



# INPUT SUMMARY CHECKLIST REPORT

PROJECT														
Title:	Lot 10 River Rise SD				Address type:	Street Address								
Building Type:	User		Bedrooms:	5	Lot #:	---								
Owner:	Lee Holloway		Conditioned Area:	3680	Block/SubDivision:	---								
Builder Home ID:			Total Stories:	2	PlatBook:	---								
Builder Name:			Worst Case:	No	Street:	280 SW Marynik Dr								
Permit Office:	Columbia County		Rotate Angle:	0	County:	Columbia								
Jurisdiction:			Cross Ventilation:	Yes	City, State, Zip:	High Springs, FL, 32643								
Family Type:	Detached		Whole House Fan:	No										
New/Existing:	New (From Plans)		Terrain:	Suburban										
Year Construct:	2026		Shielding:	Suburban										
Comment:														
CLIMATE														
<input checked="" type="checkbox"/>	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														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume										
___	1	Block1	3680	35478 cu ft										
SPACES														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___	1	1st Floor	3019	30190	Yes	8	4	Yes	Yes	Yes				
___	2	2nd Floor	661	5288	No	2	1	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 3680 sq.ft.)														
<input checked="" type="checkbox"/>	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
___	1	Slab-On-Grade Edge Ins	1st Floor	312.4	3019 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00		
___	2	Floor over Garage	2nd Floor	---	661 sqft	---	19.0	0.046	-----	0.00	0.00	1.00		
ROOF														
<input checked="" type="checkbox"/>	#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
___	1	Gable or shed	Composition shingles	4791 ft²	858 ft²	0.11	Medium	Y	0.96	No	0.9	No	0	39.81
ATTIC														
<input checked="" type="checkbox"/>	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
___	1	Partial cathedral ceiling	Vented	300	3680 ft²	Y	N							

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CEILING													(Total Exposed Area = 4048 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	3321.0ft²	0.024	0.11	Wood							
___ 2	Flat ceiling under attic(Vented)	2nd Floor	38.0	Batt	727.0ft²	0.040	0.11	Wood							

