FORM R405-2020



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Pam Seely Street: 343 SW Federal Court City, State, Zip: Ft White , FL , 32038 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Clima	ate 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) Conditioned floor area below grade (ft²) 7. Windows (112.0 sqft.) Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights c. U-Factor:(AVG) SHGC(AVG): N/A Mew (From Plans) Detached 1 ft² SHGC: Area No 6. Conditioned floor area above grade (ft²) 960 Area 112.00 ft² ft² SHGC: 5.429 ft. 0.250 Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A	10. Wall Types(1380.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types (480.0 sqft.) a. Roof Deck (Unvented) b. N/A c. N/A 12. Ducts 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump	Insulation Area R=13.0 1380.00 ft² R= ft² R= ft² Insulation Area R=30.0 480.00 ft² R= ft² R ft² R ft²
9. Floor Types (960.0 sqft.) Insulation Area a. Raised Floor R=19.0 480.00 ft² b. Floor Over Other Space R=19.0 480.00 ft² c. N/A R= ft²	a. Electric b. Conservationfeatures None 16. Credits	Cap: 40 gallons EF: 0.920 CV, Pstat
Glass/Floor Area: 0.117 Total Proposed Modified 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: 4 / 19 / 2022 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:	COD WE TRUS

- 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 4111 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2)
- Proposed Qn of NAN exceeds the performance method default limit of 0.08 and therefore does not require duct testing. R405

4/19/2022 3:40 PM

EnergyGauge®USA 7.0.00 - FlaRes2020 FBC 7th Edition (2020) Compliant Software

Page 1 of 4

				PRO	JECT								
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Pam Seely User 1 Columbia County Detached New (From Plans)		Total S Worst Rotate Cross	tioned Area: Stories:	2 960 2 No 0 Yes			Lot # Block/S PlatBoo Street: County		ion: 34 Co	3 SW Fed lumbia White ,	eralCo	urt
				CLII	MATE								
5.00 E	gn Location	TMY Site	DEGL		Design 97.5 %	2.5 %	Winter	gn Temp Summer	Degr	eating ee Days	Design Moisture	e Ra	/ Tem ange
FL,	Gainesville F	L_GAINESVILLE	REGI	PI C	32 OCKS	92	70	75	13	305.5	51	M	edium
Number	Name	Area	Volu		JUNG								
1	Block1	960	7.77.5	00									
- 20.		178877775	21/20		ACES					-			
Number	Name	Area	Volume	Kitchen	Occu	pants	Bedrooms	Infi	ID F	inished	Cool	ed	Heat
1	1st Floor	480	3840	Yes		2	0	1	١	es/	Yes		Yes
2	2nd Floor	480	3360	No		3	2	1	١	es/es	Yes		Yes
				FLO	ORS								
√ #	Floor Type	Space		Perimeter F	Perimeter	R-Value	Area	Joist F	R-Value	Т	ile Wo	od Ca	rpet
1 Rais	ed Floor	1st F	loor				480 ft ²	1	19		0 0		1
2 Floo	r Over Other Space	2nd F	loor				480 ft²	1	19		0 0	į e	1
				RC	OF								
√ # -	Гуре	Materials			able rea	Roof Color	Rad Barr	Solar Absor. T	SA ested	Emitt		Deck Insul.	Pito (de
	Gable or shed	Metal	679		Oft² I	Medium	N	0.96	No	0.9		30	45

Type

Full attic

Vent Ratio (1 in)

0

RBS

Ν

IRCC

Ν

Area

480 ft²

Ventilation

Unvented

FORM	R405-2020
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INPUT SUMMARY CHECKLIST REPORT

