## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 24 Jewel Lake I Street:		Builder Name: Sorensen & Smith, LLC. Permit Office: Columbia County					
City, State, Zip: Lake City , FL , 32025		Permit Office: Columbia County  Permit Number:					
Owner: Design Location: FL, Gainesville		Jurisdiction: County: Columbia (Florida Climate	eZone 2)				
New construction or existing	New (From Plans)	10. Wall Types(1425.0 sqft.)	Insulation Area				
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior b. Frame - Wood, Adjacent	R=13.0 1227.00 ft <sup>2</sup>				
3. Number of units, if multiple family	1	c. N/A	R=13.0 198.00 ft <sup>2</sup> R= ft <sup>2</sup>				
Number of Bedrooms	3	d. N/A	R= ft²				
5. Is this a worst case?	No	11. Ceiling Types (1579.0 sqft.)	Insulation Area				
Conditioned floor area above grade (ft²)	1504	a. Under Attic (Vented) b. N/A	R=38.0 1579.00 ft <sup>2</sup> R= ft <sup>2</sup>				
Conditioned floor area above grade (ft <sup>2</sup> )	0	c. N/A	R= ft²				
7. Windows (191.0 sqft.) Description	Area	12. Ducts	R ft²				
a. U-Factor: Dbl, U=0.36	191.00 ft²	a. Sup: Attic, Ret: Attic, AH: Garage	6 376				
SHGC: SHGC=0.25							
b. U-Factor: N/A	ft²	13. Cooling systems	kBtu/hr Efficiency				
SHGC:		a. Central Unit	17.2 SEER:14.00				
c. U-Factor: N/A	ft²						
SHGC: Area Weighted Average Overhang Depth:	3.165 ft.	14. Heating systems	kBtu/hr Efficiency				
Area Weighted Average SHGC:	0.250	a. Electric Heat Pump	26.4 HSPF:8.20				
8. Skylights	Area						
c. U-Factor:(AVG) N/A	ft²	15. Hot water systems					
SHGC(AVG): N/A		a. Electric	Cap: 50 gallons				
Floor Types (1504.0 sqft.)     a. Slab-On-Grade Edge Insulation	Insulation Area R=0.0 1504.00 ft <sup>2</sup>	b. Conservationfeatures	EF: 0.920				
b. N/A	R= ft <sup>2</sup>	None					
c. N/A	R= ft²	16. Credits	CV, Pstat				
			- ,				
Glass/Floor Area: 0.127	Total Proposed Modified		PASS				
	Total Baseline	Loads: 39.50	17100				
I hereby certify that the plans and spec	sifications assured by	Davious of the plane and	THEST				
this calculation are in compliance with		Review of the plans and specifications covered by this	OF				
Code.	4 And a	calculation indicates compliance					
In ) . A	( -+++h)	with the Florida Energy Code.	5				
4 / 00 / 000		Before construction is completed					
DATE: 1 / 28 / 202	<u> </u>	this building will be inspected for	E D				
		compliance with Section 553.908 Florida Statutes.	* * * * * * * * * * * * * * * * * * * *				
I hereby certify that this building, as de	esigned, is in compliance	Fiorida Statutes.	OD WE TRUST				
with the Florida Energy Code.			OD WE IN				
OWNER/AGENT:		BUILDING OFFICIAL:					
DATE:		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).

				PROJE	СТ							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 24 Jewel La User 1 Sorensen & Sm Columbia Coun Detached New (From Plan	nith, LLC. ty	Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Vent Whole Hou	s: e: e: lation:	3 1504 1 No 0 Yes No		Lot# Block PlatB Stree Coun	x/Subdivis sook: et:	24 sion: Je Co	ewel Lake I olumbia ake City ,		
				CLIMA	TE							
V Desi	ign Location	TMY Site			esign Temp .5 % 2.5 %	Int D Wint	esign Tem er Summ		eating ree Days	Design Moistur	-	Temp ange
FL,	Gainesville	FL_GAINESVILLE	E_REGI	;	32 92	70	75	1	305.5	51	M	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	1504	13536									
				SPAC	ES							
Number	Name	Area	Volume K	itchen	Occupants	Bedroo	oms li	nfil ID	Finished	l Coo	led	Heate
1	Main	1504	13536	Yes	6	3	1		Yes	Yes		Yes
				FLOO	RS							
	Floor Type	Space	Perir		R-Value	Area				Tile Wo		arpet
1 Slal	b-On-Grade Edge	Insulation M	ain 229.8	3 ft	0	1504 ft²				0 (	)	1
				ROO	F							
√ #	Туре	Materials	Roof Area	Gable Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitc (deg
1	Gable or shed	Composition shing	les 1808 ft²	502 ft	<sup>2</sup> Medium	Υ	0.96	No	0.9	No	0	33.6
				ATTI	С							
√ #	Туре	Venti	ation	Vent Rati	o (1 in)	Area	RBS	IR	СС			
1	Full attic	Ven	ted	300	) ,	1504 ft²	Υ	1	N			
				CEILII	NG							
V #	Ceiling Type		Space	R-Valu	e Ins Ty	ре	Area	Fran	ning Frac	Truss	Туре	
1	Under Attic (Ve	nted)	Main	38	Double E	Batt	1579 ft²		0.11	Wo	od	

