

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**Florida Department of Business and Professional Regulation - Residential Performance Method**

Project Name: Lot 14 Amelia Landing 1		Builder Name:	
Street:		Permit Office: Columbia County	
City, State, Zip: Lake City, FL, 32025		Permit Number:	
Owner: N/A		Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	

<table border="0" style="width:100%;"> <tr> <td>1. New construction or existing</td> <td>New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>4</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>1880</td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(265.5 sqft.)</td> <td>Description Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>Dbl, U=0.36 265.50 ft²</td> </tr> <tr> <td>SHGC:</td> <td>SHGC=0.25</td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td colspan="2">Area Weighted Average Overhang Depth: 4.046 ft</td> </tr> <tr> <td colspan="2">Area Weighted Average SHGC: 0.250</td> </tr> <tr> <td>8. Skylights</td> <td>Description Area</td> </tr> <tr> <td>U-Factor:(AVG)</td> <td>N/A N/A ft²</td> </tr> <tr> <td>SHGC(AVG):</td> <td>N/A</td> </tr> <tr> <td>9. Floor Types</td> <td>Insulation Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R= 0.0 1880.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table>	1. New construction or existing	New (From Plans)	2. Single family or multiple family	Detached	3. Number of units, if multiple family	1	4. Number of Bedrooms	4	5. Is this a worst case?	No	6. Conditioned floor area above grade (ft ²)	1880	Conditioned floor area below grade (ft ²)	0	7. Windows(265.5 sqft.)	Description Area	a. U-Factor:	Dbl, U=0.36 265.50 ft ²	SHGC:	SHGC=0.25	b. U-Factor:	N/A ft ²	SHGC:		c. U-Factor:	N/A ft ²	SHGC:		Area Weighted Average Overhang Depth: 4.046 ft		Area Weighted Average SHGC: 0.250		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 1880.00 ft ²	b. N/A	R= ft ²	c. N/A	R= ft ²	<table border="0" style="width:100%;"> <tr> <td>10. Wall Types(1959.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0 1668.00 ft²</td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=13.0 291.00 ft²</td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> </tr> <tr> <td>11. Ceiling Types(1974.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td>a. Flat ceiling under att (Vented)</td> <td>R=38.0 1974.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> <tr> <td>12. Roof(Comp. Shingles, Vented)</td> <td>Deck R=0.0 2177 ft²</td> </tr> <tr> <td>13. Ducts, location & insulation level</td> <td>R ft²</td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Garage</td> <td>6 468</td> </tr> <tr> <td>b.</td> <td></td> </tr> <tr> <td>c.</td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td>kBtu/hr Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>23.8 SEER2:16.00</td> </tr> <tr> <td>15. Heating Systems</td> <td>kBtu/hr Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>32.7 HSPF2:8.80</td> </tr> <tr> <td>16. Hot Water Systems</td> <td></td> </tr> <tr> <td>a. Electric</td> <td>Cap: 40 gallons</td> </tr> <tr> <td></td> <td>EF: 0.920</td> </tr> <tr> <td>b. Conservation features</td> <td></td> </tr> <tr> <td></td> <td>None</td> </tr> <tr> <td>17. Credits</td> <td>CV, Pstat</td> </tr> </table>	10. Wall Types(1959.0 sqft.)	Insulation Area	a. Frame - Wood, Exterior	R=13.0 1668.00 ft ²	b. Frame - Wood, Adjacent	R=13.0 291.00 ft ²	c. N/A		d. N/A		11. Ceiling Types(1974.0 sqft.)	Insulation Area	a. Flat ceiling under att (Vented)	R=38.0 1974.00 ft ²	b. N/A		c. N/A		12. Roof(Comp. Shingles, Vented)	Deck R=0.0 2177 ft ²	13. Ducts, location & insulation level	R ft ²	a. Sup: Attic, Ret: Attic, AH: Garage	6 468	b.		c.		14. Cooling Systems	kBtu/hr Efficiency	a. Central Unit	23.8 SEER2:16.00	15. Heating Systems	kBtu/hr Efficiency	a. Electric Heat Pump	32.7 HSPF2:8.80	16. Hot Water Systems		a. Electric	Cap: 40 gallons		EF: 0.920	b. Conservation features			None	17. Credits	CV, Pstat
1. New construction or existing	New (From Plans)																																																																																														
2. Single family or multiple family	Detached																																																																																														
3. Number of units, if multiple family	1																																																																																														
4. Number of Bedrooms	4																																																																																														
5. Is this a worst case?	No																																																																																														
6. Conditioned floor area above grade (ft ²)	1880																																																																																														
Conditioned floor area below grade (ft ²)	0																																																																																														
7. Windows(265.5 sqft.)	Description Area																																																																																														
a. U-Factor:	Dbl, U=0.36 265.50 ft ²																																																																																														
SHGC:	SHGC=0.25																																																																																														
b. U-Factor:	N/A ft ²																																																																																														
SHGC:																																																																																															
c. U-Factor:	N/A ft ²																																																																																														
SHGC:																																																																																															
Area Weighted Average Overhang Depth: 4.046 ft																																																																																															
Area Weighted Average SHGC: 0.250																																																																																															
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 1880.00 ft ²																																																																																														
b. N/A	R= ft ²																																																																																														
c. N/A	R= ft ²																																																																																														
10. Wall Types(1959.0 sqft.)	Insulation Area																																																																																														
a. Frame - Wood, Exterior	R=13.0 1668.00 ft ²																																																																																														
b. Frame - Wood, Adjacent	R=13.0 291.00 ft ²																																																																																														
c. N/A																																																																																															
d. N/A																																																																																															
11. Ceiling Types(1974.0 sqft.)	Insulation Area																																																																																														
a. Flat ceiling under att (Vented)	R=38.0 1974.00 ft ²																																																																																														
b. N/A																																																																																															
c. N/A																																																																																															
12. Roof(Comp. Shingles, Vented)	Deck R=0.0 2177 ft ²																																																																																														
13. Ducts, location & insulation level	R ft ²																																																																																														
a. Sup: Attic, Ret: Attic, AH: Garage	6 468																																																																																														
b.																																																																																															
c.																																																																																															
14. Cooling Systems	kBtu/hr Efficiency																																																																																														
a. Central Unit	23.8 SEER2:16.00																																																																																														
15. Heating Systems	kBtu/hr Efficiency																																																																																														
a. Electric Heat Pump	32.7 HSPF2:8.80																																																																																														
16. Hot Water Systems																																																																																															
a. Electric	Cap: 40 gallons																																																																																														
	EF: 0.920																																																																																														
b. Conservation features																																																																																															
	None																																																																																														
17. Credits	CV, Pstat																																																																																														

Glass/Floor Area: 0.141

Total Proposed Modified Loads: 49.98

Total Baseline Loads: 52.78

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.

PASS

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

PREPARED BY: _____

3 / 1 / 2024

DATE: _____

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.
- 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Lot 14 Amelia Landing 1	Bedrooms:	4	Address type:	Lot
Building Type:	User	Conditioned Area:	1880	Lot #:	14
Owner:	N/A	Total Stories:	1	Block/SubDivision:	Amelia Landing
Builder Home ID:		Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32025
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2024				
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	1880	16920 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1880	16920	Yes	4	4	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1880 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	Main	252	1880 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	2177 ft²	0 ft²	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	1880 ft²	Y	N

CEILING

(Total Exposed Area = 1974 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	1974.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1959 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	14.0	4	9.0	0	129.0	0.084		0.23	0.75	0 %			
___ 2	S	Exterior	Frame - Wood	Main	13.0	6.0	4	10.0	0	63.3	0.084		0.23	0.75	0 %			
___ 3	E	Garage	Frame - Wood	Main	13.0	10.0	4	9.0	0	93.0	0.084		0.23	0.75	0 %			
___ 4	S	Garage	Frame - Wood	Main	13.0	22.0	0	9.0	0	198.0	0.084		0.23	0.75	0 %			
___ 5	E	Exterior	Frame - Wood	Main	13.0	30.0	4	9.0	0	273.0	0.084		0.23	0.75	0 %			
___ 6	N	Exterior	Frame - Wood	Main	13.0	39.0	10	9.0	0	358.5	0.084		0.23	0.75	0 %			
___ 7	W	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	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	16.0	6	10.0	0	165.0	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	W	Exterior	Frame - Wood	Main	13.0	37.0	6	9.0	0	337.5	0.084		0.23	0.75	0 %			
___ 12	S	Exterior	Frame - Wood	Main	13.0	13.0	8	10.0	0	136.7	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 = 266 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	16.0	1	4.00	4.00	1.0	1.0	None	None	
___ 2	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	7.5	0.5	None	None	
___ 3	S	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	1.5	1.0	None	None	
___ 4	E	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None	
___ 5	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None	
___ 6	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	62.5	5	2.50	5.00	1.5	1.0	None	None	
___ 7	W	8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	20.0	1	3.00	6.67	6.0	1.0	None	None	
___ 8	N	9	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	9.5	1.0	None	None	
___ 9	E	10	Vinyl	Low-E Double	Y	0.36	0.25	N	N	20.0	2	2.00	5.00	1.5	1.0	None	None	
___ 10	W	11	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)	0.00040	1974	108.30	203.32	0.1438	7.0	All	16920 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	480 ft²	480 ft²	56 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 Entry	HeatPump--- Power	Ducts Volt	Block Current
1	Electric Heat Pump	None/Single		HSPF2: 8.80	32.7		0.00	0.00	0.00 sys#1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
1	Central Unit	None/Single		SEER2:16.0	23.8	720	0.75	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)	40.00 gal	40 gal	120 deg	Standard	None	97
	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 OUT	RLF	HVAC # Heat Cool
1	Attic	6.0	468 ft²	Attic	6.0	94 ft²	Default Leakage	Garage	(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* = 95

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

,Lake City,FL,32025

1. New construction or existing	New (From Plans)	10. Wall Types(1959.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1668.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	291.00 ft ²
4. Number of Bedrooms	4	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1880	11. Ceiling Types(1974.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1974.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck R=0.0		2177 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	468
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	4.046 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	23.8	SEER2:16.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	32.7	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. Electric		Cap: 40 gallons
b. N/A	R=			EF: 0.920
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: _____ City/FL Zip: Lake City,FL,32025



*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.