

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

<b>Project Name:</b> Lot 30 Turkey Creek - Model 1523 <b>Street:</b> <b>City, State, Zip:</b> Lake City, FL, 32055 <b>Owner:</b> N/A <b>Design Location:</b> FL, Gainesville	<b>Builder Name:</b> Lipscomb & Eagle <b>Permit Office:</b> Columbia County <b>Permit Number:</b> <b>Jurisdiction:</b> <b>County:</b> Columbia (Florida Climate Zone 2)
--	---

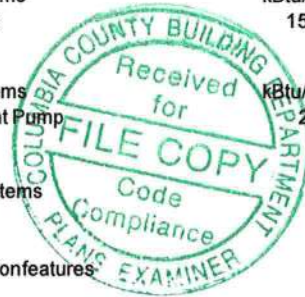
<table style="width:100%;"> <tr> <td style="width:30%;">1. New construction or existing</td> <td style="width:70%;">New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Single-family</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. 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 (ft<sup>2</sup>)</td> <td>1523</td> </tr> <tr> <td>Conditioned floor area below grade (ft<sup>2</sup>)</td> <td>0</td> </tr> <tr> <td>7. Windows (130.3 sqft.)</td> <td> <table style="width:100%;"> <tr> <th style="width:30%;">Description</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.36</td> <td>130.35 ft<sup>2</sup></td> </tr> <tr> <td>SHGC: SHGC=0.25</td> <td></td> </tr> <tr> <td>b. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>d. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.973 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.250</td> </tr> </table> </td> </tr> <tr> <td>8. Floor Types (1523.0 sqft.)</td> <td> <table style="width:100%;"> <tr> <th style="width:30%;">Insulation</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 1523.00 ft<sup>2</sup></td> </tr> <tr> <td>b. N/A</td> <td>R= ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R= ft<sup>2</sup></td> </tr> </table> </td> </tr> </table>	1. New construction or existing	New (From Plans)	2. Single family or multiple family	Single-family	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 <sup>2</sup> )	1523	Conditioned floor area below grade (ft <sup>2</sup> )	0	7. Windows (130.3 sqft.)	<table style="width:100%;"> <tr> <th style="width:30%;">Description</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.36</td> <td>130.35 ft<sup>2</sup></td> </tr> <tr> <td>SHGC: SHGC=0.25</td> <td></td> </tr> <tr> <td>b. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>d. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.973 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.250</td> </tr> </table>	Description	Area	a. U-Factor: Dbl, U=0.36	130.35 ft <sup>2</sup>	SHGC: SHGC=0.25		b. U-Factor: N/A	ft <sup>2</sup>	SHGC:		c. U-Factor: N/A	ft <sup>2</sup>	SHGC:		d. U-Factor: N/A	ft <sup>2</sup>	SHGC:		Area Weighted Average Overhang Depth:	2.973 ft.	Area Weighted Average SHGC:	0.250	8. Floor Types (1523.0 sqft.)	<table style="width:100%;"> <tr> <th style="width:30%;">Insulation</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 1523.00 ft<sup>2</sup></td> </tr> <tr> <td>b. N/A</td> <td>R= ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R= ft<sup>2</sup></td> </tr> </table>	Insulation	Area	a. Slab-On-Grade Edge Insulation	R=0.0 1523.00 ft <sup>2</sup>	b. N/A	R= ft <sup>2</sup>	c. N/A	R= ft <sup>2</sup>	<table style="width:100%;"> <tr> <td style="width:30%;">9. Wall Types (1432.5 sqft.)</td> <td style="width:30%;">Insulation</td> <td style="width:40%;">Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0</td> <td>1092.00 ft<sup>2</sup></td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=13.0</td> <td>204.00 ft<sup>2</sup></td> </tr> <tr> <td>c. Frame - Wood, Exterior</td> <td>R=19.0</td> <td>136.50 ft<sup>2</sup></td> </tr> <tr> <td>d. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>10. Ceiling Types (1599.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Under Attic (Vented)</td> <td>R=38.0</td> <td>1599.00 ft<sup>2</sup></td> </tr> <tr> <td>b. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>11. Ducts</td> <td>R</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Main</td> <td>6</td> <td>300.6</td> </tr> <tr> <td>12. Cooling systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>15.7</td> <td>SEER:14.00</td> </tr> <tr> <td>13. Heating systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>23.6</td> <td>HSPF:8.20</td> </tr> <tr> <td>14. Hot water systems</td> <td></td> <td></td> </tr> <tr> <td>a. Electric</td> <td></td> <td>Cap: 40 gallons</td> </tr> <tr> <td>b. Conservation features</td> <td></td> <td>EF: 0.920</td> </tr> <tr> <td>15. Credits</td> <td></td> <td>CV, Pstat</td> </tr> </table>	9. Wall Types (1432.5 sqft.)	Insulation	Area	a. Frame - Wood, Exterior	R=13.0	1092.00 ft <sup>2</sup>	b. Frame - Wood, Adjacent	R=13.0	204.00 ft <sup>2</sup>	c. Frame - Wood, Exterior	R=19.0	136.50 ft <sup>2</sup>	d. N/A	R=	ft <sup>2</sup>	10. Ceiling Types (1599.0 sqft.)	Insulation	Area	a. Under Attic (Vented)	R=38.0	1599.00 ft <sup>2</sup>	b. N/A	R=	ft <sup>2</sup>	c. N/A	R=	ft <sup>2</sup>	11. Ducts	R	ft <sup>2</sup>	a. Sup: Attic, Ret: Attic, AH: Main	6	300.6	12. Cooling systems	kBtu/hr	Efficiency	a. Central Unit	15.7	SEER:14.00	13. Heating systems	kBtu/hr	Efficiency	a. Electric Heat Pump	23.6	HSPF:8.20	14. Hot water systems			a. Electric		Cap: 40 gallons	b. Conservation features		EF: 0.920	15. Credits		CV, Pstat
1. New construction or existing	New (From Plans)																																																																																																									
2. Single family or multiple family	Single-family																																																																																																									
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 <sup>2</sup> )	1523																																																																																																									
Conditioned floor area below grade (ft <sup>2</sup> )	0																																																																																																									
7. Windows (130.3 sqft.)	<table style="width:100%;"> <tr> <th style="width:30%;">Description</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.36</td> <td>130.35 ft<sup>2</sup></td> </tr> <tr> <td>SHGC: SHGC=0.25</td> <td></td> </tr> <tr> <td>b. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>d. U-Factor: N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.973 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.250</td> </tr> </table>	Description	Area	a. U-Factor: Dbl, U=0.36	130.35 ft <sup>2</sup>	SHGC: SHGC=0.25		b. U-Factor: N/A	ft <sup>2</sup>	SHGC:		c. U-Factor: N/A	ft <sup>2</sup>	SHGC:		d. U-Factor: N/A	ft <sup>2</sup>	SHGC:		Area Weighted Average Overhang Depth:	2.973 ft.	Area Weighted Average SHGC:	0.250																																																																																			
Description	Area																																																																																																									
a. U-Factor: Dbl, U=0.36	130.35 ft <sup>2</sup>																																																																																																									
SHGC: SHGC=0.25																																																																																																										
b. U-Factor: N/A	ft <sup>2</sup>																																																																																																									
SHGC:																																																																																																										
c. U-Factor: N/A	ft <sup>2</sup>																																																																																																									
SHGC:																																																																																																										
d. U-Factor: N/A	ft <sup>2</sup>																																																																																																									
SHGC:																																																																																																										
Area Weighted Average Overhang Depth:	2.973 ft.																																																																																																									
Area Weighted Average SHGC:	0.250																																																																																																									
8. Floor Types (1523.0 sqft.)	<table style="width:100%;"> <tr> <th style="width:30%;">Insulation</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 1523.00 ft<sup>2</sup></td> </tr> <tr> <td>b. N/A</td> <td>R= ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R= ft<sup>2</sup></td> </tr> </table>	Insulation	Area	a. Slab-On-Grade Edge Insulation	R=0.0 1523.00 ft <sup>2</sup>	b. N/A	R= ft <sup>2</sup>	c. N/A	R= ft <sup>2</sup>																																																																																																	
Insulation	Area																																																																																																									
a. Slab-On-Grade Edge Insulation	R=0.0 1523.00 ft <sup>2</sup>																																																																																																									
b. N/A	R= ft <sup>2</sup>																																																																																																									
c. N/A	R= ft <sup>2</sup>																																																																																																									
9. Wall Types (1432.5 sqft.)	Insulation	Area																																																																																																								
a. Frame - Wood, Exterior	R=13.0	1092.00 ft <sup>2</sup>																																																																																																								
b. Frame - Wood, Adjacent	R=13.0	204.00 ft <sup>2</sup>																																																																																																								
c. Frame - Wood, Exterior	R=19.0	136.50 ft <sup>2</sup>																																																																																																								
d. N/A	R=	ft <sup>2</sup>																																																																																																								
10. Ceiling Types (1599.0 sqft.)	Insulation	Area																																																																																																								
a. Under Attic (Vented)	R=38.0	1599.00 ft <sup>2</sup>																																																																																																								
b. N/A	R=	ft <sup>2</sup>																																																																																																								
c. N/A	R=	ft <sup>2</sup>																																																																																																								
11. Ducts	R	ft <sup>2</sup>																																																																																																								
a. Sup: Attic, Ret: Attic, AH: Main	6	300.6																																																																																																								
12. Cooling systems	kBtu/hr	Efficiency																																																																																																								
a. Central Unit	15.7	SEER:14.00																																																																																																								
13. Heating systems	kBtu/hr	Efficiency																																																																																																								
a. Electric Heat Pump	23.6	HSPF:8.20																																																																																																								
14. Hot water systems																																																																																																										
a. Electric		Cap: 40 gallons																																																																																																								
b. Conservation features		EF: 0.920																																																																																																								
15. Credits		CV, Pstat																																																																																																								

