

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

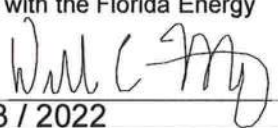
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 50 Emerald Cove Street: City, State, Zip: , FL , Owner: 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: 0.132	Total Proposed Modified Loads: 52.73	PASS
	Total Baseline Loads: 54.30	


I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.


 PREPARED BY: _____
 DATE: 5 / 3 / 2022

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.



BUILDING OFFICIAL: _____
 DATE: _____

- 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.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).



INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Lot 50 Emerald Cove	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	2105	Lot #:	50
Owner Name:		Total Stories:	1	Block/Subdivision:	Emerald Cove
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Gibraltar Contracting, LLC.	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	, FL,
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating Degree Days	Design Moisture	Daily Temp Range
			97.5 %	2.5 %	Winter	Summer			
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2105	18945

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2105	18945	Yes	8	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulation	Main	228.33 ft	0	2105 ft ²	----	0	0	1

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	2437 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	2105 ft ²	Y	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Double Batt	2210 ft ²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	S	Exterior	Frame - Wood	Main	13	11	8	9		105.0 ft ²		0.23	0.75	0
2	S	Exterior	Frame - Wood	Main	13	9		10		90.0 ft ²		0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft ²		0.23	0.75	0
4	S	Garage	Frame - Wood	Main	13	22		9		198.0 ft ²		0.23	0.75	0
5	E	Exterior	Frame - Wood	Main	13	40	4	9		363.0 ft ²		0.23	0.75	0
6	N	Exterior	Frame - Wood	Main	13	12	8	9		114.0 ft ²		0.23	0.75	0
7	W	Exterior	Frame - Wood	Main	13	7	8	9		69.0 ft ²		0.23	0.75	0
8	N	Exterior	Frame - Wood	Main	13	13	6	10		135.0 ft ²		0.23	0.75	0
9	W	Exterior	Frame - Wood	Main	13	9		10		90.0 ft ²		0.23	0.75	0
10	N	Exterior	Frame - Wood	Main	13	15	6	10		155.0 ft ²		0.23	0.75	0
11	E	Exterior	Frame - Wood	Main	13	9		9		81.0 ft ²		0.23	0.75	0
12	N	Exterior	Frame - Wood	Main	13	14	8	9		132.0 ft ²		0.23	0.75	0
13	W	Exterior	Frame - Wood	Main	13	38	6	9		346.5 ft ²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.46	3		6	8	20 ft ²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
2	S	2	TIM	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	4 ft 0 in	1 ft 0 in	None	None
3	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
4	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
5	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
6	N	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
7	W	9	TIM	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	6 ft 0 in	1 ft 0 in	None	None
8	N	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	60.0 ft ²	10 ft 6 in	1 ft 0 in	None	None
9	N	12	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
10	W	13	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
11	W	13	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	1 ft 0 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	506 ft ²	506 ft ²	67.5 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1578.8	86.61	162.61	.1027	5

HEATING SYSTEM

<input checked="" type="checkbox"/>	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
<input type="checkbox"/>	1	Electric Heat Pump/	None	Single	HSPF:8.2	32.06 kBtu/hr	1	sys#1

COOLING SYSTEM

<input checked="" type="checkbox"/>	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
<input type="checkbox"/>	1	Central Unit/	None	Single	SEER: 14	24.3 kBtu/hr	720 cfm	0.7	1	sys#1

HOT WATER SYSTEM

<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
<input type="checkbox"/>	1	Electric	None	Garage	0.92	50 gal	40 gal	120 deg	None

SOLAR HOT WATER SYSTEM

<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model#	Collector Model#	Collector Area	Storage Volume	FEF
<input type="checkbox"/>	None	None			ft ²		

DUCTS

<input checked="" type="checkbox"/>	#	--- Supply ---		--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
<input type="checkbox"/>	1	Attic	6	526.25 f	Attic	105.25 f	Default Leakage	Garage	(Default) c	(Default) c		1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	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
MASS													
Mass Type		Area		Thickness		Furniture Fraction		Space					
Default(8 lbs/sq.ft.)		0 ft ²		0 ft		0.3		1st Floor					
Default(8 lbs/sq.ft.)		0 ft ²		0 ft		0.3		2nd Floor					

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

, , FL,

<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 (ft²)</p>	<p>New (From Plans) Detached 1 4 No 2105</p>	<p>10. Wall Type and Insulation a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A</p>	<p>Insulation Area R=13.0 1803.50 ft² R=13.0 198.00 ft² R= ft² R= ft²</p>
<p>7. Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: d. U-Factor: SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC:</p>	<p>Description Dbl, U=0.36 SHGC=0.25 N/A N/A N/A 3.901 ft. 0.250</p>	<p>11. Ceiling Type and insulation level a. Under Attic (Vented) b. N/A c. N/A</p>	<p>Insulation Area R=38.0 2210.00 ft² R= ft² R= ft²</p>
<p>8. Skylights a. U-Factor(AVG): SHGC(AVG):</p>	<p>Description N/A N/A Area ft²</p>	<p>12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage</p>	<p>R ft² 6 526.25</p>
<p>9. Floor Types a. Slab-On-Grade Edge Insulation b. N/A c. N/A</p>	<p>Insulation Area R=0.0 2105.00 ft² R= ft² R= ft²</p>	<p>13. Cooling systems a. Central Unit</p>	<p>kBtu/hr Efficiency 24.3 SEER:14.00</p>
		<p>14. Heating systems a. Electric Heat Pump</p>	<p>kBtu/hr Efficiency 32.1 HSPF:8.20</p>
		<p>15. Hot water systems a. Electric b. Conservation features None Credits (Performance method)</p>	<p>Cap: 50 gallons EF: 0.92 CV, Pstat</p>

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: _____



*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 #:
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Job Information

Builder: Gibraltar Contracting, LLC.	Community:	Lot: 50
Address:		
City:	State: FL	Zip:

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 R405-2020 (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): 5.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 + \frac{18945}{\text{Building Volume}} = \text{ACH}(50)$ <div style="text-align: center; margin-top: 10px;"> <input type="checkbox"/> PASS </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p>Method for calculating building volume:</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. 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.

Testing Company

Company Name: _____ Phone: _____

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.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Plastro	Swinging Doors Exterior	FL-16094.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI	Single Hung Vinyl Windows	FL-17499
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Hardie	Concrete Masonry Siding	FL-13192
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Tamko	Architectural Shingles	FL-18355-R4
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	Simpson	Wood Connectors / Anchors	
B. WOOD ANCHORS		SP 4	13872 ✓ 10456.43
C. TRUSS PLATES		HETA 16	11473.3
D. INSULATION FORMS		LLSTA 24	10852.4
E. LINTELS		ABW 66Z	10849.6
F. OTHERS		ABW 44Z	10849.6
6. NEW EXTERIOR ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the Inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

NOTES: _____