### INPUT SUMMARY CHECKLIST REPORT

							WA	LLS								
V #	Orn		Adjace To	nt Wall	Туре	Space	Cavity R-Value	Wid Ft	th In	He Ft	ight In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
1	W	Е	xterior	Fran	ne - Wood	Main	13	8	2	9		73.5 ft <sup>2</sup>		0.23	0.75	C
2	S	Е	xterior	Fran	ne - Wood	Main	13	17	10	9		160.5 ft <sup>2</sup>		0.23	0.75	0
3	Е	Е	xterior	Fran	me - Wood	Main	13	5		9		45.0 ft <sup>2</sup>		0.23	0.75	C
4	S	Е	xterior	Fran	me - Wood	Main	13	13	2	9		118.5 ft <sup>2</sup>		0.23	0.75	C
5	S	Е	xterior	Fran	me - Wood	Main	13	17		9		153.0 ft <sup>2</sup>		0.23	0.75	C
6	Е	Е	xterior	Fran	me - Wood	Main	13	27	2	9		244.5 ft <sup>2</sup>		0.23	0.75	(
7	N	Е	xterior	Fran	me - Wood	Main	13	48		9		432.0 ft <sup>2</sup>		0.23	0.75	C
8	W	G	arage	Fran	me - Wood	Main	13	22		9		198.0 ft <sup>2</sup>		0.23	0.75	C
							DO	ORS								
$\bigvee$	#		Ornt		Door Type	Space			Storms		U-Valu	e F1	Width In	Height Ft I	n	Area
	1		S		Insulated	Main			None		.46	3		6	8	20 ft²
	2		W		Insulated	Main			None		.46	3		6	8	20 ft²
			<b>147</b> II		0	rientation sh	WINI own is the e	OOWS ntered, F		dorier	ntation.					
$\checkmark$	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp		Area		rhang Separation	Int Sha	de	Screeni
	1	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	1:	5.0 ft²	1 ft 0 in	3 ft 0 in	None	)	None
	2	s	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	g	0.0 ft²	1 ft 0 in	3 ft 0 in	None	)	None
	3	S	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	30	0.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	•	None
	4	s	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	30	0.0 ft <sup>2</sup>	6 ft 6 in	1 ft 0 in	None	)	None
	5	Ε	6	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	30	0.0 ft²	7 ft 6 in	1 ft 0 in	None	)	None
	6	Ν	7	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	3	3.0 ft²	1 ft 6 in	1 ft 0 in	None	)	None
	7	Ν	7	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	4	5.0 ft²	1 ft 6 in	1 ft 0 in	None	)	None
	8	Ν	7	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	9	0.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	)	None
	9	N	7	TIM	Low-E Double	Yes	0.36	0.25	N	20	0.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	)	None
							GAF	RAGE								
$\sqrt{}$	#		Floo	r Area	Ceiling	Area	Exposed\	Vall Per	imeter	P	Avg. Wa	ıll Height	Expose	ed Wall Ins	ulation	
	1		550	Oft²	550	ft²	6	9.5 ft			9	ft		1		
							INFILT	RATIC	N							
	Scope Method SLA						EqLA ACH									
;	Scope		IV	lethod		SLA (	CFM 50	ELA		EqLA		ACH	ACH	<del>1</del> 50		

