#### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Hart Residence Street: 159 SW Governors Glen City, State, Zip: Lake City, FL, 32024 Owner: Isaac & Marlene Hart	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction:
Design Location: FL, Gainesville	County: Columbia(Florida Climate Zone 2)
<ol> <li>New construction or existing</li> <li>Single family or multiple family</li> <li>Number of units, if multiple family</li> <li>Number of Bedrooms</li> <li>Is this a worst case?</li> <li>Conditioned floor area above grade (ft²)</li> <li>Conditioned floor area below grade (ft²)</li> <li>Windows(355.0 sqft.)</li> <li>U-Factor:</li> <li>SHGC:</li> <li>SHGC=0.25</li> <li>Detached</li> <li>Detached</li> <li>1</li> <li>Q</li> <li>Arew</li> <li>355.00 ft²</li> <li>SHGC=0.25</li> </ol>	10. Wall Types (2676.7 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2420.00 ft² b. Frame - Wood, Adjacent R=13.0 256.67 ft² c. N/A d. N/A 11. Ceiling Types (2836.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 2836.00 ft² b. N/A c. N/A 12. Roof (Comp. Shingles, Vented) Deck R=0.0 3246 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 675
b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.721 ft Area Weighted Average SHGC: 0.250  8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A  9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 2701.00 ft² b. N/A R= ft² c. N/A R= ft²	b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 33.7 SEER:15.50  15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 42.0 HSPF:8.80  16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CV, Pstat
Glass/Floor Area: 0.131 Total Proposed Modif Total Basel	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY:  6 / 6 / 2023  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.  OWNER/AGENT:  DATE:  - Compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the air handler unit of the compliance requires certification by the compliance requires certification certific	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.
- Default duct leakage does not require a Duct Leakage Test Report.
- 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 7.00 ACH50 (R402.4.1.2).

				PRO	JECT								
	Hart Residence User Isaac & Marlene Ha Columbia County Detached New (From Plans) 2023	rt	Bedroom Condition Total Sto Worst Ca Rotate A Cross Ve Whole Ho Terrain: Shielding	ned Area: ries: ise: ngle: ntilation: ouse Fan:	4 2701 1 No 0 Yes No Suburba Suburba		Lot #: Block/ PlatBo Street Count		 on:  159 \$ Colur	mbia City,	ess vernors G	Glen	
CLIMATE													
Design Location		Tmy Site		Desi 97.5%	ign Temp 2.5%		Design nter Su		Heating Degree D		Desigr Moisture		ily temp nge
FL, Gainesville	F	L_GAINESVILLE_	REGIONA	32	92	-	70	75	1305.5		51	Medi	um
BLOCKS													
Number	Name	Area	Vo	lume									
1	Block1	2701	243	309 cu ft									
				SPA	CES								
Number	Name	Area	Volume	Kitchen	Occupa	nts	Bedro	oms	Finishe	d	Cool	ed H	leated
1	1st Floor	2701	24309	Yes	8		4		Yes		Ye	es .	Yes
				FLO	ORS		(T	otal Ex	rposed	l Are	a = 27	'01 sq	.ft.)
# Floor Type	е	Space	Exposed	Perim	Perimeter R	-Value	Area	U-Facto	or Joist R	-Value	Tile \	Wood	Carpet
1 Slab-On-Gra	ade Edge Ins	1st Floor	27	2	0		2701 ft	0.304	4		0.00	0.00	1.00
				RO	OF								
√# Type		Materials		loof irea		oof olor	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1 Gable or she	ed C	omposition shingle	es 32	46 ft²	504 ft <sup>2</sup> Med	dium	Υ	0.96	No	0.9	No	0	33.69
				AT	TIC								
√# Type		Ventilation	1	Vent F	Ratio (1 in)	Are	ea	RBS		IRCC			
1 Partial cathe	edral ceiling	Vented			300	270	1 ft²	Υ		N			
				CEIL	ING		(T	otal Ex	rposed	Are	a = 28	36 sq	.ft.)
√# Ceiling Ty	/ре		Space	R-V	alue Ins.	Туре	Area	U-F	actor Fi	raming	Frac.	Trus	s Type
1 Flat ceiling u	under attic(Vented)	1	st Floor	38	3.0 Doub	le Batt	2836.0	ft² 0.	024	0.11	l	W	ood/

