <div style="font-size: 24px; font-weight: bold;">PASS</div> </div> <div style="margin-top: 10px;"> <input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.         </div> </div> <div style="width: 35%;"> <p><u>Method for calculating building volume.</u></p> <input type="radio"/> Retrieved from architectural plans  <input checked="" type="radio"/> Code software calculated  <input type="radio"/> Field measured and calculated         </div> </div>	
<p><b>R402.4.1.2 Testing.</b> 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 Florida Building Code, Residential. 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), Florida Statutes, 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 code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.</p> <p><b>During testing</b></p> <ol style="list-style-type: none"> <li>1 Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures</li> <li>2 Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures</li> <li>3 Interior doors, if installed at the time of the test, shall be open</li> <li>4 Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed</li> <li>5 Heating and cooling systems, if installed at the time of the test, shall be turned off</li> <li>6 Supply and return registers, if installed at the time of the test, shall be fully open</li> <li>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</li> </ol>	
<b>Testing Company</b>	
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: _____	