FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Builder Name: PFS Solutions Project Name: Lot 5 Amelia Landing Permit Office: Columbia County Street: Lake City, FL, 32025 Permit Number: City, State, Zip: Owner: Jurisdiction: Columbia (Florida Climate Zone 2) FL, Gainesville County: Design Location: 1. New construction or existing New (From Plans) 10. Wall Types(2428.3 sqft.) Insulation Area a. Frame - Wood, Exterior 2030.80 ft² R=13.0 Detached 2. Single family or multiple family b. Frame - Wood, Adjacent R=13.0 397.50 ft² 3. Number of units, if multiple family c. N/A R= d. N/A R= ft2 4. Number of Bedrooms 3 Insulation 11. Ceiling Types (2207.0 sqft.) Area 5. Is this a worst case? No a. Under Attic (Vented) R=38.0 2207.00 ft² 2087 R= ft2 6. Conditioned floor area above grade (ft2) ft² R≡ c. N/A Conditioned floor area below grade (ft²) 0 12. Ducts Description 7. Windows (307.6 sqft.) Area a. Sup: Attic, Ret: Attic, AH: Garage 521.75 Dbl. U=0.36 307.58 ft² a. U-Factor: SHGC=0.25 SHGC: 13. Cooling systems kBtu/hr Efficiency b. U-Factor: N/A ft² 31.4 SEER:14.00 a. Central Unit SHGC: c. U-Factor: N/A ft² SHGC: 14. Heating systems kBtu/hr Efficiency Area Weighted Average Overhang Depth: 4.365 ft. a. Electric Heat Pump 39.3 HSPF:8.20 Area Weighted Average SHGC: 0.250 Area 8. Skylights c. U-Factor:(AVG) N/A 15. Hot water systems SHGC(AVG): N/A Cap: 50 gallons a. Electric 9. FloorTypes (2087.0 sqft.) Insulation Area EF: 0.920 b. Conservationfeatures a. Slab-On-Grade Edge Insulation R=0.0 1775.00 ft² None b. Floor over Garage R=19.0 312.00 ft² CV. Pstat c. N/A 16. Credits Total Proposed Modified Loads: 55.34 **PASS** Glass/Floor Area: 0.147 Total Baseline Loads: 57.63 Review of the plans and I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy specifications covered by this Code. calculation indicates compliance with the Florida Energy Code. Before construction is completed PREPARED BY: this building will be inspected for DATE: 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: DATE: 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).

				PROJ	ECT									
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 5 Amelia Landin User N/A 1 PFS Solutions Columbia County Detached New (From Plans)	ng	Bedrooms Conditione Total Storic Worst Cas Rotate And Cross Ven Whole Hou	edArea: es: se: gle: tilation:	3 2087 2 No 0 Yes			Lot # Block/ PlatBo Street Count	:	sion: A	Amelia L Columbi Lake Cit	anding		
				CLIMA	ATE									
	sign Location _, Gainesville F	TMY Site	REGI	97	Design Te 7.5 % 2	mp 2.5 % 92	Int Desiç Winter 70		er Degi	eating ree Day 305.5	/s Mo	esign isture 51	Daily T Ran Med	
	,		_	BLOC										
Nemakan	None	A	Malana	BLOC	, NO									
Number 1	Name Block1	Area 2087	Volume 18471											
				SPAC	CES									
Number	Name	Area	Volume	Kitchen	Occupa	nts	Bedrooms	ln	fil ID	Finishe	ed	Cooled	F	leated
1	1st Floor Bonus Room	1775 312	15975 2496	Yes	6		3	1		Yes Yes		Yes		∕es ∕es
	Bolius Roolli	312	2490	No EL OC	0 NBC		0	1		162		Yes	1	es
. / "				FLOC										
# 1.SI	Floor Type ab-On-Grade Edge Inst	Space ulation 1st F		imeter Per 3 ft	rimeter R-	Value	Area 1775 ft²	Joist	t R-Value	9	Tile 0	Wood 0	Car _l	pet
	oor over Garage	Bonus					312 ft²		19		0	0	1	
				ROC)F									
√ #	Туре	Materials	Roof Area	Gab Are		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	En Test		eck sul.	Pitch (deg)
1	Gable or shed C	omposition shingle	es 2508 ft²	² 390 f	ft² Me	edium	Y	0.96	No	0.9	N	lo	0	33.69
				ATT	IC									
√ #	Туре	Ventila	ation	Vent Ra	tio (1 in)		Area	RBS	IRO	cc				
1	Partial cathedral ce	ili Vent		30	_		087 ft²	Υ	N					

