FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 45 Jewel La Street:	ake I	Builder Name: Sorensen & Smith, LLC. Permit Office: Columbia County					
City, State, Zip: Lake City, FL,	32025	Permit Number:					
Owner: Design Location: FL, Gainesville	•	Jurisdiction: County: Columbia (Florida Climat	eZone 2)				
New construction or existing	New (From Plans)	10. Wall Types(1795.5 sqft.)	Insulation Area				
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior b. Frame - Wood, Adjacent	R=13.0 1602.00 ft ² R=13.0 193.50 ft ²				
3. Number of units, if multiple family	1	c. N/A	R=13.0 193.50 ft ² R= ft ²				
4. Number of Bedrooms	3	d. N/A	R= ft²				
5. Is this a worst case?	No	11. Ceiling Types (1960.0 sqft.) a. Under Attic (Vented)	Insulation Area R=38.0 1960.00 ft ²				
Conditioned floor area above grade	(ft²) 1867	b. N/A	R= 58.0 1960.00 It ²				
Conditioned floor area below grade	(/	c. N/A	R= ft²				
7. Windows (202.0 sqft.) Descri		12. Ducts	R ft ²				
a. U-Factor: Dbl, U=0	•	a. Sup: Attic, Ret: Attic, AH: Garage	6 466.75				
SHGC: SHGC=0	0.25						
b. U-Factor: N/A	ft²	13. Cooling systems	kBtu/hr Efficiency				
SHGC:	ft²	a. Central Unit	21.4 SEER:14.00				
c. U-Factor: N/A SHGC:	ic .						
Area Weighted Average Overhang	Depth: 3.533 ft.	14. Heating systems	kBtu/hr Efficiency				
Area Weighted Average SHGC:	0.250	a. Electric Heat Pump	28.3 HSPF:8.20				
8. Skylights	Area						
c. U-Factor:(AVG) N/A SHGC(AVG): N/A	ft²	15. Hot water systems					
SHGC(AVG): N/A 9. Floor Types (1867.0 sqft.)	Insulation Area	a. Electric	Cap: 50 gallons				
a. Slab-On-Grade Edge Insulation	R=0.0 1867.00 ft ²	b. Conservationfeatures	EF: 0.920				
b. N/A	R= ft²	None					
c. N/A	R= ft²	16. Credits	CV, Pstat				
Glass/Floor Area: 0.108	Total Proposed Modifie	d Loads: 46.15	PASS				
Glass/1 1001 Area. 0.100	Total Baseline	Loads: 46.53	1 700				
I hereby certify that the plans an	d specifications covered by	Review of the plans and	THE STAD				
this calculation are in compliance		specifications covered by this	TO TO				
Code.	1.11900	calculation indicates compliance	8/11/2				
DDED4DED DV	M.CTD	with the Florida Energy Code.	A Maria OR				
PREPARED BY:1 / 31	/ 2022	Before construction is completed this building will be inspected for	CHAPTER STATE OF THE STATE OF T				
DATE	·	compliance with Section 553.908					
I hereby certify that this building,	as designed is in compliance	Florida Statutes.					
with the Florida Energy Code.	as assigned, to in compliance		GOD WE TRUS				
OWNER/AGENT: DATE:		BUILDING OFFICIAL:					
DAIC		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 45 Jewel Lak User 1 Sorensen & Smit Columbia County Detached New (From Plans	rh, LLC. /	Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Venti Whole Hous	s: :: e: lation:	3 1867 1 No 0 Yes No		Lot # Block PlatB Stree Coun	:/Subdivis ook: t:	45 sion: Je Co	wel Lake I blumbia lke City ,		
				CLIMA	TE							
Desi	gn Location	TMY Site			esign Temp .5 % 2.5 %	Int D Wint	esign Tem er Summ		eating ree Days	Design Moistur	-	Temp inge
FL,	Gainesville	FL_GAINESVILLE	E_REGI		32 92	70	75	1	305.5	51	Me	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	1867	16803									
				SPAC	ES ———							
Number	Name	Area	Volume K	itchen	Occupants	Bedroo	oms Ir	nfil ID	Finished	Coo	led	Heate
1	Main	1867	16803	Yes	6	3	1		Yes	Yes		Yes
				FLOOI	RS							
	Floor Type	Space	Perin		R-Value	Area				Tile Wo		rpet
1 Slat	o-On-Grade Edge Ir	nsulation M	ain 199.5		0	1867 ft ²				0 0)	1
				ROO	F							
√ #	Туре	Materials	Roof Area	Gable Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg
1	Hip	Composition shing	les 2244 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	33.7
				ATTI	С							
√ #	Туре	Venti	ation	Vent Rati	o (1 in)	Area	RBS	IR	cc			
1	Full attic	Ven	ted	300) ^	867 ft²	Υ	1	١			
				CEILIN	NG							
V #	Ceiling Type		Space	R-Value	e Ins Ty	ре	Area	Fran	ning Frac	Truss	Туре	
1	Under Attic (Ven	tod)	Main	38	Double E		1960 ft²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

WALLS														
V #	Ornt	Adjace To		Туре	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing R-Value		Solar Absor.	Below Grade%
1	S	Exterior		me - Wood	Main	13	16	8	9	150.0 ft²		0.23	0.75	0
2	Е	Exterior	Frai	me - Wood	Main	13	4		9	36.0 ft ²		0.23	0.75	0
3	S	Exterior	Frai	me - Wood	Main	13	4		9	36.0 ft ²		0.23	0.75	0
4	W	Exterior	Frai	me - Wood	Main	13	4		9	36.0 ft ²		0.23	0.75	0
5	S	Exterior	Frai	me - Wood	Main	13	9	10	9	88.5 ft ²		0.23	0.75	0
6	S	Garage	Frai	me - Wood	Main	13	21	6	9	193.5 ft²		0.23	0.75	0
7	Е	Exterior	Frai	me - Wood	Main	13	41	6	9	373.5 ft ²		0.23	0.75	0
8	Ν	Exterior	Frai	me - Wood	Main	13	12	10	9	115.5 ft ²		0.23	0.75	0
9	Е	Exterior	Frai	me - Wood	Main	13	7	2	9	64.5 ft ²		0.23	0.75	0
10	Ν	Exterior	Frai	me - Wood	Main	13	11	4	9	102.0 ft ²		0.23	0.75	0
11	W	Exterior	Frai	me - Wood	Main	13	8	8	9	78.0 ft ²		0.23	0.75	0
12	Ν	Exterior	Frai	me - Wood	Main	13	15	0	9	135.0 ft ²		0.23	0.75	0
13	Ν	Exterior	Frai	me - Wood	Main	13	12	10	9	115.5 ft ²		0.23	0.75	0
14	W	Exterior	Frai	me - Wood	Main	13	30	2	9	271.5 ft ²		0.23	0.75	0
DOORS														
\vee	#	Ornt		Door Type	Space			Storms	u-Val	ue Ft	Width In	Height Ft I	n	Area
	1	S		Insulated	Main			None	.46	3		6	8 :	20 ft²
	2	S		Insulated	Main			None	.46	3		6	8	20 ft²
				0	rientation sho		DOWS		d orientation	1				
/		Wall			Heritationship	WIT IS THE CI	ntorou, r	Торосс	donontation	Over	hang			
\checkmark	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	o Area		Separation	Int Sha	de :	Screening
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	5 ft 6 in	1 ft 0 in	None)	None
	2	S 5	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	3	E 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	4	E 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	5	N 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	6	N 10	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	7	N 12	Vinyl	Low-E Double	Yes	0.36	0.25	N	40.0 ft ²	10 ft 2 in	1 ft 0 in	None)	None
	8	N 13	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in		None)	None
	9	W 14	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	1 ft 6 in		None		None
						GAF	RAGE							
$\sqrt{}$	#	Floo	r Area	Ceiling	Area	Exposed V	Vall_Per	imeter	Avg. W	all Height	Expose	ed Wall Ins	ulation	
	1	437.1	595 ft²	437.15	95 ft²	6	5.2 ft		(9 ft		1		

