## RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

## Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2022 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

	This checklist
	Form R405-2022 report
	Input summary checklist that can be used for field verification (usually four pages/may be greater)
	Energy Performance Level (EPL) Display Card (one page)
	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.
	Mandatory Requirements (five pages)
Red	quired prior to CO:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed 2022 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2020 Duct Leakage Test Report - Performance Method (usually one page)

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Coker Residence Street: 636 Southeast Baya Dr. City, State, Zip: Lake City, FL, 32025 Owner: Coker Design Location: FL, Gainesville	Builder Name: Permit Office: Lake City Permit Number: Jurisdiction: 221200 County: Columbia(Florida Climate Zone 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 above grade (ft²) Conditioned floor area below grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(144.7 sqft.) Description a. U-Factor: SHGC: SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: C. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights U-Factor:(AVG) SHGC(AVG): N/A SHGC(AVG): N/A  9. Floor Types Insulation a. Slab-On-Grade Edge Insulation B. N/A C. N/A R=  10  10  11  11  12  16  16  12  16  12  16  16	10. Wall Types(1457.2 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types(1612.0 sqft.) b. N/A c. N/A c. N/A c. N/A c. N/A c. N/A c. N/A 12. Roof(Comp. Shingles, Vented) 13. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Cond Spc b. c. 14. Cooling Systems a. Central Unit 15. Heating Systems a. Electric Heat Pump 16. Hot Water Systems a. Electric b. Conservation features 17. Credits 18. Insulation Area R=19.0 1457.20 ft² R=19.0 1612.00 ft² R=38.0
Glass/Floor Area: 0.090 Total Proposed Mod Total Bas	lified Loads: 33.59 eline Loads: 41.62
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  Imbrie M Digitally signed by Imbrie M Packard Date: 2023.04.12  DATE:  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	BUILDING OFFICIAL:

- 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 R405-2022S INPUT SUMMARY CHECKLIST REPORT

		PRO	DJECT								
Title: Coker Residence Building Type: User Coker Builder Home ID: Builder Name: Permit Office: Lake City Jurisdiction: 221200 Family Type: New/Existing: Year Construct: 2023 Comment: Seer2, HSF	Plans)	Bedrooms: Conditioned Are Total Stories: Worst Case: Rotate Angle: Cross Ventilatio Whole House F Terrain: Shielding:	1 No 0 n: an: Subi		Address Lot #: Block/Su PlatBool Street: County: City, Sta	ıbDivision «:		bia City,	s t Baya D	r.	
		CLI	MATE								
/ Design Location	Tmy Site	97.	esign Tem 5% 2.5		Design T nter Sun		Heating egree Da	ays N	Design loisture	Dail Ran	y temp ge
FL, Gainesville	FL_GAINESVILLE_	REGIONA 3	2 92	7	0	75	1305.5	5	1	Mediu	m
		BL	ocks								
Number Name	Area	Volume									
1 Block1	1612	12896 cu	ı ft								
		SF	ACES								
V Number Name	Area	Volume Kitch	ien Occ	upants	Bedroo	ms	Finished	d	Coole	ed H	eated
1 Cond Spc	1612	12896 Ye	s	4	3		Yes		Yes	3	Yes
		FL	.oors		(To	otal Ex	posed	Area	a = 16	12 sq	.ft.)
# Floor Type	Space	Exposed Perin	n Perime	er R-Value	Area	U-Factor	Joist R-	Value	Tile V	Vood	Carpet
1 Slab-On-Grade Edge	ns Cond Spc	177	0		1612 ft	0.607	-	-	0.30	0.70	0.00
		F	ROOF								
√# Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1 Hip	Composition shingl	es 1746 ft²	0 ft²	Medium	Υ	0.96	No	0.9	No	0	22.62
		-	ATTIC								
√# Type	Ventilatio	n V	ent Ratio (1	in) Ar	ea	RBS		IRCC			
1 Full attic	Vented		150	161	2 ft²	Υ		N			
		С	EILING	i	(T	otal Ex	posed	d Are	a = 16	612 sc	q.ft.)
# Ceiling Type		Space	R-Value	Ins. Type	Area	u-Fa	actor F	raming	Frac.	Trus	ss Type
Flat ceiling under attic	r(Vented) (	Cond Spc	38.0	Blown	1612.0	)ft² 0.0	024	0.1	1	V	Vood