INPUT SUMMARY CHECKLIST REPORT

						CEI	LING							
$\sqrt{}$	#	# Ceiling Type		Space	R-Value		Ins Type		Area	Framing Frac		Truss Typ	е	
	1	1 Under Attic (Vented)		1st Floor	38	}	Double	e Batt	1864 ft²	0.11		Wood		
	2	Unde	r Attic (Ve	ented)	Bonus Roon	n 38	}	Double	e Batt	343 ft²	0.11		Wood	
						WA	LLS							
\/ #	Ornt	Adja To		Type	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing R-Value			Below Grade%
1	E	Exteri		me - Wood	1st Floor	13	16		12	192.0 ft ²	TX-Value	0.23	0.75	0 0
2	S	Exteri	or Fra	me - Wood	1st Floor	13	11	2	9	100.5 ft ²		0.23	0.75	0
3	Е	Exteri	or Fra	me - Wood	1st Floor	13	12	8	9	114.0 ft ²		0.23	0.75	0
4	N	Exteri	or Fra	me - Wood	1st Floor	13	57	4	9	516.0 ft ²		0.23	0.75	0
5	W	Exteri	or Fra	me - Wood	1st Floor	13	29	4	9	264.0 ft ²		0.23	0.75	0
6	S	Exteri	or Fra	me - Wood	1st Floor	13	7		9	63.0 ft ²		0.23	0.75	0
7	W	Exteri	or Fra	me - Wood	1st Floor	13	11	8	9	105.0 ft ²		0.23	0.75	0
8	S	Exteri	or Fra	me - Wood	1st Floor	13	7		9	63.0 ft ²		0.23	0.75	0
9	S	Garag	e Fra	me - Wood	1st Floor	13	17	4	9	156.0 ft ²		0.23	0.75	0
10	Е	Garag	e Fra	me - Wood	1st Floor	13	12		9	108.0 ft ²		0.23	0.75	0
11	S	Garag	e Fra	me - Wood	1st Floor	13	14	10	9	133.5 ft²		0.23	0.75	0
12	Е	Exteri	or Fra	me - Wood	Bonus Roon	n 13	12		8	96.0 ft ²		0.23	0.75	0
13	N	Exteri	or Fra	me - Wood	Bonus Roon	n 13	26	4	8	210.7 ft ²		0.23	0.75	0
14	W	Exteri	or Fra	me - Wood	Bonus Roon	n 13	12		8	96.0 ft ²		0.23	0.75	0
15	S	Exteri	or Fra	me - Wood	Bonus Roon	n 13	26	4	8	210.7 ft ²		0.23	0.75	0
DOORS														
\checkmark	#	Or	nt	Door Type	Space			Storms	U-Va	lue F1	Width	Heigl Ft	nt In	Area
	1	S	3	Insulated	1st Floor			None	.46			6		20 ft²
					S		ows		1					
,		Wa			Orientation show	n is the e	nterea, F	ropose	o orientation		rhang			
\checkmark	#	Ornt ID	rrame	Panes	NFRC	U-Factor	SHGC	Imp) Area		Separation	Int Sh	iade \$	Screening
	1	E 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft ²	7 ft 6 in	1 ft 0 in	Nor		None
	2	E 1	TIM	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	7 ft 6 in	1 ft 0 in	Nor	ne	None
	3	E 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	25.0 ft ²	1 ft 0 in	3 ft 0 in	Nor	ne	None
	4	N 4	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	Nor	ne	None
	5	N 4	Vinyl	Low-E Double	Yes	0.36	0.25	N	3.0 ft ²	1 ft 6 in	1 ft 0 in	Nor		None
	6	N 4	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	1 ft 6 in	1 ft 0 in	Nor	ne	None
	7	N 4	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	1 ft 6 in	1 ft 0 in	Nor		None
		W 5	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 0 in	4 ft 0 in	Nor	ne	None
	8	VV 3												
	8 9	W 5	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	1 ft 0 in	5 ft 0 in	Nor	ne	None
			Vinyl Vinyl	Low-E Double Low-E Double	Yes Yes	0.36 0.36	0.25 0.25	N N	20.0 ft ² 25.0 ft ²	1 ft 0 in 1 ft 0 in	5 ft 0 in 6 ft 0 in	Nor Nor		None
	9	W 5	•										ne	
	9 10	W 5 W 5	Vinyl	Low-E Double	Yes	0.36	0.25	N	25.0 ft ²	1 ft 0 in	6 ft 0 in	Nor	ne ne	None

