FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 22 Jewel Lake I Street: City, State, Zip: Lake City, FL, 32025 Owner: Design Location: FL, Gainesville	Builder Name: Sorensen & Smith, LLC. 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) Conditioned floor area below grade (ft²) 7. Windows (303.8 sqft.) Description 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: Area Weighted Average SHGC: 0.250 8. Skylights C. U-Factor:(AVG) SHGC(AVG): N/A 9. Floor Types (2570.0 sqft.) a. Slab-On-Grade Edge Insulation b. Floor Over Other Space c. N/A Resultin Plans) Detached A New (From Plans) Detached 6.643 4. Area 6.570 6. Conditioned floor area below grade (ft²) 0.2570 Area 6.643 ft.	10. Wall Types(2649.3 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (2354.1 sqft.) a. Under Attic (Vented) b. N/A c. N/A R= ft² c. N/A R= ft² lnsulation Area R= ft² lnsulation Area R= ft² lnsulation Area R= ft² 12. Ducts a. Sup: Attic, Ret: Attic, AH: Exterior ABUI/hr Efficiency a. Central Unit 29.6 SEER:14.00 14. Heating systems a. Electric Heat Pump ABUI/hr BFficiency 29.6 SEER:14.00 15. Hot water systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 16. Credits CV, Pstat
Glass/Floor Area: 0.118 Total Proposed Modified Total Baseline	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: 1/29/2022 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).

				PROJ	ECT									
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 22 Jewel Lake I User 1 Sorensen & Smith, Li Columbia County Detached New (From Plans)	_C.	Bedrooms: Conditioned Total Storied Worst Case Rotate Ang Cross Vent Whole Hou	dArea: es: e: le: ilation:	3 2570 2 No 0 Yes			Lot # Block/ PlatBo Street Count	:	zion: J (: L	ot Infor 22 lewel La Columbi .ake Cit	ake I a		
				CLIM	ATE									
	gn Location Gainesville FL	TMY Site	REGI		Design T 7.5 % 32	emp 2.5 %	Int Desiç Winter 70		er Degi	eating ree Day 305.5	/s Mo	esign l isture 51	Daily T Ran Med	
				BLO	CKS									
Number	Name	Area	Volume											
1	Block1	2570	22802											
SPACES														
Number	Name	Area	Volume h	Kitchen	Occup	ants	Bedrooms	ln	fil ID	Finishe	d	Cooled	F	Heated
1	1st Floor	2242	20178	Yes		6	3	1	,	Yes		Yes	Υ	⁄es
2	2nd Floor	328	2624	No		2	0	1		Yes		Yes	Υ	es/
				FLOC	DRS									
	Floor Type	Space		meter Pe		R-Value	Area	Joist	t R-Value	9	Tile	Wood		pet
	o-On-Grade Edge Insula	ation 1st F	Floor 248.4	4 ft	0		2242 ft²				0	0	1	
2 Floo	or Over Other Space	2nd l	Floor	-			328 ft²		19		0	0	1	
				RO	OF									
√ #	Туре	Materials	Roof Area	Gab Are		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	En Test		eck sul.	Pitch (deg)
1	Gable or shed Cor	mposition shingl	es 2919 ft²	934	ft² N	/ledium	Υ	0.96	No	0.9	N	o	0	39.81
				ATT	IC									
√ #	Туре	Ventila	ation	Vent Ra	ıtio (1 in)		Area	RBS	IRO	cc				
	Full attic	Vent			00		242 ft²	Υ		1				