Glass/Floor Area: 0.086	Total Proposed Modified Loads: 41.52	<b>PASS</b>
	Total Baseline Loads: 43.62	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  <b>PREPARED BY:</b> <u>                    </u> <b>DATE:</b> <u>7/31/2020</u>  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.  <b>OWNER/AGENT:</b> <u>                    </u> <b>DATE:</b> <u>                    </u>	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.  <b>BUILDING OFFICIAL:</b> <u>                    </u> <b>DATE:</b> <u>                    </u>
---	---



- 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 30 Turkey Creek - Model 15			Bedrooms:	4		Address Type:	Lot Information				
Building Type:	User			Conditioned Area:	1523		Lot #	30				
Owner Name:	N/A			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:	Single-family											
New/Existing:	New (From Plans)											
Comment:												
CLIMATE												
✓	Design Location	TMY Site		Design Temp 97.5 % 2.5 %		Int Design Temp Winter Summer		Heating Degree Days	Design Moisture	Daily Temp Range		
_____	FL, Gainesville	FL_GAINESVILLE_REGI		32 92		70 75		1305.5	51	Medium		
BLOCKS												
	Number	Name	Area	Volume								
	1	Block1	1523	13707								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	Main	1523	13707	Yes	4	4	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	1523 ft²	----			0	0	1
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1831 ft²	0 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		1523 ft²	Y	N				
CEILING												
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type				
_____	1	Under Attic (Vented)	Main	38	Double Batt	1599 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	28		9		252.0 ft²		0.23	0.75	0
✓	2	E	Exterior	Frame - Wood	Main	13	28	4	9		255.0 ft²		0.23	0.75	0
✓	3	N	Exterior	Frame - Wood	Main	13	35	8	9		321.0 ft²		0.23	0.75	0
✓	4	W	Exterior	Frame - Wood	Main	13	29	4	9		264.0 ft²		0.23	0.75	0
✓	5	S	Garage	Frame - Wood	Main	13	22	8	9		204.0 ft²		0.23	0.75	0
✓	6	N	Exterior	Frame - Wood	Main	19	15	2	9		136.5 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	Wood	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	Vinyl	Low-E Double	Yes	0.36	0.25	N	38.4 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	2	E	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	10.2 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	3	N	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	48.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	4	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	19.2 ft²	7 ft 6 in	1 ft 0 in	None	None
✓	5	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.8 ft²	7 ft 6 in	1 ft 0 in	Drapes/blinds	None
✓	6	W	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	1.7 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	468.458889 ft²	468.458889 ft²	62.667 ft	9 ft	1

