FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 22 Turkey Creek - Street: City, State, Zip: Lake City, FL, 32055 Owner: N/A Design Location: FL, Gainesville		Builder Name: Lipscomb & Eagle Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Clim	ateZone 2)						
 New construction or existing Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Windows (130.3 sqft.) Description U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 U-Factor: N/A SHGC: U-Factor: N/A SHGC: Skylighted Average Overhang Depth: Area Weighted Average SHGC: Skylights U-Factor: (AVG) N/A SHGC(AVG): N/A Floor Types (1523.0 sqft.) Slab-On-Grade Edge Insulation N/A N/A 	New (From Plans) Detached 1 4 No 1523 0 Area 130.35 ft² ft² ft² ft² 2.973 ft. 0.250 Area ft² Insulation Area R=0.0 1523.00 ft² R= ft² R= ft²	14. Heating systems a. Electric Heat Pump	eceive 15.7 SEER:14.00						
Glass/Floor Area: 0.086 Total Proposed Modified Loads: 39.67 Total Baseline Loads: 40.67 PASS									
I hereby certify that the plans and specthis calculation are in compliance with Code. PREPARED BY:		Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed	OF THE STATE						

- 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).

this building will be inspected for compliance with Section 553.908

Florida Statutes.

DATE:

BUILDING OFFICIAL:

DATE:

DATE:

with the Florida Energy Code.

OWNER/AGENT:

I hereby certify that this building, as designed, is in compliance

FORM R405-2020 INPUT SUMMARY CHECKLIST REPORT **PROJECT** Title: Lot 22 Turkey Creek - Model 15 4 Bedrooms: Lot Information Address Type: **Building Type:** User Conditioned Area: 1523 Lot# Owner Name: N/A Total Stories: Block/Subdivision: **Turkey Creek** 1 # of Units: 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: City, State, Zip: No Lake City, Family Type: Detached FL, 32055 New/Existing: New (From Plans) Comment: CLIMATE Design Temp Int Design Temp Heating Design **Daily Temp Design Location** TMY Site 2.5 % 97.5 % Winter Summer Degree Days Moisture Range FL_GAINESVILLE_REGI FL, Gainesville 32 92 70 75 1305.5 51 Medium **BLOCKS** Number Name Volume Area Block1 1523 13707 SPACES Occupants Number Name Area Volume Kitchen **Bedrooms** Infil ID Finished Cooled Heated 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 1523 ft² 0 0 1 ROOF Roof Gable Roof Solar Rad SA **Emitt Emitt** Deck Pitch # Type Materials Color Area Area Barr Absor. Tested Tested Insul. (deg) 1 Hip Composition shingles 1831 ft² Oft2 Medium Y 0.96 No 0.9 No 0 33.7 **ATTIC** # Ventilation Type Vent Ratio (1 in) Area RBS IRCC

111	12021	11.22	AA

1

#

1

Partial cathedral ceili

Under Attic (Vented)

Ceiling Type

Vented

Space

Main

300

CEILING

R-Value

38

1523 ft²

Ins Type

Double Batt

Y

Area

1599 ft²

N

Framing Frac

0.11

Truss Type

Wood

FORM	R405-2020
	CANADA CONTRACTOR CONTRACTOR

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS							
V #	Ornt	Adjac To	ent Wall	Туре	Space	Cavity R-Value	Wic Ft	lth In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade ⁹
1	S	Exterior	Fra	me - Wood	Main	13	28		9	252.0 ft	2	0.23	0.75	0
2	Ε	Exterior	r Fra	me - Wood	Main	13	28	4	9	255.0 ft	2	0.23	0.75	0
_ 3	Ν	Exterior	Fra	me - Wood	Main	13	35	8	9	321.0 ft	2	0.23	0.75	0
4	W	Exterior	Fra	me - Wood	Main	13	29	4	9	264.0 ft	2	0.23	0.75	0
5	S	Garage	Fra	me - Wood	Main	13	22	8	9	204.0 ft	2	0.23	0.75	0
_ 6	N	Exterior	r Fra	me - Wood	Main	19	15	2	9	136.5 ft	2	0.23	0.75	0
						DO	ors							
\checkmark	#	Orn	t	Door Type	Space			Storms	U-V		Width t In	Height Ft	t In	Area
	1	s		Insulated	Main			None	.4	6	3	6	8	20 ft²
_	2	S		Wood	Main			None	.4	6	3	6	8	20 ft²
					Prientation sho		OOWS		orientatio	n.				
,		Wall			ricitationsit	JWII IS THE CI	itereu, i	Toposed	Orientatio	and the second	erhang			
\checkmark	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area			Int Sha	ide	Screenir
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	38.4 ft	² 1 ft 6 in		None		None
	2	E 2	Vinyl	Low-E Double	Yes	0.36	0.25	N	10.2 ft	² 1 ft 6 in	1 ft 0 in	None	Э	None
	3	N 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	48.0 ft	² 1 ft 6 in	1 ft 0 in	None	Э	None
	4	N 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	19.2 ft	² 7 ft 6 in	1 ft 0 in	None	Э	None
	5	N 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.8 ft	² 7 ft 6 in	1 ft 0 in	Drapes/b	linds	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
						GAF	RAGE							
$\sqrt{}$	#	Floo	or Area	Ceiling	g Area	Exposed V	Vall Per	imeter	Avg.\	Wall Height	Expos	ed Wall Ins	ulation	
_	1	468.45	58889 ft²	468.458	889 ft²	62.	667 ft			9 ft		1		
						INFILT	RATIC	N						
s	Scope	٨	/lethod		SLA C	CFM 50	ELA	E	gLA	ACH	ACH	1 50		
Who	olehouse	e Prop	osed AC	H(50) .000	0286	1142.3	62.67	1.00	17.65	.1027	ŧ	5		
					1	HEATING	SYS	ГЕМ						
$\sqrt{}$	#	System T	уре	Su	btype	Speed		Efficienc	у	Capacity		Е	Block	Ducts
	1	Electric H	leat Pum	np/ No	ne	Single		HSPF:8.	2 2	3.57 kBtu/h	r		1	sys#1

