FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Jones_FreemanRes Street: 587 Pinehurst Drive City, State, Zip: Lake City, FL, 32055 Owner: Jones / Freeman	Builder Name: Sparks Construction, Inc. Permit Office: Columbia County Permit Number: Jurisdiction:
Design Location: FL, Gainesville	County: Columbia (Florida Climate 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 (418.0 sqft.) Description 7. Windows (418.0 sqft.) Description 8. U-Factor: Dbl, U=0.36 8. SHGC: SHGC=0.25 8. U-Factor: N/A 8HGC: C. U-Factor: N/A 8HGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights C. U-Factor:(AVG) 8. Skylights C. U-Factor:(AVG) 8. Floor Types (2900.0 sqft.) 9. Floor Types (2900.0 sqft.) 1. Insulation Area 1. Insulation	10. Wall Types(2800.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (3045.0 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. Propane b. Conservation features None 16. Credits Insulation R=13.0 700.00 ft² R=16? R=16? Insulation Area R=38.0 30.00 ft² Insulation R=38.0 30.00 ft² Insulation R=16? R=16? Insulation R=28.0 30.00 ft² Insulation R=28.0 30.00 ft² Insulation R=38.0 30.00 ft² Insulation R=28.0 30.00 ft² Insulation R=28.0 30.00 ft² Insulation R=16? R=16? Insulation R=28.0 30.00 ft² Insulation R=28.0 30.00 ft² Insulation R=38.0 30.00 ft² Insulation R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² Insulation Area R=13.0 700.00 ft² R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² R=10.00 ft² Insulation Area R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² R=38.0 30.00 ft² Insulation Area R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² R=38.0 30.00 ft² Insulation Area R=13.0 700.00 ft² R=38.0 30.00 ft² R=16? R=16? R=18.0 ft² R=18.0 solution R=38.0 solution Area R=18.0 solution R=38.0 solution R=18.0 solution R=38.0 solution R=38.
Glass/Floor Area: 0.144 Total Proposed Modifie 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: 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:

- 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

PROJECT

						ricos	LOI									
Title: Building Owner N # of Units Builder N Permit O Jurisdicti Family Ty New/Exis Commen	ame: s: lame: ffice: on: ype: sting:	Jones_Freema User Jones / Freema 1 Sparks Constr Columbia Cour Detached New (From Pla	uction, Inc.		Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	es: e: le: ilation:	4 2900 1 No 0 Yes No			Lot # Block PlatE Stree Cour	k/Subdivi: Book: et:	sion: 5 C o: L	87 Pin columb ake Cit L ,	ehurst ia	Drive	
						CLIM	ATE									
\checkmark	Desig	gn Location	TMY	Site			Design T 7.5 %	emp 2.5 %	Int De Winte	esign Tem er Summ	70	leating ree Day		esign isture		Tem ange
	FL, (Gainesville	FL_GAINES	VILLE_RE	EGI		32	92	70	75	1	305.5	3	51	М	edium
	2.					BLO	CKS									
Numbe	er	Name	Are	a	Volume											
1		Block1	29	900	29000											
						SPA	CES									
Numbe	r	Name	Area	Vo	olume K	litchen	Occup	ants	Bedroo	ms l	nfil ID	Finished	d	Coole	d	Heat
1	1	Main	2900	29	000	Yes		8	4	1		Yes		Yes		Yes
						FLOC	DRS									
$\sqrt{}$	# F	Floor Type	S	pace	Perin	neter	R-Val	ie	Area				Tile	Woo	d Ca	rpet
	1 Slab	-On-Grade Edge	Insulation	Main	271.66	67 ft	0		2900 ft²				0	0		1
						ROO	OF									
✓	# 7	Гуре	Materi	als	Roof Area	Gab Are		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	En Test		Deck Insul.	Pito (de
	1 (Gable or shed	Composition	shingles	3485 ft²	966	ft² N	1edium	Y	0.96	No	0.9	N	lo	0	33.
		2				ATT	IC .						HILL			
/	#	Туре		Ventilation	n	Vent Ra	tio (1 in)		Area	RBS	IRO	cc				
	1	Full attic		Vented		30		2	900 ft²	Υ		١			77.7	
						CEILI	NG									
$\sqrt{}$	#	Ceiling Type		5	Space	R-Valu	ie	Ins Ty	pe	Area	Fran	ning Frac	: Т	russ T	уре	
	1	Under Attic (Ve	ented)		Main	38		ouble B	att 3	3045 ft ²		0.11		Wood	d	

INPUT SUMMARY CHECKLIST REPORT

						WA	ALLS							
V #	Ornt	Adjace To		Туре	Space	Cavity R-Value	Wid Ft	lth In	Height Ft In	Area	Sheathing R-Value		Solar Absor.	Below Grade%
1	S	Exterior		me - Wood	Main	13	12		10	120.0 ft ²	1.00	0.23	0.75	0
2	S	Exterior	Fra	me - Wood	Main	13	31	4	10	313.3 ft ²		0.23	0.75	0
_ 3	S	Exterior	Fra	me - Wood	Main	13	7	8	10	76.7 ft ²		0.23	0.75	0
_ 4	E	Garage	Fra	me - Wood	Main	13	23	4	20	466.7 ft ²		0.23	0.75	0
5	S	Garage	Fra	me - Wood	Main	13	23	4	10	233.3 ft ²		0.23	0.75	0
_ 6	Ε	Exterior	Fra	me - Wood	Main	13	31		10	310.0 ft ²		0.23	0.75	0
7	Ν	Exterior	Fra	me - Wood	Main	13	26	4	10	263.3 ft ²		0.23	0.75	0
8	W	Exterior	Fra	me - Wood	Main	13	10		10	100.0 ft ²		0.23	0.75	0
9	Ν	Exterior	Fra	me - Wood	Main	13	36		10	360.0 ft ²		0.23	0.75	0
10	N	Exterior	Fra	me - Wood	Main	13	15		10	150.0 ft ²		0.23	0.75	0
_11	W	Exterior	Fra	me - Wood	Main	13	40	8	10	406.7 ft ²		0.23	0.75	0
						DO	ors							
\checkmark	#	Ornt		Door Type	Space			Storms	U-Valu	ie F	Width t In	Height Ft I		Area
	1	S	5	Insulated	Main			None	.46	3		8		24 ft²
				0	rientationsho		DOWS		orientation.					
/		Wall					***				rhang			
V	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Shace	de :	Screenin
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	18.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	2	S 2	Vinyl	Low-E Double	Yes	0.36	0.25	N	72.0 ft ²	9 ft 6 in	1 ft 0 in	None		None
	3	S 2	TIM	Low-E Double	Yes	0.36	0.25	Ν	48.0 ft ²	9 ft 6 in	1 ft 0 in	None		None
	4	S 3	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	12.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	5	E 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	6	E 6	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	6.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	7	E 6	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	16.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	8	N 7	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	24.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	9	W 8	TIM	Low-E Double	Yes	0.36	0.25	Ν	48.0 ft ²	6 ft 6 in	1 ft 0 in	None		None
	10	N 9	TIM	Low-E Double	Yes	0.36	0.25	Ν	144.0 ft ²	11 ft 6 in	1 ft 0 in	None		None
	11	N 10	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	18.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	12	W 11	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
						GAF	RAGE							
/	#	Floo	r Area	Ceiling	Area	Exposed V	Vall Peri	meter	Avg. Wa	all Height	Expose	d Wall Insu	lation	

INPUT SUMMARY CHECKLIST REPORT

					INFI	LTRAT	TION						
#	Scope	Method	ř	SLA	CFM 50	EL	A E	EqLA	ACH	ACH	50		
1 '	Wholehouse	Proposed A	CH(50)	.000317	2416.7	132.	59 24	48.91	.1071	5			
					HEATI	NG SY	STEM						
\vee	#	System Type		Subtype	Spee	d	Efficienc	су С	apacity		Block	C D	ucts
	_ 1	Electric Heat Pu	ımp/	None	Singl	е	HSPF:8.	.2 43.3	37 kBtu/hr		1	s	ys#1
					COOL	NG SY	STEM						
\vee	#	System Type		Subtype	Subt	уре	Efficiency	/ Capacit	y Air	Flow SH	IR Block	D	ucts
	_ 1	Central Unit/		None	Singl	е	SEER: 14	31.75 kBt	u/hr 960	cfm 0.	7 1	s	ys#1
					HOT WA	TER S	SYSTEM						
	#	System Type	SubType	Location	EF		Сар	Use	SetPnt		Conservati	on	
	_ 1	Propane	None	Garage	0.59	5	0 gal	40 gal	120 deg		None		
				sou	AR HOT	WATE	R SYST	EM					
\checkmark	FSEC Cert #		ame		System M	lodel#	С	ollector Mod		ollector Area	Storage Volume	FEF	
	_ None	None								ft²			
					1	DUCTS	;						
	#	Sup Location R	ply -Value Area	Re Location	turn Area	Leal	kageType	Air Handle	CFM 25 er TOT	CFM25 OUT	QN RLF	HV Heat	/AC#
	_ 1	Attic	6 725 ft²	Attic	145 ft²	Defa	ult Leakage	Garage	(Default)	c(Default) c		1	1
					TEMP	ERAT	URES						
Prog	gramableThe	rmostat: Y		С	eiling Fans:								
Cool Heat Vent	ing [X] Ja	an []Feb an [X]Feb an []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		t [] Nov t X] Nov t X] Nov	×	Dec Dec Dec