INPUT SUMMARY CHECKLIST REPORT

					INFI	LTRATIO	ON						
#	Scope	Method		SLA	CFM 50	ELA	Ed	qLA ,	ACH	ACH 5	50		
1	Wholehouse	Proposed A	CH(50)	.000286	1400.3	76.82	144	4.22 .	1027	5			
					HEATI	NG SYS	TEM						
\vee	#	System Type		Subtype	Spee	d	Efficiency	/ Ca _l	pacity		Block	Dı	ucts
	1	Electric Heat Pu	mp/	None	Singl	е	HSPF:8.2	28.29	kBtu/hr		1	sy	/s#1
COOLING SYSTEM													
\vee	#	System Type		Subtype	Subty	/ре	Efficiency	Capacity	Air F	low SH	R Block	Dı	ucts
	1	Central Unit/		None	Singl	е	SEER: 14	21.44 kBtu/l	hr 630	cfm 0.7	7 1	sy	/s#1
					HOT WA	TER SY	STEM						
\vee	#	System Type	SubType	Location	EF	Ca	р	Use	SetPnt		Conservation	on	
	1	Electric	None	Garage	0.92	50 (jal	40 gal	120 deg		None		
				SO	LAR HOT	WATER	SYSTE	M					
\vee	FSEC Cert 7		ame		System M	lodel#	Co	ollector Model			Storage Volume	FEF	
	None	None								ft²			
						DUCTS							
	/ #	Sup Location R	pply R-Value Area	Re Location	eturn Area	Leaka	geType	Air Handler	CFM 25 TOT	CFM25 OUT	QN RLF	HV. Heat	AC # Cod
	1	Attic	6 466.75 f	Attic	93.35 ft²	Default	Leakage	Garage	(Default)	c(Default) c		1	1
					TEMP	ERATU	RES						
Pro	ogramableTh	ermostat: Y		C	Ceiling Fans:								
Coo Hea Ven	oling [] ating [] ating [] a	Jan [X] 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	[] Oct [] Oct [X] Oct	: ÎXÎ Nov		Dec Dec Dec

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule:	HERS 200	6 Referen	ce				F	lours					
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 Type		Ar	Area		Thickness		Furniture Fraction		5	Space			
Default(8 lbs/so	q.ft.		0 1	ft²		0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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	Detache	d	a. Frame - Wood, Exterior	R=13.0	1602.00 ft²	
3.	Number of units, if multip	1		b. Frame - Wood, Adjacentc. N/A	R=13.0 R=	193.50 ft ² ft ²	
4.	Number of Bedrooms		3		d. N/A	R=	ft²
5.	Is this a worst case?	No		 Ceiling Type and insulation level Under Attic (Vented) 	Insulation R=38.0	Area 1960.00 ft²	
6.	Conditioned floor area (ft	2)	1867		b. N/A	R=	ft²
7.	Windows** a. U-Factor:	Description Dbl, U=0.36		Area 202.00 ft²	c. N/A12. Ducts, location & insulation level	R=	ft² R ft²
	SHGC:	SHGC=0.25		202.00 II ⁻	a. Sup: Attic, Ret: Attic, AH: Garage		6 466.75
	b. U-Factor:	N/A		ft²			
	SHGC:				13. Cooling systems	kBtu/hr	Efficiency
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	21.4	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:			3.533 ft. 0.250	a. Electric Heat Pump	28.3 HSPF:8.2		
	8. Skylights a. U-Factor(AVG):	Description N/A		Area ft²	15. Hot water systems a. Electric	Ca	ap: 50 gallons EF: 0.92
	SHGC(AVG):	N/A			b. Conservationfeatures		
	9. Floor Types		Insulation	Area	None		
	a. Slab-On-Grade Edg	e Insulation	Insulation R=0.0 1867.00		Credits (Performance method)		CV, Pstat
	b. N/A	N/A R= ft^2					- ,
	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.

^{**}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: 45									
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										
CFM(50) x 60 ÷ 16803 = 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 ode official. Testing shall be performed at any time after creation of all penetrations of the unidating 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:									