

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 8 Crosswinds Street: City, State, Zip: Lake City, FL, 32024 Owner: Design Location: FL, Gainesville		Builder Name: Rhett Smithey . Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate	¿Zone 2)
a. Slab-On-Grade Edge Insulation b. N/A	New (From Plans) Detached 1 3 No 1595 0 Area 240.00 ft² ft² ft² 4.625 ft. 0.260 Area ft² Insulation Area R=0.0 1595.00 ft² R= ft² R= ft²	10. Wall Types 1557.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1674.8 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 1362.00 ft² R=13.0 195.00 ft² R= ft² R= ft² Insulation Area R=38.0 1674.80 ft² R= ft² R= ft² R= ft² R= ft² R= ft² R= ft² A ft² C 398.75 kBtu/hr Efficiency 20.2 SEER:14.00 kBtu/hr Efficiency 25.3 HSPF:8.20 Cap: 40 gallons EF: 0.920 CV, Pstat
Glass/Floor Area: 0.150	Total Proposed Modified Total Baseline I		PASS
I hereby certify that the plans and specific this calculation are in compliance with to Code. PREPARED BY: DATE: I hereby certify that this building, as deswith the Florida Energy Code. OWNER/AGENT: DATE:	the Florida Energy 2022	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed of this building will be inspected for compliance with Section 553,998 Florida Statutes. BUILDING OFFICIAL: Compliance	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 R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

DATE:

C	ΕI	LI	N	G

300

1595 ft²

Y

N

	#	Ceiling Type	Space	D Value				
1	Under Attic (Vented)	•	R-Value	Ins Type	Area	Framing Frac	Truss Type	
		- ratio (vented)	Main	38	Double Batt	1674.75 ft²	0.11	Wood

Vented

INPUT SUMMARY CHECKLIST REPORT

							W	ALLS							
V #	Orr	nt	Adjace	ent Wall	Туре	Space	Cavity R-Value	Wid	ith In	Height	Area	Sheathing	Framing Fraction	Solar Absor	Belov
1	S		Exterior		me - Wood	Main	13	17		9	153.0 ft²	- R-value	0.23	0.75	_Grade
2	W	1	Exterior	Fra	me - Wood	Main	13	8		9	72.0 ft²		0.23	0.75	0
3	S		Exterior	Fra	me - Wood	Main	13	2	8	9	24.0 ft ²		0.23	0.75	0
4	S	, s	Garage	Fra	me - Wood	Main	13	21	8	9	195.0 ft ²		0.23	0.75	C
5	E		Exterior	Fra	me - Wood	Main	13	43		9	387.0 ft²		0.23	0.75	C
6	N		Exterior	Fra	me - Wood	Main	13	24	4	9	219.0 ft ²		0.23	0.75	c
7	W	1	Exterior	Fra	me - Wood	Main	13	8		9	72.0 ft ²		0.23	0.75	C
8	N	- 1	Exterior	Fra	me - Wood	Main	13	17		9	153.0 ft²		0.23	0.75	0
_ 9	W	/ 1	Exterior	Fra	me - Wood	Main	13	31	4	9	282.0 ft²		0.23	0.75	0
							DO	ORS							4000
\vee	#		Ornt		Door Type	Space			Storms	U-Va	lue F	Width t In	Height Ft I	n	Area
	1		s		Insulated	Main			None	.46					20 ft²
	2		S		Insulated	Main			None	.46				100	0 ft²
	SHARE				-			oows							
,			Wall	A10-11-11-11-11-11-11-11-11-11-11-11-11-1		Drientation sh	own is the e	ntered, F	roposed	orientation	The state of the s			-	-
\checkmark	#	Orni	5.75.75	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		rhang Separation	Int Shad	de S	Screenir
	1	S	1	Vinyl	Low-E Double	Yes	0.35	0.26	N	30.0 ft²		1 ft 0 in	None		None
	2	Ε	5	Vinyl	Low-E Double	Yes	0.35	0.26	N	30.0 ft²	1 ft 6 in	1 ft 0 in	None		None
	3	N	6	Vinyl	Low-E Double	Yes	0.35	0.26	N	45.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	4	N	8	Metal	Low-E Double	Yes	0.35	0.26	N	60.0 ft ²	9 ft 6 in	1 ft 0 in	None		None
	5	W	9	Vinyl	Low-E Double	Yes	0.35	0.26	N	75.0 ft ²		1 ft 0 in	None		None
I To I West Control							GAF	RAGE					3		
V	#		Floo	r Area	Ceiling	g Area	Exposed \	Vall Per	meter	Avg. W	/all Height	Expose	ed Wall Insu	ulation	
	1		498.3	341 ft²	498.33	341 ft²	65	.67 ft			9 ft	×	1		
							INFILT	RATIC	N	New York					
s	cope		M	ethod		SIA (OEM FO	F1.4						V	
0	lehou		Table Street	sed ACI	H(50) 00		1196.3	ELA 65.63		qLA 23.21	.1027	ACH 5			
Who							HEATING			-V-6-1	.1021	5	-		
Who															
Who	#	Sv	stem Ty	/pe	Su	btype	Speed	010	Efficienc	v	Capacity			lock	Ducts

INPUT SUMMARY CHECKLIST REPORT

					coo	LING SY	STEM						7/10	
$\sqrt{}$	#	System Type		Subtype	Su	btype	Efficiency	Capacity	Ai	Flow	SHR	Block	Duc	cts
	1	Central Unit/		None	Sin	igle	SEER: 14	20.24 kBtu	/hr 600) cfm	0.7	1	sys	#1
					HOT W	/ATER S	YSTEM							
\vee	#	System Type	SubType	Locatio	n EF	C	ap	Use	SetPnt		Co	onservatio	n	
	1	Electric	None	Garage	0.92	40	gal	40 gal	120 deg	ľ		None		
				S	DLAR HO	T WATE	R SYSTE	EM						
\checkmark	FSEC Cert #	CompanyN	lame		System	Model#	Co	ollector Mode		Collector Area		rage ume	FEF	
	None	None								ft²				
						DUCTS								
\checkmark	#		pply R-Value Area	I Locatio	Return on Area	Leak	ageType	Air Handle	CFM 25	CFM OU	7777	RLF	HVA Heat	
	1	Attic	6 398.75	of Attic	79.75 ft	² Defau	lt Leakage	Garage	(Default) c(Defa	ult) c		1	1
					TEM	PERATU	IRES						- 10-	
Program	ableThe	rmostat: Y			Ceiling Fans	s:					/			
Cooling Heating Venting	[X] Ja	an 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] Se	p	Oct Oct X) Oct	X Nov X Nov X Nov		ec lec
Thermosta		ile: HERS 20	06 Reference				Н	ours						
Schedule T	.,		1	2 3	4	5	6	7	8	9	10	11	12	£
Cooling (W	D)	AM PM	78 80	78 7 80 7	8 78 8 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80	}
Cooling (W	EH)	AM PM	78 78	78 73 78 7	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	
Heating (W	(D)	AM PM	66 68	66 66 68 66	66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68	
Heating (W	EH)	AM PM	66 68	66 66 68 66		66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 68	3
					- 00	MASS	00	- 00	00	00	00	00	00	
Ma	iss Type			Area		Thickness	S	Furniture Fra	action		Space			
De	fault(8 lb	s/sq.ft.		0 ft²		0 ft		0.3			Main	-1117		

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

1. New o	construction or exis	ting	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation	n Area
2. Single	2. Single family or multiple family			d	a. Frame - Wood, Exterior	R=13.0	1362.00 ft ²
3. Numb	er of units, if multip	le family	1		b. Frame - Wood, Adjacent c. N/A	R=13.0 R=	195.00 ft ²
4. Numb	er 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	n Area 1674.80 ft²
6. Condi	. Conditioned floor area (ft²)				b. N/A	R=	ft ²
7. Windo	ows**	Description		Area	c. N/A	R=	ft ²
a. U-F SH	Factor: GC:	Dbl, U=0.35 SHGC=0.26		240.00 ft ²	 Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage 		R ft ² 6 398.75
b. U-F	Factor:	N/A		ft²			
SH	GC:				13. Cooling systems	kBtu/hr	Efficiency
c. U-F	Factor: GC:	N/A		ft²	a. Central Unit	20.2	
d. U-F		N/A		ft²	14. Heating systems	kBtu/hr	Efficiency
	rea Weighted Average Overhang Depth: rea Weighted Average SHGC:			4.625 ft. 0.260	a. Electric Heat Pump	25.3	3 HSPF:8.20
	lights J-Factor(AVG): GC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	C	ap: 40 gallons EF: 0.92
	or Types		Insulation	Area	b. Conservationfeatures		
	ab-On-Grade Edge	Insulation	R=0.0	1595.00 ft ²	None		
b. N		valunoii	R=	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: Rhett Smithey Community:	Lot: 8							
Address:								
City: Lake City State	: FL Zip: 32024							
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 Clima PERFORMANCE or ERI METHOD-The building or dwelling unit shall 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.							
CFM(50) x 60 ÷ 14355 = 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 (7ff/orida 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 theode official. Testing shall be performed at any time after creation of all penetrations of the intended weatherstripping or other infiltration control measures. 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 accordan Energy Conservation requirements according to the compliance n	ce with the 2020 7th Edition Florida Building Code							
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	_ Issuing Authority:							

PAT LYNCH LYNCH DRILLING CORP P O Box 934 Branford, FL 32008 (386)935-1076

DATE May 5, 2022

CUSTOMER Delta Omega Properties, Inc.

Lake City, FL

LOCATION 157 SW Erskine Ct, Lake City, FL 32024

WE WILL CONSTRUCT A 4" WATER WELL COMPLETE WITH 4" WATER WELL STEEL CASING, 1 HP SUBMERSIBLE PUMP (20 GPM) WITH 1 1/4" DROP PIPE, AND AN 86 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN).

WELL WILL BE COMPLETE AT THE WELL SITE, WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.

ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND OR CONTRACTOR PRIOR TO COMMENSMENT OF THE INDIVIDUAL JOB.

THANK YOU

NOT RESPONSIBLE FOR THE QUALITY OF WATER