ORM R4	105-202	20	INP	UT SUN	MARY C	HECK	LIST RE	PORT						
					COOL	ING SY	STEM							
\checkmark	1.5	System Type		Subtype		otype	Efficiency		Air F	low	SHR	Block	Di	ucts
	1 (Central Unit/		None	Sing	gle	SEER: 14	15.68 kBtu/	hr 480	cfm	0.7	1	sy	/s#1
					HOT W	ATER S	YSTEM							
\checkmark	#	System Type	SubType	Locat	on EF	(Сар	Use	SetPnt		Co	nservatio	n	
	1	Electric	None	Garag	je 0.92	40	gal gal	30 gal	120 deg			None		
					OLAR HO	T WATE	R SYSTE	EM						
\checkmark	FSEC Cert #	Company N	ame		System	Model#	C	ollector Model		ollector	Stor			
	None	None	anie		System	Model#	C	Director Model	# /	Area ft²	Volu	ıme	FEF	
						DUCTS								-
/		Sup			Return	7000		Air	CFM 25	CFM25	2200	10.00 U 10.00		AC#
V	#		-Value Area				kageType	Handler	0.322	OUT	QN	RLF	Heat	52230
	1	Attic	6 300.6 f	t² Att		PERATU	IRFS	Main	(Default)	(Default)	С		1	1
Program	ableThe	rmostat: Y			Ceiling Fans									-
Cooling Heating	[] Ja [X] Ja [] Ja		[] Mar [X] Mar [X] Mar	Apr Apr X Apr	[] May [] May [] May	[X] Jun Jun Jun	[X] Jul Jul Jul	[X] Aug [] Aug [] Aug	[X] Sep Sep Sep		Oct Oct	[] Nov [X] Nov [X] Nov	W	Dec Dec Dec
Venting Thermosta	7700 EU DEV		06 Reference	[V] Apr	[]мау	[] Jun	9/5/2	[] Aug	[]Sep	[X]	Oct	[X] Nov	[]	Dec
Schedule T		ic. TIERO 200	1	2	3 4	5	6	7	8	9	10	11	1	12
Cooling (W	(D)	AM PM	78 80	78 80	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	30 78
Cooling (W	EH)	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 (W	(D)	AM PM	66 68		66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66
Heating (W	EH)	AM PM	66	66	56 66 58 68	66	68 68	68	68	68	68	68	6	88
		FIVI	68		MECHANIC	68 CAL VEN		68 N	68	68	68	66	- 6	66
Туре		Sı	upply CFM	Exhaust	CFM Fan Wa	atts HR	V Heating	System	R	un Time	Cod	oling Syste	em	
Runtime Ve	ent		20	C		0	1 - Electric	Heat Pump		%		ntral Unit		
						MASS								
	ss Type			Area		Thickness	s I	Furniture Frac	ction		ace			
De	fault(8 lb	s/sq.π.		O ft²		0 ft		0.3			Main			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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

, Lake City, FL, 32055

1.	New construction or exi	sting	New (F	rom Plans)	10. Wall Type and Insulation	Insulation	Area
2.	Single family or multiple family		Detached 1		a. Frame - Wood, Exterior	R=13.0	1092.00 ft²
3.	Number of units, if multi	 b. Frame - Wood, Adjacent c. Frame - Wood, Exterior 			R=13.0	204.00 ft²	
4.	Number of Bedrooms	4		d. N/A	R=19.0 R=	136.50 ft ²	
5.	Is this a worst case?	No		11. Ceiling Type and insulation level	Insulation		
6.	Conditioned floor area (f	1523		a. Under Attic (Vented)b. N/A	R=38.0 R=	1599.00 ft² ft²	
7.	Windows**	Description		Area	c. N/A	R=	ft²
	a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		130.35 ft²	 Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Main 		R ft
	b. U-Factor:	N/A		ft²			
	SHGC:				13. Cooling systems	kBtu/hr	Efficiency
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit		SEER:14.00
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth: Area Weighted Average SHGC:		2.973 ft. 0.250		a. Electric Heat Pump	23.6 HSPF:8		
8	3. Skylights	Description		Area	15. Hot water systems	Ca	p: 40 gallons
	a. U-Factor(AVG): SHGC(AVG):	N/A N/A		ft²	a. Electric	Ca	EF: 0.92
9). Floor Types	CAPACITATION .	Insulation	Area	 b. Conservationfeatures None 		
	 a. Slab-On-Grade Edge Insulation b. N/A 		R=0.0 1523.00 ft ² R= ft ²		Credits (Performance method)		CV, Pstat
	c N/A		D-	£12			

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: 22								
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 test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clima PERFORMANCE or ERI METHOD-The building or dwelling unit shat the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Calc	Il be tested and verified as having an air leakage rate of not exceeding or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.								
x 60 ÷ 13707 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in 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 (7F/orida Statues.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 theode official. Testing shall be performed at any time after creation of all penetrations of the intended weatherstripping or other infiltration control measures. 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: I hereby verify that the above Air Leakage results are in accordant Energy Conservation requirements according to the compliance in									
Signature of Tester:	Date of Test:								
Printed Name of Tester:									
License/Certification #:	Issuing Authority:								