					WALLS	3		(Tota	al Exp	osed /	Area =	267	7 sq.f	ft.)
√# Ornt	Adjacent To	Wall Type	Spa	ice	Cavity R-Value	Width Ft In		leight t In	Area sq.ft.	U- Factor	Sheath R-Value		Solar Absor.	Below Grade
1 S 2 W 3 S 4 E 5 S 6 E 7 N 8 E 9 N 11 N 12 E 13 N 14 E 15 N 16 W 17 N 18 W 19 S	Exterior	Frame - Wood		st Floor st	13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	22.0 4 10.0 0 14.0 0 12.0 0 6.0 0 24.0 0 6.0 0 14.0 8 14.0 0 10.0 0 12.0 0 3.0 0 15.0 4 4.0 8 29.0 8 25.0 8	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.0 0 0.0 0 0.	223.3 100.0 140.0 120.0 60.0 240.0 60.0 146.7 140.0 100.0 120.0 30.0 153.3 46.7 296.7 256.7	0.084 0.084 0.084 0.084 0.084 0.084 0.084 0.084 0.084 0.084 0.084 0.084 0.084		0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 %
<b>DOORS</b> (Total Exposed Area = 48 sq.ft.)														
√# Ornt	Adjacent 1	To Door Type	Spa	ice	Stor	rms	U.	-Value		/idth t In		ight In	Are	ea
1 S	Exterior Garage	Insulated Insulated		Floor Floor		one one		0.46 0.46	3.00 3.00		8.00 8.00	0 0	24.0 24.0	
				V	VINDOV	VS		(To	tal Ex <sub>l</sub>	oosed	Area	= 35	5 sq.f	ft.)
√# Ornt	Vall ID Frame	Panes	NFRC U-Fact	or SHGC	Imp Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	Overh Depth (ft)	•	Interior	Shade	Screen
1 S 2 S 3 E 4 E 5 N 6 N 7 E 8 N 9 N 10W 11W 12W 13W	3 Vinyl 6 Vinyl 9 Vinyl 11 Vinyl 12 TIM 13 Vinyl 15 Vinyl 16 Vinyl 18 Vinyl 18 Vinyl	Low-E Double	Y 0.36 Y 0.36	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25		18.0 33.0 4.0 4.0 18.0 72.0 48.0 54.0 36.0 20.0 12.0 20.0 16.0	1 2 1 1 1 4 2 3 2 2 4 1 1	3.00 3.00 2.00 4.00 3.00 3.00 3.00 3.00 2.00 2.00 4.00	6.00 5.50 2.00 1.00 6.00 6.00 6.00 6.00 5.00 1.50 5.00 4.00	8.5 1.0 1.5 1.5 1.0 16.5 8.5 1.5 1.0 1.5 1.5 1.5	1.0 0.5 1.0 1.0 2.0 1.0 1.0 2.0 1.0 1.0 1.0 1.0	Noi Noi Noi Noi Noi Noi Noi Noi Noi	ne	None None None None None None None None
√# Scope	R.A4	hod	CI A		ILTRA			A C L I	۸ ا	0 Spac	0(0)	Infilter	ion Tost	Volume
	Met lehouse Propo	osed ACH(50)	0.00040	2836	155.59	EqLA 292.1		.1438	7.0	O Spac		24309		volume

