

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

<b>Project Name:</b> Bell Res_ <b>Street:</b> 255 Sugar Cane Lane <b>City, State, Zip:</b> Lake City, FL, 32055 <b>Owner:</b> The Bell's <b>Design Location:</b> FL, Gainesville	<b>Builder Name:</b> Seth Heitzman Construction <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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Glass/Floor Area: 0.170	Total Proposed Modified Loads: 59.68	<b>PASS</b>
	Total Baseline Loads: 63.56	

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>02 / 03 / 2024</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.  <div style="text-align: center;">     <b>BUILDING OFFICIAL:</b> _____  <b>DATE:</b> _____         </div>
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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.
- 1 of the 1 duct systems requires a Duct Leakage Test Report. Systems with Default duct leakage do not require this 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:	Bell Res_	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	2302	Lot #:	---
Owner:	The Bell's	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:	Seth Heitzman Construction	Rotate Angle:	0	Street:	255 Sugar Cane Lane
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32055
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2024				
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	2302	20718 cu ft

## SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	1st Floor	2302	20718	Yes	8	4	Yes	Yes	Yes

## FLOORS

(Total Exposed Area = 2302 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	265.33	2302 sqft	0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00

## ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	2767 ft²	0 ft²	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	2302 ft²	Y	N

## CEILING

(Total Exposed Area = 2532 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	2532.0ft²	0.024	0.11	Wood



## INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2522 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	Frame - Wood	1st Floor	13.0	18.0	8	10.0	0	186.7	0.084		0.23	0.75	0 %			
___ 2	W	Exterior	Frame - Wood	1st Floor	13.0	3.0	0	10.0	0	30.0	0.084		0.23	0.75	0 %			
___ 3	S	Exterior	Frame - Wood	1st Floor	13.0	11.0	4	10.0	0	113.3	0.084		0.23	0.75	0 %			
___ 4	W	Exterior	Frame - Wood	1st Floor	13.0	4.0	4	9.0	0	39.0	0.084		0.23	0.75	0 %			
___ 5	S	Exterior	Frame - Wood	1st Floor	13.0	14.0	0	9.0	0	126.0	0.084		0.23	0.75	0 %			
___ 6	E	Exterior	Frame - Wood	1st Floor	13.0	45.0	4	9.0	0	408.0	0.084		0.23	0.75	0 %			
___ 7	N	Exterior	Frame - Wood	1st Floor	13.0	11.0	8	9.0	0	105.0	0.084		0.23	0.75	0 %			
___ 8	W	Exterior	Frame - Wood	1st Floor	13.0	10.0	0	9.0	0	90.0	0.084		0.23	0.75	0 %			
___ 9	N	Exterior	Frame - Wood	1st Floor	13.0	21.0	4	10.0	0	213.3	0.084		0.23	0.75	0 %			
___ 10	E	Exterior	Frame - Wood	1st Floor	13.0	10.0	0	10.0	0	100.0	0.084		0.23	0.75	0 %			
___ 11	N	Exterior	Frame - Wood	1st Floor	13.0	10.0	4	10.0	0	103.3	0.084		0.23	0.75	0 %			
___ 12	E	Exterior	Frame - Wood	1st Floor	13.0	10.0	0	10.0	0	100.0	0.084		0.23	0.75	0 %			
___ 13	N	Exterior	Frame - Wood	1st Floor	13.0	24.0	0	10.0	0	240.0	0.084		0.23	0.75	0 %			
___ 14	W	Exterior	Frame - Wood	1st Floor	13.0	31.0	8	9.0	0	285.0	0.084		0.23	0.75	0 %			
___ 15	S	Garage	Frame - Wood	1st Floor	13.0	24.0	0	9.0	0	216.0	0.084		0.23	0.75	0 %			
___ 16	W	Garage	Frame - Wood	1st Floor	13.0	16.0	8	10.0	0	166.7	0.084		0.23	0.75	0 %			

DOORS												(Total Exposed Area = 44 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	8.00	0	24.0ft²		
___ 2	S	Garage	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS																	(Total Exposed Area = 391 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	18.0	1	3.00	6.00	8.5	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	30.0	3	2.00	5.00	1.0	4.0	None	None	
___ 4	E	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.5	1.0	None	None	
___ 5	E	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	1.0	None	None	
___ 6	W	8	TIM	Low-E Double	Y	0.36	0.25	N	N	17.8	1	2.67	6.67	5.5	1.0	None	None	
___ 7	N	9	TIM	Low-E Double	Y	0.36	0.25	N	N	128.0	6	2.67	8.00	11.5	1.0	None	None	
___ 8	E	10	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	3	2.00	6.00	4.5	1.0	None	None	
___ 9	N	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	3	2.00	6.00	1.5	1.0	None	None	
___ 10	E	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.0	1	3.00	6.00	1.5	1.0	None	None	
___ 11	N	13	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	3	2.00	6.00	1.5	1.0	None	None	
___ 12	W	14	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None	
___ 13	W	14	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	1.0	None	None	
___ 14	W	14	Vinyl	Low-E Double	Y	0.36	0.25	N	N	12.0	3	2.00	2.00	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)	0.00040	2417	132.61	248.96	0.1438	7.0	All	20718 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	720 ft²	720 ft²	67 ft	9 ft	1

## INPUT SUMMARY CHECKLIST REPORT

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--- Entry Power Volt Current				Ducts	Block
1	Electric Heat Pump	None/Single		HSPF2: 8.80	39.2	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	32.0	960	0.70	sys#1	1

HOT WATER SYSTEM										
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
1	Electric	None	Garage	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 #	Location	Supply R-Value	Area	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool	
1	Attic	6.0	576 ft²	Attic	6.0	115 ft²	Default Leakage	Garage	(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												
	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
—	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
—	Heating (WD)	AM PM	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	68 68	68 68	68 68	68 68	68 68	68 66	68 66

**ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD****ESTIMATED ENERGY PERFORMANCE INDEX\* = 94**

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

255 Sugar Cane Lane,Lake City,FL,32055

1. New construction or existing	New (From Plans)	10. Wall Types(2522.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	2139.70 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	382.67 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> )	2302	11. Ceiling Types(2532.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft <sup>2</sup> )	0	a. Flat ceiling under att (Vented)	R=38.0	2532.00 ft <sup>2</sup>
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		2767 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: Garage	6	576
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	5.518 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	32.0	SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	39.2	HSPF2:8.80
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric		Cap: 50 gallons
b. N/A	R=			EF: 0.920
c. N/A	R=	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: 255 Sugar Cane Lane

City/FL Zip: Lake City,FL,32055



\*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: Seth Heitzman Construction    Community:    Lot: NA	
Address: 255 Sugar Cane Lane	
City: Lake City	State: FL    Zip: 32055
<b>Air Leakage Test Results</b> <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><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.</div> <div style="border: 1px solid black; padding: 5px;"><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. <div style="display: flex; justify-content: space-between; align-items: center;"><span><i>ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI):</i></span><div style="border: 1px solid black; padding: 2px 10px;">7.000</div></div></div>	
<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{20718}{\text{ACH}(50)} =</math><div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"><b>PASS</b></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%;"><b>Method for calculating building volume:</b> <div style="margin-top: 10px;"><input type="radio"/> Retrieved from architectural plans <input checked="" type="radio"/> Code software calculated <input type="radio"/> Field measured and calculated</div></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 <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 <del>trade</del> official. Testing shall be performed at any time after creation of all penetrations of the <del>building</del> thermal envelope.</p> <p>During testing:</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>	
<div style="display: flex; justify-content: space-between;"><div>Company Name: _____</div><div>Phone: _____</div></div> <p>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.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"><div>Signature of Tester: _____</div><div>Date of Test: _____</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Printed Name of Tester: _____</div><div></div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>License/Certification #: _____</div><div>Issuing Authority: _____</div></div>	