FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Ellis Residence Builder Name: 935 NW Huntsville Church Dr Permit Office: Columbia County Street: Permit Number: City, State, Zip: Lake City, FL, Owner: Jurisdiction: Design Location: FL. Gainesville County: Columbia (Florida Climate Zone 2) 1. New construction or existing New (From Plans) 10. Wall Types(1280.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1280.00 ft² 2. Single family or multiple family Detached b. N/A R= ft² 3. Number of units, if multiple family c. N/A R= ft2 d. N/A 3 4. Number of Bedrooms R= ft² Insulation 11. Ceiling Types (1575.0 sqft.) Area 5. Is this a worst case? No 1575.00 ft² a, Under Attic (Vented) R=38.0 1500 b. N/A R= ft² 6. Conditioned floor area above grade (ft2) ft² c. N/A R= Conditioned floor area below grade (ft²) ft² 12. Ducts R Description 7. Windows (148.0 sqft.) Area a. Sup: Attic, Ret: Attic, AH: Exterior 375 Dbl, U=0.36 a. U-Factor: 148.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² 13. Cooling systems kBtu/hr Efficiency SHGC: a. Central Unit 18.2 SEER:16.00 c. U-Factor: N/A ft² SHGC: 14. Heating systems kBtu/hr Efficiency Area Weighted Average Overhang Depth: 1.000 ft. a. Electric Heat Pump 21.7 HSPF:8.20 Area Weighted Average SHGC: 0.250 8. Skylights Area c. U-Factor:(AVG) N/A ft2 15. Hot water systems N/A SHGC(AVG): a Electric Cap: 50 gallons 9. Floor Types (1500.0 sqft.) Insulation Area EF: 0.920 b. Conservationfeatures a. Slab-On-Grade Edge Insulation R=0.0 1500.00 ft² None b. N/A R= ft2 c. N/A R= ft² 16. Credits CV. Pstat Total Proposed Modified Loads: 37.96 PASS Glass/Floor Area: 0.099 Total Baseline Loads: 38.23 I hereby certify that the plans and specifications covered by Review of the plans and this calculation are in compliance with the Florida Energy specifications covered by this calculation indicates compliance Code. with the Florida Energy Code. PREPARED BY: Before construction is completed DATE: this building will be inspected for compliance with Section 553.908 Florida Statutes. I hereby certify that this building, as designed, is/in compliance with the Florida Energy Code. OWNER/AGENT: **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).

DATE:

INPUT SUMMARY CHECKLIST REPORT

	2020	INPUT SU		PROJECT								
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Ellis 1		Bedrooms: Conditioned Total Stories Worst Case Rotate Angle Cross Ventil Whole Hous	s: 1 : No e: 0 ation: Yes			Lot # Block PlatB Stree Coun	d/Subdivis look: et:	ion: 93 Ce	reet Addre 5 NW Hui blumbia ike City ,		Chur
				CLIMATE								
√ De	sign Location	TMY Site		Desigi 97.5 %	n Temp 2.5 %		sign Tem		eating ree Days	Desigr Moistur		/Temp
		_GAINESVILLE	_REGI	32	92	70	75		305.5	51		edium
				BLOCKS								
Number	Name	Area	Volume									
1	Block1	1500	12000									
				SPACES								
Number	Name	Area	Volume Ki	tchen Occ	cupants	Bedroor	ns Ir	nfil ID i	Finished	Coo	led	Heate
1	Main	1500	12000	Yes	6	3	1	,	Yes	Yes		Yes
				FLOORS								
√ #	Floor Type	Space	Perim	eter R-V	/alue	Area				Tile Wo	ood Ca	rpet
1 SI	ab-On-Grade Edge Insul	ation Ma	in 160 f	t	0	1500 ft²	1	-		0 ()	1
				ROOF								
√ #	Туре	Materials	Roof	Gable	Roof	Rad	Solar	SA Tested	Emitt	Emitt	Deck	Pito
· #	туре	iviaterials	Area	Area	Color	Barr	ADSUL	rested		Tested	Insul.	(de
1	Gable or shed	Metal	1546 ft²	188 ft²	Light	Y	0.96	No	0.9	No	0	14.0
				ATTIC								
√ #	Туре	Ventila	ition	Vent Ratio (1	in)	Area	RBS	IRC	cc			
1	Full attic	Vente	ed	300		1500 ft²	Υ	N				
				CEILING								
√ #	Ceiling Type		Space	R-Value	Ins T	уре	Area	Fram	ing Frac	Truss	Туре	
	Under Attic (Vented)		Main	38	Double I		575 ft²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

