

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 28 Turkey Creek  
 Street:  
 City, State, Zip: Lake City, FL, 32055  
 Owner:  
 Design Location: FL, Gainesville

Builder Name: Lipscomb & Eagle  
 Permit Office: Columbia County  
 Permit Number:  
 Jurisdiction:  
 County: Columbia (Florida Climate Zone 2)

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	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1736
Conditioned floor area below grade (ft²)	0
7. Windows (282.7 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.35 282.67 ft²
SHGC:	SHGC=0.29
b. U-Factor:	N/A ft²
SHGC:	
c. U-Factor:	N/A ft²
SHGC:	
Area Weighted Average Overhang Depth:	4.825 ft.
Area Weighted Average SHGC:	0.290
8. Skylights	Area
c. U-Factor:(AVG)	N/A ft²
SHGC(AVG):	N/A
9. Floor Types (1736.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1736.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²

10. Wall Types (1758.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 1578.00 ft²
b. Frame - Wood, Adjacent	R=13.0 180.00 ft²
c. N/A	R= ft²
d. N/A	R= ft²
11. Ceiling Types (1823.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=38.0 1823.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²
12. Ducts	R ft²
a. Sup: Attic, Ret: Attic, AH: Garage	6 434
13. Cooling systems	kBtu/hr Efficiency
a. Central Unit	23.2 SEER:15.50
14. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	27.5 HSPF:8.20
15. Hot water systems	Cap: 50 gallons
a. Electric	EF: 0.920
b. Conservation features	
None	
16. Credits	CV, Pstat



Glass/Floor Area: 0.163

Total Proposed Modified Loads: 46.18

Total Baseline Loads: 46.79

**PASS**

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

PREPARED BY: [Signature]  
 DATE: 3/1/2021

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 28 Turkey Creek	Bedrooms:	3	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	1736	Lot #	28
Owner Name:		Total Stories:	1	Block/Subdivision:	Turkey Creek
# 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 , 32055
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

## CLIMATE

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

## BLOCKS

Number	Name	Area	Volume
1	Block1	1736	15624

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1736	15624	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	188 ft	0	1736 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	2086 ft²	578 ft²	Medium	Y	0.96	No	0.9	No	0	33.69

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1736 ft²	Y	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Double Batt	1823 ft²	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	13	8	9		123.0 ft²		0.23	0.75	0
2	W	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²		0.23	0.75	0
3	W	Exterior	Frame - Wood	Main	13	8	8	9		78.0 ft²		0.23	0.75	0
4	S	Garage	Frame - Wood	Main	13	20		9		180.0 ft²		0.23	0.75	0
5	E	Exterior	Frame - Wood	Main	13	59	0	9		531.0 ft²		0.23	0.75	0
6	N	Exterior	Frame - Wood	Main	13	24		9		216.0 ft²		0.23	0.75	0
7	W	Exterior	Frame - Wood	Main	13	16		9		144.0 ft²		0.23	0.75	0
8	N	Exterior	Frame - Wood	Main	13	10	8	9		96.0 ft²		0.23	0.75	0
9	W	Exterior	Frame - Wood	Main	13	28	4	9		255.0 ft²		0.23	0.75	0
10	W	Exterior	Frame - Wood	Main	13	7		9		63.0 ft²		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 ft²
2	S	Insulated	Main	None	.46	3		6	8	20 ft²

## 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	TIM	Low-E Double	Yes	0.35	0.29	N	6.7 ft²	7 ft 6 in	1 ft 0 in	None	None
2	S	1	Vinyl	Low-E Double	Yes	0.35	0.29	N	30.0 ft²	7 ft 6 in	1 ft 0 in	None	None
3	W	2	Vinyl	Low-E Double	Yes	0.35	0.29	N	30.0 ft²	7 ft 6 in	1 ft 0 in	None	None
4	E	5	Vinyl	Low-E Double	Yes	0.35	0.29	N	60.0 ft²	1 ft 6 in	1 ft 0 in	None	None
5	E	5	Vinyl	Low-E Double	Yes	0.35	0.29	N	6.0 ft²	1 ft 6 in	1 ft 0 in	None	None
6	N	6	Vinyl	Low-E Double	Yes	0.35	0.29	N	20.0 ft²	1 ft 6 in	1 ft 0 in	None	None
7	W	7	TIM	Low-E Double	Yes	0.35	0.29	N	20.0 ft²	11 ft 6 in	1 ft 0 in	None	None
8	N	8	Vinyl	Low-E Double	Yes	0.35	0.29	N	40.0 ft²	10 ft 0 in	1 ft 0 in	None	None
9	W	9	Vinyl	Low-E Double	Yes	0.35	0.29	N	60.0 ft²	1 ft 6 in	1 ft 0 in	None	None
10	W	9	Vinyl	Low-E Double	Yes	0.35	0.29	N	10.0 ft²	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	648 ft²	648 ft²	82 ft	9 ft	1

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1302	71.43	134.1	.1027	5

## INPUT SUMMARY CHECKLIST REPORT

## 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	27.54 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: 15.523.18	kBtu/hr	690 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 <sup>2</sup>		

## DUCTS

<input checked="" type="checkbox"/>	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
<input type="checkbox"/>	1	Attic	6	434 ft <sup>2</sup>	Attic	86.8 ft <sup>2</sup>	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 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 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		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 <sup>2</sup>	0 ft	0.3	Main



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 99

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

, Lake City, FL, 32055

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	1578.00 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	180.00 ft <sup>2</sup>
4. Number of Bedrooms	3	c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No	d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area (ft <sup>2</sup> )	1736	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=38.0	1823.00 ft <sup>2</sup>
a. U-Factor:	DbI, U=0.35	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.29	c. N/A	R=	ft <sup>2</sup>
b. U-Factor:	N/A	12. Ducts, location & insulation level		R ft <sup>2</sup>
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	434
c. U-Factor:	N/A			
SHGC:		13. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:	N/A	a. Central Unit	23.2	SEER:15.50
SHGC:				
Area Weighted Average Overhang Depth:	4.825 ft.	14. Heating systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.290	a. Electric Heat Pump	27.5	HSPF:8.20
8. Skylights	Description			
a. U-Factor(AVG):	N/A	15. Hot water systems		Cap: 50 gallons
SHGC(AVG):	N/A	a. Electric		EF: 0.92
9. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	Credits (Performance method)		CV, Pstat
c. N/A	R=			

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.