FORM R405-2020

#### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Street: City, State, Zip: Owner: Design Location:	Crest Glen Model - Lot 24 Rose Pointe  Lake City, FL,  FL, Gainesville	Builder Name: Stanley Crawford Construction Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
Conditioned floor  7. Windows(197.0 a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC:	multiple family  i, if multiple family  cooms  ase?  In or area above grade (ft²)  or area above grade (ft²)  or area below grade (ft²)  or area below grade (ft²)  sqft.) Description  Dbl, U=0.33  SHGC=0.22  N/A  N/A  Insulation  Detached  Detached  Detached  Insulation  Area  197.00 ft²  1.957 ft  0.220  Area  N/A  N/A  Insulation  Area  Area	10. Wall Types(1680.0 sqft.)  a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types(1524.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts, location & insulation level a. a. Sup: Attic, Ret: Attic, AH: Garage b. c. 13. Cooling Systems a. Central Unit 14. Heating Systems a. Electric Heat Pump 16. Credits 17. Insulation Area R= ft² R= f
Glass/Floor Area: 0	.129 Total Proposed Modifier Total Baselin	ed Loads: 41.38
this calculation are Code.  PREPARED BY: _  DATE:	Marchan	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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

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## **INPUT SUMMARY CHECKLIST REPORT**

					PROJ	ECT						
Builde Permi Juriso Famil New/6	ing Type: er: er Name: iit Office: diction: ly Type: Existing: Construct:	Crest Glen Mod User Stanley Crawfo Detached New (From Plan 2021		Bedroom Condition Total Sto Worst Ca Rotate A Cross Ve	ned Area: ories: ase: ngle: entilation: ouse Fan:	3 1524 1 No 0 Rural Moderate	Lot # Block PlatB Stree Coun City,	k/SubDivis look: et:	Lot 24 ion: Rose Poin  Columbia Lake City, FL,	ite		
					CLIM	ATE						
/ Desi			Tmy Site		Desig 97.5%	n Temp 2.5%	Int Design Winter S		Heating Degree Days	Desig Moistu		aily temp ange
FL,	Gainesville	*	FL_GAINESVILLE_	REGION	A 32	92	70	75	1305.5	51	Med	lium
					BLO	CKS						
Num	ber	Name	Area	Vo	lume							
1		Block1	1524	1371	6							
					SPAC	CES						
Num	ber	Name	Area	Volume	Kitchen	Occupan	ts Bedro	ooms	Finished	Co	oled	Heated
1		Main	1524	13716	Yes	6	3	Si .	Yes	Y	'es	Yes
					FLOC	ORS	Т)	otal Ex	cposed Are	ea = 1	524 sc	q.ft.)
/#	Floor Type	е	Space	Exposed	Perim P	erimeter R-	Value Area	U-Facto	or Joist R-Value	e Tile	Wood	Carpet
1	Slab-On-Gr	ade Edge Ins	Main	18	1	0	1524 f	0.600	)	0.33	0.33	0.34
					ROO	OF						
/#	Туре		Materials			Gable Roo Area Col		Solar Absor.	SA Emitt Tested	Emitt Tested	Deck Insul	
1	Hip		Composition shingle	s 17	04 ft²	0 ft <sup>2</sup> Medi	um N	0.85	No 0.9	No	0	26.6
					ATT	IC						
/#	Туре		Ventilation		Vent Ra	atio (1 in)	Area	RBS	IRCC			
1	Full attic		Vented		3	00	1524 ft²	N	N			
					CEIL	ING	(T	otal Ex	cposed Are	ea = 1	524 sc	q.ft.)
/#	Ceiling Ty	уре	S	Space	R-Val	ue Ins. T	ype Area	a U-F	actor Framing	g Frac.	Trus	ss Type
1	Under Attic(	Vented)		Main	30.0	) Blov	vn 1524.0	Oft² 0.0	053 0.1	1	V	Vood

