

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 85 Emerald Cove Ph 1 Street: City, State, Zip: Lake City, FL, 32025 Owner: The Fortune's Design Location: FL, Gainesville	Builder Name: Cornerstone Developers II, LLC. Permit Office: Columbia County Permit Number: Jurisdiction: 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? No 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows (244.7 sqft.) Description Area a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.094 ft. Area Weighted Average SHGC: 0.250 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (1710.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1710.00 ft² b. N/A R= ft² Class/Floor Area: 0.143	10. Wall Types(1660.5 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1796.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump 15. Hot water systems a. Electric b. Conservation features None 16. Credits 16. Credits 17. Insulation R=13.0 1476.00 ft² R=
Glass/Floor Area: 0.143 Total Proposed Modified Total Baseline 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: DATE: Total Proposed Modified Total Baseline Total Proposed Modified Total Baseline Total Proposed Modified Total Baseline	PASS

- 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

				PROJEC	СТ							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 85 Emerald C User The Fortune's 1 Cornerstone Deve Columbia County Detached New (From Plans	elopersII, LLC	Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	dArea: 1 es: 1 le: 0 tilation: 1	† 1710 No) Yes	-	Lot # Block PlatE Stree Cour	k/Subdivi: Book: et:	sion: E	ot Informa 35 Emerald Co Columbia ake City ,	ve 1	
				CLIMAT	Έ							
V Des	ign Location	TMY Site		Des 97.5	sign Temp % 2.5 %		esign Tem		leating	Desig		y Tem
	900 E 900	FL_GAINESVILLE	_REGI	32	- 12-27	70	r Summ		ree Day	ns Moistu 51		ange 1edium
				BLOCK	s	70000	1904014					
Number	Name	Area	Volume	BLOOK								
1	Block1	1710	15390									
	DIOUT	17.10	10000	SPACE	<u> </u>			-)		-		
Number	Name	A	Maluma K			D. J.		SI ID	F:			
-11	Main	Area 1710	Volume K	(itchen C	Occupants 8	Bedrooi 4	ns ir		Finishe Yes	d Coo		Heat
**				FLOOR		22.			100	100		103
V #	Floor Type	Space	Perin		R-Value	Area				Tile W	ood C	arpet
Y	o-On-Grade Edge Ins	Avada P vaca	ain 191	-	0	1710 ft²					0	1
				ROOF					-			
./			Roof	Gable	Roof	Rad	Solar	SA	Emitt	Emitt	Deck	Pito
V #	Туре	Materials	Area	Area	Color	Barr	Absor.	Tested		Tested	Insul.	(de
1	Hip (Composition shing	es 1912 ft²	0 ft²	Medium	Υ	0.96	No	0.9	No	0	26.
				ATTIC								
V #	Туре	Ventila	ation	Vent Ratio (1 in)	Area	RBS	IRO	ec.			
1	Full attic	Vent		300		710 ft²	Y	N.				
				CEILING	3							
V #	Ceiling Type		Space	R-Value	Ins Ty	pe .	Area	Fram	ning Fra	c Truss	Туре	
1	Under Attic (Vente	ed)	Main	38	Double B		796 ft²		0.11	Wo		

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ı	NPIIT	SUMMA	RY	CHECKI	IST	REPORT
			1	CHILCHE		NEFURI

						W	ALLS							
V #	Ornt	Adjace To		Туре	Space	Cavity R-Value	Wid Ft	ith In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor,	Belov
_ 1	S	Exterior	Fra	me - Wood	Main	13	9	10	9	88.5 ft ²		0.23	0.75	0
_ 2	S	Exterior	Fra	me - Wood	Main	13	21	8	9	195.0 ft ²		0.23	0.75	0
3	E	Exterior	Fra	me - Wood	Main	13	30	2	9	271.5 ft ²		0.23	0.75	0
_ 4	Ν	Exterior	Fra	me - Wood	Main	13	12	7	9	113.3 ft²		0.23	0.75	0
5	Ν	Exterior	Fra	me - Wood	Main	13	12	7	9	113.3 ft ²		0.23	0.75	0
6	E	Exterior	Fra	me - Wood	Main	13	8	8	9	78.0 ft ²		0.23	0.75	0
7	N	Exterior	Fra	me - Wood	Main	13	15	0	9	135.0 ft²		0.23	0.75	0
8	W	Exterior	Fra	me - Wood	Main	13	8	8	9	78.0 ft ²		0.23	0.75	0
9	N	Exterior	Fra	me - Wood	Main	13	11	10	9	106.5 ft ²		0.23	0.75	0
10	W	Exterior	Fra	me - Wood	Main	13	33	0	9	297.0 ft ²		0.23	0.75	0
_11	S	Garage	Fra	me - Wood	Main	13	20	6	9	184.5 ft²		0.23	0.75	0
						DO	ors							
$\sqrt{}$	#	Ornt		Door Type	Space			Storms	U-Val	ue F	Width t In	Height Ft	in	Area
	1	S		Insulated	Main			None	.46	3				20 ft²
	2	S		Insulated	Main			None	.46	3	3	6	8 2	20 ft²
							ows							
		Wall			rientation sho	wn is the e	nterea, F	roposed	orientation					-
\checkmark	# 0	ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		erhang Separation	Int Sha	de S	Screenin
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	8 ft 0 in	1 ft 0 in	None		None
	2	S 2	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft ²	8 ft 0 in	1 ft 0 in	None		None
		E 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	None		None
		N 4	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft ²	9 ft 0 in	1 ft 0 in	None		None
(N 5	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft ²	9 ft 0 in	1 ft 0 in	None		None
		E 6	TIM	Low-E Double	Yes	0.36	0.25	N	16.7 ft²	5 ft 0 in	1 ft 0 in	None		None
		N 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	None		None
		N 9	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
		W 10	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft ²		1 ft 0 in	None		None
		W 10	0.000	Low-E Double	Yes	0.36	0.25	N	45.0 ft²	1 ft 6 in		None		None
						GAF	RAGE				A Property			
/	#	Floor	Area	Ceiling	Area	Exposed V	Vall Peri	meter	Avg. Wa	all Height	Expose	d Wall Inst	ulation	-
	1	468.0		468.01			.33 ft			ft	-	1		

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INPUT SUMMARY CHECKLIST REPORT

					INFI	LTRAT	ON							
#	Scope	Method	ı	SLA	CFM 50	ELA	E	qLA	ACH	ACH	50			
1	Wholehouse	Proposed A	CH(50)	.000286	1282.5	70.36	1:	32.1 .	1027	5				
					HEATI	NG SY	STEM							
\vee	# 5	System Type		Subtype	Spee	d	Efficiency	y Ca	pacity			Block	Di	ucts
	_ 1 6	Electric Heat Pu	ımp/	None	Singl	е	HSPF:8.2	2 26.95	kBtu/hr			1	sy	/s#1
					COOL	NG SY	STEM							
\vee	# 5	System Type		Subtype	Subty	/ре	Efficiency	Capacity	Air I	Flow SH	IR .	Block	Di	ucts
	_ 1 0	Central Unit/		None	Singl	е	SEER: 14	21.4 kBtu/h	nr 630	cfm 0.	7	1	sy	/s#1
					HOT WA	TER S	YSTEM							
\vee	#	System Type	SubType	Location	EF	С	ар	Use	SetPnt		Con	servatio	n	
	_ 1	Electric	None	Garage	0.92	50	gal	40 gal	120 deg		1	None		
				SOL	AR HOT	WATE	R SYSTE	EM						
\checkmark	FSEC Cert #	Company N	ame		System M	lodel#	Co	ollector Model		ollector Area	Storaç		FEF	
	_ None	None								ft²				
						OUCTS								
\checkmark	#	Sup Location R	ply 2-Value Area	Re	turn Area	Leaka	igeType	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC #
	1	Attic	6 427.5 ft²	Attic	85.5 ft²	Defaul	t Leakage	Garage	(Default)	c(Default) c			1	1
					TEMP	ERATU	RES							
Prog	gramable Ther	mostat: Y		C	eiling Fans:									
Cool Heat Vent	ing [] Ja ing [X] Ja ing [] Ja	n [] Feb in [X] Feb n [] Feb	[] 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] Nov X] Nov X] Nov	X	Dec Dec

FORM R405-2020 INPUT SUMMARY CHECKLIST REPORT

O11111 11100 2020				CIVIIVI		LOILE	01 11	-1 0111					
Thermostat Schedule:	HERS 200	6 Referer	nce				Н	ours					
Schedule Type		1	2	3	4	5	6	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
					ı	MASS							
Mass Type			Ar	ea		Thickness		Furniture F	raction		Space		
Default(8 lbs/sc	n ff		0	ft²		0.0		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