						CEI	LING							
$\sqrt{}$	#	Ceiling	Туре		Space	R-V	alue	Ins T	уре	Area	Framing	Frac 1	Truss Typ	е
	. 1	Under	Attic (Un	ivented)	2nd Floor	38	3	Double	Batt	480 ft ²	0.11		Wood	
						WA	ALLS							
V #	Ornt	Adjace		Туре	Space	Cavity R-Value	Wid		Height	A	Sheathing	Framing	Solar	Belo
1	S	Exterior		me - Wood	1st Floor	R-value	Ft 30	_InF	Ftln 3	Area 240.0 ft ²	R-Value	0.23	— Absor. 0.75	Grade
_ 2	Е	Exterior	Fran	me - Wood	1st Floor	13	16	8	3	128.0 ft²		0.23	0.75	
3	N	Exterior	Fran	me - Wood	1st Floor	13	30	8	3	240.0 ft ²		0.23	0.75	
4	W	Exterior	Fran	me - Wood	1st Floor	13	16	8		128.0 ft ²		0.23	0.75	9
5	S	Exterior	Fran	me - Wood	2nd Floor	13	30	7	7	210.0 ft ²		0.23	0.75	
6	E	Exterior	Fran	me - Wood	2nd Floor	13	16	7	7	112.0 ft²		0.23	0.75	3
7	N	Exterior	Fran	me - Wood	2nd Floor	13	30	7	7	210.0 ft ²		0.23	0.75	
8	W	Exterior	Fran	me - Wood	2nd Floor	13	16	7	,	112.0 ft²		0.23	0.75	
						DO	ors							
$\sqrt{}$	#	Ornt		Door Type	Space			Storms	U-Valı	Je F	Width t In	Heigh Ft	it In	Area
	1	S		Insulated	1st Floor			None	.46			6		20 ft²
./		Wall			Orientation show	wn is the er		roposed o	orientation	Ove	rhang			
V	(1)	Ornt ID	Frame	Panes	NFRC	U-Factor		Imp	Area	Depth	Separation	Int Sha	ade S	Screeni
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft ²	9 ft 6 in	0 ft 6 in	Non	е	None
	2	S 1	Metal	Low-E Double	V						O A C in		_	None
	3	E 2			Yes	0.36	0.25	N	40.0 ft ²	9 ft 6 in	0 ft 6 in	Non	е	IVOITE
_			Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	0 ft 6 in	Non		
_	4	N 3	Vinyl	Low-E Double Low-E Double		0.36 0.36	0.25 0.25		6.0 ft² 9.0 ft²				е	None
	4 5	N 3 E 6	Vinyl Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	0 ft 6 in	None	e e	None None
_	4 5 6	N 3 E 6 W 8	Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes	0.36 0.36	0.25 0.25	N N	6.0 ft² 9.0 ft²	1 ft 6 in 1 ft 0 in	0 ft 6 in 7 ft 0 in	None	e e e	None None
	4 5 6	N 3 E 6	Vinyl Vinyl	Low-E Double Low-E Double Low-E Double	Yes Yes Yes	0.36 0.36 0.36	0.25 0.25 0.25	N N N	6.0 ft ² 9.0 ft ² 15.0 ft ²	1 ft 6 in 1 ft 0 in 1 ft 0 in	0 ft 6 in 7 ft 0 in 2 ft 0 in	None None	e e e	None None None
_	4 5 6	N 3 E 6 W 8	Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes	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 N N N N N N N N N N N	6.0 ft ² 9.0 ft ² 15.0 ft ² 12.0 ft ²	1 ft 6 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	0 ft 6 in 7 ft 0 in 2 ft 0 in 2 ft 0 in	None None None	e e e	None None None
	4 5 6	N 3 E 6 W 8 W 4	Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes	0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25	N N N N	6.0 ft ² 9.0 ft ² 15.0 ft ² 12.0 ft ²	1 ft 6 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	0 ft 6 in 7 ft 0 in 2 ft 0 in 2 ft 0 in	None None None None	e e e	None None None
	4 5 6 7	N 3 E 6 W 8 W 4	Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes Yes Yes	0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25 0.25	N N N N	6.0 ft ² 9.0 ft ² 15.0 ft ² 12.0 ft ²	1 ft 6 in 1 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	0 ft 6 in 7 ft 0 in 2 ft 0 in 2 ft 0 in 8 ft 0 in	None None None None	e e e	None None None
	4 5 6 7 Scope	N 3 E 6 W 8 W 4	Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes Yes Yes O0238	0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25 ELA 32.92	N N N N Ec	6.0 ft ² 9.0 ft ² 15.0 ft ² 12.0 ft ²	1 ft 6 in 1 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	0 ft 6 in 7 ft 0 in 2 ft 0 in 2 ft 0 in 8 ft 0 in	None None None None	e e e	None None None
	4 5 6 7 Scope	N 3 E 6 W 8 W 4	Vinyl Vinyl Vinyl Vinyl Method	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes Yes Yes O0238	0.36 0.36 0.36 0.36 0.36 INFILTI	0.25 0.25 0.25 0.25 0.25 0.25 ELA 32.92	N N N N Ec	6.0 ft ² 9.0 ft ² 15.0 ft ² 12.0 ft ² 12.0 ft ²	1 ft 6 in 1 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	0 ft 6 in 7 ft 0 in 2 ft 0 in 2 ft 0 in 8 ft 0 in	None None None Sone	e e e	None None None None

