

<b>Project Name:</b> Colon Residence <b>Street:</b> 1081 SW NEBRASKA TERR. <b>City, State, Zip:</b> Ft White, FL, 32038 <b>Owner:</b> Marie Colon <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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Glass/Floor Area:0.122	Total Proposed Modified Loads: 33.91	<b>PASS</b>
	Total Baseline Loads: 38.89	

  

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  <div style="text-align: right;">   <b>PREPARED BY:</b> _____   <b>DATE:</b> 6 / 26 / 2023       </div> 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: right;">   <b>BUILDING OFFICIAL:</b> _____  <b>DATE:</b> _____       </div>
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- 6/26/2023 9:19:58 AM      EnergyGauge® USA 7.0.00 - FlaRes2020 FBC 7th Edition (2020) Compliant Software      Page 1

## INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Colon Residence			Bedrooms:	2	Address type:	Street Address						
Building Type:	User			Conditioned Area:	1310	Lot #:	---						
Owner:	Marie Colon			Total Stories:	2	Block/SubDivision:	---						
Builder Home ID:				Worst Case:	No	PlatBook:	---						
Builder Name:				Rotate Angle:	0	Street:	1081 SW NEBRASKA TERR.						
Permit Office:	Columbia County			Cross Ventilation:	Yes	County:	Columbia						
Jurisdiction:				Whole House Fan:	No	City, State, Zip:	Ft White, FL, 32038						
Family Type:	Detached			Terrain:	Suburban								
New/Existing:	New (From Plans)			Shielding:	Suburban								
Year Construct:	2023												
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	1310	10480 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	1st Floor	900	7200	Yes	4	2	Yes	Yes	Yes				
___ 2	2nd Floor	410	3280	No	2	0	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 900 sq.ft.)													
✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet			
___ 1	Slab-On-Grade Edge Ins	1st Floor	120	0	900 ft	0.304	---	0.00	0.00	1.00			
___ 2	Floor Over Other Space	2nd Floor	---	---	410 ft	0.046	---	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	Gable or shed	Metal	949 ft²	84 ft²	Medium	Y	0.96	No	0.9	No	0	18.43	
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
___ 1	Partial cathedral ceiling	Vented	300	900 ft²	Y	N							
CEILING (Total Exposed Area = 966 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	514.5ft²	0.024	0.11	Wood					

## INPUT SUMMARY CHECKLIST REPORT

## CEILING(Continued)

\_\_\_ 2 Sloped ceiling under attic(Vented) 2nd Floor 38.0 Double Batt 451.0ft² 0.024 0.11 Wood

## WALLS

(Total Exposed Area = 1687 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	W	Exterior	Frame - Wood	1st Floor	19.0	15.0	10	15.0	0	237.5	0.061		0.23	0.75	0 %
___ 2	W	Exterior	Frame - Wood	1st Floor	19.0	10.0	8	8.0	0	85.3	0.061		0.23	0.75	0 %
___ 3	S	Exterior	Frame - Wood	1st Floor	19.0	30.0	0	8.0	0	240.0	0.061		0.23	0.75	0 %
___ 4	E	Exterior	Frame - Wood	1st Floor	19.0	30.0	0	8.0	0	240.0	0.061		0.23	0.75	0 %
___ 5	N	Exterior	Frame - Wood	1st Floor	19.0	17.0	2	8.0	0	137.3	0.061		0.23	0.75	0 %
___ 6	N	Exterior	Frame - Wood	1st Floor	19.0	12.0	10	15.0	0	192.5	0.061		0.23	0.75	0 %
___ 7	N	Exterior	Frame - Wood	2nd Floor	19.0	17.0	2	8.0	0	137.3	0.061		0.23	0.75	0 %
___ 8	W	Exterior	Frame - Wood	2nd Floor	19.0	10.0	8	8.0	0	85.3	0.061		0.23	0.75	0 %
___ 9	S	Exterior	Frame - Wood	2nd Floor	19.0	17.0	2	8.0	0	137.3	0.061		0.23	0.75	0 %
___ 10	E	Exterior	Frame - Wood	2nd Floor	19.0	24.0	4	8.0	0	194.7	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	E	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²

## WINDOWS

(Total Exposed Area = 160 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	W	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	20.0	10.0	None	None
___ 2	W	1	TIM	Low-E Double	Y	0.36	0.25	N	N	35.6	2	2.67	6.67	20.0	10.0	None	None
___ 3	W	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	20.0	10.0	None	None
___ 4	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.0	10.0	None	None
___ 5	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.0	10.0	None	None
___ 6	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.0	10.0	None	None
___ 7	E	4	TIM	Low-E Double	Y	0.36	0.25	N	N	20.0	1	3.00	6.67	1.0	10.0	None	None
___ 8	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.0	6.0	None	None
___ 9	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	12.0	2	3.00	2.00	1.0	1.0	None	None
___ 10	W	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	20.0	3.0	None	None
___ 11	E	10	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.0	3.0	None	None

## INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00025	873	47.91	89.95	0.1293	5.0	All	10480 cu ft

## 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

## INPUT SUMMARY CHECKLIST REPORT

## HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal Entry	HeatPump--- Power	Volts	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	19.4		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	17.7	540	0.70	sys#1	1

## HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Propane	Tankless	Exterior	0.59 (0.59)	1.00 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	Location	-----Return----- R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	328 ft²	Attic	6.0	66 ft²	Default Leakage	Attic	(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	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\* = 87

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

1081 SW NEBRASKA TERR.,Ft White,FL,32038

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Area Weighted Average Overhang Depth:	10.593 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	17.7	SEER2:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	19.4	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. PropaneTankless	Cap: 1 gallons	
b. Floor Over Other Space	R= 19.0		EF: 0.590	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			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: 1081 SW NEBRASKA TERR. City/FL Zip: Ft White,FL,32038



\*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**  
**2020 Florida Building Code, Energy Conservation, 7th Edition**

Jurisdiction:	Permit #:	
<b>Job Information</b>		
Builder:	Community:	Lot: NA
Address: 1081 SW NEBRASKA TERR.		
City: Ft White	State: FL	Zip: 32038
<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 R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): <span style="border: 1px solid black; padding: 2px 20px;">5.000</span></div>		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="width: 60%;"><math display="block">\frac{\text{CFM}(50) \times 60}{\text{Building Volume}} = \text{ACH}(50)</math><div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto; text-align: center; line-height: 40px;"><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%;"><p>Method for calculating building volume:</p><div style="margin-top: 10px;"><input type="radio"/> Retrieved from architectural plans</div><div style="margin-top: 10px;"><input checked="" type="radio"/> Code software calculated</div><div style="margin-top: 10px;"><input type="radio"/> Field measured and calculated</div></div></div>		
<p><b>R402.4.1.2 Testing.</b> 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 <i>(7) Florida Statutes</i> or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>.</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></ol>		
<b>Testing Company</b>		
<p>Company Name: _____ Phone: _____</p> <p>I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.</p> <p>Signature of Tester: _____ Date of Test: _____</p> <p>Printed Name of Tester: _____</p> <p>License/Certification #: _____ Issuing Authority: _____</p>		