

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Doug Peeler Resider Street: SW Dairy Street City, State, Zip: Lake City, FL, 320; Owner: Doug & Maci Peeler Design Location: FL, Gainesville	25	Builder Name: Charles Peeler Construction Permit Office: Columbia County Permit Number: Jurisdiction: Columbia (Florida Climate	
 New construction or existing Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Conditioned floor area below grade (ft²) Windows (395.8 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: Skylights c. U-Factor:(AVG) N/A SHGC(AVG): N/A SHGC(AVG): N/A SHGC-O-Grade Edge Insulation b. Floor Over Other Space c. N/A 	New (From Plans) Detached 1 4 No 2792 0 Area 395.83 ft² ft² ft² ft² ft² ft² ft² ft²	10. Wall Types(2568.3 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types (2578.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: 1st Floor 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump 15. Hot water systems a. Propane b. Conservation features None 16. Credits	HSPF:8.20 HSPF:8.20 Cap 50 gallons EF: 0.590
Glass/Floor Area: 0.142	Total Proposed Modifie Total Baseline		PASS
I hereby certify that the plans and spreading calculation are in compliance with Code. PREPARED BY:	th the Florida Energy 2022 designed, is in compliance	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).

				PROJ	ECT								
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Doug Peeler Reside User Doug & Maci Peeler 1 Charles Peeler Con Columbia County Detached New (From Plans)	r	Bedrooms Condition Total Stor Worst Ca Rotate An Cross Ver Whole Ho	ed Area: ies: se: gle: ntilation:	4 2792 2 No 0 Yes No		Lot # Block PlatB Stree Coun	t:	sion:	Street A SW Da Columb Lake Ci	iry Stre	eet	
				CLIMA	ATE								
- 83	gn Location Gainesville FL	TMY Site	_REGI	97	Design Temp 7.5 % 2.5 % 32 92	Int Des Winter 70	ign Temp Summ 75	er Deg	leating ree Day 305.5		esign bisture 51	Ra	Temp inge edium
				BLOC	KS								
Number	Name	Area	Volume										
1	Block1	2792	24791										
				SPAC	ES								
Number	Name	Area	Volume	Kitchen	Occupants	Bedroom	s In	ifil ID	Finishe	d	Coole	d	Heated
1	1st Floor	2455	22095	Yes	8	4	1		Yes		Yes		Yes
2	2nd Floor	337	2696	No	2	0	1		Yes		Yes		Yes
				FLOO	RS								
V #	Floor Type	Space	Per	imeter Per	imeter R-Value	Area	Jois	t R-Value	Э	Tile	Woo	d Ca	rpet
1 Slab	-On-Grade Edge Insu	lation 1st F	Floor 24	O ft	0	2455 ft ²				0	0		1
2 Floo	r Over Other Space	2nd F	Floor	**		337 ft²		19		0	0	19	1
				ROO	F								
√ # ·	Туре	Materials	Roof Area	Gabl Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Er Tes		Deck nsul.	Pitch (deg)
1 (Gable or shed Co	omposition shingle	es 2951 ft	² 458 ft	² Medium	Υ	0.96	No	0.9	Ν	lo	0	33.69
				ATTI	С								
√ #	Туре	Ventila	ation	Vent Rati	io (1 in)	Area	RBS	IRO	CC				
	Partial cathedral ceil	i Vente	1,000	9990	0 2		22422						

