

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 18 Turkey Creek - Model 1523 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 Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows (130.3 sqft.) Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights c. U-Factor:(AVG) SHGC(AVG): N/A 9. Floor Types (1523.0 sqft.) a. Slab-On-Grade Edge Insulation Area (ft² R= ft² R= ft² R= ft² R= ft² R= ft²	10. Wall Types 1432.5 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. Frame - Wood, Exterior d. N/A 11. Ceiling Types (1599.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Main 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump b. Code 15. Hot water systems a. Electric b. Conservation features None 16. Credits Insulation Area R=13.0 1092.00 ft² R=19.0 136.50 ft² R=19.0 15. Hot water Attic, AH: Main 15. Code Compliance Code Compliance Cap: 40 gallons EF: 0.920 CV, Pstat
Glass/Floor Area: 0.086 Total Proposed Modified Total Baseline I	d Loads: 39.67
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT:	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.

- 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).

DATE:

DATE:

INPUT SUMMARY CHECKLIST REPORT

				PROJ	ECT							
Title: Building Tyl Owner Nam # of Units: Builder Nan Permit Offic Jurisdiction Family Type New/Existir Comment:	pe: User ne: N/A 1 ne: Lipscomb & E: ce: Columbia Cou : e: Detached	nty	Bedrooms Conditione Total Stori Worst Cas Rotate And Cross Ver Whole Ho	ed Area: es: se: gle: ntilation:	4 1523 1 No 0 Yes No		Lot # Bloc Plate Stree Cour	k/Subdivi Book: et:	sion: T C c: Li	ot Informat 8 urkey Cree columbia ake City , L , 320	ek	
				CLIMA	ATE							
/	Design Location	TMY Site			Design Temp 7.5 % 2.5 %	Win	Design Tem ter Sumn	ner Deg	leating gree Days		re Ra	y Tem ange
	FL, Gainesville	FL_GAINESVILLE	_REGI	DI OC	32 92	70	75	1	1305.5	51	M	ledium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	1523	13707									
Accessed Access				SPAC					W-02 ACM21			
Number	Name	Area		Kitchen	Occupants	Bedro		nfil ID	Finished			Heat
1	Main	1523	13707	Yes	4	4		1	Yes	Yes		Yes
7				FLOO								
√ # 1	Floor Type Slab-On-Grade Edge	Space Insulation M	Per ain 188	imeter R ft	R-Value 0	Area 1523 ft	2		-		ood Ca	arpet 1
	olds on olddo Eage	, modicion	u 100	ROC	4-1	1020 10						
√ #	‡ Type	Materials	Roof Area	Gabi	le Roof	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
1	Hip	Composition shing	les 1831 ft ²	0 ft²	Medium	Υ	0.96	No	0.9	No	0	33
				ATT	IC							
√ #	t Type	Ventil	ation	Vent Rat	io (1 in)	Area	RBS	IR	СС			
1	100 Marin 200		38623250	30		1523 ft²	Y	1000	٧			
				CEILI	NG							
√ #	Ceiling Type		Space	R-Valu	e Ins Ty	ре	Area	Fran	ning Frac	Truss	Туре	
	Under Attic (Ve											

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INPUT SUMMARY CHECKLIST REPORT

								W	ALLS								
V	/ #	Ornt		djace To		Туре	Space	Cavity R-Value	Wic	ith In	Heigl Ft In		Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov
	_ 1	S	Ext	terior	Fran	me - Wood	Main	13	28		9		252.0 ft ²		0.23	0.75	0
	2	Ε	Ext	terior	Fran	me - Wood	Main	13	28	4	9		255.0 ft ²		0.23	0.75	0
	3	N	Ext	terior	Fran	me - Wood	Main	13	35	8	9		321.0 ft ²		0.23	0.75	0
	4	W	Ext	terior	Fran	me - Wood	Main	13	29	4	9		264.0 ft ²		0.23	0.75	0
	5	S	Ga	rage	Fran	me - Wood	Main	13	22	8	9		204.0 ft ²		0.23	0.75	0
	6	N	Ext	terior	Fran	me - Wood	Main	19	15	2	9		136.5 ft²		0.23	0.75	0
								DO	ORS								
V	/	#		Ornt		Door Type	Space			Storms	U	-Value	F	Width t In	Heigh Ft	t In	Area
		1		S		Insulated	Main			None		.46	3	1	6	8	20 ft²
	_	2		S		Wood	Main			None		.46	3	3	6	8	20 ft²
							Orientation sh		DOWS		orients	ition					
	,		1	Nall			Onemations	OWIT IS THE C	incica, i	торозсо	Oriente	illoii.	Ove	rhang			
V	#	# C		ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Ar	ea		Separation	Int Sha	ide	Screenir
		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	9	None
	2	2	Е	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	10.2	2 ft²	1 ft 6 in	1 ft 0 in	None	e	None
	_ :	3	N	3	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	48.0	ft²	1 ft 6 in	1 ft 0 in	None	Э	None
	_ 4	1	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	19.2	2 ft²	7 ft 6 in	1 ft 0 in	None	Э	None
	_ :	5	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	12.8	ft²	7 ft 6 in	1 ft 0 in	Drapes/b	linds	None
	_ 6	3	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
								GAI	RAGE								
V		#		Floor	r Area	Ceilin	ig Area	Exposed	Wall Per	imeter	Avç	j. Wal	l Height	Expose	ed Wall Ins	ulation	
	_	1	46	88.45	8889 ft²	468.45	8889 ft²	62	.667 ft			9 f	t		1		
								INFILT	RATIC	N							
#	Sco	ре		М	ethod		SLA	CFM 50	ELA	E	EqLA		ACH	ACH	1 50		
1	Whole	house	F	Propo	sed ACI	H(50) .00	00286	1142.3	62.67	1	17.65		.1027	5	j		
								HEATING	SYS	TEM							
V		#	Syste	em Ty	ре	s	ubtype	Speed		Efficienc	y	Ca	apacity		E	Block	Ducts
	_	1	Elect	ric He	eat Pum	p/ N	one	Single		HSPF:8.	2	23.5	7 kBtu/hr			1	sys#1

