FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

		1 10103310116	ar Regulation - Residential Performance Meth	<u> </u>
	s Residence		Builder Name: Gibraltar Contracting LLC	
Street:	OH. EL 20055		Permit Office: Columbia County	
City, State, Zip: Lake Owner: Mos	e City, FL, 32055		Permit Number: Jurisdiction:	
	S Gainesville		County: Columbia(Florida Climate Zone 2)	
New construction or e	existing New (F	rom Plans)		Area
Single family or multip	ole family	Detached	a. Frame - Wood, Exterior R=13.0 2482.5 b. Frame - Wood, Adjacent R=13.0 336.0	_
3. Number of units, if mu	ıltiple family	1	c. N/A	IU II
4. Number of Bedrooms		4	d. N/A	
5. Is this a worst case?		No	9 71 - (Area
6. Conditioned floor area	a above grade (ft²)	2936	a. Flat ceiling under att (Vented) R=38 0 3229.6 b. N/A	00 ft²
Conditioned floor area	a below grade (ft²)	0	c. N/A	
7. Windows(369.3 sqft.)		Area		9 ft²
a U-Factor:	Dbl, U=0.36	369.33 ft ²	13. Ducts, location & insulation level R	ft²
SHGC:	SHGC=0.25	ft ²	, , , , , , , , , , , , , , , , , , ,	734
b. U-Factor: SHGC [.]	N/A	11.	b. c.	
c. U-Factor:	N/A	ft²	14 Cooling Systems all Alexander Effici	encv
SHGC:			a. Central Unity	
Area Weighted Average		6.251 ft	101	
Area Weighted Average	e SHGC [.]	0.250	15. Heating Systems I Copy Builting Effici	
8. Skylights	Description	Area	15. Heating Systems 16 Cop kBtuilin Effici a. Electric Heat Pump 48.5 HSPF2:	
U-Factor:(AVG) SHGC(AVG):	N/A N/A	N/A ft ²	Code	0 00
, .	Insulation	Aroa	1	
9. Floor Types a. Slab-On-Grade Edge		Area 2936.00 ft²	16. Hot vvater Systems	
b. N/A	R=	ft ²	a. PropaneTankless	
c. N/A	R=	ft²	b. Conservation features	.590
				Vone
			17. Credits CV, I	⊃stat
Glass/Floor Area. 0.126	Total Pr	roposed Modifie	ed Loads: 68.28	
		Total Baselin	ne Loads: 72.60 PASS	
		بصنعت فسنطنان الماليين	equal to 95 percent of the annual total loads of the standard reference design in order to c	omply
I hereby certify that the p this calculation are in cor			Review of the plans and specifications covered by this color latting indicates compliance.	
Code	The state of the s	Lifergy	calculation indicates compliance	A STAN
	WALL CONTRACTOR	`	with the Florida Energy Code.	18
PREPARED BY:	10/000 114	}	Before construction is completed	1811
DATE2	: / 10 / 2025	/	this building will be inspected for compliance with Section 553.908	[Z]
υΛΙΕ			Florida Statutes.	*
I hereby certify that this b	ouilding, as designed, is in	n compliance		TITO
with the Florida Energy C	Code.	•	BUILDING OFFICIAL:	•
OWNER/AGENT.			BOILDING OF FIGURE:	_
DATE ⁻			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).