# **INPUT SUMMARY CHECKLIST REPORT**

WALLS (Total Exposed Area = 1680 sq.ft.)								t.)								
√# Ornt	Adjacent To	Wall Type		Space		Cavity R-Value	Wid Ft		Height Ft In		Area sq.ft.	U- Factor	Sheath R-Value		Solar Absor.	Below Grade
1 N 2 W 3 N 4 E 5 N 6 E 7 S 8 S 9 E 10 S 11 W 12 S	Exterior Garage  Adjacent  Exterior	Insulated		Mair Mair Mair Mair Mair Mair Mair Mair		,	orms None	0 0 4 4 8 4 4 4 0 0	U-Value	1 1 2 2 2	Wi Ft 6.00	dth In	0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625	ght In	Are 40.0	a ft²
2 S	Exterior Garage			Main Main			None None		0.40 0.40		3.00 3.00	0	6.00 6.00	8	20.0 20.0	
					WII	NDO	ws		(To	otal	Ехр	osed	Area	= 19	7 sq.f	t.)
	Vall ID Frame	Panes	NFRC	U-Factor	SHGC	Imp S	Storm	Area	Dep	Ove	erhan Separ		Interior S	hade	Scree	ening
1 N 2 N 3 E 4 E 5 S 6 S 7 W 8 W	3 Vinyl 3 Vinyl 4 Vinyl 6 Vinyl 8 Vinyl 10 Vinyl 11 Vinyl 11 Vinyl	Low-E Double 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	0.33 0.33 0.33 0.33 0.33 0.33 0.33	0.22 0.22 0.22 0.22 0.22 0.22 0.22	2 2 2 2 2 2 2 2	222222	90.0ft <sup>2</sup> 36.0ft <sup>2</sup> 20.0ft <sup>2</sup> 2.0ft <sup>2</sup> 15.0ft <sup>2</sup> 4.0ft <sup>2</sup> 15.0ft <sup>2</sup>	1.0 ft 1.0 ft 1.0 ft 7.0 ft 1.0 ft 1.0 ft	6 in 6 in 6 in 6 in 6 in	1.0 ft 1.0 ft 1.0 ft 1.0 ft 1.0 ft 1.0 ft	4 in 4 in 4 in 4 in 4 in 4 in	Non Non Non Non Non Non	e e e e e	No No No No No No No	ne ne ne ne ne ne
						TRA		-AVIIII								
√ # Scope		thod	SLA			ELA		qLA	ACH		CH50			Space(s	s)	
1 Who	lehouse Prop	osed ACH(50)	0.000	)29 11	5000	62.71	-	7.73	0.1027		5.0			All		
\/#	GARAGE									00						
	Floor Area 476 ft²		476 ft²		LAPUS	63 ft			VA	9 :		, it	LAPUS	eu vvai	ii ii iouidu	VII
1	4/0 IL		+10 IL-			MASS	-		×400	9						
√# Mass	з Туре		Area	a	n	Thickne	Bridge Co.	Fu	ımiture Fr	action		s	pace	-		
1.03 1.00 1.00 1.00 1.00 1.00 1.00 1.00	ult(8 lbs/sq.ft.)		0 ft			O ft		- 1000	0.30				Main			

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## **INPUT SUMMARY CHECKLIST REPORT**

					H	EATIN	IG SYS	TEM						
<b>/</b> #	System Type		Sut	otype/Spee	d	AHRI#	Efficie		Capacity kBtu/hr			eatPump- Volt Cur		Block
1	Electric Heat P	ump	N	one/Single	Ĭ.		HSPF:	8.50	30.0		0.00	0.00 0.	00 sys#1	1
					CC	OOLIN	IG SYS	STEM						
<b>/</b> #	System Type		Sub	otype/Spee	d	AHRI#	Effic	iency	Capa kBt		Air Flow cfm	SHF	R Duct	Block
1	Central Unit			None/Sing	le		SEEF	R:14.0	30.0		900	0.85	sys#1	1
					HO	rwa1	TER SY	STE	М					
<b>/</b> #	System Type	Subtype		Location	9	EF(UEF	E) Cap	Us	se Set	Pnt Fix	ture Flow	Pipe In:	s. Pipe	elength
1	Electric	None		Garage		0.92 (0.9	92) 40.00 g	al 60	gal 120	deg Si	tandard	None		65
	Recirculation System		c Control Type	į.	Loop length	Branch length					Equal Flow	DWHF Eff	R Othe	r Credits
1	No			77.27	NA	NA	NA	No		NA	NA	NA	Non	e
						DI	UCTS							
√Buc #		ply R-Value A		Retu ation F	um R-Value		Leakage	Туре	Air Handle	CFM 2 er TOT			RLF H	HVAC# eat Cool
1/	Attic	6.0 305	ft <sup>2</sup> Attic		6.0	76 ft²	Prop. Lea	k Free	Garag	je		0.03	0.50	1 1
					T	EMPE	RATU	RES						
Prog Cool Heat Vent	ting [X] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[ ] Apr [ ] Apr [X] Apr	[] N[] N[]	/lay [	ans: N X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Au [] Au	g []Se	ep []	Oct [	[] Nov X] Nov X] Nov	[] Dec [X] Dec [] Dec
	ermostat Schedu hedule Type	ule: HERS	2006 Refere 1	nce 2	3	4	5	6	Hours 7	8	9	10	11	12
Co	poling (WD)	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
Co	poling (WEH)	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
He	eating (WD)	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
Не	eating (WEH)	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

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# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX\* = 95

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

,Lake City,FL,

1. New construction or e	xisting No	ew (From Plans)	10. Wall Types(1680.0 sqft.)	Insulation Area
2. Single family or multip	ole family	Detached	a. Frame - Wood, Exterior	R=13.0 1473.00 ft <sup>2</sup>
3. Number of units, if mu	ultiple family	1	<ul><li>b. Frame - Wood, Adjacent</li><li>c. N/A</li></ul>	R=13.0 207.00 ft <sup>2</sup> R= ft <sup>2</sup>
Number of Bedrooms		3	d. N/A	R= ft <sup>2</sup>
5. Is this a worst case?		No	11. Ceiling Types(1524.0 sqft.)	Insulation Area
			a. Under Attic (Vented)	R=30.0 1524.00 ft <sup>2</sup>
<ol><li>Conditioned floor area</li></ol>		1524	b. N/A	R= ft <sup>2</sup>
Conditioned floor area	a below grade (ft²)	0	c. N/A	R= ft <sup>2</sup>
7. Windows**	Description	Area	12. Ducts, location & insulation level	R ft²
a. U-Factor:	Dbl, U=0.33	197.00 ft <sup>2</sup>	a. a. Sup: Attic, Ret: Attic, AH: Ga	arage 6 304.8
SHGC:	SHGC=0.22	•	b.	
b. U-Factor:	N/A	ft <sup>2</sup>	С.	
SHGC:		2	13. Cooling Systems	kBtu/hr Efficiency
c. U-Factor:	N/A	ft²	a. Central Unit	30.0 SEER:14.00
SHGC:	Overhana Denth	1.957 ft		
Area Weighted Average		0.220	14. Heating Systems	kBtu/hr Efficiency
Area Weighted Average			a. Electric Heat Pump	30.0 HSPF:8.50
8. Skylights	Description	Area	the state of the s	O INTI
U-Factor:(AVG)	N/A	N/A ft <sup>2</sup>	(8)	A BOUL
SHGC(AVG):	N/A		15. Hot Water Systems	Co. PE
<ol><li>Floor Types</li></ol>	Insula		a Flectric	Cap: 40 gallons EF: 0.920
<ul> <li>a. Slab-On-Grade Edge</li> </ul>			u. Liouno	EF 0.920
b. N/A	R=	ft <sup>2</sup>	b. Conservation features	Mone None Pstat
c. N/A	R=	ft <sup>2</sup>	15.00	Mone None
			16. Credits	Pstat
			<u> </u>	Mone None Pstat
				MINER

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:

Address of New Home:

Date:

City/FL Zip: Lake City,FL,

\*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.