	R405-2					T SUMMA		LLS							
V #	Ornt		Adjace To		Туре	Spac	Cavity e R-Value	Wic		Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov
1	N	E	xterior		me - Wood	Mair		30		3	240.0 ft ²		0.23	0.75	C
_ 2	W	Ε	Exterior	r Frai	me - Wood	Main	13	50	8	3	400.0 ft²		0.23	0.75	C
3	s	E	xterior	r Frai	me - Wood	Main	13	30	8	3	240.0 ft ²		0.23	0.75	C
— , 4	Ε	E	Exterior	r Frai	me - Wood	Main	13	50	8	3	400.0 ft²		0.23	0.75	(
							DO	ORS							
\checkmark	#		Orn	t	Door Type	Space			Storms	U-Valu		Width t In	Heigh Ft	t In	Area
	1		s		Insulated	Main			None	.46	;	3	6	8	20 ft²
	2		Е		Insulated	Main			None	.46	;	3	6	8	20 ft²
						Orientations		DOWS		orientation.					
/			Wall									erhang			
<u> </u>	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp	Area	Depth	Separation	Int Sha	ade	Screeni
	1	Ν	1	Vinyl	Low-E Doubl	e Yes	0.36	0.25	N	30.0 ft ²	1 ft 0 in	10 ft 0 in	Non	е	None
	2	Ν	1	Vinyl	Low-E Doubl	e Yes	0.36	0.25	N	7.0 ft ²	1 ft 0 in	8 ft 0 in	Non	e	None
-	3	Ν	1	Vinyl	Low-E Doubl	e Yes	0.36	0.25	N	3.0 ft ²	1 ft 0 in	8 ft 0 in	Non	е	None
	4	W	2	Vinyl	Low-E Doubl	e Yes	0.36	0.25	N	108.0 ft²	1 ft 0 in	8 ft 0 in	Non	e	None
							INFILT	RATIO	N						
5	Scope		N	Method		SLA	CFM 50	ELA	E	qLA	ACH	ACI	H 50		
Who	olehous	e	Prop	osed AC	H(50)	.000254	1000	54.86	1	103	.098		5		
							HEATING	SYS	TEM						
$\sqrt{}$	#	Sy	/stem T	уре		Subtype	Speed		Efficienc	у (Capacity			Block	Ducts
_	1	El	ectric H	Heat Pun	ıp/	None	Single		HSPF:8.	2 21.	68 kBtu/hi	-		1	sys#1
							COOLING	3 SYS	TEM						
\bigvee	#	Sy	stem T	уре		Subtype	Subtype		Efficiency	Capac	ity A	Air Flow S	HR	Block	Ducts
-	1	Ce	entral U	Jnit/		None	Single		SEER: 16	18.19 kB	tu/hr 5	40 cfm (0.7	1	sys#1
						ŀ	TAW TOP	ER SY	STEM						
\bigvee	#		System	1 Туре	SubType	Location	EF	Ca	р	Use	SetP	nt	Conse	ervation	
	1		Electric		None	Exterior	0.92	50 g	ıal	40 gal	120 de		NI	one	

INPUT SUMMARY CHECKLIST REPORT

				S	OLAR HO	T WATER	SYSTE	M						
$\sqrt{}$	FSEC Cert #	Company	Name		System	Model#	Co	ollector Model		ollector Area	Stor	•	FEF	
	None	None								ft²				
DUCTS														
\checkmark	#		ipply R-Value Area	 Locat	Return ion Area	Leaka	деТуре	Air Handler	CFM 25 TOT	CFM25 OUT	i QN	RLF	HV. Heat	AC# Cod
	1	Attic	6 375 ft²	Atti	c 75 ft²	Default	Leakage	Exterior	(Default)	c(Defaul	t) c		1	1
					TEM	PERATUR	RES							
Program	ableThern	nostat: Y			Ceiling Fans	s:								
Cooling Heating Venting	[] Jan (X) Jan [] Jan	ı ıxı+et) IXIMar	Apr Apr X Apr	May May May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Ser Ser Ser		Oct Oct Oct	X Nov X Nov X Nov	ľX1	Dec Dec Dec
Thermosta Schedule 1		e: HERS 2	006 Reference 1	2	3 4	5	Ho 6	ours 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	8	30 78
Cooling (W	ÆH)	AM PM	78 78	78 78	78 78 78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	Ī	78 78
Heating (W	/ D)	AM PM	66 68	66 68	66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	68 66
Heating (W	/EH)	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	6	88 86
						MASS								
	ass Type			Агеа		Thickness		Furniture Fra	ction	s	pace			
De	fault(8 lbs	/sq.ft.		0 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.

935 NW Huntsville Church Dr, Lake City, FL,

1.	New construction or exis	New (Fro	om Plans)	Wall Type and Insulation	Insulation	ı Area	
2.	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	1280.00 ft²	
3.	Number of units, if multi	1		b. N/A c. N/A	R= R=	ft² ft²	
4.	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	1 Area 1575.00 ft²	
6.	Conditioned floor area (fl	(2)	1500		b. N/A	R=	ft²
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 148.00 ft²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Exterior	R=	ft² R ft² 6 375
	b. U-Factor:	N/A		ft²			
	SHGC: c. U-Factor: SHGC:	N/A		ft²	13. Cooling systems a. Central Unit	kBtu/hr 18.2	Efficiency SEER:16.00
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency
	Area Weighted Average Area Weighted Average			1.000 ft. 0.250	a. Electric Heat Pump	21.7	' HSPF:8.20
i	B. 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 Edg b. N/A c. N/A 	e Insulation	Insulation R=0.0 R= R=	Area 1500.00 ft ² ft ²	 b. Conservation features None 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: Community:	Lot: NA
Address: 935 NW Huntsville Church Dr	
City: Lake City Star	te: FL Zip:
Air Leakage Test Results Passing results must mee	et either the Performance, Prescriptive, or ERI Method
PRESCRIPTIVE METHOD-The building or dwelling unit shall be to changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Cli	ested and verified as having an air leakage rate of not exceeding 7 air mate Zones 1 and 2.
PERFORMANCE or ERI METHOD-The building or dwelling unit st the selected ACH(50) value, as shown on Form R405-2020 (Performance ACH(50) specified on Form R405-2020-Energy Ca	WILE STORY OF THE PART OF THE
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/ Testing shall be conducted by either individuals as defined in Section 553 489.105(3)(f), (g), or (i) or an approved third party. A written report of the provided to theode official. Testing shall be performed at any time after critical testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dammeasures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ver 5. Heating and cooling systems, if installed at the time of the test, shall be	RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). 993(5) or (7/F/orida Statuesor individuals licensed as set forth in Section results of the test shall be signed by the party conducting the test and eation of all penetrations of the intended meather stripping or other infiltration in the period of the intended weatherstripping or other infiltration in the period of the intended beyond intended infiltration control intilators shall be closed and sealed.
6. Supply and return registers, if installed at the time of the test, shall be fi	ully open.
Testing Company	
Company Name: I hereby verify that the above Air Leakage results are in accord Energy Conservation requirements according to the compliance	ance with the 2020 7th Edition Florida Building Code
Signature of Tester:	Date of Test:
Printed Name of Tester:	
License/Certification #:	Issuing Authority: