## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 125 Milkweed Ct Street: 160 SW Orange Blossom City, State, Zip: Lake City, FL, 32025 Owner: Peter & Anna Lev Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: 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) Conditioned floor area below grade (ft²) 7. Windows (216.3 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  New (From Plans) Detached 1  1  1  4. New (From Plans) Detached 1  1  1  1  1  1  1  1  1  1  1  1  1	10. Wall Types(1751.6 sqft.)  a. Concrete Block - Int Insul, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1897.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Main  13. Cooling systems a. Central Unit  14. Heating systems a. Electric Heat Pump  15. Hot water systems  16. Insulation Area R= 162 Insulation Area R= 38.0 1897.00 ft² R= 162 R ft²
9. Floor Types (1807.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1807.00 ft² b. N/A R= ft² c. N/A R= ft²	a. Electric Cap: 50 gallons EF: 0.920 b. Conservationfeatures None 16. Credits CV, Pstat
Glass/Floor Area: 0.120 Total Proposed Modified Total Baseline	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY: 10 / 20 / 2022  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.  OWNER/AGENT: DATE: 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

					PROJ	ECT								
Title: Building Owner Note of Units Builder N Permit Of Jurisdicti Family Ty New/Exis Commen	ame: s: lame: ffice: on: ype: sting:	125 Milkweed Ct User Peter & Anna Lev 1 Columbia County Detached New (From Plans)		Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	dArea: es: e: le: ilation:	3 1807 1 No 0 Yes No			Lot # Block PlatB Stree Cour	k/Subdivis Book: et:	sion: 1 C o: L	treet Addre 60 SW Ora columbia ake City , L , 320	ange Blo	osso
					CLIM	ATE								
$\checkmark$		gn Location	TMY Site				2.5 %	Winte		ner Deg	leating ree Day	s Moistu		ange
	FL,	Gainesville F	L_GAINESVILLE	_REGI		32	92	70	75	1	305.5	51	М	edium
					BLO	CKS								
Numbe	er	Name	Area	Volume										
1		Block1	1807	16859.	3									
					SPA	CES								
Numbe	er	Name	Area	Volume P	Kitchen	Occupa	nts	Bedroor	ms I	nfil ID	Finishe	d Cod	oled	Heate
1		Main	1807	16859.3	Yes	6		3	1	l	Yes	Yes	3	Yes
					FLO	ORS								
$\sqrt{}$		Floor Type	Space	Peri	meter	R-Value	)	Area				Tile W	ood Ca	arpet
	1 Slab	o-On-Grade Edge Ins	ulation Ma	ain 188.6	7 ft	0		1807 ft²				0	0	1
					RO	OF								
$\checkmark$	#	Туре	Materials	Roof Area	Gal Are		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg
	1	Hip	Metal	2172 ft²	0 ft	.² L	ight.	Υ	0.96	No	0.9	No	0	33.6
					ATT	TIC .								
$\sqrt{}$	#	Туре	Ventila	ation	Vent Ra	itio (1 in)		Area	RBS	IR	СС			
	1	Full attic	Vent	ed	3	00	18	307 ft²	Υ	1	N			
					CEIL	ING		_		_			_	
$\checkmark$	#	Ceiling Type		Space	R-Val	ue	Ins Typ	е	Area	Fran	ning Fra	c Trus	з Туре	
	1	Under Attic (Vente	-1\	Main	38	D-	ouble Ba	. 44	1897 ft²		0.11	۱۸/	ood	

#### INPUT SUMMARY CHECKLIST REPORT

							WA	LLS								
V #	Orn		Adjace To	nt Wall	Туре	Space	Cavity R-Value	Wid Ft	th In	He Ft	eight In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
1	S	Е	xterior	Con	crete Block - Int Insul	Main	5	12		9	4	112.0 ft <sup>2</sup>		0	0.75	C
2	S	Е	xterior	Con	crete Block - Int Insul	Main	5	28	8	9	4	267.6 ft <sup>2</sup>		0	0.75	C
3	Е	G	arage	Fran	me - Wood	Main	13	7	4	9	4	68.4 ft <sup>2</sup>		0.23	0.75	(
4	S	G	arage	Fran	me - Wood	Main	13	22		9	4	205.3 ft <sup>2</sup>		0.23	0.75	(
5	Е	Е	xterior	Con	crete Block - Int Insul	Main	5	23	4	9	4	217.8 ft <sup>2</sup>		0	0.75	(
6	N	Е	xterior	Con	crete Block - Int Insul	Main	5	62	8	9	4	584.9 ft <sup>2</sup>		0	0.75	(
7	W	E	xterior	Con	crete Block - Int Insul	Main	5	31	8	9	4	295.6 ft <sup>2</sup>		0	0.75	(
							DO	ORS								
$\sqrt{}$	#		Ornt		Door Type	Space			Storms		U-Valı	ıe Ft	Width In	Height Ft	n	Area
	1		S		Insulated	Main			None		.46	3		6	8	20 ft <sup>2</sup>
	2		Е		Insulated	Main			None		.46	3		6	8	20 ft²
					Orie	ntation sh	WINE nown is the er	OWS		dorie	entation					
. /			Wall										hang			
V	#	Ornt		Frame	Panes	NFRC	U-Factor		Imp		Area		Separation	Int Sha		Screeni
	1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N		30.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	;	None
	2	S	2	TIM	Low-E Double	Yes	0.36	0.25	N	•	13.3 ft²	7 ft 6 in	1 ft 0 in	None	)	None
	3	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N		25.0 ft <sup>2</sup>	7 ft 6 in	1 ft 0 in	None		None
	4	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N		9.0 ft <sup>2</sup>	7 ft 6 in	1 ft 0 in	None	;	None
	5	Е	5	Vinyl	Low-E Double	Yes	0.36	0.25	N		20.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	;	None
	6	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N		60.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	;	None
	7	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N		6.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	;	None
	8	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N		9.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
	9	N	6	TIM	Low-E Double	Yes	0.36	0.25	N		40.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
	10	W	7	Vinyl	Low-E Double	Yes	0.36	0.25	N		4.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	•	None
							GAF	RAGE								
$\sqrt{}$	#			Area	Ceiling A	rea	Exposed V	Vall Per	imeter		Avg. W	all Height	Expose	ed Wall Ins	ulation	
	1		491.2	26 ft²	491.26 f	t²	58	.33 ft			9.3	33 ft		1		
							INFILT	RATIC	)N							
;	Scope		М	ethod	SI	_A	CFM 50	ELA	ı	EqL/	A	ACH	ACH	H 50		
\//b	nolehou	se	Propo	sed AC	H(50) .00029	96	1404.9	77.08	1	44.7	71	.1042	Ę	5		

## INPUT SUMMARY CHECKLIST REPORT

					HEAT	TING SYS	TEM						
$\sqrt{}$	# Sy	stem Type		Subtype	Spe	eed	Efficiency	и Са <sub>І</sub>	pacity			Block	Ducts
	1 Ele	ectric Heat Pu	mp/	None	Sin	gle	HSPF:8.2	29.51	kBtu/hr			1	sys#1
					COO	LING SYS	TEM						
$\vee$	# Sy	stem Type		Subtype	Sul	otype	Efficiency	Capacity	Air F	low SI	HR	Block	Ducts
	1 Ce	entral Unit/		None	Sin	gle	SEER: 14	20.55 kBtu/l	nr 630	cfm 0	).7	1	sys#1
					HOT W	ATER SY	STEM						
$\sqrt{}$	# :	System Type	SubType	Location	on EF	Ca	р	Use	SetPnt		Co	onservatio	n
	1 1	Electric	None	Garag	e 0.92	50 (	jal	40 gal	120 deg			None	
				S	OLAR HO	T WATER	SYSTE	M					
$\checkmark$	FSEC Cert #	Company Na	ame		System	Model#	Co	ollector Model		llector Area	Stor	rage ume	FEF
	None	None			,					ft²			
						DUCTS							
. /		Sup	ply		Return			Air	CFM 25	CFM25			HVAC
	#		-Value Area	Locat	ion Area		geType	Handler		OUT	QN	RLF	Heat Co
	1	Attic	6 451.75	f Atti		PERATUI	Leakage	Main	(Default)	c(Default) o			1 1
Program	nableThern	nostat: V			Ceiling Fan:		\L5						
Cooling	[]Jan		[ ] Mar	[]Apr	[] May	[X] Jun	[X] Jul	[X] Aug	IXI Ser	0 [ ]	ct	[ ] Nov	[ ] Dec
Heating Venting	[X] Jan [ ] Jan	[X] Feb	[ ] Mar [X] Mar [X] Mar	[ ] Apr [ ] Apr [X] Apr	[ ] May [ ] May	[ ] Jun [ ] Jun	[ ] Jul [ ] Jul	[ ] Aug [ ] Aug	[X] Sep [ ] Sep [ ] Sep	[ ] 0 [X] 0	ct	[ ] Nov [X] Nov [X] Nov	[ ] Dec [X] Dec [ ] Dec
	at Schedule	: HERS 200	06 Reference	0	2 4			ours	0	0	40	44	40
Schedule - Cooling (W		AM	78		3 4 78 78	5 78	78	78	78	9	10 80	80	12 80
		PM	80	80	78 78	78	78 78	78	78	80 78	78	78	78
Cooling (W	v⊨H)	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 (W	VD)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (W	VEH)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
						MASS							
	ass Type			Area		Thickness		Furniture Fra	ction	Spa			
Default(8 lbs/sq.ft.				0 ft <sup>2</sup>		0 ft		0.3		N	∕lain		

# **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

#### ESTIMATED ENERGY PERFORMANCE INDEX\* = 97

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

160 SW Orange Blossom, Lake City, FL, 32025

1.	New construction or exis	New (Fr	om Plans)	<ol><li>Wall Type and Insulation</li></ol>	Insulation	Area	
2.	Single family or multiple f	Detache	d	a. Concrete Block - Int Insul, Exterior	R=5.0 R=13.0	1477.80 ft <sup>2</sup> 273.78 ft <sup>2</sup>	
3.	Number of units, if multip	1		b. Frame - Wood, Adjacent c. N/A	R=13.0 R=	ft²	
4.	Number of Bedrooms		3		d. N/A	R=	ft²
5.	Is this a worst case?	No		<ol> <li>Ceiling Type and insulation level a. Under Attic (Vented)</li> </ol>	Insulation R=38.0	Area 1897.00 ft²	
6.	Conditioned floor area (ft	2)	1807		b. N/A	R=	ft²
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 216.33 ft²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Main	R=	ft² R ft² 6 451.75
	b. U-Factor:	N/A		ft²			
	SHGC: c. U-Factor: SHGC:	N/A		ft²	13. Cooling systems a. Central Unit	kBtu/hr 20.5	Efficiency SEER:14.00
	d. U-Factor: SHGC: Area Weighted Average Area Weighted Average	• .		ft² 2.813 ft. 0.250	14. Heating systems a. Electric Heat Pump	kBtu/hr 29.5	Efficiency HSPF:8.20
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	Hot water systems     a. Electric  b. Conservationfeatures	Ca	ap: 50 gallons EF: 0.92
	<ol> <li>Floor Types         <ul> <li>a. Slab-On-Grade Edge</li> <li>b. N/A</li> <li>c. N/A</li> </ul> </li> </ol>	Insulation R=0.0 R= R=	Area 1807.00 ft² ft² ft²	None 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:	GR.
Address of New Home:	City/FL Zip:	—— TO GOD



\*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.

<sup>\*\*</sup>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: 160 SW Orange Blossom								
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 tes 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								
CFM(50)  Rachanical Ventilation is must be verified by building department.  R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/R Testing shall be conducted by either individuals as defined in Section 553.9	RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). 093(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 uilding 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	nce with the 2020 7th Edition Florida Building Code							
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							