WALLS													(Total Exposed Area = 4103 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	16.0	0	10.0	0	160.0	0.084		0.23	0.75	0 %
___ 2	N	Exterior	Frame - Wood	1st Floor	13.0	6.0	6	10.0	0	65.0	0.084		0.23	0.75	0 %
___ 3	E	Exterior	Frame - Wood	1st Floor	13.0	10.0	0	10.0	0	100.0	0.084		0.23	0.75	0 %
___ 4	S	Exterior	Frame - Wood	1st Floor	13.0	6.0	6	11.0	0	71.5	0.084		0.23	0.75	0 %
___ 5	E	Exterior	Frame - Wood	1st Floor	13.0	36.0	8	11.0	0	403.3	0.084		0.23	0.75	0 %
___ 6	N	Exterior	Frame - Wood	1st Floor	13.0	4.0	4	11.0	0	47.7	0.084		0.23	0.75	0 %
___ 7	E	Exterior	Frame - Wood	1st Floor	13.0	10.0	0	10.0	0	100.0	0.084		0.23	0.75	0 %
___ 8	S	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0 %
___ 9	E	Exterior	Frame - Wood	1st Floor	13.0	12.0	0	10.0	0	120.0	0.084		0.23	0.75	0 %
___ 10	N	Exterior	Frame - Wood	1st Floor	13.0	20.0	0	10.0	0	200.0	0.084		0.23	0.75	0 %
___ 11	W	Exterior	Frame - Wood	1st Floor	13.0	4.0	8	10.0	0	46.7	0.084		0.23	0.75	0 %
___ 12	N	Exterior	Frame - Wood	1st Floor	13.0	29.0	4	10.0	0	293.3	0.084		0.23	0.75	0 %
___ 13	W	Exterior	Frame - Wood	1st Floor	13.0	17.0	8	10.0	0	176.7	0.084		0.23	0.75	0 %
___ 14	S	Exterior	Frame - Wood	1st Floor	13.0	14.0	8	10.0	0	146.7	0.084		0.23	0.75	0 %
___ 15	W	Exterior	Frame - Wood	1st Floor	13.0	36.0	0	10.0	0	360.0	0.084		0.23	0.75	0 %
___ 16	N	Exterior	Frame - Wood	1st Floor	13.0	9.0	4	10.0	0	93.3	0.084		0.23	0.75	0 %
___ 17	W	Garage	Frame - Wood	1st Floor	13.0	26.0	4	10.0	0	263.3	0.084		0.23	0.75	0 %
___ 18	S	Exterior	Frame - Wood	1st Floor	13.0	42.0	4	10.0	0	423.3	0.084		0.23	0.75	0 %
___ 19	N	Exterior	Frame - Wood	2nd Floor	13.0	22.0	4	8.0	0	178.7	0.084		0.23	0.75	0 %
___ 20	E	Exterior	Frame - Wood	2nd Floor	13.0	6.0	8	8.0	0	53.3	0.084		0.23	0.75	0 %
___ 21	N	Exterior	Frame - Wood	2nd Floor	13.0	12.0	0	8.0	0	96.0	0.084		0.23	0.75	0 %
___ 22	W	Exterior	Frame - Wood	2nd Floor	13.0	6.0	8	8.0	0	53.3	0.084		0.23	0.75	0 %
___ 23	N	Exterior	Frame - Wood	2nd Floor	13.0	9.0	6	8.0	0	76.0	0.084		0.23	0.75	0 %
___ 24	W	Exterior	Frame - Wood	2nd Floor	13.0	13.0	8	8.0	0	109.3	0.084		0.23	0.75	0 %
___ 25	S	Exterior	Frame - Wood	2nd Floor	13.0	9.0	6	8.0	0	76.0	0.084		0.23	0.75	0 %
___ 26	W	Exterior	Frame - Wood	2nd Floor	13.0	6.0	8	8.0	0	53.3	0.084		0.23	0.75	0 %
___ 27	S	Exterior	Frame - Wood	2nd Floor	13.0	12.0	0	8.0	0	96.0	0.084		0.23	0.75	0 %
___ 28	E	Exterior	Frame - Wood	2nd Floor	13.0	6.0	8	8.0	0	53.3	0.084		0.23	0.75	0 %
___ 29	S	Exterior	Frame - Wood	2nd Floor	13.0	13.0	4	8.0	0	106.7	0.084		0.23	0.75	0 %

DOORS													(Total Exposed Area = 45 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
___ 1	W	Garage	Insulated	1st Floor	None	0.46	3.00	0	8.00	0	24.0ft²				
___ 2	N	Exterior	Insulated	1st Floor	None	0.46	2.00	8	8.00	0	21.3ft²				

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WINDOWS (Total Exposed Area = 498 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	36.0	2	3.00	6.00	1.0	2.0	None	None
___ 2	E	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	10.0	1	2.00	5.00	10.5	1.0	None	None
___ 3	E	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	105.0	6	2.50	7.00	8.5	1.0	None	None
___ 4	E	5	TIM	Low-E Double	Y	0.36	0.25	N	N	48.0	1	6.00	8.00	8.5	1.0	None	None
___ 5	E	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	10.0	1	2.00	5.00	1.5	10.0	None	None
___ 6	E	9	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	1.0	3.0	None	None
___ 7	N	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
___ 8	W	13	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	1.0	3.0	None	None
___ 9	W	15	Metal	Low-E Double	Y	0.36	0.25	N	N	128.0	1	16.00	8.00	17.5	1.0	None	None
___ 10	W	15	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	17.5	1.0	None	None
___ 11	S	18	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	1.5	1.0	None	None
___ 12	S	18	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	1.0	None	None
___ 13	S	18	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	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)	0.00043	4139	227.08	426.32	0.1950	7.0	All	35478 cu ft	

GARAGE									
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation	
___ 1	869 ft²	26.3 ft²	33.0 ft²	869 ft²	92 ft	208 ft	9 ft	1	

MASS						
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space	
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor	
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	2nd 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		HSPF2: 8.80	59.9		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		SEER2:15.0	51.5	1560	0.75	sys#1	1

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## 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	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 SEALED	AHU RLF	HVAC # Heat Cool
___ 1	Attic	6.0	920 ft²	Attic	6.0	184 ft²	Default Leakage	Garage	(Default)	(Default)		1 1

## TEMPERATURES

Programable Thermostat: Y      Ceiling Fans: N  
 Cooling  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec  
 Heating  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec  
 Venting  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

√ Thermostat Schedule: HERS 2006 Reference	Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 80	78 80	78 78	80 78	80 78	80 78						
___ Cooling (WEH)	AM PM	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.

280 SW Marynik Dr,High Springs,FL,32643

<p>1. New construction or existing                  2. Single family or multiple family                  3. Number of units, if multiple family                  4. Number of Bedrooms                  5. Is this a worst case?                  6. Conditioned floor area above grade (ft<sup>2</sup>)                     Conditioned floor area below grade (ft<sup>2</sup>)                  7. Windows**</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 40%;">Description</td> <td style="width: 40%;">Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>Dbl, U=0.36</td> <td>498.00 ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td>SHGC=0.25</td> <td></td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td>c. 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N/A	R=	ft <sup>2</sup>	<p>New (From Plans)                  Detached                  1                  5                  No                  3680                  0                  498.00 ft<sup>2</sup>                  ft<sup>2</sup>                  ft<sup>2</sup>                  8.349 ft                  0.250                  N/A                  N/A ft<sup>2</sup>                  N/A                  3019.00 ft<sup>2</sup>                  661.00 ft<sup>2</sup>                  ft<sup>2</sup></p>	<p>10. Wall Types(4102.8 sqft.)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 60%;">Insulation</td> <td style="width: 20%;">Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0</td> <td>3839.50 ft<sup>2</sup></td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=13.0</td> <td>263.33 ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>d. 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Cooling Systems kBtu/hr Efficiency</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 60%;">a. Central Unit</td> <td style="width: 20%;">51.5 SEER2:15.00</td> </tr> </table> <p>15. Heating Systems kBtu/hr Efficiency</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 60%;">a. Electric Heat Pump</td> <td style="width: 20%;">59.9 HSPF2:8.80</td> </tr> </table> <p>16. Hot Water Systems</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 60%;">a. Electric</td> <td style="width: 20%;">Cap: 50 gallons</td> </tr> <tr> <td></td> <td></td> <td>EF: 0.920</td> </tr> <tr> <td></td> <td>b. Conservation features</td> <td></td> </tr> </table> <p>17. Credits</p> <p style="text-align: right;">None CV, Pstat</p>		Insulation	Area	a. Frame - Wood, Exterior	R=13.0	3839.50 ft <sup>2</sup>	b. Frame - Wood, Adjacent	R=13.0	263.33 ft <sup>2</sup>	c. N/A			d. 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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: 280 SW Marynik Dr City/FL Zip: High Springs,FL,32643



\*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 #:
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#### Job Information

Builder:	Community:	Lot: NA
Address: 280 SW Marynik Dr		
City: High Springs	State: FL	Zip: 32643

#### Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method

**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.

**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

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{35478}{\text{ACH}(50)} =$ <div style="text-align: center; font-size: 2em; font-weight: bold; margin: 10px 0;"> <input type="checkbox"/> <b>PASS</b> </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p><u>Method for calculating building volume:</u></p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
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**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 *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*.

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: \_\_\_\_\_

# Residential System Sizing Calculation

## Summary

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title:  
Lot 10 River Rise SD

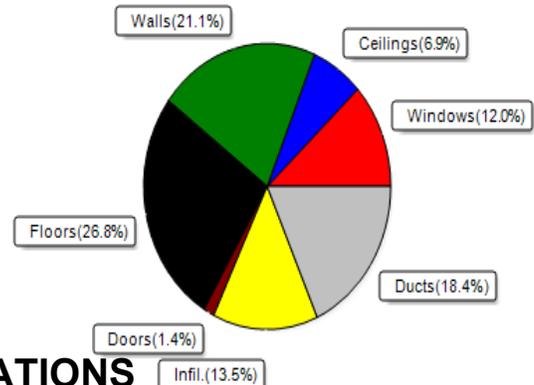
1/19/2026

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature(MJ8 99%/Cu)	33 F	Summer design temperature(MJ8 99%/Cu)	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
<b>Total heating load calculation</b>	<b>55454 Btuh</b>	<b>Total cooling load calculation</b>	<b>56647 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	108.0 59898	Sensible (SHR = 0.75)	82.4 38658
Heat Pump + Auxiliary(0.0kW)	108.0 59898	Latent	132.2 12886
		Total (Electric Heat Pump)	91.0 51544

## WINTER CALCULATIONS

Winter Heating Load (for 3680 sqft)

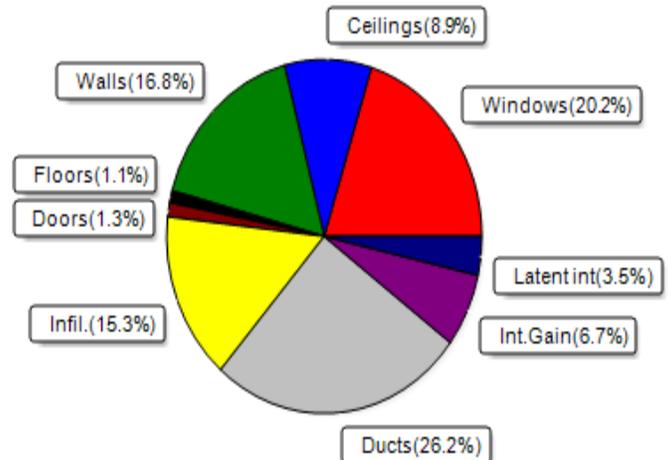
Load component	Load
Window total 498 sqft	6633 Btuh
Wall total 3560 sqft	11690 Btuh
Door total 45 sqft	772 Btuh
Ceiling total 4048 sqft	3801 Btuh
Floor total See detail report	14866 Btuh
Infiltration 184 cfm	7473 Btuh
Duct loss	10219 Btuh
<b>Subtotal</b>	<b>55454 Btuh</b>
Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
<b>TOTAL HEAT LOSS</b>	<b>55454 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 3680 sqft)

Load component	Load
Window total 498 sqft	11428 Btuh
Wall total 3560 sqft	9498 Btuh
Door total 45 sqft	730 Btuh
Ceiling total 4048 sqft	5034 Btuh
Floor total	630 Btuh
Infiltration 138 cfm	3636 Btuh
Internal gain	3800 Btuh
Duct gain	12141 Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load	0 Btuh
<b>Total sensible gain</b>	<b>46898 Btuh</b>
Latent gain(ducts)	2693 Btuh
Latent gain(infiltration)	5057 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	2000 Btuh
<b>Total latent gain</b>	<b>9749 Btuh</b>
<b>TOTAL HEAT GAIN</b>	<b>56647 Btuh</b>



8th Edition

EnergyGauge® System Sizing

PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

1 / 19 / 2026

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title:  
Lot 10 River Rise SD  
Building Type: User

1/19/2026

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 °F (MJ8 99%/Cu)  
Winter Setpoint: 70 °F (Required Manual J default)

### Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	E	36.0		13.3	480 Btuh
2	2, NFRC 0.25	Vinyl	0.36	E	10.0		13.3	133 Btuh
3	2, NFRC 0.25	Vinyl	0.36	E	105.0		13.3	1399 Btuh
4	2, NFRC 0.25	TIM	0.36	E	48.0		13.3	639 Btuh
5	2, NFRC 0.25	Vinyl	0.36	E	10.0		13.3	133 Btuh
6	2, NFRC 0.25	Vinyl	0.36	E	36.0		13.3	480 Btuh
7	2, NFRC 0.25	Vinyl	0.36	N	18.0		13.3	240 Btuh
8	2, NFRC 0.25	Vinyl	0.36	W	36.0		13.3	480 Btuh
9	2, NFRC 0.25	Metal	0.36	W	128.0		13.3	1705 Btuh
10	2, NFRC 0.25	Vinyl	0.36	W	16.0		13.3	213 Btuh
11	2, NFRC 0.25	Vinyl	0.36	S	3.0		13.3	40 Btuh
12	2, NFRC 0.25	Vinyl	0.36	S	16.0		13.3	213 Btuh
13	2, NFRC 0.25	Vinyl	0.36	S	36.0		13.3	480 Btuh
	Window Total				498.0(sqft)			6633 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	124		3.28	407 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	65		3.28	213 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	90		3.28	296 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	72		3.28	235 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	250		3.28	822 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	48		3.28	157 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	90		3.28	296 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	80		3.28	263 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	84		3.28	276 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	200		3.28	657 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	47		3.28	153 Btuh
12	Frame - Wood	- Ext	(0.089)	13.0/0.0	275		3.28	904 Btuh
13	Frame - Wood	- Ext	(0.089)	13.0/0.0	141		3.28	462 Btuh
14	Frame - Wood	- Ext	(0.089)	13.0/0.0	147		3.28	482 Btuh
15	Frame - Wood	- Ext	(0.089)	13.0/0.0	216		3.28	709 Btuh
16	Frame - Wood	- Ext	(0.089)	13.0/0.0	72		3.28	236 Btuh
17	Frame - Wood	- Adj	(0.089)	13.0/0.0	239		3.28	786 Btuh
18	Frame - Wood	- Ext	(0.089)	13.0/0.0	368		3.28	1210 Btuh
19	Frame - Wood	- Ext	(0.089)	13.0/0.0	179		3.28	587 Btuh
20	Frame - Wood	- Ext	(0.089)	13.0/0.0	53		3.28	175 Btuh
21	Frame - Wood	- Ext	(0.089)	13.0/0.0	96		3.28	315 Btuh
22	Frame - Wood	- Ext	(0.089)	13.0/0.0	53		3.28	175 Btuh
23	Frame - Wood	- Ext	(0.089)	13.0/0.0	76		3.28	250 Btuh
24	Frame - Wood	- Ext	(0.089)	13.0/0.0	109		3.28	359 Btuh
25	Frame - Wood	- Ext	(0.089)	13.0/0.0	76		3.28	250 Btuh
26	Frame - Wood	- Ext	(0.089)	13.0/0.0	53		3.28	175 Btuh
27	Frame - Wood	- Ext	(0.089)	13.0/0.0	96		3.28	315 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title:  
Lot 10 River Rise SD  
Building Type: User

1/19/2026

<b>Walls</b>	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
28	Frame - Wood	- Ext	(0.089)	13.0/0.0	53	3.28	175 Btuh
29	Frame - Wood	- Ext	(0.089)	13.0/0.0	107	3.28	350 Btuh
	Wall Total					3559(sqft)	11690 Btuh
<b>Doors</b>	Type		Storm Ueff.		Area X	HTM=	Load
1	Insulated - Garage,	n	(0.460)		24	17.0	408 Btuh
2	Insulated - Exterior,	n	(0.460)		21	17.0	363 Btuh
	Door Total					45(sqft)	772Btuh
<b>Ceilings</b>	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Flat ceil/D/Shing		(0.025)	38.0/0.0	3321	0.94	3119 Btuh
2	Flat ceil/D/Shing		(0.025)	38.0/0.0	727	0.94	683 Btuh
	Ceiling Total					4048(sqft)	3801Btuh
<b>Floors</b>	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	312.4 ft(perim.)	43.7	13639 Btuh
2	Raised Wood - Adj		(0.050)	19.0	661.0 sqft	1.9	1226 Btuh
	Floor Total					3680 sqft	14866 Btuh
Envelope Subtotal:							37762 Btuh
<b>Infiltration</b>	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural		0.31	35478	1.00	184.5	7473 Btuh
<b>Duct load</b>	Average sealed, R6.0, Supply(Att), Return(Att)					(DLM of 0.226)	10219 Btuh
<b>All Zones</b>	<b>Sensible Subtotal All Zones</b>						<b>55454 Btuh</b>

### WHOLE HOUSE TOTALS

<b>Totals for Heating</b>	Subtotal Sensible Heat Loss	55454 Btuh
	Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss	55454 Btuh

### EQUIPMENT

1. Electric Heat Pump	#	59898 Btuh
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# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title:  
Lot 10 River Rise SD  
Building Type: User

1/19/2026

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)  
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)  
U - (Window U-Factor)  
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title:  
Lot 10 River Rise SD

1/19/2026

Reference City: Gainesville, FL (Defaults)  
Humidity difference: 54gr.