							CEI	LING							
$\sqrt{}$	# Ceiling Type		Space	R-V	'alue	Ins	Туре	Area	Framing	ng Frac Truss Type		е			
	1 Under Attic (Vented)		nted)	1st Floor	38	3	Double	e Batt	2224 ft ²	0.11		Wood			
	2	ι	Inder	Attic (Ve	nted)	2nd Floor	38	3	Double	e Batt	354 ft ²	0.11		Wood	
							WA	LLS							
V #	Orn		Adjac To	ent Wall	Tyne	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing R-Value			Belov
1	N		xterio		ne - Wood	1st Floor	13	13		8	104.0 ft²		0.23	0.75	Graue (
2	Е	E	xterior	Fran	me - Wood	1st Floor	13	4		10	40.0 ft ²		0.23	0.75	
3	Ν	E	xterior	Fran	ne - Wood	1st Floor	13	38	8	10 0	386.7 ft ²		0.23	0.75	(
4	W	E	xterior	Fran	ne - Wood	1st Floor	13	4		10	40.0 ft ²		0.23	0.75	3)
5	Ν	E	kterior	Fran	ne - Wood	1st Floor	13	13	8	9	123.0 ft²		0.23	0.75	(
6	W	E	kterior	Fran	ne - Wood	1st Floor	13	40		9	360.0 ft ²		0.23	0.75	(
_ 7	S	E	cterior	Fran	ne - Wood	1st Floor	13	14	4	9	129.0 ft ²		0.23	0.75	1
8	E	E	kterior	Fran	ne - Wood	1st Floor	13	10		9	90.0 ft ²		0.23	0.75	
9	S	E	cterior	Fran	ne - Wood	1st Floor	13	33	8	9	303.0 ft ²		0.23	0.75	
10	W	E	kterior	Fran	ne - Wood	1st Floor	13	10		9	90.0 ft ²		0.23	0.75	
11	S	E	cterior	Fran	ne - Wood	1st Floor	13	18		9	162.0 ft²		0.23	0.75	
12	Ε	E	cterior	Fran	ne - Wood	1st Floor	13	40		9	360.0 ft ²		0.23	0.75	
13	E	E	cterior	Fran	ne - Wood	2nd Floor	13	13	8	8	109.3 ft²		0.23	0.75	ĵ
14	N	E	cterior	Fran	ne - Wood	2nd Floor	13	18		9	162.0 ft²		0.23	0.75	
15	W	E	cterior	Fran	ne - Wood	2nd Floor	13	13	8	8	109.3 ft²		0.23	0.75	
							DO	ORS							
$\sqrt{}$	#		Orni		Door Type	Space			Storms	U-Va		Width	Heigh		Area
	1		W		Insulated	1st Floor			None	.46	F	t In	Ft 6	8 2	20 ft²
							WINI	oows							
,			Wall		0	rientation show	wn is the er	ntered, P	roposed	orientation		erhang			
											Ove	Control of the second		ahe S	Screeni
V	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Sh	auc c	
✓ —	1	Ornt	ID 1	Frame Vinyl	Panes Low-E Double	NFRC Yes	U-Factor 0.36	SHGC 0.25	Imp N	Area 30.0 ft²	Depth 1 ft 6 in	Separation 1 ft 0 in	Int Sh Non		None
<u>/</u>	0	80	- 67	10/2017	0 1000									ne	
/ 	1	Ν	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Non	ne ne	None
<u> </u>	1 2	N N	1	Vinyl Vinyl	Low-E Double	Yes Yes	0.36 0.36	0.25 0.25	N	30.0 ft² 72.0 ft²	1 ft 6 in 9 ft 6 in	1 ft 0 in 0 ft 4 in	Non	ne ne	None None
<u></u>	1 2 3	N N	1 3 3	Vinyl Vinyl TIM	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	30.0 ft² 72.0 ft² 40.0 ft²	1 ft 6 in 9 ft 6 in 9 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in	Non Non	ne ne ne	None None None
V — —	1 2 3 4	N N N	1 3 3 5	Vinyl Vinyl TIM 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	N N N	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in	Non Non Non	ne ne ne ne	None None None
/ 	1 2 3 4 5	N N N N	1 3 3 5	Vinyl Vinyl TIM Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	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	N N N	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 1 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in 4 ft 0 in	Non Non Non Non	ne ne ne ne	None None None None
	1 2 3 4 5	N N N N W	1 3 3 5 6 7	Vinyl Vinyl TIM Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Yes 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 N N N N N N N N N N N N N N N	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ² 30.0 ft ² 30.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 11 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in 4 ft 0 in 1 ft 0 in	Non Non Non Non Non	ne ne ne ne ne	None None None None None
	1 2 3 4 5 6 7	N N N N W S S	1 3 3 5 6 7 9	Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes Yes Yes Yes Yes	0.36 0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25 0.25 0.25	N N N N N	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ² 30.0 ft ² 30.0 ft ² 50.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 11 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in 4 ft 0 in 1 ft 0 in	Non Non Non Non Non Non	ne ne ne ne ne ne ne	None None None None None
	1 2 3 4 5 6 7 8	N N N W S S S S	1 3 3 5 6 7 9	Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl	Low-E Double	Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 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	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ² 30.0 ft ² 30.0 ft ² 50.0 ft ² 15.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 11 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in 4 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	Non Non Non Non Non Non Non	ne ne ne ne ne ne ne ne	None None None None None None
	1 2 3 4 5 6 7 8	N N N N N N N N N N N N N N N N N N N	1 3 3 5 6 7 9	Vinyl	Low-E Double	Yes	0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	N N N N N N N	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ² 30.0 ft ² 30.0 ft ² 50.0 ft ² 15.0 ft ² 10.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 11 ft 6 in 11 ft 6 in 11 ft 6 in 1 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in 4 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in 3 ft 0 in	Non Non Non Non Non Non Non	ne n	None None None None None None
	1 2 3 4 5 6 7 8 9	N N N N S S S S E	1 3 5 6 7 9 9	Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl TIM	Low-E Double	Yes	0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 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	30.0 ft ² 72.0 ft ² 40.0 ft ² 30.0 ft ² 30.0 ft ² 30.0 ft ² 50.0 ft ² 15.0 ft ²	1 ft 6 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 11 ft 6 in	1 ft 0 in 0 ft 4 in 0 ft 4 in 1 ft 0 in 4 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	Non Non Non Non Non Non Non	ne n	None None None None None None None None

					INFI	LTRATIO	ON						
#	Scope	Method		SLA	CFM 50	ELA	E	qLA	ACH	ACH	50		
1 V	Vholehouse	Proposed A	CH(50)	.000282	2065.9	113.34	21	2.79	.1348	5			
					HEATI	NG SYS	TEM						
\vee	# 5	System Type		Subtype	Spee	d	Efficiency	y Ca	apacity		Block	D	ucts
	_ 1 E	Electric Heat Pu	imp/	None	Singl	е	HSPF:8.2	39.98	3 kBtu/hr		1	sy	/s#1
					COOLI	NG SYS	TEM						
	# 5	System Type		Subtype	Subty	/pe	Efficiency	Capacity	Air F	low SH	R Block	D	ucts
	_ 1 0	Central Unit/		None	Single	е	SEER: 14	32.2 kBtu/	hr 960	cfm 0.7	7 1	sy	/s#1
					HOT WA	TER SY	STEM						
\vee	#	System Type	SubType	Location	EF	Ca	р	Use	SetPnt		Conservation	n	
	_ 1	Propane	None	Exterior	0.59	50 g	jal	40 gal	120 deg		None		
				SO	LAR HOT	WATER	SYSTE	EM					
\vee	FSEC Cert #	Company Na	ame		System M	lodel#	Co	ollector Mode			Storage Volume	FEF	
	None	None								ft²			
						DUCTS							
\checkmark	#	Sup Location R		Re Location	eturn Area	Leaka	де Туре	Air Handle	CFM 25 r TOT	CFM25 OUT	QN RLF	HV. Heat	AC#
	_ 1	Attic	6 698 ft²	Attic	139.6 ft²	Default	Leakage	1st Floor	(Default) o	(Default) c		1	1
					TEMP	ERATU	RES						
Prog	ramableTher	mostat: Y		C	eiling Fans:								
Cooli Heati Venti	ng [X] Ja	n [X] 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] Sep [] Sep [] Sep	Oct Oct (X) Oct	[] Nov [X] Nov [X] Nov	[x]	Dec Dec Dec

Thermostat Schedule:	HERS 2006 Reference 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

B	n		S	0
- 11	vı	м		. >

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	O ft²	O ft	0.3	1st Floor
Default(8 lbs/sq.ft.	0 ft²	O ft	0.3	2nd Floor

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 88

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

SW Dairy Street, Lake City, FL, 32025

1.	New construction or exi	sting	New (From Plans)		Wall Type and Insulation	Insulation	Α	rea	
2.	Single family or multiple	family	Detache	ed	a. Frame - Wood, Exterior	R=13.0	2568.		
	. Number of units, if multiple family				b. N/A	R=		ft ²	
٥.			1		c. N/A	R=		ft²	
4.	Number of Bedrooms		4		d. N/A	R=		ft ²	
5.	Is this a worst case?		No		 Ceiling Type and insulation level Under Attic (Vented) 	Insulation R=38.0		rea .00 ft²	
6.	Conditioned floor area (ft²)	2792		b. N/A	R=		ft ²	
7	Windows**	Description		Area	c. N/A	R=		ft2	
•	a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		395.83 ft²	 Ducts, location & insulation level Sup: Attic, Ret: Attic, AH: 1st Floor 		R 6		
	b. U-Factor:	N/A		ft ²					
	SHGC:				13. Cooling systems	kBtu/hr	Effici	iency	
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit		SEER:		
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr		iency	
	Area Weighted Average Overhang Depth: Area Weighted Average SHGC:			6.127 ft. 0.250	a. Electric Heat Pump	40.0	HSPF	HSPF:8.20	
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Propane	Ca	ap: 50 g EF	allons : 0.59	
	9. Floor Types a. Slab-On-Grade Edo b. Floor Over Other S	ge Insulation	Insulation R=0.0 R=19.0	Area 2455.00 ft ² 337.00 ft ²	b. Conservationfeatures None 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:	GREA
Address of New Home:	City/FL Zip:	1



*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: Charles Peeler Construction Community:	Lot: NA							
Address: SW Dairy Street								
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 shat the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Calc	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.							
CFM(50) × 60 ÷ 24791 Building Volume = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in 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 Statues.or 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 official. Testing shall be performed at any time after creation of all penetrations of the unit ding 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 fully open.								
Testing Company								
Company Name: I hereby verify that the above Air Leakage results are in accordar Energy Conservation requirements according to the compliance in the								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							