2.1

INPUT SUMMARY CHECKLIST REPORT

ONW N4			IIII	01 00111	COOL	ING SYS		-i Oiti						
V	# :	System Type		Subtype			Efficiency	Capacity	Air F	Flow S	SHR	Block	D	ucts
		Central Unit/		None	Sing	and the same of th		15.68 kBtu/l	70000000	9000	0.7	1	11:5001	s#1
					нот w	ATER SY	STEM							
$\sqrt{}$	#	System Type	SubType	Locatio	on EF	C	ар	Use	SetPnt		Co	onservatio	n	
	1	Electric	None	Garage	0.92	40	gal	30 gal	120 deg			None		
				s	OLAR HO	T WATER	RSYST	EM						
\checkmark	FSEC Cert #	Company N	ame		System	Model#	Co	ollector Model		ollector Area	Stor		FEF	
	None	None								ft²				
						DUCTS								
/	#	Sup Location R	ply -Value Area	Locati	Return on Area	Leaka	geType	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC#
	1	Attic	6 300.6 f	t² Attic	75.15 ft²	Default	Leakage	Main	(Default)	c(Default)	С		1	1
					TEM	PERATU	RES							
Programa	ableThe	rmostat: Y			Ceiling Fans	:								
Cooling Heating Venting	[X] Ja [X] Ja [] Ja	in []Feb in [X]Feb in []Feb	X 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 Oct	X Nov X Nov X Nov		Dec Dec Dec
Thermostat		le: HERS 200	06 Reference					ours						
Schedule T Cooling (Wi		A NA			3 4	5	6	7	8	9	10	11	-	2
		AM PM	78 80	250300 220	8 78 8 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78		80
Cooling (Wi		AM PM	78 78	78 7 78 7	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	8
Heating (W	D)	AM PM	66 68	66 6 68 6	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
Heating (W	EH)	AM PM	66 68	66 6 68 6	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
				N	MECHANIC	AL VEN	TILATIO	N						
Гуре		S	upply CFM	Exhaust C	FM Fan Wa	itts HRV	Heating	System	R	Run Time	Co	oling Syst	em	
Runtime Ve	nt		20	0			1 - Electric	Heat Pump		%	1 - Ce	ntral Unit		
Ma	ss Type			Aroa		MASS		Furniture Frac	tion	C-				_
	ault(8 lb	s/sa ft		Area 0 ft²		Thickness 0 ft		0.3	лоп		ace 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	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation	Area	
2	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	1092.00 ft ²	
		20100110	100	 b. Frame - Wood, Adjacent 	R=13.0	204.00 ft ²	
3.	Number of units, if mult	iple family	1		c. Frame - Wood, Exterior	R=19.0	136.50 ft ²
4.	Number of Bedrooms		4		d. N/A	R=	ft²
5.	Is this a worst case?	No		 Ceiling Type and insulation level a. Under Attic (Vented) 	Insulation R=38.0	Area 1599.00 ft ²	
6.	Conditioned floor area (ft²)	1523		b. N/A	R=	ft ²
7	Windows**	Description		Area	c. N/A	R=	ft ²
•	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 ² 6 300.6
	b. U-Factor:	N/A		ft²			
	SHGC:			2.5	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 Area Weighted Average		2.973 ft. 0.250	a. Electric Heat Pump	23.6	HSPF:8.20	
	8. Skylights a. U-Factor(AVG):	Description N/A		Area ft²	15. Hot water systems a. Electric	Ca	ap: 40 gallons EF: 0.92
	SHGC(AVG): 9. FloorTypes	324 325		Area	b. Conservationfeatures None		
	b. N/A	a. Slab-On-Grade Edge Insulation R=0.0 1523.00 $\mathrm{ft^2}$ b. N/A R= $\mathrm{ft^2}$			Credits (Performance method)		CV, Pstat
	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: 18							
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 shal the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Calc								
CFM(50) 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 Statuesor 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 fully open.								
Testing Company								
Company Name: I hereby verify that the above Air Leakage results are in accordan Energy Conservation requirements according to the compliance n								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	_ Issuing Authority:							