Temperature Difference: 24.0F(MJ8 99%/Cu)  
Summer Setpoint: 75 °F (Required Manual J default)

### Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load		
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2 NFRC	0.25, 0.36	No	No	E	1.0ft.	2.0ft.	36.0	0.0	36.0	14	33	1179	Btuh		
2	2 NFRC	0.25, 0.36	No	No	E	10.5f	1.0ft.	10.0	10.0	0.0	14	33	139	Btuh		
3	2 NFRC	0.25, 0.36	No	No	E	8.5ft.	1.0ft.	105.0	90.8	14.2	14	33	1726	Btuh		
4	2 NFRC	0.25, 0.36	No	No	E	8.5ft.	1.0ft.	48.0	36.3	11.7	14	33	887	Btuh		
5	2 NFRC	0.25, 0.36	No	No	E	1.5ft.	10.0f	10.0	0.0	10.0	14	33	327	Btuh		
6	2 NFRC	0.25, 0.36	No	No	E	1.0ft.	3.0ft.	36.0	0.0	36.0	14	33	1179	Btuh		
7	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	18.0	0.0	18.0	14	14	250	Btuh		
8	2 NFRC	0.25, 0.36	No	No	W	1.0ft.	3.0ft.	36.0	0.0	36.0	14	33	1179	Btuh		
9	2 NFRC	0.25, 0.36	No	No	W	17.5f	1.0ft.	128.0	128.0	0.0	14	33	1779	Btuh		
10	2 NFRC	0.25, 0.36	No	No	W	17.5f	1.0ft.	16.0	16.0	0.0	14	33	222	Btuh		
11	2 NFRC	0.25, 0.36	No	No	S	1.5ft.	1.0ft.	3.0	3.0	0.0	14	16	42	Btuh		
12	2 NFRC	0.25, 0.36	No	No	S	1.5ft.	1.0ft.	16.0	16.0	0.0	14	16	222	Btuh		
13	2 NFRC	0.25, 0.36	No	No	S	1.5ft.	1.0ft.	36.0	36.0	0.0	14	16	500	Btuh		
	Excursion A															
	Window Total								498 (sqft)					11428 Btuh		

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
Lot 10 River Rise SD

1/19/2026

Walls	Type	U-Value	R-Value	Area(sqft)	HTM	Load
			Cav/Sheath			
1	Frame - Wood - Ext	0.09	13.0/0.0	124.0	2.7	336 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	65.0	2.7	176 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	90.0	2.7	244 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.0	71.5	2.7	194 Btuh
5	Frame - Wood - Ext	0.09	13.0/0.0	250.3	2.7	678 Btuh
6	Frame - Wood - Ext	0.09	13.0/0.0	47.7	2.7	129 Btuh
7	Frame - Wood - Ext	0.09	13.0/0.0	90.0	2.7	244 Btuh
8	Frame - Wood - Ext	0.09	13.0/0.0	80.0	2.7	217 Btuh
9	Frame - Wood - Ext	0.09	13.0/0.0	84.0	2.7	227 Btuh
10	Frame - Wood - Ext	0.09	13.0/0.0	200.0	2.7	541 Btuh
11	Frame - Wood - Ext	0.09	13.0/0.0	46.7	2.7	126 Btuh
12	Frame - Wood - Ext	0.09	13.0/0.0	275.3	2.7	745 Btuh
13	Frame - Wood - Ext	0.09	13.0/0.0	140.7	2.7	381 Btuh
14	Frame - Wood - Ext	0.09	13.0/0.0	146.7	2.7	397 Btuh
15	Frame - Wood - Ext	0.09	13.0/0.0	216.0	2.7	585 Btuh
16	Frame - Wood - Ext	0.09	13.0/0.0	72.0	2.7	195 Btuh
17	Frame - Wood - Adj	0.09	13.0/0.0	239.3	2.1	510 Btuh
18	Frame - Wood - Ext	0.09	13.0/0.0	368.3	2.7	997 Btuh
19	Frame - Wood - Ext	0.09	13.0/0.0	178.7	2.7	484 Btuh
20	Frame - Wood - Ext	0.09	13.0/0.0	53.3	2.7	144 Btuh
21	Frame - Wood - Ext	0.09	13.0/0.0	96.0	2.7	260 Btuh
22	Frame - Wood - Ext	0.09	13.0/0.0	53.3	2.7	144 Btuh
23	Frame - Wood - Ext	0.09	13.0/0.0	76.0	2.7	206 Btuh
24	Frame - Wood - Ext	0.09	13.0/0.0	109.3	2.7	296 Btuh
25	Frame - Wood - Ext	0.09	13.0/0.0	76.0	2.7	206 Btuh
26	Frame - Wood - Ext	0.09	13.0/0.0	53.3	2.7	144 Btuh
27	Frame - Wood - Ext	0.09	13.0/0.0	96.0	2.7	260 Btuh
28	Frame - Wood - Ext	0.09	13.0/0.0	53.3	2.7	144 Btuh
29	Frame - Wood - Ext	0.09	13.0/0.0	106.7	2.7	289 Btuh
	<b>Wall Total</b>			<b>3560 (sqft)</b>		<b>9498 Btuh</b>
<b>Doors</b>	<b>Type</b>			<b>Area (sqft)</b>	<b>HTM</b>	<b>Load</b>
1	Insulated - Garage			24.0	16.1	386 Btuh
2	Insulated - Exterior			21.3	16.1	343 Btuh
	<b>Door Total</b>			<b>45 (sqft)</b>		<b>730 Btuh</b>
<b>Ceilings</b>	<b>Type/Color/Surface</b>	<b>U-Value</b>	<b>R-Value</b>	<b>Area(sqft)</b>	<b>HTM</b>	<b>Load</b>
1	Vented Attic/DarkShingle/RB	0.025	38.0/0.0	3321.0	1.24	4130 Btuh
2	Vented Attic/DarkShingle/RB	0.025	38.0/0.0	727.0	1.24	904 Btuh
	<b>Ceiling Total</b>			<b>4048 (sqft)</b>		<b>5034 Btuh</b>
<b>Floors</b>	<b>Type</b>		<b>R-Value</b>	<b>Size</b>	<b>HTM</b>	<b>Load</b>
1	Slab On Grade		0.0	3019 (ft-perimeter)	0.0	0 Btuh
2	Raised Wood - Adj		19.0	661 (sqft)	1.0	630 Btuh
	<b>Floor Total</b>			<b>3680.0 (sqft)</b>		<b>630 Btuh</b>
				<b>Envelope Subtotal:</b>		<b>27320 Btuh</b>

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
Lot 10 River Rise SD

1/19/2026

<b>Infiltration</b>	Type Natural	Average ACH 0.23	Volume(cuft) 35478	Wall Ratio 1	CFM= 138.4	Load 3636 Btuh
<b>Internal gain</b>		Occupants 10	Btuh/occupant X 230	Appliance +	1500	Load 3800 Btuh
	Sensible Envelope Load:					34756 Btuh
<b>Duct load</b>	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.349)					12141 Btuh
	<b>Sensible Load All Zones</b>					<b>46898 Btuh</b>

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Lee Holloway  
280 SW Marynik Dr  
High Springs, FL 32643

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
Lot 10 River Rise SD

1/19/2026

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>34756 Btuh</b>
	Sensible Duct Load	12141 Btuh
	<b>Total Sensible Zone Loads</b>	<b>46898 Btuh</b>
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>46898 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	5057 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	2693 Btuh
	Latent occupant gain (10.0 people @ 200 Btuh per person)	2000 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>9749 Btuh</b>
	<b>TOTAL GAIN</b>	<b>56647 Btuh</b>

### EQUIPMENT

1. Central Unit	#	51544 Btuh
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\*Key: Window types (Panels - Number and type of panes of glass)  
 (SHGC - Shading coefficient of glass as SHGC numerical value)  
 (U - Window U-Factor)  
 (InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))  
     - For Blinds: Assume medium color, half closed  
     For Draperies: Assume medium weave, half closed  
     For Roller shades: Assume translucent, half closed  
 (IS - Insect screen: none(N), Full(F) or Half(½))  
 (Ornt - compass orientation)



Version 8