INPUT SUMMARY CHECKLIST REPORT

					GA	RAGE								
V	/ #	Floor Area	С	eiling Area	Exposed	l Wall Pe	rimeter	Avg. Wall	Height	Exposed	Wall In	sulatio	n	
	1	498.74 ft ²	4	198.74 ft²		56 ft		8 ft			1			
					INFIL	TRATIO	ON							
#	Scope	Method		SLA	CFM 50	ELA	Ed	qLA .	ACH	ACH :	50			
1	Wholehous	e Proposed AC	CH(50)	.000281	1539.3	84.45	158	8.54 .	1346	5				
					HEATIN	G SYS	TEM							
V	/ #	System Type		Subtype	Speed		Efficiency	, Ca	pacity			Block	Dι	ucts
	1	Electric Heat Pur	mp/	None	Single		HSPF:8.2	39.3	kBtu/hr			1	sy	/s#1
					COOLIN	IG SYS	TEM							
V	/ #	System Type		Subtype	Subtyp	е	Efficiency	Capacity	Air F	Flow SH	R	Block	Dι	ucts
	1	Central Unit/		None	Single		SEER: 14	31.45 kBtu/	hr 930	cfm 0.7	7	1	sy	/s#1
					HOT WAT	TER SY	STEM							
V	/ #	System Type	SubType	Location	EF	Ca	ар	Use	SetPnt		Conse	ervatio	n	
	1	Electric	None	Garage	0.92	50 (gal	40 gal	120 deg		No	one		
				SOL	AR HOT V	NATER	RSYSTE	М						
V	FSE Cert		ame		System Mo	del#	Co	ollector Model		ollector Area	Storage Volume		FEF	
	Non	e None								ft²				
					DI	UCTS							<u></u>	
V	/ #	Supp Location R	ply -Value Area	Ret	urn Area	l eaka	geType	Air Handler	CFM 25	CFM25 OUT	QN	RLF	HV/ Heat	AC #
	1	Attic	6 521.751		104.35 f		Leakage	Garage		c(Default) c	Q. 1		1	1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES														
Programa	ableThermo	stat: Y			С	eiling Fans	s :							
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] 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] S [] S [] S	ep ep ep	Oct Oct XOct	[] Nov [X] Nov [X] Nov	Dec XDec Dec
Thermostat	Schedule:	HERS 2006	Reference					Ho	urs					
Schedule T	уре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WI	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	80 78
Cooling (Wi	ΞH)	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
Heating (Wi	D)	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
Heating (W	EH)	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
	MASS													
Ma	ss Type			Area			Thickness	F	- urniture Fra	ction		Space		
Det	fault(8 lbs/sc	ı.ft.		0 ft²			0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

, Lake City, FL, 32025

1.	New construction or existing		New (Fr	om Plans)	Wall Type and Insulation	Insulation	Area		
2.	Single family or multiple t	Single family or multiple family		d	a. Frame - Wood, Exterior	R=13.0	2030.80 ft ²		
3.	Number of units, if multip	ole family	1		b. Frame - Wood, Adjacentc. N/A	R=13.0 R=	397.50 ft ² ft ²		
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	Area 2207.00 ft²		
6.	Conditioned floor area (ft	2)	2087		b. N/A	R=	ft²		
7.	Windows**	Description		Area	c. N/A 12. Ducts, location & insulation level	R=	ft² R ft²		
	a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		307.58 ft²	a. Sup: Attic, Ret: Attic, AH: Garage		6 521.75		
	b. U-Factor:	N/A		ft²					
	SHGC:				13. Cooling systems	kBtu/hr	Efficiency		
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	31.4	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:			4.365 ft. 0.250	a. Electric Heat Pump	39.3	HSPF:8.20		
	8. Skylights a. U-Factor(AVG):	Description N/A		Area ft²	15. Hot water systems a. Electric	Ca	ap: 50 gallons EF: 0.92		
	SHGC(AVG):	N/A			b. Conservationfeatures				
	9. Floor Types	Floor Types		Insulation Area			None		
	a. Slab-On-Grade Edgb. Floor over Garage	e Insulation	R=0.0 R=19.0	1775.00 ft ² 312.00 ft ²	Credits (Performance method)		CV, Pstat		
	c. N/A		R=	ft²					

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: PFS Solutions Community:	Lot: 5								
Address:									
City: Lake City State	e: 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									
PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 5.000									
x 60 ÷ 18471 = 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 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 the code official. Testing shall be performed at any time after creation of all penetrations of the uniding 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. 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 turned off. 6. 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:								