, Lake City, FL, 32025

New construction or existing		New (Fr	om Plans)	Wall Type and Insulation	Insulation	Area
Single family or multiple family		Detache	d	a. Frame - Wood, Exterior	R=13.0	1476.00 ft ²
Number of units, if multiple family		1		b. Frame - Wood, Adjacent c. N/A	R=13.0 R=	184.50 ft² ft²
Number of Bedrooms		4		d. N/A	R=	ft²
Is this a worst case?		No		 Ceiling Type and insulation level a. Under Attic (Vented) 	Insulation R=38.0	Area 1796.00 ft ²
Conditioned floor area (ft²)	1710		b. N/A	R=	ft²
Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 244.67 ft ²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage	R=	ft² R ft² 6 427.5
b. U-Factor:	N/A		ft²			
SHGC: c. U-Factor: SHGC:	N/A		ft²	13. Cooling systems a. Central Unit	kBtu/hr 21.4	Efficiency SEER:14.00
d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency
	2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		5.094 ft. 0.250	а. Еlестпс неат Ритр	27.0	HSPF:8.20
Skylightsa. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Ca	p: 50 gallons EF: 0.92
Floor Types	an Innestation	Insulation	Area	b. Conservationfeatures None		
b. N/A	je insulation	R=	ft²	Credits (Performance method)		CV, Pstat
	Single family or multiple Number of units, if mult Number of Bedrooms Is this a worst case? Conditioned floor area (Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: d. U-Factor: SHGC: d. U-Factor: SHGC: Area Weighted Average Area Weighted Average Area Weighted Average S. Skylights a. U-Factor(AVG): SHGC(AVG): b. Floor Types a. Slab-On-Grade Edg	Number of Bedrooms Is this a worst case? Conditioned floor area (ft²) Windows** Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: b. Skylights Description a. U-Factor(AVG): N/A SHGC(AVG): N/A SHGC(AVG): N/A SHGCOTypes a. Slab-On-Grade Edge Insulation b. N/A	Single family or multiple family Number of units, if multiple family 1 Number of Bedrooms 4 Is this a worst case? Conditioned floor area (ft²) Windows** Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: C. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: SKylights Description a. U-Factor(AVG): N/A SHGC(AVG): N/A SHGCOTypes Insulation B. N/A Insulation R=0.0 R=	Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? Conditioned floor area (ft²) Windows** Description a. U-Factor: 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: SKylights Description Area 1244.67 ft² 61² 6244.67 ft² 63	Single family or multiple family Number of units, if multiple family Number of Bedrooms 4 No Strame - Wood, Adjacent C. N/A d. N/A 11. Celling Type and insulation level a. Under Attic (Vented) b. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage b. U-Factor: DbI, U=0.36 SHGC: C. U-Factor: N/A SHGC: D. Shylights Shylights Description Shylights Description Shylights Description Shylights Description Shylights Shylights Description Shylights Shylig	Single family or multiple family Detached a. Frame - Wood, Exterior R=13.0

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:

Address of New Home: 386 S.W., TIMBSRLAND CT City/FL Zip: LAME CITY FL

32024

*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: Cornerstone Developers II, LLCcommunity:	Lot: 85					
Address:						
City: Lake City State:	: FL Zip: 32025					
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 changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climater Changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climater Changes						
PERFORMANCE or ERI METHOD-The building or dwelling unit shal the selected ACH(50) value, as shown on Form R405-2020 (Performance) of ACH(50) specified on Form R405-2020-Energy Calc						
CFM(50) x 60 ÷ 15390 = 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/RE Testing shall be conducted by either individuals as defined in Section 553.99 489.105(3)(f), (g), or (i) or an approved third party. A written report of the resprovided to the ode official. Testing shall be performed at any time after creat During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue damper 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 ventilations. Heating and cooling systems, if installed at the time of the test, shall be fully	23(5) or (Theorida Statues.or individuals licensed as set forth in Section outs of the test shall be signed by the party conducting the test and tion of all penetrations of the intended weatherstripping or other infiltration ers shall be closed, but not sealed beyond intended infiltration control erors shall be closed and sealed.					
Testing Company						
Company Name: I hereby verify that the above Air Leakage results are in accordance to the compliance meaning to the complex meaning t						
Signature of Tester:	Date of Test:					
Printed Name of Tester:						
License/Certification #:	_ Issuing Authority:					