ORM R	405-202	20	INP	UT SU	MMAF	RYCH	ECKL	IST RE	PORT					
					C	COOLIN	IG SYS	TEM						
\vee	# 5	System Type		Subtype	Э	Subtyp	е	Efficiency	Capacity	Air	Flow	SHR	Block	Ducts
	1 (Central Unit/		None		Single		SEER: 14	10.01 kBtu/	hr 300	cfm	0.7	1	Ductless
					НС	TAW TC	TER SY	STEM						
\vee	#	System Type	SubType	Locat	ion	EF	Ca	ıp	Use	SetPnt		С	onservatio	n
	1	Electric	None	1st FI	oor	0.92	40 g	jal	40 gal	120 deg			None	
				,	SOLAF	RHOT	VATER	SYSTE	EM					
\checkmark	FSEC Cert #	Company Na	ıme		S	ystem Mo	del#	Co	ollector Model		ollecto Area		rage ume	FEF
	None	None		11							ft²			
					93	TEMPE	RATU	RES						
Program	nableThe	rmostat: Y			Ceilin	g Fans:								
Cooling Heating Venting	X Ja X Ja	in [] Feb in [X] Feb in [] Feb	[] Mar X] Mar X] Mar	Apr Apr X Apr		May [> May [May [() Jun Jun Jun	[X] Jul Jul Jul	[X] Aug [] Aug [] Aug	[X] Se [] Se [] Se	p p	Oct Oct X Oct	Nov X Nov X Nov	Dec Dec Dec
Thermosta		le: HERS 200	6 Reference					Н	ours				3000000	
Schedule 1	Гуре		1	2	3	4	5	6	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	80 78
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	78 78	78 78
Heating (V	/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
						М	ASS							
Ma	ass Type			Area		Th	ickness		Furniture Frac	ction		Space		
De	fault(8 lb	s/sq.ft.		0 ft²			0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 85

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

343 SW Federal Court, Ft White, FL, 32038

1.	New construction or ex	isting	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation	Are	a	
2.	Single family or multiple	efamily	Detached		a. Frame - Wood, Exterior	R=13.0	1380.0	Oft2	
	Number of units, if mult	20 NY 10 M	4		b. N/A	R=		ft²	
	59 (10 5 0 4 1 7 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				c. N/A d. N/A	R=		ft²	
4.	Number of Bedrooms		2		THE RESIDENCE	R=		ft²	
5.	5. Is this a worst case?		No		 Ceiling Type and insulation level a. Roof Deck (Unvented) 	Insulation R=30.0	Are 480.0	3.500	
6.	Conditioned floor area (ft²)	960		b. N/A	R=	400.0	ft ²	
7	Windows**	Description		Area	c. N/A	R=		ft²	
•	a. U-Factor:	Dbl, U=0.36		112.00 ft²	12. Ducts, location & insulation level		R	ft²	
	SHGC:	SHGC=0.25							
	b. U-Factor:	N/A		ft ²					
	SHGC:				13. Cooling systems	kBtu/hr	Efficier	ncv	
	c. U-Factor:	N/A		ft²	a. Central Unit	10.0	SEER:14		
	SHGC:								
	d. U-Factor:	N/A	ft²		14. Heating systems	kBtu/hr	Efficier	ncv	
	SHGC:	_			a. Electric Heat Pump	8.5			
	Area Weighted Average			5.429 ft.		0.0			
	Area Weighted Average	SHGC:		0.250					
	8. Skylights	Description		Area	15. Hot water systems	0			
	a. U-Factor(AVG):		ft²		a. Electric	Ca	p: 40 gal		
	SHGC(AVG):	N/A			*** **********************************		EF: (0.92	
	9. FloorTypes		Insulation	Area	 b. Conservationfeatures 				
		Raised Floor R=19.0 480.00 ft ² Credits (Perfor							
	b. Floor Over Other S			Credits (Performance method)		CV, P	stat		
	c. N/A	ouoo	R=19.0	480.00 ft² ft²					
	W. 1 W. 1		1.7-	11					

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: 343 SW Federal Court						
City: Ft White State	:: FL Zip: 32038					
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 sha the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Calc	Il 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 ÷ 7200 Building Volume ACH(50) Retrieved from architectural plans Retrieved from architectural plans Code software calculated When ACH(50) is less than 3, Mechanical Ventilation installation Field measured and calculated Field measured and 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 (7Fjorida 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 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 accordant Energy Conservation requirements according to the compliance in	Phone: ce with the 2020 7th Edition Florida Building Code nethod selected above.					
Signature of Tester:	Date of Test:					
Printed Name of Tester:						
License/Certification #:	_ Issuing Authority:					