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1142.3	62.71	117.93	.1128	5

## HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	None	Single	HSPF:8.2	23.57 kBtu/hr	1	sys#1

## INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM										
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	Single	SEER: 14	15.68 kBtu/hr	480 cfm	0.7	1	sys#1

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Garage	0.92	40 gal	30 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS														
✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
✓	1	Attic	6	300.6 ft²	Attic	75.15 ft²	Default Leakage	Main	(Default) c	(Default) c			1	1

TEMPERATURES														
Programable Thermostat: Y														
Ceiling Fans:														
Cooling	Heating	Venting	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]

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

MECHANICAL VENTILATION							
Type	Supply CFM	Exhaust CFM	Fan Watts	HRV	Heating System	Run Time	Cooling System
Runtime Vent	20	0	0	1 - Electric Heat Pump	%	1 - Central Unit	

MASS				
Mass Type	Area	Thickness	Furniture Fraction	Space
Default (8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 95

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location <u>Main</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>15.7</u>
6. Conditioned floor area (sq. ft.)	6. <u>1523</u>	a) Split system SEER <u>        </u>
7. Windows, type and area		b) Single package SEER <u>        </u>
a) U-factor:(weighted average)	7a. <u>0.360</u>	c) Ground/water source SEER/COP <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC EER <u>        </u>
c) Area	7c. <u>130.3</u>	e) Other <u>14.0</u>
8. Skylights		14. Heating system: Capacity <u>23.6</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u>        </u>
9. Floor type, insulation level:		c) Electric resistance COP <u>        </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u>        </u>
b) Wood, raised (R-value)	9b. <u>        </u>	e) Gas furnace, LPG AFUE <u>        </u>
c) Concrete, raised (R-value)	9c. <u>        </u>	f) Other <u>8.20</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.92</u>
1. Wood frame (Insulation R-value)	10A1. <u>varies</u>	b) Gas fired, natural gas EF <u>        </u>
2. Masonry (Insulation R-value)	10A2. <u>        </u>	c) Gas fired, LPG EF <u>        </u>
B. Adjacent:		d) Solar system with tank EF <u>        </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank EF <u>        </u>
2. Masonry (Insulation R-value)	10B2. <u>        </u>	f) Heat recovery unit HeatRec% <u>        </u>
11. Ceiling type and insulation level		g) Other <u>        </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u>        </u>	a) Ceiling fans <u>        </u>
c) Knee walls/skylight walls	11c. <u>        </u>	b) Cross ventilation <u>Yes</u>
d) Radiant barrier installed	11d. <u>Yes</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u>        </u>
		e) Multizone heating credit <u>        </u>
		f) Programmable thermostat <u>Yes</u>

\*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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 32055



# Envelope Leakage Test Report (Blower Door Test)

## Residential Prescriptive, Performance or ERI Method Compliance

### 2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:

Permit #:

#### Job Information

Builder: Lipscomb & Eagle

Community:

Lot: 30

Address:

City: Lake City

State: FL

Zip: 32055

#### 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 R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.  
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{13707}{\text{ACH}(50)} = \text{ACH}(50)$$

☒ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

☐ Retrieved from architectural plans

☒ Code software calculated

☐ Field measured and calculated

**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 2017 6th 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: \_\_\_\_\_