						GA	RAGE							
<b>\</b> #	Floor Area Roof Area E			Exposed Wall Perimeter			Avg. Wall Height			Expos	Exposed Wall Insulation			
1	796 ft	.2	7	96 ft²			91 ft			10 ft			1	
						M	ASS							
<b>V</b> #	Mass Type			Area		Т	hickness		Furniture Fr	action		Space		
1	Default(8 lbs/sq.f	ft.)		0 ft²			0 ft		0.30		1	Ist Floor		
HEATING SYSTEM														
<b>V</b> #	System Type		Sub	otype/Spee	ed	AHRI#	Efficien		apacity Btu/hr E		nermal H lower	leatPump- Volt Cu		s Block
1	Electric Heat Pur	тр	No	one/Single			HSPF: 8	3.80	42.0	(	0.00	0.00 0.	.00 sys#	1 1
COOLING SYSTEM														
<b>V</b> #	System Type		Sub	otype/Spee	ed	AHRI#	Effici	ency	Capaci kBtu/h		Air Flow cfm	SHF	R Duc	t Block
1	Central Unit			None/Sing	le		SEER	::15.5	33.7		1020	0.70	O sys#	1 1
HOT WATER SYSTEM														
<b>V</b> #	System Type	Subtype		Location		EF(UEF)	) Сар	Use	e SetPn	t Fixtu	ure Flow	Pipe In	ıs. Pi	pe length
1	Electric	None		1st Floor		0.92 (0.92	2) 50.00 ga	al 40 g	al 120 de	g Sta	andard	None	•	12
	Recirculation System		Control /pe		Loop length	Branch length	Pump power	DWF	IR Facili Conne		Equal Flow	DWHF Eff	R Oth	er Credits
1	No				NA	NA	NA	No	N/	4	NA	NA	No	one
						DL	JCTS							
V #		y Value Are		Ret ation		 e Area	Leakage	Туре	Air Handler	CFM 25 TOT	5 CFM OU		RLF	HVAC # Heat Cool
1 A	attic	6.0 675 ft	<sup>2</sup> Attic		6.0	135 ft²	Default Le	akage	1st Floor	(Default	t) (Defau	lt)		1 1
	TEMPERATURES													
Progr Cooli Heati Venti	ng [X] Jan	tat: Y [] Feb [X] Feb [] Feb	[ ] Mar [X] Mar [X] Mar	[ ] Apr [ ] Apr [X] Apr	1 [ ] 1 [ ]	May [	ns: N (] Jun ] Jun ] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Se [] Se <sub>[</sub>	p []	] Oct	[ ] Nov [X] Nov [X] Nov	[] Dec [X] Dec [] Dec
	ermostat Schedule nedule Type	e: HERS 20	006 Referer 1	ice 2	3	4	5	6	lours 7	8	9	10	11	12
Co	oling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	87	0 80 8 78
Co	oling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	8 78 8 78

FORM R405-2020

TEMPERATURES(Continued)													
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

## ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX\* = 96

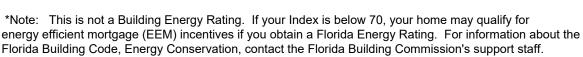
The lower the EnergyPerformance Index, the more efficient the home.

159 SW Governors Glen, Lake City, FL, 32024

<ol> <li>New construction or exist</li> </ol>	sting New (Fi	rom Plans)	10. Wall Types(2676.7 sqft.)	Insulation Area
2. Single family or multiple	family	Detached	a. Frame - Wood, Exterior	R=13.0 2420.00 ft <sup>2</sup>
3. Number of units, if multip	ole family	1	b. Frame - Wood, Adjacent c. N/A	R=13.0 256.67 ft <sup>2</sup>
4. Number of Bedrooms		4	d. N/A	
5. Is this a worst case?		No	11. Ceiling Types(2836.0 sqft.)	Insulation Area
<ol><li>Conditioned floor area a Conditioned floor area b</li></ol>		2701 0	<ul><li>a. Flat ceiling under att (Vented)</li><li>b. N/A</li><li>c. N/A</li></ul>	R=38.0 2836.00 ft <sup>2</sup>
a. U-Factor: [SHGC:	Description Dbl, U=0.36 SHGC=0.25 N/A	Area 355.00 ft <sup>2</sup> ft <sup>2</sup>	<ul><li>12. Roof(Comp. Shingles, Vented)</li><li>13. Ducts, location &amp; insulation leve</li><li>a. Sup: Attic, Ret: Attic, AH: 1st Flob.</li><li>c.</li></ul>	$R  ext{ft}^2$
c. U-Factor:	N/A	ft²	14. Cooling Systems a. Central Unit	kBtu/hr Efficiency 33.7 SEER:15.50
Area Weighted Average O Area Weighted Average S	• .	5.721 ft 0.250		
U-Factor:(AVG)	Description N/A N/A	Area N/A ft²	<ol> <li>Heating Systems</li> <li>Electric Heat Pump</li> </ol>	kBtu/hr Efficiency 42.0 HSPF:8.80
<ul><li>9. Floor Types</li><li>a. Slab-On-Grade Edge In</li><li>b. N/A</li><li>c. N/A</li></ul>	Insulation R= 0.0 R= R=	Area 2701.00 ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup>	<ul><li>16. Hot Water Systems</li><li>a. Electric</li><li>b. Conservation features</li></ul>	Cap: 50 gallons EF: 0.920
			b. Conservation leatures	None
			17. Credits	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: \_\_\_\_\_ Date: \_\_\_\_\_ 
Address of New Home: 159 SW Governors Glen City/FL Zip: Lake City,FL,32024



\*\*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: 159 SW Governors Glen								
City: Lake City State	e: 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 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 sha the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Cal	` '							
CFM(50) x 60 ÷ 24309 = ACH(50)  PASS  When ACH(50) is less than 3, Mechanical Ventilation is 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 theode 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								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							