## INPUT SUMMARY CHECKLIST REPORT

ORM R4	105-2020		INP	UT SU	MM	<u>ARY C</u>	HECK	LIST RE	PORT					
						HEAT	ING SY	STEM						
$\sqrt{}$	# Sy	stem Type		Subtyp	е	Spe	ed	Efficiency	/ Ca <sub>l</sub>	pacity			Block	Ducts
	1 Ele	ctric Heat Pur	mp/	None		Sinç	gle	HSPF:8.2	26.39	kBtu/hr			1	sys#1
						COOL	ING SY	STEM						
$\bigvee$	# Sy	stem Type		Subtyp	е	Sub	type	Efficiency	Capacity	Air F	low	SHR	Block	Ducts
	1 Ce	ntral Unit/		None		Sinç	gle	SEER: 14	17.18 kBtu/l	nr 510	cfm	0.7	1	sys#1
						нот w	ATER S	YSTEM						
$\sqrt{}$	# 5	System Type	SubType	Loca	tion	EF	(	Сар	Use	SetPnt		Co	nservatio	n
<del></del>	1 E	Electric	None	Gara	ige	0.92	50	) gal	40 gal	120 deg			None	
					SOL	AR HO	T WATE	R SYSTE	М					
$\checkmark$	FSEC Cert #	Company Na	ıme	System Model#				Co	Collector Collector Model # Area					FEF
	None	None									ft²			
							DUCTS							
\/		Supp	•			turn			Air	CFM 25	CFM2			HVAC
V			-Value Area		ation	Area		ageType	Handler		OUT	QN	RLF	Heat C
	1	Attic	6 376 ft <sup>2</sup>	A	ttic	75.2 ft²	PERATU	IDES	Garage	(Default)	c(Defau	lt) c		1
Program	nableTherm	ostat: Y			C	eiling Fans		JKL0						
Cooling	[]Jan	[]Feb	[ ] Mar	ſlΔnr		] May		f¥1 lul	[Υ] Δυα	[Y] Çar	, г	1 Oct	[ ] Nov	[]De
Heating Venting	[X] Jan [ ] Jan	[X] Feb [ ] 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] Ser [ ] Ser [ ] Ser	) [X	] Oct ] Oct ] Oct	[ ] Nov [X] Nov [X] Nov	[X] De [ ] De
	at Schedule	HERS 200	6 Reference						ours					
Schedule 1			1	2	3	4	5	6	7	8	9	10	11	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	80 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
leating (W	VD)	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 (W	VEH)	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		•					
Ma	ass Type			Area			Thicknes	s	Furniture Fra	ction	5	Space		
De	efault(8 lbs/	sq.ft.		0 ft²			0 ft		0.3			Main		

## **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 94

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

, Lake City, FL, 32025

1.	New construction or exis	New (Fr	om Plans)	<ol><li>Wall Type and Insulation</li></ol>	Insulation	Area		
2.	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	1227.00 ft²		
3.	Number of units, if multip	ole family	1		<ul><li>b. Frame - Wood, Adjacent</li><li>c. N/A</li></ul>	R=13.0 R=	198.00 ft <sup>2</sup> ft <sup>2</sup>	
4.	Number of Bedrooms		3		d. N/A	R=	ft²	
5.	Is this a worst case?	No		<ol> <li>Ceiling Type and insulation level a. Under Attic (Vented)</li> </ol>	Insulation R=38.0	Area 1579.00 ft²		
6.	Conditioned floor area (ft	.2)	1504		b. N/A	R=	ft²	
7.	Windows**	Description		Area	c. N/A	R=	ft²	
	a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		191.00 ft²	12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage		R ft <sup>2</sup> 6 376	
	b. U-Factor:	N/A		ft²				
	SHGC:				13. Cooling systems	kBtu/hr	Efficiency	
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	17.2	SEER:14.00	
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency HSPF:8.20	
	Area Weighted Average Overhang Depth: Area Weighted Average SHGC:			3.165 ft. 0.250	a. Electric Heat Pump	20.4 HSPF.0		
	8. Skylights a. U-Factor(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Ca	ap: 50 gallons EF: 0.92	
	SHGC(AVG):	IN/A			<ul> <li>b. Conservationfeatures</li> </ul>			
	9. Floor Types		Insulation	Area	None			
	<ul><li>a. Slab-On-Grade Edg</li><li>b. N/A</li></ul>	a. Slab-On-Grade Edge Insulation R=0.0 1504.00 b. N/A R=			Credits (Performance method)		CV, Pstat	
	c. N/A		R=	ft²				

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.

<sup>\*\*</sup>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: 24							
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 shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.  ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI):  5.000								
x 60 ÷ 13536 = 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/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,lorida 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 the code official. Testing shall be performed at any time after creation of all penetrations of the individuals 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:  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:							