FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 15 Jewel Lake - Avery Model - reduced Street: City, State, Zip: Lake City, FL, 32025 Owner: N/A Design Location: FL, Gainesville	Builder Name: Sorensen & Smith Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate	e 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(170.0 sqft.) 8. U-Factor: 9. Dbl, U=0.36 9. SHGC: 9. SHGC=0.25 9. U-Factor: N/A 9. Floor Types (1528.0 sqft.) 9. Single family 1 1 1 2. New (From Plans) 9. Detached 1 1 1 2. Detached 1 1 2. Detached 1 1 3. New (From Plans) 1 4 1 5 1 6 1 6 1 7 1 7 1 7 1 8 7 8 8 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9	10. Wall Types(1500.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1604.4 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	Insulation Area R=13.0 1302.00 ft² R=13.0 198.00 ft² R= ft² R= ft² Insulation Area R=38.0 1604.40 ft² R= ft² R= ft² R= ft² R= ft² A ft² C 382 KBtu/hr Efficiency 18.8 SEER:15.00 KBtu/hr Efficiency 24.2 HSPF:8.20 Cap: 50 gallons EF: 0.920
Glass/Floor Area: 0.111 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: DATE: 4 / 5 / 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:	COD WE TRUS

- 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

				PROJ	ECT							
Title: Building Type Owner Name: # of Units: Builder Name Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	N /A 1	nith nty	Bedrooms: Conditione Total Storic Worst Cas Rotate Ang Cross Ven Whole Hou	d Area: es: e: yle: tilation:	3 1528 1 No 0 Yes No		Lot # Block Plate Stree Coul	k/Subdivi Book: et:	15 sion: Je Co p: La	t Informat wel Lake blumbia ke City , . , 320		
				CLIMA	ATE							
√ De	sign Location	TMY Site			esign Temp '.5 % 2.5 %	Win	Design Tem ter Sumn	ner Deg		Moistur		ange
Fl	., Gainesville	FL_GAINESVILLE	E_REGI		32 92	70	75	1	1305.5	51 	M	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	1528	13752									
				SPAC	ES							
Number	Name	Area		Kitchen	Occupants	Bedro		nfil ID	Finished			Heat
1	Main	1528 	13752	Yes	6	3		1	Yes	Yes		Yes
7				FLOO								
V #	Floor Type lab-On-Grade Edge	Space M	Perir ain 181	neter #	R-Value 0	Area 1528 ft	2				ood Ca	rpet 1
13	ap-On-Grade Edge	- Ilisulatio W	alli 101			132011						_
				ROC					F '''	P* 144	Deed	D:4
√ #	Туре	Materials	Roof Area	Gabl Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
1	Hip	Composition shing	les 1836 ft²	O ft²	Medium	Υ	0.96	No	0.9	No	0	33.6
				ATT	IC							
√ #	Туре	Ventil	ation	Vent Rat	io (1 in)	Area	RBS	IR	cc			
1	Full attic	Ven	ted	30	0	1528 ft²	Y		N			
				CEILI	NG							
/ #	Ceiling Type		Space	R-Valu	e Ins T	/ре	Area	Fran	ning Frac	Truss	Туре	
1	Under Attic (Ve	ented)	Main	38	Double	Batt	1604.4 ft²		0.11	Wo	ood	

ı	M	DI	LIT	CI.	INABA	ADV	CHECKI	ICT	REPORT	
и	v		u	- OL) IAI IAI	ARI	CHECKL	.131	REPURI	

	405-20	020		INPUT S	SUMMA		LLS	13 I KI	PORT					
		Adja	cent		Cnass	Cavity	Wid		Height		Sheathing		Solar	Below
V #	Ornt NE	To Exterio		Type me - Wood	Space Main	R-Value 13	Ft_ 17		Ft In	Area 154.5 ft ²	R-Value	Fraction 0.23	Absor. 0.75	Grade'
'	NE	Exterio		me - Wood	Main	13	13		9	118.5 ft ²		0.23	0.75	0
²	NE	Exterio		me - Wood	Main	13	20		9	180.0 ft ²		0.23	0.75	0
3 4	SE	Exterio		me - Wood	Main	13	27	2 9		244.5 ft ²		0.23	0.75	0
* 5	SW	Exterio		me - Wood	Main	13	3		9	27.0 ft ²		0.23	0.75	0
5 6	SW	Exterio		ime - Wood	Main	13	48		∋	432.0 ft ²		0.23	0.75	
8 7	NW			me - Wood	Main	13	22		9	198.0 ft ²		0.23	0.75	
′ 8	NE	Garag Exterio		me - Wood	Main	13	8		9	72.0 ft ²		0.23	0.75	(
°	NW	Exterio		me - Wood	Main	13	8	2 9		73.5 ft²		0.23	0.75	
⁹	1400	Extend	л гіа	IIIle - VVOOd	IVIAIII				, 	75.5 10		0.20	0.70	
DOORS														
\checkmark	#	Or	nt	Door Type	Space			Storms	U-Valı	je F	Width t In	Height Ft	ln	Area
	1	N	≣	Insulated	Main			None	.46	3		6	8	20 ft²
	2	N\	٧	Insulated	Main			None	.46	3	,	6	8	20 ft²
WINDOWS Orientation shown is the entered, Proposed orientation.														
./		Wa				_			_		rhang			
V		Ornt ID	Frame		NFRC	U-Factor		Imp	Area		Separation	Int Sha		Screenir
		NE 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None		None
		NE 2	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	None		None
	3	NE 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	6 ft 6 in	1 ft 0 in	None		None
	4	SE 4	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²		1 ft 0 in	None		None
	5	SW 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	75.0 ft²	1 ft 6 in	1 ft 0 in	None		None
	6	SW 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft²	1 ft 6 in	1 ft 0 in	None		None
	7	NE 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft²	1 ft 6 in	1 ft 0 in	None	• 	None
						GAF	RAGE							
V	#	Flo	or Area	Ceiling	Area	Exposed V	Vall Per	imeter	Avg. W	all Height	Expose	ed Wall Ins	ulation	
	1	4	84 ft²	484	ft²	•	66 ft		9	ft		1		
						INFILT	RATIC	N						
# S	Scope		Method		SLA	CFM 50	ELA	E	qLA	ACH	ACH	H 50		

