

Project Name: Tepedino - Addition Street: 135 SW Stoneridge Drive City, State, Zip: Lake City, FL, 32024 Owner: Miguel & Kelly Tepedino Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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<table style="width: 100%;"> <tr> <td style="width: 40%;">1. New construction or existing</td> <td style="width: 10%;">Addition</td> <td style="width: 50%;"></td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> <td></td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> <td></td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>0</td> <td></td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> <td></td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>520</td> <td></td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> <td></td> </tr> <tr> <td>7. Windows(43.0 sqft.)</td> <td>Description</td> <td>Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>Dbl, U=0.36</td> <td>43.00 ft²</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>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Area Weighted Average Overhang Depth:</td> <td>1.500 ft</td> </tr> <tr> <td colspan="2">Area Weighted Average SHGC:</td> <td>0.250</td> </tr> <tr> <td>8. Skylights</td> <td>Description</td> <td>Area</td> </tr> <tr> <td>U-Factor:(AVG)</td> <td>N/A</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC(AVG):</td> <td>N/A</td> <td></td> </tr> <tr> <td>9. Floor Types</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R= 0.0</td> <td>520.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft²</td> </tr> </table>	1. New construction or existing	Addition		2. Single family or multiple family	Detached		3. Number of units, if multiple family	1		4. Number of Bedrooms	0		5. Is this a worst case?	No		6. Conditioned floor area above grade (ft²)	520		Conditioned floor area below grade (ft²)	0		7. Windows(43.0 sqft.)	Description	Area	a. U-Factor:	Dbl, U=0.36	43.00 ft²	SHGC:	SHGC=0.25		b. U-Factor:	N/A	ft²	SHGC:			c. U-Factor:	N/A	ft²	SHGC:			Area Weighted Average Overhang Depth:		1.500 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	520.00 ft²	b. N/A	R=	ft²	c. N/A	R=	ft²	<table style="width: 100%;"> <tr> <td style="width: 40%;">10. Wall Types(860.0 sqft.)</td> <td style="width: 10%;">Insulation</td> <td style="width: 50%;">Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=19.0</td> <td>860.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> <td></td> </tr> <tr> <td>11. Ceiling Types(572.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Flat ceiling under att (Vented)</td> <td>R=38.0</td> <td>572.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>12. Roof(Comp. Shingles, Vented)</td> <td>Deck R=0.0</td> <td>735 ft²</td> </tr> <tr> <td>13. Ducts, location & insulation level</td> <td>R</td> <td>ft²</td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: 1st Floor</td> <td>6</td> <td>130</td> </tr> <tr> <td>b.</td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>6.6</td> <td>SEER2:15.50</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>15. Heating Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>10.5</td> <td>HSPF2:8.80</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>16. Hot Water Systems - None required</td> <td></td> <td></td> </tr> <tr> <td>a. N/A</td> <td></td> <td>N/A</td> </tr> <tr> <td>b. Conservation features</td> <td></td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>17. Credits</td> <td></td> <td>CV, Pstat</td> </tr> </table>	10. Wall Types(860.0 sqft.)	Insulation	Area	a. Frame - Wood, Exterior	R=19.0	860.00 ft²	b. N/A			c. N/A			d. N/A			11. Ceiling Types(572.0 sqft.)	Insulation	Area	a. Flat ceiling under att (Vented)	R=38.0	572.00 ft²	b. N/A			c. N/A			12. Roof(Comp. Shingles, Vented)	Deck R=0.0	735 ft²	13. Ducts, location & insulation level	R	ft²	a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	130	b.			c.			14. Cooling Systems	kBtu/hr	Efficiency	a. Central Unit	6.6	SEER2:15.50				15. Heating Systems	kBtu/hr	Efficiency	a. Electric Heat Pump	10.5	HSPF2:8.80				16. Hot Water Systems - None required			a. N/A		N/A	b. Conservation features						17. Credits		CV, Pstat
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Glass/Floor Area:0.083	Total Proposed Modified Loads: 12.89	PASS
	Total Baseline Loads: 16.41	

