

42578

20

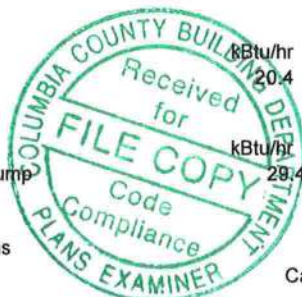
FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 24 Emerald Cove ph II	Builder Name: Lipscomb & Eagle
Street:	Permit Office: Columbia County
City, State, Zip: Lake City, FL,	Permit Number:
Owner:	Jurisdiction:
Design Location: FL, Gainesville	County: Columbia (Florida Climate Zone 2)

<p>1. New construction or existing: New (From Plans)</p> <p>2. Single family or multiple family: Detached</p> <p>3. Number of units, if multiple family: 1</p> <p>4. Number of Bedrooms: 3</p> <p>5. Is this a worst case?: No</p> <p>6. Conditioned floor area above grade (ft²): 1703 Conditioned floor area below grade (ft²): 0</p> <p>7. Windows (209.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25</td> <td>209.00 ft²</td> </tr> <tr> <td>b. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> <tr> <td>c. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> </tbody> </table> <p>Area Weighted Average Overhang Depth: 4.763 ft. Area Weighted Average SHGC: 0.250</p> <p>8. Skylights</p> <table border="1"> <tbody> <tr> <td>c. U-Factor:(AVG): N/A SHGC(AVG): N/A</td> <td>ft²</td> </tr> </tbody> </table> <p>9. Floor Types (1703.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Insulation</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. Slab-On-Grade Edge Insulation: R=0.0</td> <td>1703.00 ft²</td> </tr> <tr> <td>b. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A: R=</td> <td>ft²</td> </tr> </tbody> </table>	Description	Area	a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25	209.00 ft²	b. U-Factor: N/A SHGC:	ft²	c. U-Factor: N/A SHGC:	ft²	c. U-Factor:(AVG): N/A SHGC(AVG): N/A	ft²	Insulation	Area	a. Slab-On-Grade Edge Insulation: R=0.0	1703.00 ft²	b. N/A: R=	ft²	c. N/A: R=	ft²	<p>10. Wall Types(2007.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Insulation</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. Frame - Wood, Exterior: R=13.0</td> <td>1728.00 ft²</td> </tr> <tr> <td>b. Frame - Wood, Adjacent: R=13.0</td> <td>279.00 ft²</td> </tr> <tr> <td>c. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>d. N/A: R=</td> <td>ft²</td> </tr> </tbody> </table> <p>11. Ceiling Types (1788.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Insulation</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. Under Attic (Vented): R=38.0</td> <td>1788.00 ft²</td> </tr> <tr> <td>b. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A: R=</td> <td>ft²</td> </tr> </tbody> </table> <p>12. Ducts</p> <table border="1"> <thead> <tr> <th>R</th> <th>ft²</th> </tr> </thead> <tbody> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Garage: 6</td> <td>425.75</td> </tr> </tbody> </table> <p>13. Cooling systems</p> <table border="1"> <thead> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> </thead> <tbody> <tr> <td>a. Central Unit: 20.4</td> <td>SEER:14.00</td> </tr> </tbody> </table> <p>14. Heating systems</p> <table border="1"> <thead> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> </thead> <tbody> <tr> <td>a. Electric Heat Pump: 29.4</td> <td>HSPF:8.20</td> </tr> </tbody> </table> <p>15. Hot water systems</p> <table border="1"> <tbody> <tr> <td>a. Electric</td> <td>Cap: 50 gallons EF: 0.920</td> </tr> <tr> <td>b. Conservation features</td> <td>None</td> </tr> </tbody> </table> <p>16. Credits: CV, Pstat</p>	Insulation	Area	a. Frame - Wood, Exterior: R=13.0	1728.00 ft²	b. Frame - Wood, Adjacent: R=13.0	279.00 ft²	c. N/A: R=	ft²	d. N/A: R=	ft²	Insulation	Area	a. Under Attic (Vented): R=38.0	1788.00 ft²	b. N/A: R=	ft²	c. N/A: R=	ft²	R	ft²	a. Sup: Attic, Ret: Attic, AH: Garage: 6	425.75	kBtu/hr	Efficiency	a. Central Unit: 20.4	SEER:14.00	kBtu/hr	Efficiency	a. Electric Heat Pump: 29.4	HSPF:8.20	a. Electric	Cap: 50 gallons EF: 0.920	b. Conservation features	None
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Glass/Floor Area: 0.123	Total Proposed Modified Loads: 43.11	PASS
	Total Baseline Loads: 44.73	

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

PREPARED BY: _____
DATE: _____ 3/11/2021

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 24 Emerald Cove ph II	Bedrooms:	3	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	1703	Lot #:	24
Owner Name:		Total Stories:	1	Block/Subdivision:	Emerald Cove II
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Lipscomb & Eagle	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , 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	1703	15327

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1703	15327	Yes	6	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulation	Main	223 ft	0	1703 ft²	----	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	Gable or shed	Composition shingles	2047 ft²	568 ft²	Medium	Y	0.96	No	0.9	No	0	33.7