INPUT SUMMARY CHECKLIST REPORT

ORM R4	105-2020	J	INP	JISUM	MARY C	TING SY		PUKI					
V	# S	ystem Type		Subtype	Spe	eed	Efficiency	, Cap	oacity		В	lock	Ducts
		lectric Heat Pu	mp/	None	Sir	ngl	HSPF:8.2	2 24.17	kBtu/hr		,	1	sys#1
					COO	LING SY	STEM						
$\sqrt{}$	# S	ystem Type		Subtype	Sul	otype	Efficiency	Capacity	Air F	low Sh	HR B	lock	Ducts
	1 C	entral Unit/		None	Sir	ngl	SEER: 15	18.77 kBtu/l	nr 570	cfm 0	.7	1	sys#1
					HOT W	ATER S	YSTEM						
$\sqrt{}$	#	System Type	SubType	Location	on EF	С	ар	Use	SetPnt		Conser	vatior	1
	1	Electric	None	Garage	e 0.92	50	gal	40 gal	120 deg		Nor	ne	
				S	OLAR HO	T WATE	R SYSTE	EM					
\checkmark	FSEC Cert #	Company N	ame		System	Model #	Co	illector Mode		llector Area	Storage Volume		FEF
	None	None								ft²			
DUCTS													
\checkmark	#	Supp Location R-	ply -Value Area	 Locati	Return ion Area	Leaka	age Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN F	RLF	HVAC Heat Co
	1	Attic	6 382 ft²	Attio			t Leakage	Garage	(Default)	(Default)			1 '
						PERATU	IRES			=======================================		_	
		mostat: Y			Ceiling Fan								
Cooling Heating Venting	[] Jar [X] Jar [] Jar	T 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		ct X ct X	Nov Nov Nov	[] De [X] De [] De
Thermosta Schedule		e: HERS 200	06 Reference 1	2	3 4	5	H d	ours 7	8	9	10	11	12
Cooling (V	VD)	AM PM	78 80	78 7 80 7	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (V	VEH)	AM PM	78 78	78 7 78 7	78 78 78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (V	VD)	AM PM	66 68	66 6 68 6	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (V	VEH)	AM PM	66 68	66 6 68 6	66 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
						MASS							
Ma	ass Type			Area		Thickness	3	Furniture Fra	ction	Spa	ce		
De	efault(8 lbs	s/sq.ft.		O ft²		0 ft		0.3		N.	lain		

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 exis	ly or multiple family Detached			 Wall Type and Insulation Frame - Wood, Exterior 	Insulation R=13.0	1302.00 ft ²
3.	Number of units, if multip				b. Frame - Wood, Adjacent c. N/A d. N/A	R=13.0 R≕ R=	198.00 ft² ft² ft²
5.	Number of Bedrooms Is this a worst case? Conditioned floor area (f	t²)	3 No 1528		11. Ceiling Type and insulation levela. Under Attic (Vented)b. N/A	Insulation R=38.0 R=	n Area 1604.40 ft² ft²
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 170.00 ft²	c. N/A12. Ducts, location & insulation levela. Sup: Attic, Ret: Attic, AH: Garage	R=	ft² R ft 6 382
	b. U-Factor: SHGC: c. U-Factor: SHGC:	N/A N/A		ft²	13. Cooling systems a. Central Unit	kBtu/hr 18.8	Efficiency SEER:15.00
	d. U-Factor: SHGC: Area Weighted Average Area Weighted Average			ft² 1.853 ft. 0.250	14. Heating systems a. Electric Heat Pump	kBtu/hr 24.2	Efficiency 2 HSPF:8.20
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	Hot water systems a. Electric b. Conservation features	Ca	ap: 50 gallons EF: 0.92
I,	 Floor Types a. Slab-On-Grade Edg b. N/A c. N/A 	e Insulation	Insulation R=0.0 R= .	Area 1528.00 ft² ft² ft²	None Credits (Performance method)		CV, Psta

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.

Page 1 of 1

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 Community:	Lot: 15							
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 test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim	sted and verified as having an air leakage rate of not exceeding 7 air nate Zones 1 and 2.							
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								
X 60 ÷ 13752 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in	Method for calculating building volume: Retrieved from architectural plans Code software calculated Field measured and calculated							
must be verified by building department. 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 (7), Florida 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 building 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.								
 Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. Heating and cooling systems, if installed at the time of the test, shall be turned off. 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 accordant Energy Conservation requirements according to the compliance in								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	_ Issuing Authority:							