FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Street: City, State, Zip: Owner: Design Location:	Stephen Seraballs SW Dawn Lane Lake City, FL, 32024 Stephen Seraballs FL, Gainesville		Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida	
Conditioned floo	multiple family , if multiple family ooms ase? r area above grade (ft²) r area below grade (ft²)	From Plans) Detached 1 1 No 1950 0	 10. Wall Types (2280.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types (2047.0 sqft.) a. Flat ceiling under att (Vented) b. N/A c. N/A 	R=38.0 2047.00 ft ²
Area Weighted Av 8. Skylights U-Factor:(AVG) SHGC(AVG): 9. Floor Types a. Slab-On-Grade b. N/A c. N/A	Dbl, U=0.36 SHGC=0.25 N/A N/A Perage Overhang Depth: Perage SHGC: Description N/A N/A Insulation REdge Insulation R= R= R=	1950.00 ft ² ft ² ft ²	 12. Roof(Metal, Vented) 13. Ducts, location & insulation leveral. b. c. 14. Cooling Systems a. Central Unit 15. Heating Systems a. Electric Heat Pump 16. Hot Water Systems a. Electric b. Conservation features 17. Credits 	Deck R=0.0 2010 ft² el R ft² kBtu/hr Efficiency 18.0 SEER:14.00 kBtu/hr Efficiency 23.1 HSPF:8.20 Cap: 50 gallons EF: 0.920 None CV, Pstat
Glass/Floor Area: 0	.057 Total I	Proposed Modifie Total Baselir		PASS
this calculation are Code. PREPARED BY: DATE: I hereby certify that with the Florida Enc OWNER/AGENT:	01 / 23 / 2023 this building, as designed, is	in compliance	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.
- Proposed Qn of NAN exceeds the performance method default limit of 0.08 and therefore does not require duct testing. R405 .2.3
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE 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: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	Stephen Seraballs User Stephen Seraballs Columbia County Detached New (From Plans) 2023		Bedroom: Condition Total Stor Worst Ca Rotate Ar Cross Ve Whole Ho Terrain: Shielding	ned Area: ries: ise: ngle: ntilation: ouse Fan:	1 1950 1 No 0 Yes No Suburban Suburban	Lot # Bloc PlatE Stree Cour	k/SubDivisio Book: et:	Street Add on: SW Dawn Columbia Lake City, FL, 32024			
				CLIM	ATE						
Design Location		Tmy Site		Desig 97.5%	gn Temp 2.5%	Int Desig Winter		Heating Degree Days	Design Moisture	Dai Rar	ly temp nge
FL, Gainesville	F	L_GAINESVILLE_	REGIONA	32	92	70	75	1305.5	51	Mediu	ım
				BLO	CKS						
Number	Name	Area	Vol	lume							
1	Block1	1950	234	100 cu ft							
				SPA	CES						
Number	Name	Area	Volume	Kitchen	Occupants	Bedr	ooms	Finished	Cool	ed H	eated
1	Main	1950	23400	Yes	10		1	Yes	Ye	s	Yes
				FLOC	ORS	(Total Ex	posed Are	ea = 19	50 sq.	.ft.)
√# Floor Typ	pe	Space	Exposed	Perim F	Perimeter R-V	alue Area	U-Facto	r Joist R-Value	e Tile V	Vood	Carpet
1 Slab-On-G	rade Edge Ins	Main	190	D	0	1950	ft 0.304		0.00	0.00	1.00
				RO	OF						
√# Type		Materials		Roof .rea	Gable Root Area Colo		Solar Absor.	SA Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
1 Gable or sh	ned	Metal	20	10 ft² 1	36 ft ² Mediu	m Y	0.96	No 0.9	No	0	14.04
				ATT	ГІС						
/# Type		Ventilation	1	Vent R	atio (1 in)	Area	RBS	IRCC			
1 Partial cath	edral ceiling	Vented		3	300	1950 ft²	Υ	N			
				CEIL	ING	(Total Ex	posed Are	ea = 20	47 sq.	.ft.)
√# Ceiling T	уре		Space	R-Va	llue Ins. Ty	pe Are	ea U-Fa	actor Framin	g Frac.	Truss	з Туре
	under attic(Vented)		Main			Batt 2047	.0ft² 0.0		11	W	