FORM R405-2020	INPUT SUMMARY CHECKLIST REPORT
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Oft2

Thermostat Schedule:	HERS 200	6 Referen	ice				H	Hours					
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
					I	MASS							
Mass Type			Ar	ea	7	Thickness		Furniture F	raction	5	Space		

0 ft

0.3

Main

Default(8 lbs/sq.ft.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 86

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

587 Pinehurst Drive, Lake City, FL, 32055

2. 3.	New construction or exi Single family or multiple Number of units, if mult Number of Bedrooms	family	New (Fr Detache 1 4	om Plans) ed	10. Wall Type and Insulation a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A	Insulation R=13.0 R=13.0 R= R=	2100.00 ft ² 700.00 ft ² ft ²
1000	Is this a worst case? Conditioned floor area (f	ft²)	No 2900		 Ceiling Type and insulation level Under Attic (Vented) N/A 	Insulation R=38.0 R=	3045.00 ft ² ft ²
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 418.00 ft²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage	R=	ft² R ft 6 72
	b. U-Factor: SHGC: c. U-Factor:	N/A N/A		ft² ft²	13. Cooling systems a. Central Unit	kBtu/hr 31.8	Efficiency SEER:14.00
	SHGC: d. U-Factor: SHGC: Area Weighted Average Area Weighted Average			ft² 7.816 ft. 0.250	14. Heating systems a. Electric Heat Pump	kBtu/hr 43.4	Efficiency HSPF:8.20
,	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	Hot water systems a. Propane Conservation features	Ca	p: 50 gallon: EF: 0.59
	 Floor Types a. Slab-On-Grade Edg b. N/A c. N/A 	ge Insulation	Insulation R=0.0 R= R=	Area 2900.00 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.

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: 587 Pinehurst Drive	1	
City: Lake City	State: FL	Zip: 32055
Air Leakage Test Results Pass	ing results must meet either the Pe	erformance, Prescriptive, or ERI Method
changes per hour at a pressure of 0.2 inch PERFORMANCE or ERI METHOD-The but the selected ACH(50) value, as shown on Form R	w.g. (50 Pascals) in Climate Zones 1 an	d verified as having an air leakage rate of not exceeding (ERI), section labeled as infiltration, sub-section ACH50.
x 60 ÷ 29000 CFM(50) PASS When ACH(50) is less than 3, Me must be verified by building depart	me ACH(50) echanical Ventilation installation	Method for calculating building volume: Retrieved from architectural plans Code software calculated Field measured and calculated
Testing shall be conducted by either individuals as 489.105(3)(f), (g), or (i) or an approved third party. provided to the official. Testing shall be perform During testing: 1. Exterior windows and doors, fireplace and stove control measures.	defined in Section 553.993(5) or (7F/orio A written report of the results of the test med at any time after creation of all pene doors shall be closed, but not sealed, but back draft and flue dampers shall be clo shall be open. Is and heat recovery ventilators shall be clo time of the test, shall be turned off.	beyond the intended weatherstripping or other infiltration osed, but not sealed beyond intended infiltration control
Testing Company		
Company Name: I hereby verify that the above Air Leakage r Energy Conservation requirements according	esults are in accordance with the 2 ng to the compliance method selec	Phone: 2020 7th Edition Florida Building Code sted above.
Signature of Tester:		Date of Test:
Printed Name of Tester:		
License/Certification #:	Issuing A	authority: