FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 46 Crosswinds Street: City, State, Zip: Lake City, FL, 3202 Owner: Design Location: FL, Gainesville	4	Builder Name: Rhett Smithey Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate	eZone 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 abovegrade (ft²) Conditioned floor area below grade (ft²) 7. Windows (170.0 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) N/A SHGC(AVG): N/A 9. Floor Types (1676.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A C. N/A	0.250 Area ft² Insulation Area R=0.0 1676.00 ft² R= ft² R= ft²	10. Wall Types(1587.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1759.0 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. Electric Heat Pump 15. Hot water systems a. Electric b. Conservation features None 16. Credits	Insulation Area R=13.0 1398.00 ft² R=13.0 189.00 ft² R= ft² R= ft² Insulation Area R=38.0 1759.00 ft² R= ft² R= ft² R= ft² A ft² A ft² A 419 kBtu/hr Efficiency 19.4 SEER:14.00 kBtu/hr Efficiency 25.2 HSPF:8.20 Cap: 40 gallons EF: 0.920 CV, Pstat
Glass/Floor Area: 0.101	Total Proposed Modifie Total Baseline		PASS
DATE:	the Florida Energy 2022 signed, 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:	OD 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 R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

				JOIMINAN	PROJ								
Owner # of Un	Name: Office: ction: Type: xisting:	Lot 46 Crosswi User 1 Rhett Smithey Columbia Cour Detached New (From Pla	nty	Bedroom Condition Total Sto Worst Ca Rotate Al Cross Ve Whole He	ned Area: ries: ase: ngle:	3 1676 1 No 0 Yes No		Lot # Block Plati Stree Cou	k/Subdivi Book: et:	ision: C C p: L	ot Informat 6 crosswinds columbia ake City , L , 320		
					CLIMA	TE							
\checkmark		ign Location	TMY Site	Э		esign Temp .5 % 2.5 %		esign Tem er Sumn		Heating gree Days	Desigr Moistur		y Temp ange
	FL,	Gainesville	FL_GAINESVILL	.E_REGI		32 92	70	75	1	1305.5	51	N	ledium
					BLOC	KS							
Numb	per	Name	Area	Volume									
1		Block1	1676	1508	4								
					SPAC	ES							
Numb	er	Name	Area	Volume	Kitchen	Occupants	Bedroo	ms I	nfil ID	Finished	Cool	ed	Heate
1		Main	1676	15084	Yes	6	3	1		Yes	Yes		Yes
					FLOOI	RS							
V		Floor Type	Spac		rimeter	R-Value	Area				Tile Wo	od Ca	arpet
	1 Slat	o-On-Grade Edge	Insulation I	Main 176	.4 ft	0	1676 ft²				0 0		1
					ROO	F							
\checkmark	#	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitcl (deg
	1	Hip	Composition shin	gles 1874 ft	o ft²	Medium	Υ	0.96	No	0.9	No	0	26.5
					ATTIC								
\checkmark	#	Туре	Vent	ilation	Vent Ratio	(1 in)	Area	RBS	IRO	cc			
	1	Full attic	Ver	nted	300	1	676 ft²	Y	Ν	١			
					CEILIN	G							
1	#	Ceiling Type		Space	R-Value	Ins Ty	oe .	Area	Fram	ning Frac	Truss	Гуре	THE SAME
V												31	

FORM R405-2020	INPUT SUI
1 OT (W 11403-2020	INFULSU

							WA	ALLS							
/#	Ornt		Adjace To	ent Wall	Type	Space	Cavity R-Value	Wid Ft	ith In	Height Ft In	Area	Sheathing R-Value			
_ 1	S	E	xterior		ne - Wood	Main	13	22	8	9	204.0 ft ²	7. 74.00	0.23	0.75	0
_ 2	E	E	cterior	Fran	ne - Wood	Main	13	28	6	9	256.5 ft ²		0.23	0.75	C
_ 3	N	E	cterior	Fran	ne - Wood	Main	13	10		9	90.0 ft ²		0.23	0.75	C
_ 4	Е	E	cterior	Fran	ne - Wood	Main	13	16		9	144.0 ft ²		0.23	0.75	(
_ 5	Ν	E	cterior	Fran	ne - Wood	Main	13	33	8	9	303.0 ft ²		0.23	0.75	0
_ 6	W	E	cterior	Fran	ne - Wood	Main	13	39		9	351.0 ft ²		0.23	0.75	0
_ 7	S	G	arage	Fran	ne - Wood	Main	13	21		9	189.0 ft ²		0.23	0.75	0
_ 8	W	Ex	cterior	Fran	ne - Wood	Main	13	5	6	9	49.5 ft ²		0.23	0.75	0
							DO	ORS							
/	#		Ornt		Door Type	Space			Storms	U-Valu	je F	Width t In	Heigh Ft	nt In	Area
	1		s		Insulated	Main			None	.46	3		6	200	20 ft²
	2		S		Insulated	Main			None	.46	3	i e	6	8 :	20 ft²
					0	riantation abo		ows							
,	-	-	Wall			rientation sho	wn is the ei	ntered, F	roposed	orientation.					
/	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		rhang Separation	Int Sha	ade :	Screenir
	1	s	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	7 ft 6 in	1 ft 0 in	Non		None
	2	E	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	Non		None
	3	N	3	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft ²	6 ft 6 in	1 ft 0 in	Non		None
	4	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Non	е	None
	5	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft ²	1 ft 6 in	1 ft 0 in	Non		None
	6	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	1 ft 0 in	Non	е	None
_	7	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	Non		None
							GAF	RAGE				New York			
/	#		Floor	Area	Ceiling	Area	Exposed V	Vall Peri	meter	Avg. Wa	all Height	Expose	d Wall Ins	sulation	
	1		504	ft²	504 1	42	61	5.5 ft			ft		1		

7						
	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_	1	504 ft ²	504 ft ²	65.5 ft	9 ft	1
-11-2				INFILTRATION		

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50			
1	Wholehouse	Proposed ACH(50)	.000286	1257	68.96	129.47	.1027	5			
	HEATING SYSTEM										

	HEATING SYSTEM										
\vee	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts			
	1	Electric Heat Pump/	None	Single	HSPF:8.2	25.16 kBtu/hr	1	sys#1			

INPUT SUMMARY CHECKLIST REPORT

						COOL	ING SY	STEM							
\vee	# 5	System Type		Subtyp	е	Sub	otype	Efficiency	Capacity	Air	Flow	SHR	Block	D	ucts
	1 (Central Unit/		None		Sin	gle	SEER: 14	19.42 kBtu	/hr 570) cfm	0.7	1	S	ys#1
						нот w	ATER S	YSTEM							0 2 5 5 5
\vee	#	System Type	SubType	Loca	tion	EF	C	ар	Use	SetPnt		C	onservatio	n	
	1	Electric	None	Gara	ige	0.92	40	gal	40 gal	120 deg			None		
					so	LAR HO	T WATE	R SYSTE	ΕM						
V	FSEC Cert #	Company N	lame			System	Model#	Co	ollector Mode		Collect Area		rage ume	FEF	
	None	None									ft²				
							DUCTS								
\checkmark	#	Sup Location F	oply R-Value Area		Re	eturn n Area	Leak	ageType	Air Handlei	CFM 25	750500	M25 UT QN	RLF	HV Heat	AC #
	1	Attic	6 419 ft²	At	tic	83.8 ft²	Defau	lt Leakage	Garage	(Default)	c(De	fault) c		1	1
						TEM	PERATU	RES							
Program	ableTher	mostat: Y			C	Ceiling Fans	:								
Cooling Heating Venting	X Ja X Ja Ja	n []Feb n []Feb n []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] Se [] Se [] Se	p p	Oct Oct X Oct	[] Nov [X] Nov [X] Nov		Dec Dec Dec
Thermosta		e: HERS 20	06 Reference					Ho	ours						
Schedule T		7.00	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		30 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
leating (W	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 66		58 56
		i ivi	00	00	00	00	MASS	08	00	68	68	68	66		56
Ma	ss Type			Area			Thickness	d i	Furniture Fra	ction		Space		-	_
De	fault(8 lbs	/sq.ft.		O ft²			0 ft		0.3	2000		Main			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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

, Lake City, FL, 32024

New construction or ex	isting	New (Fr	om Plans)	Wall Type and Insulation	Insulation	Α .	rea	
Single family or multiple	e family	Detache	ed	a. Frame - Wood, Exterior	R=13.0	1398	.00 ft	
Number of units, if mul	tiple family	1			R=13.0	189	.00 ft	
		2					ft² ft²	
Is this a worst case?		No		11. Ceiling Type and insulation level	Insulation			
Conditioned floor area (ft²)	1676		b. N/A	R=		ft	
Windows**	Description		Area	c. N/A	R=		ft	
a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		170.00 ft ²	 Ducts, location & insulation level Sup: Attic, Ret: Attic, AH: Garage 		R 6		
b. U-Factor:	N/A		ft²					
SHGC:				13. Cooling systems	kBtu/hr	Effici	iencv	
c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	19.4	SEER:		
d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Effici	iency	
			3.735 ft. 0.250	a. Electric Heat Pump	25.2	HSPF	-:8.20	
 Skylights a. U-Factor(AVG): SHGC(AVG): 	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Са	The second second	allon	
	a laculation	Insulation	Area	 b. Conservationfeatures None 				
b. N/A	je insulation	R=0.0 R=	1676.00 ft² ft²	Credits (Performance method)		CV,	Psta	
c. N/A		R=	ft²					
	Single family or multiple Number of units, if multiple Number of Bedrooms Is this a worst case? Conditioned floor area (Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: d. U-Factor: SHGC: d. U-Factor: SHGC: Area Weighted Average Area Weighted Average Area Weighted Average S. Skylights a. U-Factor(AVG): SHGC(AVG): D. Floor Types a. Slab-On-Grade Edg b. N/A	Is this a worst case? Conditioned floor area (ft²) Windows** a. U-Factor: SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 3. Skylights Description a. U-Factor(AVG): N/A SHGC(AVG): N/A SHGC(AVG): N/A SHGC-N/A	Single family or multiple family Number of units, if multiple family 1 Number of Bedrooms 3 Is this a worst case? Conditioned floor area (ft²) Windows** Description a. U-Factor: DbI, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: C. U-Factor: N/A SHGC: d. U-Factor: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 3. Skylights Description a. U-Factor(AVG): N/A SHGC(AVG): N/A SHGC(AVG): N/A SHGCOTypes Insulation R=0.0 R=	Single family or multiple family Number of units, if multiple family 1 Number of Bedrooms 3 Is this a worst case? Conditioned floor area (ft²) Windows** Description a. U-Factor: SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: C. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 3. Skylights Description Area 3 Area 4 6 6 7 7 8 7 8 8 8 8 9 9 10 10 10 10 10 10 10 10	Single family or multiple family Number of units, if multiple family Number of Bedrooms 3 d. N/A 11. Ceiling Type and insulation level a. Under Attic (Vented) b. N/A 11. Ceiling Type and insulation level a. Under Attic (Vented) b. N/A 11. Ceiling Type and insulation level a. Under Attic (Vented) b. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage b. U-Factor: Dbl, U=0.36 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. Conservation features None Credits (Performance method)	Single family or multiple family Detached a. Frame - Wood, Exterior Berland Description Area Lufactor: SHGC: SHGC: Lufactor: SHGC: SHG	Single family or multiple family Detached a. Frame - Wood, Exterior R=13.0 1398	

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:	4.



*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.