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FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 20 Hills Of Rose Creek Street: City, State, Zip: Lake City, FL, 32024 Owner: N/A Design Location: FL, Gainesville	Builder Name: Gibraltar Contracting, LLC. Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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Glass/Floor Area: 0.114 Total Proposed Modified Loads: 56.37
 Total Baseline Loads: 57.40

PASS

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u>Will C. My</u></p> <p>DATE: <u>2 / 13 / 2023</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</p>	<p>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.</p> <p style="text-align: center;">File Copy</p> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
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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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT**PROJECT**

Title:	Lot 20 Hills Of Rose Creek	Bedrooms:	4	Address type:	Lot
Building Type:	User	Conditioned Area:	2378	Lot #:	20
Owner:	N/A	Total Stories:	1	Block/SubDivision:	Hills Of Rose C
Builder Name:	Gibraltar Contracting, LLC.	Worst Case:	No	PlatBook:	
Permit Office:	Columbia County	Rotate Angle:	0	Street:	
Jurisdiction:		Cross Ventilation:	Yes	County:	Columbia
Family Type:	Detached	Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32024
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2023	Shielding:	Suburban		
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp 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	2378	21402 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2378	21402	Yes	8	4	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2378 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	Main	243.4	0	2378 ft	0.304	---	0.00	0.00	1.00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	2753 ft ²	0 ft ²	Medium	Y	0.96	No	0.9	No	0	30.26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	2378 ft ²	Y	N

CEILING

(Total Exposed Area = 2497 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Main	38.0	Double Batt	2497.0ft ²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 2192 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	Main	13.0	13.0	2	9.0	0	118.5	0.084		0.23	0.75	0 %
___ 2	S	Exterior	Frame - Wood	Main	13.0	21.0	4	10.0	0	213.3	0.084		0.23	0.75	0 %
___ 3	S	Exterior	Frame - Wood	Main	13.0	9.0	6	9.0	0	85.5	0.084		0.23	0.75	0 %
___ 4	E	Garage	Frame - Wood	Main	13.0	9.0	0	10.0	0	90.0	0.084		0.23	0.75	0 %
___ 5	S	Garage	Frame - Wood	Main	13.0	25.0	4	9.0	0	228.0	0.084		0.23	0.75	0 %
___ 6	E	Exterior	Frame - Wood	Main	13.0	26.0	2	9.0	0	235.5	0.084		0.23	0.75	0 %
___ 7	N	Exterior	Frame - Wood	Main	13.0	37.0	8	10.0	0	376.7	0.084		0.23	0.75	0 %
___ 8	W	Exterior	Frame - Wood	Main	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0 %
___ 9	N	Exterior	Frame - Wood	Main	13.0	18.0	6	10.0	0	185.0	0.084		0.23	0.75	0 %
___ 10	E	Exterior	Frame - Wood	Main	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0 %
___ 11	N	Exterior	Frame - Wood	Main	13.0	13.0	2	9.0	0	118.5	0.084		0.23	0.75	0 %
___ 12	W	Exterior	Frame - Wood	Main	13.0	42.0	4	9.0	0	381.0	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	Main	None	0.46	3.00	0	6.00	8	20.0ft²	
___ 2	S	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS																(Total Exposed Area = 271 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	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	7.5	1.5	None	None
___ 3	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None
___ 4	E	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	1.5	1.0	None	None
___ 5	E	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	1.0	None	None
___ 6	N	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	2.5	None	None
___ 7	N	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	1.5	1.0	None	None
___ 8	W	8	TIM	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	10.5	1.5	None	None
___ 9	N	9	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	12.5	1.0	None	None
___ 10	N	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
___ 11	W	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	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)	0.00029	1784	97.85	183.70	0.1027	5.0	All	21402 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	583 ft²	583 ft²	63 ft	9 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

INPUT SUMMARY CHECKLIST REPORT

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		HSPF: 8.20	35.0		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		SEER:14.0	27.5	810	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	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	595 ft²	Attic	6.0	119 ft²	Default Leakage	Garage	(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	Hours												
		1	2	3	4	5	6	7	8	9	10	11	12
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	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* = 98

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

,Lake City,FL,32024

<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 (ft²) Conditioned floor area below grade (ft²) 7. Windows**</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;">a. U-Factor:</td> <td style="width: 30%;">Description</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>Dbl, U=0.36</td> <td></td> <td>Area</td> <td></td> <td></td> </tr> <tr> <td></td> <td>SHGC:</td> <td>SHGC=0.25</td> <td>271.00 ft²</td> <td></td> <td></td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A</td> <td></td> <td>ft²</td> <td></td> <td></td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. 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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: _____ 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.