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

				PROJ	ECT							
Title Building Type Owner Builder Home Builder Name Permit Office Jurisdiction Family Type New/Existing Year Construct Comment	Gibraltar Conti Columbia Cou Detached New (From Pla	racting LLC nty	Total S Worst Rotate Cross	ioned Area Stories Case Angle Ventilation House Fan	4 2936 1 No 0 Yes No Suburba Suburba	Lot Bloc Plat Stre Cou City	ck/SubDivis Book et	Colur	City,	,		
				CLIM	ATE							
/ Design Location		Tmy Site		Desiç 97 5%	n Temp 2 5%		gn Temp Summer	Heating Degree D		Design Moisture		ily temp nge
FL, Gaines\	ville	FL_GAINESVILI	E_REGIO	NA 32	92	70	75	1305 5		51	Medi	um
	#			BLO	CKS							
Number	Name	Area		Volume		<u> </u>		· · · · · · · · · · · · · · · · · · ·				
1	Block1	2936		26424 cu ft		·····					e grant	
				SPA	CES							
Number	Name	Area	Volum	e Kitchen	Occupar	its Bed	Irooms	Finishe	ed	Cool	ed h	leated
1	1st Floor	2936	2642	24 Yes	8		4	Yes		Ye	S	Yes
				FLO	ORS		(Total E	xposed	l Are	a = 29	36 sq	.ft.)
# Floor	Туре	Space		rposed / erim(ft)		R-Value erim Joist	U-Factor	Slab In Vert/Hori		Tile \	Nood	Carpet
1 Slab-Or	-Grade Edge Ins	1st Floor	30	3 67 293	3 sqft 0	0	0 304	2 (ft).	/0 (ft)	0 00	0 00	1 00
				RO	OF							
/# Type		Materials	Roof Area		ming Ro			SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
1 Hip	Com	nposition shingles	3399 ft²	0 ft² 0	11 Med	lium Y	0 96	No	09	No	0	30 26
				ΑΤ	TC .							
# Type		Ventila	tion	Vent R	atio (1 in)	Area	RBS		IRCC			
1 Full attio		Vente	ed	;	300	2936 ft²	Y		N			-
				CEIL	ING		(Total E	xposed	Are	a = 32	30 sq	ı.ft.)
/# Ceilin	д Туре		Space	R-Va	lue Ins	Гуре А	rea U-	Factor F	raming	Frac.	Trus	ss Type
4 = 4	ing under attic(Ven	tad)	1st Floor	38	0 Doubl	e Batt 322	Q 6#2 O	0 024	0 1		·····	Vood

INPUT SUMMARY CHECKLIST REPORT

						WAI	<u>LS</u>			(7	ota	Expo	sed /	Area :	= 281	9 sq.1	ft.)
√# Ornt	Adjacent To	Wall Type		Space		Cavi R-Va	•	Width Ft I	n	Heig Ft		Area sq ft	U- Factor	Sheath R-Valu		Solar Absor	Below Grade
1 S	Exterior Exterior	Frame - Wood		1st	Floor Floor	13 13	0	20	2	9 0 9 0	0	145.5 18 0	0 084		0 23 0 23	0 75 0 75	0 % 0 %
3 S	Exterior				Floor	13			0	10 0	0	80 0	0 084		0 23	0 75	0 %
4 W	Exterior				Floor	13			0	10 0	0	20 0	0.084		0 23	0 75	0 %
5 S	Exterior				Floor	13			4	10 0	0	133 3	0 084		0 23	0 75	0 %
6 E	Exterior Exterior				Floor Floor	13 13			0 6	10 0 10 0	0 0	20 0 95 0	0 084 0 084		0 23 0 23	0 75 0 75	0 %
8 E	Garage	Frame - Wood			Floor	13			0	90	0	108 0	0 084		0 23	0 75	0 % 0 %
9 S	Garage	Frame - Wood			Floor	13			4	90	Ö	228 0			0 23	075	0 %
10 E	Exterior				Floor	13			10	90	ŏ	232 5	0 084		0 23	0 75	0 %
11 N	Exterior				Floor	13			8	10 0	ő	376 7			0 23	0 75	0%
12 W	Exterior				Floor	13			Ō	10 0	Ö	80 0	0 084		0 23	0 75	0 %
13 N	Exterior				Floor	13			6	100	0	185 0			0 23	0 75	0 %
14 E	Exterior	Frame - Wood			Floor	13			8	90	0	321 0			0 23	0 75	0 %
15 N	Exterior	Frame - Wood		1st	Floor	13	0	16 0	2	90	0	145 5	0 084		0 23	0 75	0 %
16 W	Exterior	Frame - Wood		1st	Floor	13	0	70 0	0	90	0	630 0	0 084	•	0 23	0 75	0 %
DOORS (Total Exposed Area = 40 sq.ft.)																	
√# Ornt	Adjacen	nt To Door Type		Space			Storr	ns		U-Va	lue		/idth t In		eight : In	Are	ea
1 S	Exterio	or Insulated		1st Flo			No	ne.		0.	46	3 00) 0	6 00	8	20	∩ft²
2 S	Garag			1st Flo			No				46	3 00		6 00	8	20	
WINDOWS (Total Exposed Area = 369 sq.ft.)																	
√# Ornt	Wall ID Frame	Panes	NFRC U	J-Factor	SHGC	Imp S	torm	Total Area (ft²)	Sa Ur		/idth (ft)	Height (ft)	Overl Depth (ft)		Interior	Shade	Screen
1 S	1 Vinyl	Low-E Double	Y	0 36	0 25	N	N	15 0			00	5 00	15	10	No		None
2 S	3 TIM	Low-E Double	Y	0 36	0 25	N	N	13 3			00	6 67	95	10	No		None
3 S 4 S	3 Vinyl	Low-E Double	Y	0 36	0 25	N	N	80			33	1 50	95	10	No		None
4 S 5 S	5 Vinyl 7 Vinyl	Low-E Double Low-E Double	Y Y	0 36 0 36	0 25 0 25	N N	N N	36 0 6 0	:		00	6 00 3 00	75 15	1 0 1 0	No No		None None
6 E	10 Vinyl	Low-E Double	Ý	0 36	0 25	N	N	30			00	1 00	15	10	No		None
	10 Vinyl	Low-E Double	Ý	0 36	0 25	N	Ñ	16 0			00	4 00	15	10	No		None
8 N	11 Vinyl	Low-E Double	Ý	0 36	0 25	N	N	72 0			00	6 00	15	10	No		None
9 N	11 Vinyl	Low-E Double	Y	0 36	0 25	N	N	60			00	3 00	15	10	No		None
10W	12 TIM	Low-E Double	Υ	0 36	0 25	N	Ν	24.0			00	8 00	10 5	10	No	ne	None
11N	13 Vinyl	Low-E Double	Y	0 36	0 25	N	N	128 0			00	8 00	10 5	10	No		None
12N	15 Vinyl	Low-E Double	Y	0 36	0 25	N	N	60	•		00	3 00	15	10	No		None
13W 14W	16 Vinyl 16 Vinyl	Low-E Double Low-E Double	Y Y	0 36 0 36	0 25 0 25	N N	N N	30 0 6 0			00	5 00 3 00	15 15	10 10	No No		None None
1-7 V	10 VIIIyi	LOW-L DOUBLE		0 00					-	1 4	. 00	3 00	13	10	140	110	None
				la de la compania de la compania	سر نیز الناب ۱۹۸۷ ای	ILTF	RAT	ION		24.4.77724	· · · · · · · · · · · · · · · · · · ·		ta india		***************************************		
√ # Scope	→ M	ethod	SLA	A С	FM50	EL	.A	EqL	.A 	AC	H 	ACH50) Spac	:e(s)	Infiltra	tion Tes	t Volume
1 Wh	olehouse Pro	posed ACH(50)	0 000)40	3083	169	13	317	53	0 14	38	7 0	A	li 	26424	cu ft	
					(GAR.	AGI										
√# Floo	or Area Le	ength Width	ì	Roof Are	a Ex	cposed I	Perime	eter /	∖rea l	Under (Jncon	d Avg	Wall He	ight	Expose	d Wall Ir	sulation

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

	MASS																	
\checkmark	#	# Mass Type Area			Thickness			Fui	Furniture Fraction			Space						
	1		Default(8 lbs/s	qft)		O ft²			O ft			0 30		•	1st Floc	r		
							Н	EATIN	VG SY	'STEI	VI							
\checkmark	#		System Type		Sı	ubtype/Spec	ed	AHRI#	Effic	iency	Capa kBtu	•		hermal H Power	leatPur Volt			Block
	1		Electric Heat F	Pump	1	None/Single			HSPF	2 8 80	45	5		0 00	0 00	0 00	sys#1	1
							C	OOLII	VG SY	STE	M							
\checkmark	#		System Type		Sı	ubtype/Spec	ed	AHRI#	Εſ	ficiency		Capacit kBtu/hi	•	Air Flow cfm	. (SHR	Duct	Block
	1		Central Unit			None/Sing	le		SE	ER2·16 5	35	5		1080	(0 75	sys#1	1
							HO	T WA	TER S	SYST	EM							
\checkmark	#		System Type	Subtype		Location	1	EF(UE	F) Ca	р	Use	SetPnt	Fixt	Flow	Trap	Pipe	e Ins	Pipe length
	1		Propane	Tankless		Exterior		0 59 (0	59) 10	gal 4	10 gal	120 de	g Sta	ndard	Yes	No	one	12
		I	Recirculation System		Control ype		Loop length	Brand lengt		•	WHR	Facili Conne		Equal Flow	DWHR Eff		Other C	redits
	_ 1		No				NA	NA	N	A N	lo	N/	\	NA	NA		Nor	10
								D	UCTS	>								
/	Du #	ıct		upply R-Value Ar		Ret cation	urn R-Value		Leaka	ge Type		AHU ocation	CFM: TOT O		N A JT SE	HU ALED	RLF	HVAC# Heat Cool
	_ 1	At	tic	6 0 734 f	[2	Attic	60	147 ft²	Default	Leakage	9	Garage	(Defau	lt) (Defau	ult)	,		1 1
	TEMPERATURES																	
1	Pro Cod Hea Ver	olin atin	g [X] Jan	ostat Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	įj	Ceiling F May May May	ans N [X] Jun [] Jun [] Jun	[X] Ji [] Ji [] Ji	ıl	[X] Aug [] Aug [] Aug	[X] Se [] Se [] Se	p [] Oct] Oct K] Oct	[X]	Nov Nov Nov	[] Dec [X] Dec [] Dec
\checkmark			rmostat Sched edule Type	ule HERS 2	006 Refere 1	ence 2	3	4	5	6	Hou	rs 7	8	9	1	0	11	12
	_ C	Coo	ling (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
	_ c	00	ling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78		78 78	78 78	78 78	78 78	3	78 78	78 78	78 78
	_	lea	ting (WD)	AM PM	66 68	66 68	66 68	66 68	66 68		88 88	68 68	68 68	68 68	3	68 68	68 66	68 66
	_	lea	ting (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	i (88 88	68 68	68 68	68 68	3	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 94

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

,Lake City,FL,32055

1. Ne	ew construction or ex	isting	New (From Plans)	10	Wall Types (2818.5 sqft)	Insulatio	
2 Sin	ngle family or multiple	e family	Detached		Frame - Wood, Exterior	R=13.0	2482.50 ft ²
3. Nu	mber of units, if mult	iple family	1		Frame - Wood, Adjacent N/A	R=13.0	336.00 ft ²
4. Nu	ımber of Bedrooms		4		N/A		
5. ls t	this a worst case?		No		Ceiling Types(3229.6 sqft.)	Insulatio	
	onditioned floor area and itioned floor area		-	b.	Flat ceiling under att (Vented) N/A N/A	R=38.0	3229.60 ft ²
a. U SH b. U	ndows** I-Factor [.] IGC: I-Factor. IGC.	Description Dbl, U=0.36 SHGC=0.25 N/A	Area 369.33 ft² ft²	12 13. a.	Roof(Comp. Shingles, Vented) D Ducts, location & insulation level Sup. Attic, Ret: Attic, AH: Garage		3399 ft² R ft² 6 734
c. U SH Area	-Factor. IGC: I Weighted Average I Weighted Average		ft ² h: 6 251 ft 0.250	14.	Cooling Systems Central Unit	kBtu/hr 35.5 S	Efficiency SEER2:16.50
U-F	ylights Factor:(AVG) IGC(AVG):	Description N/A N/A	Area N/A ft ²		Heating Systems Electric Heat Pump	kBtu/hr 45.5	Efficiency HSPF2 ⁻ 8.80
			• •	a b	Hot Water Systems PropaneTankless Conservation features Credits	С	ap: 1 gallons EF: 0.590 None
				17	Ciedita		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. _ Address of New Home:

City/FL Zip: Lake City,FL,32055

*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 2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:						
Job Information							
Builder: Gibraltar Contracting LLC Community:	Lot: 29						
Address:							
City: Lake City State	e: FL Zip: 32055						
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	sted and verified as having an air leakage rate of not exceeding 7 air nate Zones 1 and 2.						
PERFORMANCE or ERI METHOD-The building or dwelling unit sha the selected ACH(50) value, as shown on Form R405-2023 (Performance) ACH(50) specified on Form R405-2023-Energy Cal							
x 60 ÷ 26424 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation is must be verified by building department							
R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8 Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403 6 1 of this code and Section M1507 3 if the Florida Building Code, Residential 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 (7), Florida 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 deficial Testing shall be performed at any time after creation of all penetrations of the building thermal envelope							
During testing 1 Exterior windows and doors, fireplace and stove doors shall be closed, b 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 7 If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home							
Testing Company							
Company Name I hereby verify that the above Air Leakage results are in accordance with t requirements according to the compliance method selected above	Phone						
Signature of Tester:	Date of Test:						
Printed Name of Tester:	<u> </u>						
License/Certification #:	Issuing Authority						