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Partial cathedral ceili	Vented	300	1703 ft²	Y	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Double Batt	1788 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ormt	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	W	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²		0.23	0.75	0
___ 2	W	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²		0.23	0.75	0
___ 3	S	Exterior	Frame - Wood	Main	13	20		9		180.0 ft²		0.23	0.75	0
___ 4	E	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²		0.23	0.75	0
___ 5	S	Exterior	Frame - Wood	Main	13	12	4	9		111.0 ft²		0.23	0.75	0
___ 6	E	Exterior	Frame - Wood	Main	13	33	4	9		300.0 ft²		0.23	0.75	0
___ 7	N	Exterior	Frame - Wood	Main	13	12	8	9		114.0 ft²		0.23	0.75	0
___ 8	W	Exterior	Frame - Wood	Main	13	10		9		90.0 ft²		0.23	0.75	0
___ 9	N	Exterior	Frame - Wood	Main	13	21	8	9		195.0 ft²		0.23	0.75	0
___ 10	W	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²		0.23	0.75	0
___ 11	N	Exterior	Frame - Wood	Main	13	28		9		252.0 ft²		0.23	0.75	0
___ 12	W	Exterior	Frame - Wood	Main	13	22		9		198.0 ft²		0.23	0.75	0
___ 13	S	Garage	Frame - Wood	Main	13	22		9		198.0 ft²		0.23	0.75	0
___ 14	W	Garage	Frame - Wood	Main	13	9		9		81.0 ft²		0.23	0.75	0

DOORS

✓ #	Ormt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	S	Insulated	Main	None	.46	3		6	8	20 ft²
___ 2	S	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ormt	Wall		NFRC	U-Factor	SHGC	Imp	Area	Overhang		Int Shade	Screening
		ID	Frame Panes						Depth	Separation		
___ 1	W	1	Vinyl Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 2	S	3	Vinyl Low-E Double	Yes	0.36	0.25	N	45.0 ft²	6 ft 10 in	1 ft 0 in	None	None
___ 3	S	5	Vinyl Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 4	E	6	Vinyl Low-E Double	Yes	0.36	0.25	N	4.0 ft²	1 ft 0 in	5 ft 0 in	None	None
___ 5	N	7	Vinyl Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 6	N	9	Vinyl Low-E Double	Yes	0.36	0.25	N	40.0 ft²	9 ft 6 in	1 ft 0 in	None	None
___ 7	N	9	Vinyl Low-E Double	Yes	0.36	0.25	N	8.0 ft²	9 ft 6 in	1 ft 0 in	None	None
___ 8	W	10	Vinyl Low-E Double	Yes	0.36	0.25	N	15.0 ft²	5 ft 6 in	1 ft 0 in	None	None
___ 9	N	11	Vinyl Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 10	N	11	Vinyl Low-E Double	Yes	0.36	0.25	N	16.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 11	W	12	Vinyl Low-E Double	Yes	0.36	0.25	N	16.0 ft²	1 ft 6 in	1 ft 0 in	None	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE

<input checked="" type="checkbox"/>	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
	1	491.26 ft²	491.26 ft²	57.633 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1277.3	70.07	131.56	.1027	5

HEATING SYSTEM

<input checked="" type="checkbox"/>	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
	1	Electric Heat Pump/	None	Single	HSPF:8.2	29.38 kBtu/hr	1	sys#1

COOLING SYSTEM

<input checked="" type="checkbox"/>	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	Central Unit/	None	Single	SEER: 14	20.43 kBtu/hr	600 cfm	0.7	1	sys#1

HOT WATER SYSTEM

<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	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
	None	None			ft²		

DUCTS

<input checked="" type="checkbox"/>	#	--- Supply ---			--- Return ---			Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area	Leakage Type						Heat	Cool
	1	Attic	6	425.75 f	Attic	85.15 ft²	Default Leakage	Garage	(Default) c	(Default) c			1	1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" 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 checked="" 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 checked="" 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

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	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

, Lake City, FL,

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=13.0	1728.00 ft ²
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	279.00 ft ²
4. Number of Bedrooms	3		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1703		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	1788.00 ft ²
a. U-Factor:	Dbl, U=0.36	209.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.25		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	12. Ducts, location & insulation level	R	ft ²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Garage	6	425.75
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	20.4	SEER:14.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	29.4	HSPF:8.20
Area Weighted Average Overhang Depth:		4.763 ft.	15. Hot water systems		Cap: 50 gallons
Area Weighted Average SHGC:		0.250	a. Electric		EF: 0.92
8. Skylights	Description	Area	b. Conservation features		None
a. U-Factor(AVG):	N/A	ft ²			
SHGC(AVG):	N/A		Credits (Performance method)		CV, Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	1703.00 ft ²			
b. N/A	R=	ft ²			
c. N/A	R=	ft ²			

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 #:
Job Information	
Builder: Lipscomb & Eagle	Community: _____ Lot: 24
Address:	
City: Lake City	State: FL Zip: _____
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
<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.	
<input 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 R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. <i>ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI):</i> 5.000	
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{15327}{\text{ACH}(50)} = \text{ACH}(50)$ <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <input type="checkbox"/> PASS <input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. </div> <div> Method for calculating building volume: <input type="radio"/> Retrieved from architectural plans <input checked="" type="radio"/> Code software calculated <input type="radio"/> Field measured and calculated </div> </div>	
<p>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.</p> <p>During testing:</p> <ol style="list-style-type: none"> Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. Heating and cooling systems, if installed at the time of the test, shall be turned off. 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: _____	