INPUT SUMMARY CHECKLIST REPORT

						CE	LING							
$\sqrt{}$	#	# Ceiling Type		Space	R-V	alue	Ins	Туре	Area	Framing	Frac	Truss Typ	е	
	1	Unde	Attic (Ve	ented)	1st Floor	38	3	Double Batt		2009.7 ft ²	0.1	1	Wood	
	2	Unde	Attic (Ve	ented)	2nd Floor	38	3	Double	e Batt	344.4 ft ²	0.1	1	Wood	
						WA	ALLS							
V #	Ornt	Adja To		Type	Space	Cavity R-Value	Wid	lth In	Height Ft In	Area	Sheathing	g Framing Fraction		Belov Grade
1	S	Exterio		me - Wood	1st Floor	13	38	10	9	349.5 ft ²		0.23	0.75	Orauc (
2	Е	Exterio	or Fra	me - Wood	1st Floor	13	6		9	54.0 ft ²		0.23	0.75	(
3	S	Exterio	or Fra	me - Wood	1st Floor	13	8		9	72.0 ft ²		0.23	0.75	(
 4	W	Exterio	or Fra	me - Wood	1st Floor	13	5	4	9	48.0 ft ²		0.23	0.75	(
— 5	S	Exterio	or Fra	me - Wood	1st Floor	13	24		9	216.0 ft ²		0.23	0.75	(
6	Е	Exterio	or Fra	me - Wood	1st Floor	13	30	4	9	273.0 ft ²		0.23	0.75	(
7	N	Exterio		me - Wood	1st Floor	13	57	8	9	519.0 ft²		0.23	0.75	(
 8	E	Exterio		me - Wood	1st Floor	13	12	-	9	108.0 ft ²		0.23	0.75	(
9	N	Exterio		me - Wood	1st Floor	13	13	2	9	118.5 ft ²		0.23	0.75	
0 10	W	Exterio		me - Wood	1st Floor	13	10	6	9	94.5 ft ²		0.23	0.75	
10 11	N	Exterio		me - Wood	1st Floor	13	8	U	9	72.0 ft ²		0.23	0.75	
'	W	Exterio		me - Wood	1st Floor	13	12	8	9	114.0 ft ²		0.23	0.75	
13	S	Exterio		me - Wood	1st Floor	13	5	O	9	45.0 ft ²		0.23	0.75	
								40						
14	W	Exterio		me - Wood	1st Floor	13	17	10	9	160.5 ft²		0.23	0.75	
15	W	Exterio		me - Wood	2nd Floor	13	21		8	168.0 ft²		0.23	0.75	
16	S	Exterio		me - Wood	2nd Floor	13	13	2	8	105.3 ft²		0.23	0.75	
17	N	Exterio	or Fra	me - Wood	2nd Floor	13	16	6	8	132.0 ft²		0.23	0.75	
7						DO	ORS							
<u> </u>	#	Or	nt	Door Type	Space			Storms	U-V	alue F	Width t In	Heigl Ft	ht In	Area
	1	S		Insulated	1st Floor			None	.4	6 3	3	6	8 2	20 ft²
	2	N		Insulated	1st Floor			None	.4	6 3	3	6	8 2	20 ft²
	3	E		Insulated	1st Floor			None	.4	6 2	2	6	8 1	3.3 ft ²
				C	rientation shov		DOWS ntered, F		dorientatio	on.				
/	ш	Wal								Ove	erhang	look Ob		^ i
V	#	Ornt ID	Frame		NFRC	U-Factor		Imp			Separation	Int Sh		Screeni
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	60.0 ft		1 ft 0 in	Noi		None
	2	S 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft ²		1 ft 0 in	Noi		None
	3	S 5	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft		3 ft 0 in	Noi		None
	4	E 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft		1 ft 0 in	Noi		None
	5	E 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft		1 ft 0 in	Noi		None
	6	N 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft		1 ft 0 in	Noi		None
	7	N 7	TIM	Low-E Double	Yes	0.36	0.25	N		t² 11 ft 6 in		Noi		None
	8	N 9	Vinyl	Low-E Double	Yes	0.36	0.25	N	2.3 ft ²		1 ft 0 in	Noi		None
	9	W 10	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft		1 ft 0 in	Noi	ne	None
	10	W 12	Vinyl	Low-E Double	Yes	0.36	0.25	N	3.5 ft ²	1 ft 6 in	1 ft 0 in	Noi	ne	None

INPUT SUMMARY CHECKLIST REPORT

		13-20			INF	3 1 GG1111111	AKT CHE		J 1 1 1 L							
						Orientation	WIN shown is the e	DOWS ntered, Pr	oposed	orientation.						
	/			/all					•		Ove	rhang				
V	/ #	0		D Fram		NFRC			Imp	Area	Depth	Separatio	n Ir	nt Shade	Scre	enin
	1′	۱ ۱	N ´	15 Viny	l Low-E Doul	ole Yes	0.36	0.25	N	30.0 ft ²	1 ft 0 in	2 ft 0 in		None	N	one
							INFILT	RATIO	N							
#	Sco	ре		Method	i	SLA	CFM 50	ELA	E	qLA	ACH	Д	CH 50			
1	Wholel	nouse	Р	roposed A	CH(50)	.000282	1900.2	104.25	19	5.72	.1347		5			
							HEATING	G SYST	ЕМ							
V	/	#	Syste	m Type		Subtype	Speed	E	Efficiency	, C	apacity			Block	Dι	ucts
		1	Electr	ic Heat P	ump/	None	Single	H	HSPF:8.2	2 38.7	'8 kBtu/hr			1	sy	/s#1
							COOLIN	G SYST	ЕМ							
V	/	#	Syste	m Type		Subtype	Subtype	e Et	fficiency	Capacit	y A	ir Flow	SHR	Block	Dι	ucts
		1	Centr	al Unit/		None	Single	SI	EER: 14	29.57 kBt	u/hr 90	00 cfm	0.7	1	sy	/s#1
							HOT WAT	ER SYS	STEM							
V	/	#	Sys	tem Type	SubType	Location	EF	Сар		Use	SetPr	nt	(Conservatio	n	
		1	Ele	ctric	None	Exterior	0.92	50 ga	ıl	40 gal	120 de	g		None		
						SOL	AR HOT W	VATER	SYSTE	EΜ						
V	/	FSEC Cert ;		ompany N	lame		System Mod	lel#	Co	ollector Mod	el#	Collector Area		orage olume	FEF	
		None	e N	one								ft²				
							DU	ICTS								
V	/	#	Lo		oply R-Value Area	Ret Location	urn Area	Leakage	еТуре	Air Handl	CFM 2 er TOT			N RLF	HV. Heat	AC #
		1		Attic	6 642.5 ft		128.5 ft²	Default L		Exterior		ılt) c(Defau			1	1

INPUT SUMMARY CHECKLIST REPORT

						TEM	PERATUR	RES						
ProgramableT	hermo	stat: Y			С	eiling Fans):							
Cooling [] Heating [X Venting []	Jan Jan Jan	[] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apı Apı [X] Apı		[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] S [] S [] S	ep ep ep	Oct Oct X Oct	[] Nov [X] Nov [X] Nov	Dec [X] Dec Dec
Thermostat Sche	edule:	HERS 2006	6 Reference						urs					
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
MASS														
Mass Ty	γре			Area	l		Thickness		Furniture Fra	ction		Space		
Default(8 lbs/sc	q.ft		0 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, 32025

1.	New construction or exis	New (Fr	om Plans)	Wall Type and Insulation	Insulation	Area		
2.	Single family or multiple t	Detache	d	a. Frame - Wood, Exterior	R=13.0	2649.30 ft ²		
3	Number of units, if multip	ole family	1		b. N/A c. N/A	R= R=	ft² ft²	
	Number of Bedrooms		3		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 2354.10 ft²	
6.	Conditioned floor area (ft	2)	2570		b. N/A	R=	ft²	
7.	Windows** a. U-Factor:	Description Dbl, U=0.36		Area 303.83 ft²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Exterior	R=	ft² R ft² 6 642.5	
	SHGC:	SHGC=0.25			a. Sup. Attio, Net. Attio, At I. Exterior		0 042.5	
	b. U-Factor:	N/A		ft²				
	SHGC:				13. Cooling systems	kBtu/hr	Efficiency	
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	29.6	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:			6.643 ft. 0.250	a. Electric Heat Pump	38.8 HSPF:8.20		
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Ca	ap: 50 gallons EF: 0.92	
	 Floor Types a. Slab-On-Grade Edge Insulation b. Floor Over Other Space c. N/A 		Insulation	Area	b. ConservationfeaturesNone			
			R=0.0 R=19.0 R=	2242.00 ft ² 328.00 ft ² ft ²	Credits (Performance method)		CV, Pstat	

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: Sorensen & Smith, LLC. Community:	Lot: 22
Address:	
City: Lake City State	e: 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 tes changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim	
PERFORMANCE or ERI METHOD-The building or dwelling unit sha the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Cal	
CFM(50) x 60 ÷ 22802 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation is 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/R Testing shall be conducted by either individuals as defined in Section 553.9 489.105(3)(f), (g), or (i) or an approved third party. A written report of the reprovided to the code official. Testing shall be performed at any time after creating shall be performed at any time after creating shall be performed.	093(5) or (7Florida Statues.or individuals licensed as set forth in Section sults of the test shall be signed by the party conducting the test and
During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, be control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampeasures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery vent 5. Heating and cooling systems, if installed at the time of the test, shall be tell. 6. Supply and return registers, if installed at the time of the test, shall be full.	pers shall be closed, but not sealed beyond intended infiltration control ilators shall be closed and sealed. urned off.
Testing Company	
Company Name: I hereby verify that the above Air Leakage results are in accorda Energy Conservation requirements according to the compliance	
Signature of Tester:	Date of Test:
Printed Name of Tester:	
License/Certification #:	Issuing Authority: