FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Builder Name: Sparks Construction, Inc. Project Name: Hubbart In-Law Suite Permit Office: Columbia County Street: Crnr of SW CR 18 & Tustenuggee Ave Permit Number: City, State, Zip: Lake City, FL, 32024 Jurisdiction: Jesse Hubbart Owner: Columbia (Florida Climate Zone 2) FL. Gainesville County: Design Location: 10. Wall Types(917.3 sqft.) Insulation Area 1. New construction or existing New (From Plans) a, Frame - Wood, Exterior R=13.0 917.33 ft² 2. Single family or multiple family Detached b. N/A R= ft2 3. Number of units, if multiple family 1 c. N/A ft² R= d. N/A ft² R= 4. Number of Bedrooms 2 Insulation 11. Ceiling Types (832.7 sqft.) Area No 5. Is this a worst case? a. Under Attic (Vented) R=38.0 832.65 ft² R= ft2 793 b N/A 6. Conditioned floor area above grade (ft2) ft² c. N/A R= Conditionedfloor area below grade (ft2) ft2 12. Ducts 7. Windows (97.7 sqft.) Description Area 198.25 a. Sup: Attic, Ret: Attic, AH: Attic 97.67 ft² a. U-Factor: Dbl, U=0.36 SHGC=0.25 SHGC: ft² kBtu/hr Efficiency 13. Cooling systems b. U-Factor: N/A a. Central Unit 10.8 SEER:14.00 SHGC: N/A ft2 c. U-Factor: SHGC: kBtu/hr Efficiency 14. Heating systems Area Weighted Average Overhang Depth: 1.500 ft. a. Electric Heat Pump 14.2 HSPF:8.20 0.250 Area Weighted Average SHGC: 8. Skylights Area c. U-Factor:(AVG) N/A 15. Hot water systems N/A SHGC(AVG): Cap: 40 gallons a. Electric 9. FloorTypes (793.0 sqft.) Insulation Area EF: 0.920 a. Slab-On-Grade Edge Insulation R=0.0 793.00 ft² b. Conservationfeatures None R= ft2 b. N/A ft² CV. Pstat c. N/A R= 16. Credits Total Proposed Modified Loads: 25.90 Glass/Floor Area: 0.123 Total Baseline Loads: 26.35 I hereby certify that the plans and specifications covered by Review of the plans and specifications covered by this this calculation are in compliance with the Florida Energy 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. BUILDING OFFICIAL: OWNER/AGENT:

- 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:

DATE:

				PROJ	IECT								
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Hubbart In-Law S User Jesse Hubbart 1 Sparks Construct Columbia County Detached New (From Plans	on, Inc.	Bedrooms Conditions Total Stori Worst Cas Rotate And Cross Ver Whole Hol	ed Area: es: se: gle: tilation:	2 793 1 No 0 Yes No			Lot# Block PlatB Stree Coun	t:	sion: C C c: L	Crnr of SW Columbia ake City, L, 320	CR 18 8	& Tu
				CLIM	ATE								
	gn Location Gainesville	TMY Site					nt Desigr Vinter 5	n Temp Summ 75	er Deg	eating ree Day 305.5	Desig s Moistu 51	re Ra	Temp ange edium
				BLO									
Number	Name	Area	Volume										
1	Block1	793	6344										
				SPA	CES								
Number	Name	Area	Volume	Kitchen	Occupan	ts Be	drooms	Ir	nfil ID	Finishe	d Cod	oled	Heate
1	Main	793	6344	Yes	4		2	1		Yes	Yes	5	Yes
				FLO	ORS								
· ·	Floor Type o-On-Grade Edge Ins	Space	e Per Main 114.6	meter 67 ft	R-Value 0		rea 3 ft²						arpet 1
				RO	OF								
√ #	Туре	Materials	Roof Area	Gal Are				Solar Josor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitcl (deg
1	Hip	Composition shing	gles 887 ft²	0 ff	t² Me	dium	Υ (0.96	No	0.9	No	0	26.5
				AT1	ГІС								
√ #	Туре	Vent	ilation	Vent Ra	atio (1 in)	Are		RBS	IR	CC			
1	Full attic		nted		00	793 f	t²	Υ	١				
				CEIL	ING								
V #	Ceiling Type		Space	R-Val	lue I	ns Type	Are	а	Fran	ning Fra	c Trus	з Туре	
1	Under Attic (Vente	ed)	Main	38	Do	uble Batt	832.6	65 ft²		0.11	W	ood	

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS							
V #	Ornt	Adja To		Туре	Space	Cavity e R-Value	Wic Ft	lth In	Height Ft In	Area	Sheathin	g Framing Fraction	Solar Absor.	Below Grade%
1	S	Exteri		me - Wood	Main		34		8	272.0 ft²		0.23	0.75	0
2	Е	Exteri	or Fra	me - Wood	Main	13	23	4	8	186.7 ft²		0.23	0.75	0
3	N	Exteri	or Fra	me - Wood	Main	13	34		8	272.0 ft ²		0.23	0.75	0
4	W	Exteri	or Fra	me - Wood	Main	13	23	4	8	186.7 ft²		0.23	0.75	0
						DO	ORS							
\checkmark	#	Or	nt	Door Type	Space			Storms	U-Va		Width t In	Height Ft	t In	Area
	1	S	3	Insulated	Main			None	.46	3 ;	3	6	8	20 ft²
	2	١	I	Insulated	Main			None	.46	;	3	6	8	20 ft²
					Orientations	WINI hown is the e	OOWS		lorientation	1				
/		Wa	I		0.101114110110			Торосос			erhang			
\vee	#	Ornt ID	 Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	ide	Screenin
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft ²	1 ft 6 in	0 ft 6 in	None	9	None
	2	E 2	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft ²	1 ft 6 in	0 ft 6 in	None	Э	None
	3	E 2	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	0 ft 6 in	None	Э	None
	4	N 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	1 ft 6 in	0 ft 6 in	None	Э	None
	5	N 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	0 ft 6 in	None	Э	None
	6	N 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	2.7 ft²	1 ft 6 in	0 ft 6 in	None	Э	None
						INFILT	RATIC	N						
# :	Scope		Method		SLA	CFM 50	ELA	E	ΞqLA	ACH	AC	H 50		
1 Wh	olehous	e Pro	posed AC	CH(50) .0	000254	528.7	29	5	54.45	.098		5		
						HEATING	SYS	TEM						
$\sqrt{}$	#	System	Туре		Subtype	Speed		Efficiend	су	Capacity		E	Block	Ducts
	1	Electric	Heat Pur	mp/	None	Single		HSPF:8	.2 14	1.22 kBtu/h	r		1	sys#1
						COOLING	SYS	TEM						
$\sqrt{}$	#	System	Туре		Subtype	Subtype		Efficiency	у Сара	city A	Air Flow	SHR E	Block	Ducts
	1	Central	Unit/		None	Single		SEER: 14	4 10.8 kE	Btu/hr 3	30 cfm	0.7	1	sys#1
					ŀ	TAW TO	ER SY	STEM						
$\sqrt{}$	#	Syste	m Type	SubType	Location	EF	Ca	р	Use	SetP	nt	Conse	rvation	
,	1	Electi	ric	None	Main	0.92	40 g	ıal	40 gal	120 de	eu -	No	ne	

INPUT SUMMARY CHECKLIST REPORT

SOLAR HOT WATER SYSTEM														
\vee	FSEC Cert #	CompanyN	lame		System	Model#	Co	ollector Model		ollector Area	Stor Volu	•	FEF	
	None	None								ft²				
						DUCTS								
\checkmark	#		pply R-Value Area	F Locatio	Return on Area	Leaka	деТуре	Air Handler	CFM 25 TOT	CFM25	5 QN	RLF	HV/ Heat	AC # Cool
	1	Attic	6 198.25	f Attic	39.65 ft ²	Default	Leakage	Attic	(Default)	c(Defaul	t) c		1	1
					TEMI	PERATUR	RES							
Programa	ProgramableThermostat: Y Ceiling Fans:													
Cooling Heating Venting	[] Jan [X] Jar [] Jan	ı [X1 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	S [x	Oct Oct Oct	[] Nov [X] Nov [X] Nov	$[\times]$	Dec Dec Dec
Thermostar Schedule T		e: HERS 20	006 Reference 1	2 3	4	5	H(ours 7	8	9	10	11	1	2
Cooling (W	D)	AM PM	78 80	78 78 80 78	3 78 3 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	30 '8
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	7	'8 '8
Heating (W	D)	AM PM	66 68	66 66 68 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	58 56
Heating (W	EH)	AM PM	66 68	66 66 68 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 66
	MASS													
Ма	ss Type			Area		Thickness		Furniture Frac	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* = 98

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

Crnr of SW CR 18 & Tustenuggee Ave, Lake City, FL, 32024

New construction or existing			New (Fro	m Plans)	Wall Type and Insulation	Insulation	Area	
2.	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	917.33 ft²		
3.	Number of units, if multi	1		b. N/A c. N/A	R= R=	ft² ft²		
4.	Number of Bedrooms	2		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	Area 832.65 ft²		
6.	Conditioned floor area (ft²)		793		b. N/A	R=	ft²	
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 97.67 ft²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Attic	R=	ft² R ft² 6 198.25	
	b. U-Factor: SHGC:	N/A		ft²	13. Cooling systems	kBtu/hr	Efficiency	
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	10.8	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:			1.500 ft. 0.250	a. Electric Heat Pump	14.2 HSPF:8.		
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Са	p: 40 gallons EF: 0.92	
	Floor Types a. Slab-On-Grade Edge Insulation		Insulation R=0.0	Area 793.00 ft²	b. Conservationfeatures None			
	b. N/A c. N/A	ye maulation	R=0.0 R= R=	ft ²	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: Sparks Construction, Inc. Community:	Lot: NA						
Address: Crnr of SW CR 18 & Tustenuggee Ave							
City: Lake City State	e: FL Zip: 32024						
Air Leakage Test Results Passing results must meet	t either the Performance, Prescriptive, or ERI Method						
changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim	all be tested and verified as having an air leakage rate of not exceeding or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.						
x 60 ÷ 6344 = 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)orida Statuesor 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 theode official. Testing shall be performed at any time after creation of all penetrations of the intended weatherstripping or other infiltration control measures. 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 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:						