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. <div style="text-align: center;"> PREPARED BY: _____ DATE: 9 / 11 / 2024 </div> 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;"> BUILDING OFFICIAL: _____ DATE: _____ </div>
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- 9/11/2024 3:35:59 PM EnergyGauge® USA 8.0.00 - FlaRes2023 FBC 8th Edition (2023) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Tepedino - Addition			Bedrooms:	0		Address type:	Street Address					
Building Type:	User			Conditioned Area:	520		Lot #:	---					
Owner:	Miguel & Kelly Tepedino			Total Stories:	1		Block/SubDivision:	---					
Builder Home ID:				Worst Case:	No		PlatBook:	---					
Builder Name:				Rotate Angle:	0		Street:	135 SW Stoneridge Drive					
Permit Office:	Columbia County			Cross Ventilation:	Yes		County:	Columbia					
Jurisdiction:				Whole House Fan:	No		City, State, Zip:	Lake City, FL, 32024					
Family Type:	Detached			Terrain:	Suburban								
New/Existing:	Addition			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	520	5200 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	1st Floor	520	5200	Yes	1	0	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 520 sq.ft.)													
✓ #	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	86	520 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	735 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	45	
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
___ 1	Partial cathedral ceiling	Vented	300	520 ft²	Y	N							
CEILING (Total Exposed Area = 572 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	572.0ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 860 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	19.0	4.0	0	10.0	0	40.0	0.061		0.23	0.75	0 %					
___ 2	W	Exterior	Frame - Wood	1st Floor	19.0	2.0	0	10.0	0	20.0	0.061		0.23	0.75	0 %					
___ 3	S	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0 %					
___ 4	E	Exterior	Frame - Wood	1st Floor	19.0	24.0	0	10.0	0	240.0	0.061		0.23	0.75	0 %					
___ 5	N	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0 %					
___ 6	W	Exterior	Frame - Wood	1st Floor	19.0	12.0	0	10.0	0	120.0	0.061		0.23	0.75	0 %					
___ 7	N	Exterior	Frame - Wood	1st Floor	19.0	4.0	0	10.0	0	40.0	0.061		0.23	0.75	0 %					

DOORS												(Total Exposed Area = 20 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			

WINDOWS																	(Total Exposed Area = 43 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	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	33.0	1	6.00	5.50	1.5	1.0	None	None		
___ 2	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	10.0	1	5.00	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)	0.00044	607	33.28	62.49	0.1500	7.0	All	5200 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/FI. Addition	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal Entry	Heat Pump Power	Heat Pump Volt	Heat Pump Current	Ducts	Block
___ 1	Electric Heat Pump/Existing/co	None/Single		HSPF2: 8.80	10.5		0.00	0.00	0.00	sys#1	1

COOLING SYSTEM									
✓ #	System Type/FI. Addition	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit/Existing/co	None/Single		SEER2:15.5	6.6	198	0.75	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
		Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits

DUCTS

✓	Duct #	-----Supply-----	-----Return-----					Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
	#	Location	R-Value Area	Location	R-Value Area	Leakage Type							
	1	Attic	6.0 130 ft²	Attic	6.0 26 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 78	78	78	78	78	78	78	78	80	80	80	80
		PM 80	80	78	78	78	78	78	78	78	78	78	78
	Cooling (WEH)	AM 78	78	78	78	78	78	78	78	78	78	78	78
		PM 78	78	78	78	78	78	78	78	78	78	78	78
	Heating (WD)	AM 66	66	66	66	66	68	68	68	68	68	68	68
		PM 68	68	68	68	68	68	68	68	68	68	66	66
	Heating (WEH)	AM 66	66	66	66	66	68	68	68	68	68	68	68
		PM 68	68	68	68	68	68	68	68	68	68	66	66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 79

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

135 SW Stoneridge Drive,Lake City,FL,32024

1. New construction or existing	Addition	10. Wall Types(860.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	860.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	0	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	520	11. Ceiling Types(572.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	572.00 ft ²
7. Windows**	Description	b. N/A		
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SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	6.6	SEER2:15.50
8. Skylights	Description	Area		
U-Factor:(AVG)	N/A	N/A ft ²		
SHGC(AVG):	N/A			
9. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R= 0.0	520.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		
		15. Heating Systems	kBtu/hr	Efficiency
		a. Electric Heat Pump	10.5	HSPF2:8.80
		16. Hot Water Systems - None required		
		a. N/A		N/A
		b. Conservation features		
		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: 135 SW Stoneridge Drive 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:	Lot:	NA
Address: 135 SW Stoneridge Drive			
City: Lake City	State: FL	Zip: 32024	
Air Leakage Test Results <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"/> 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.</div> <div style="border: 1px solid black; padding: 5px;"><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. <div style="text-align: right; margin-top: 5px;">ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000</div></div>			
<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="width: 60%;">$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{5200}{\text{ACH}(50)} =$<div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">PASS</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>Method for calculating building volume:</p><div style="margin-top: 5px;"><input type="radio"/> Retrieved from architectural plans</div><div style="margin-top: 5px;"><input checked="" type="radio"/> Code software calculated</div><div style="margin-top: 5px;"><input type="radio"/> Field measured and calculated</div></div></div>			
<p>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 trade official <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the building <i>building thermal envelope</i>.</p> <p>During testing:</p> <ol style="list-style-type: none">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			
<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: 10px;"><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>			

Residential System Sizing Calculation

Summary

Miguel & Kelly Tepedino
135 SW Stoneridge Drive
Lake City, FL 32024

Project Title:
Tepedino - Addition

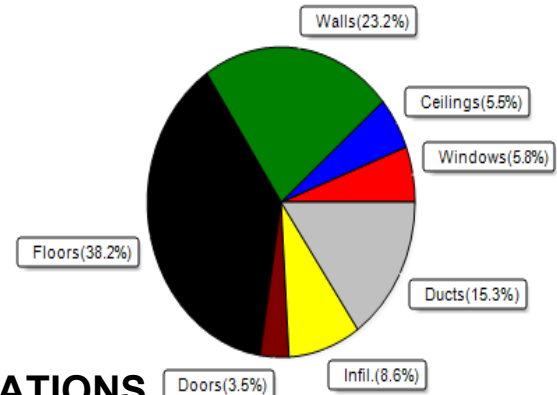
9/11/2024

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
Total heating load calculation	9834 Btuh	Total cooling load calculation	7248 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	107.1 10531	Sensible (SHR = 0.75)	81.1 4950
Heat Pump + Auxiliary(0.0kW)	107.1 10531	Latent	143.8 1650
		Total (Electric Heat Pump)	91.1 6600

WINTER CALCULATIONS

Winter Heating Load (for 520 sqft)

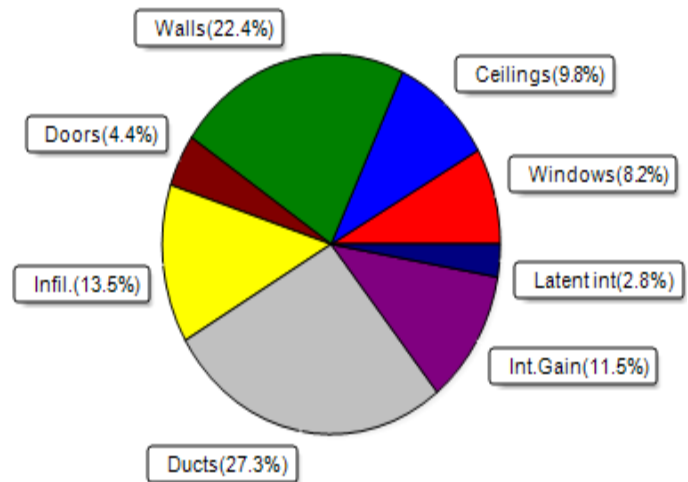
Load component	Load
Window total 43 sqft	573 Btuh
Wall total 797 sqft	2279 Btuh
Door total 20 sqft	340 Btuh
Ceiling total 572 sqft	537 Btuh
Floor total 520 sqft	3755 Btuh
Infiltration 21 cfm	842 Btuh
Duct loss	1507 Btuh
Subtotal	9834 Btuh
Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
TOTAL HEAT LOSS	9834 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 520 sqft)

Load component	Load
Window total 43 sqft	598 Btuh
Wall total 797 sqft	1626 Btuh
Door total 20 sqft	322 Btuh
Ceiling total 572 sqft	711 Btuh
Floor total	0 Btuh
Infiltration 16 cfm	410 Btuh
Internal gain	830 Btuh
Duct gain	1603 Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load	0 Btuh
Total sensible gain	6100 Btuh
Latent gain(ducts)	378 Btuh
Latent gain(infiltration)	570 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	200 Btuh
Total latent gain	1148 Btuh
TOTAL HEAT GAIN	7248 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: 9 / 11 / 2024

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Miguel & Kelly Tepedino
135 SW Stoneridge Drive
Lake City, FL 32024

Project Title:
Tepedino - Addition
Building Type: User

9/11/2024

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	S	33.0		13.3	440 Btuh
2	2, NFRC 0.25	Vinyl	0.36	N	10.0		13.3	133 Btuh
	Window Total				43.0(sqft)			573 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	20		2.86	57 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	20		2.86	57 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	167		2.86	477 Btuh
4	Frame - Wood	- Ext	(0.077)	19.0/0.0	240		2.86	686 Btuh
5	Frame - Wood	- Ext	(0.077)	19.0/0.0	190		2.86	543 Btuh
6	Frame - Wood	- Ext	(0.077)	19.0/0.0	120		2.86	343 Btuh
7	Frame - Wood	- Ext	(0.077)	19.0/0.0	40		2.86	114 Btuh
	Wall Total				797(sqft)			2279 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		20		17.0	340 Btuh
	Door Total				20(sqft)			340Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Flat ceil/D/Shing	(0.025)	38.0/0.0		572		0.94	537 Btuh
	Ceiling Total				572(sqft)			537Btuh
Floors	Type	Ueff.	R-Value		Size	X	HTM=	Load
1	Slab On Grade	(1.180)	0.0		86.0 ft(perim.)		43.7	3755 Btuh
	Floor Total				520 sqft			3755 Btuh
	Envelope Subtotal:							7484 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.24	5200	1.00	20.8		842 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.181)							1507 Btuh
All Zones	Sensible Subtotal All Zones							9834 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Miguel & Kelly Tepedino
135 SW Stoneridge Drive
Lake City, FL 32024

Project Title:
Tepedino - Addition
Building Type: User

9/11/2024

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	9834 Btuh
	Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss	9834 Btuh

EQUIPMENT

1. Electric Heat Pump	#	10531 Btuh
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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

Miguel & Kelly Tepedino
135 SW Stoneridge Drive
Lake City, FL 32024

Project Title:
Tepedino - Addition

9/11/2024

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	S		1.5ft.	1.0ft.	33.0	33.0	0.0	14	16	459 Btuh	
2	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	10.0	0.0	10.0	14	14	139 Btuh	
	Window Total								43 (sqft)					598 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
				Cav/Sheath											
1	Frame - Wood - Ext	0.08		19.0/0.0		20.0		2.0		41 Btuh					
2	Frame - Wood - Ext	0.08		19.0/0.0		20.0		2.0		41 Btuh					
3	Frame - Wood - Ext	0.08		19.0/0.0		167.0		2.0		341 Btuh					
4	Frame - Wood - Ext	0.08		19.0/0.0		240.0		2.0		490 Btuh					
5	Frame - Wood - Ext	0.08		19.0/0.0		190.0		2.0		388 Btuh					
6	Frame - Wood - Ext	0.08		19.0/0.0		120.0		2.0		245 Btuh					
7	Frame - Wood - Ext	0.08		19.0/0.0		40.0		2.0		82 Btuh					
	Wall Total								797 (sqft)			1626 Btuh			
Doors	Type	Area (sqft)		HTM		Load									
1	Insulated - Exterior	20.0		16.1		322 Btuh									
	Door Total						20 (sqft)		322 Btuh						
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Vented Attic/DarkShingle/RB	0.025		38.0/0.0		572.0		1.24		711 Btuh					
	Ceiling Total						572 (sqft)		711 Btuh						
Floors	Type	R-Value		Size		HTM		Load							
1	Slab On Grade	0.0		520 (ft-perimeter)		0.0		0 Btuh							
	Floor Total						520.0 (sqft)		0 Btuh						
	Envelope Subtotal:													3257 Btuh	
Infiltration	Type	Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load					
	Natural	0.18		5200		1		15.6		410 Btuh					
Internal gain	Occupants		Btuh/occupant		Appliance		Load								
	1		X 230		+		600		830 Btuh						
	Sensible Envelope Load:													4497 Btuh	
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)													(DGM of 0.357)	1603 Btuh
	Sensible Load All Zones													6100 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Miguel & Kelly Tepedino
135 SW Stoneridge Drive
Lake City, FL 32024

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Tepedino - Addition

9/11/2024

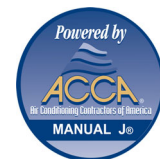
WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	4497 Btuh
	Sensible Duct Load	1603 Btuh
	Total Sensible Zone Loads	6100 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	6100 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	570 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	378 Btuh
	Latent occupant gain (1.0 people @ 200 Btuh per person)	200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	1148 Btuh
	TOTAL GAIN	7248 Btuh

EQUIPMENT

1. Central Unit	#	6600 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