INPUT SUMMARY CHECKLIST REPORT

								W	ALLS	3		(Tota	al Exp	osed	Area	= 22	.80 sq	.ft.)
√ #	Ornt		acent Го	Wall Type		Space)		avity -Value	Width Ft In		Height Ft In	Area sq.ft.		Shea R-Va		n. Solar ac. Abso	Below r. Grade
1 2 3 4	S E B N W		Exterior Exterior Exterior Exterior	Frame - Wood Frame - Wood Frame - Wood Frame - Wood	d d	N N	Main Main Main Main		19.0 19.0 19.0 19.0	65.0 (30.0 (65.0 (30.0 () 1:) 1:	2.0 0 2.0 0 2.0 0 2.0 0	780.0 360.0 780.0 360.0	0.06′ 0.06′	1 1	0.23 0.23 0.23 0.23	3 0.75 3 0.75	0 % 0 %
DOORS (Total Exposed Area = 40 sq.ft.)																		
√ #	Ornt		Adjacent	: To Door Type	1	Space	•		Stor	rms	L	J-Value		Vidth Ft In		Height Ft In	А	rea
1	S ! N		Exterio Exterio			Mair Mair				one one		0.46 0.46	3.00 3.00		6.0 6.0			.0ft² .0ft²
	WINDOWS (Total Exposed Area = 112 sq.ft.)																	
\ /#		Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	Over Depth (ft)		Interi	or Shade	Screen
2 3 4	S E E N W	1 2 2 3 4	Vinyl Vinyl TIM Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Y Y Y Y	0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25	N N N N	N N N N	24.0 12.0 40.0 24.0 12.0	4 2 1 4 2	2.00 2.00 6.00 2.00 2.00	3.00 3.00 6.67 3.00 3.00	1.0 1.0 1.0 1.0 1.0	4.0 5.0 5.0 4.0 4.0	N N	lone lone lone lone lone	None None None None None
							INF	ILT	RAT	ΓΙΟΝ								
/ #	Scope)	M	ethod	SI	LA (CFM50		ELA	EqLA	A	ACH	ACH5	0 Spac	ce(s)	Infilt	ration Te	st Volume
1	Who	olehou	use Pro	posed ACH(50)	0.00	0038	1950	1	06.98	200.8	5 (0.1152	5.0	Α	.II	2340	00 cu ft	
								M	ASS									
/ #	Mas	ss Typ	е		Ar	ea		Т	hicknes	SS	Fun	niture Fra	action	;	Space			
1	Def	ault(8	lbs/sq.ft.)		0	ft²			0 ft			0.30			Main			
HEATING SYSTEM																		
/ #	Sys	tem T	уре	;	Subtype/	Speed	AHR	l #	Effic	ciency	Capa kBtu	•	Geoth ntry P	nermal F ower		mp Current	Ducts t	Block
1	Elec	ctric H	eat Pump	1	None/Si	ingle			HSPI	F: 8.20	23.	1	(0.00	0.00	0.00	sys#0	1
							COOL	_IN	G SY	/STE	M_							
√#	Sys	tem T	ype	•	Subtype/	Speed	AHR	l #	Ef	ficiency		Capacity kBtu/hr	,	Air Flow cfm		SHR	Duct	Block
1	Cer	itral U	nit		None	/Single			SE	ER:14.0	18.0	0		540		0.70 [Ductless	1

INPUT SUMMARY CHECKLIST REPORT

	HOT WATER SYSTEM													
\ #	System Type	Subtype		Location		EF(UEF)	Сар	Use	SetPnt	Fixture	Flow	Pipe Ins	s. Pip	e length
1	Electric	None		Main		0.92 (0.92)	50.00 ga	l 40 gal	120 deg	Stan	dard	None		12
	Recirculation System		c Control Type		Loop length	Branch length	Pump power	DWHR	Facilitie Connect			DWHR Eff	Othe	r Credits
1	No				NA	NA	NA	No	NA	N	Ą	NA	Nor	ie
						DU	CTS							
V Buct #		oply R-Value A		Reti ation I			Leakage l	Гуре	Air Handler	CFM 25 TOT	CFM 25 OUT	5 QN	RLF H	HVAC # leat Cool
	TEMPERATURES													
Progr Coolii Heatii Ventii	ng [X] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	۱[] ۱[]	May []	Jun Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] O [X] C	ct [[] Nov X] Nov X] Nov	[] Dec [X] Dec [] Dec
	ermostat Schedo nedule Type	ule: HERS 2	2006 Referei 1	nce 2	3	4	5	Hou 6	irs 7	8	9	10	11	12
Co	oling (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
Co	oling (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
He	ating (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
Hea	ating (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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 78

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

SW Dawn Lane, Lake City, FL, 32024

1.	New construction or ex	isting	New (From Plans		10.	Wall Types (2280.0 sqft.)	Insulatio	
2.	Single family or multiple family			Detached		Frame - Wood, Exterior	R=19.0	2280.00 ft ²
3.	Number of units, if mult		1		N/A N/A			
4.	Number of Bedrooms			1		N/A		
5.	Is this a worst case?			No		Ceiling Types(2047.0 sqft.)	Insulation	_
6.	Conditioned floor area Conditioned floor area			1950 0	b.	Flat ceiling under att (Vented) N/A N/A	R=38.0	2047.00 ft ²
а	Windows** . U-Factor: SHGC: . U-Factor:	Description Dbl, U=0.36 SHGC=0.25 N/A		Area 112.00 ft ² ft ²	12.		Deck R=0.0 I	2010 ft ² R ft ²
	SHGC: . U-Factor: SHGC:	N/A	th:	ft ²		Cooling Systems Central Unit	kBtu/hr 18.0	Efficiency SEER:14.00
	rea Weighted Average (rea Weighted Average	• •	ui.	0.250				
	Skylights U-Factor:(AVG) SHGC(AVG):	Description N/A N/A		Area N/A ft²		Heating Systems Electric Heat Pump	kBtu/hr 23.1	Efficiency HSPF:8.20
a b	Floor Types . Slab-On-Grade Edge . N/A . N/A	==		Area 1950.00 ft² ft² ft²	a.	Hot Water Systems Electric Conservation features	Сар	o: 50 gallons EF: 0.920
						Credits		None 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: _____ Date: _____
Address of New Home: SW Dawn Lane City/FL Zip: Lake 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: Community:	Lot: NA							
Address: SW Dawn Lane								
City: Lake City State	e: FL Zip: 32024							
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 ÷ 23400 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation i 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 official. Testing shall be performed at any time after creation of all penetrations of the unidding thermal envelope. During testing:								
 Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 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 accorda Energy Conservation requirements according to the compliance								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							