# FORM R405-2022S INPUT SUMMARY CHECKLIST REPORT

					١	NAL	LS			(Tota	al Exp	osed /	Area =	= 145	7 sq.f	t.)
/ <sub># Ornt</sub>	Adjacent To	Wall Type	S	Space		Cavit R-Va	·	Width Ft In		leight t In	Area sq.ft.	U- Factor	Sheath R-Value		Solar Absor.	Below Grade
1 S	Exterior	Frame - Wood		Cond S	Spc	19.	0 1	11.3 0	8	.0 0	90.6	0.061	0	0.23	0.60	0 %
	Exterior	Frame - Wood		Cond S		19.	0 1	14.0 0	8	.0 0	112.0	0.061	0	0.23	0.60	0 %
	Exterior	Frame - Wood		Cond S		19.		6.3 0	8	.0 0	50.6	0.061	0	0.23	0.60	0 %
	Exterior	Frame - Wood		Cond	11.0	19.		16.2		.0 0	129.4	0.061	0	0.23	0.60	0 %
4 W		Frame - Wood		Cond		19.		11.3		.0 0	90.6	0.061	0	0.23	0.60	0 %
_ 5 N	Exterior			Cond		19.		8.0		.0 0	64.0	0.061	0	0.23	0.60	0 %
6 E	Exterior	Frame - Wood		Cond	2.5	19.		8.0		.0 0	64.0			0.23	0.60	0 %
7 W	Exterior	Frame - Wood				19.		8.0		3.0 0	64.0			0.23	0.60	0 %
8 N	Exterior	Frame - Wood		Cond		19.		5.0		3.0 0	40.3			0.23	0.60	0 %
9 S	Exterior	Frame - Wood		Cond				5.3		3.0 0	42.6			0.23	0.60	0 %
10 S	Exterior	Frame - Wood		Cond		19.				3.0 0	44.0			0.23	0.60	0 %
11 S	Exterior	Frame - Wood		Cond		19				3.0 0	138.6			0.23	0.60	0 %
12 E	Exterior	Frame - Wood		Cond		19					89.4			0.23	0.60	0 %
13 S	Exterior	Frame - Wood		Cond		19		11.2			94.6			0.23	0.60	0 %
14 E	Exterior	Frame - Wood		Cond		19		11.8 (						0.23	0.60	0 %
15 N	Exterior	Frame - Wood		Cond		19		11.2		3.0 0				0.23	0.60	0 %
16 E	Exterior	Frame - Wood		Cond		19		15.5		3.0 0				0.23	0.60	0 %
17 W	Exterior	Frame - Wood		Cond		19				3.0 0				0.23	0.60	0 %
18 N	Exterior	Frame - Wood		Cond	Spc	19	.0	8.0	)	3.0 0	64.0	0.00	1 0	0.20	0.00	5 70
						DOC	RS				(Total	Expo	sed A	rea =	0 sq.	ft.)
7										3-20-XV		Width		eight		
# Ornt	Adjacent	To Door Type	, i	Space			Storn	ns	l	J-Value		Ft In	F	t In	Ar	ea
1 S		Wood		Cond Sp	С		No	ne		0.20	0.1	0 0	0.10	0	0.0	Oft²
					V	/IND	OW	S		(T	otal Ex	kpose	d Area	a = 1	45 sq	.ft.)
/# Ornt	Wall ID Frame	Panes	NFRC U-	Factor	<b>V</b> SHGC			Total Area (ft²)	Same	e Widtl	otal Ex h Height (ft)		rhang		45 sq or Shade	
<u> </u>	ID Frame				SHGC	Imp §		Total Area		e Widtl	n Height (ft)	Over	rhang Sep.	Interio	or Shade	Scree
1 S	ID Frame	Low-E Single	Υ	0.65	SHGC	Imp S	Storm	Total Area (ft²)	Units	e Widti	h Height (ft)	Over Depth (ft)	rhang Sep. (ft)	Interio	or Shade	Scree Ex. 50° Ex. 50°
1 S 2 N	1 Vinyl 5 Vinyl	Low-E Single Low-E Single	Y	0.65 0.65	SHGC 0.25 0.25	Imp S	Storm N N	Total Area (ft²)	Units 1	Widtle (ft)	h Height (ft)	Over Depth (ft)	rhang Sep. (ft)	Interio Drape Drape	or Shade	Ex. 50° Ex. 50°
1 S 2 N 3 N	1 Vinyl 5 Vinyl 8 Vinyl	Low-E Single Low-E Single Low-E Single	Y Y Y	0.65 0.65 0.65	0.25 0.25 0.25	Imp S	Storm N N N	Total Area (ft²) 16.6 16.6 12.5	Units 1 1	3.33 3.33	h Height (ft) 5.00 5.00 5.00	Over Depth (ft) 7.0 2.0	rhang Sep. (ft) 0.5 0.9	Drape Drape Drape	es/blinds	Scree  Ex. 50° Ex. 50° Ex. 50° Ex. 50°
1 S 2 N 3 N 4 N	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 8 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y	0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25	Imp S	Storm N N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 16.6 12.5 12.5	Units	3.33 3.33 2.50	h Height (ft)  5.00 5.00 5.00 5.00	Over Depth (ft) 7.0 2.0 10.0	rhang- Sep. (ft) 0.5 0.9 0.4	Drape Drape N	es/blinds es/blinds lone	Ex. 50° Ex. 50° Ex. 50°
1 S 2 N 3 N 4 N 5 E	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 16 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y	0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3	1 1 1	3.33 3.33 2.50 2.50	5.00 5.00 5.00 5.00 6.67	Over Depth (ft) 7.0 2.0 10.0 10.0	one of the second of the secon	Drape Drape N N	es/blinds es/blinds lone lone lone lone	Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50°
1 S 2 N 3 N 4 N 5 E 6 S	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm N N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3 19.7	1 1 1	3.33 3.33 2.50 2.50 5.00	5.00 5.00 5.00 5.00 6.67 6.58	Over Depth (ft)  7.0 2.0 10.0 10.0 2.0	nhang- Sep. (ft) 0.5 0.9 0.4 0.4 0.9	Drape Drape N N N	es/blinds es/blinds lone lone lone lone es/blinds	Scree Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50°
1 S 2 N 3 N 4 N 5 E 6 S 7 S	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3	1 1 1	3.33 3.33 2.50 2.50 5.00	Height (ft)  5.00 5.00 5.00 5.00 6.67 6.58 5.00	-Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0	nhang- Sep. (ft) 0.5 0.9 0.4 0.4 0.9	Drape Drape N N N	es/blinds es/blinds lone lone lone lone	Scree  Ex. 50°
1 S 2 N 3 N 4 N 5 E 6 S	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm N N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 12.5 12.5 33.3 19.7 16.6 16.6	1 1 1	3.33 3.33 2.50 2.50 5.00 3.33	Height (ft)  5.00 5.00 5.00 5.00 6.67 6.58 5.00	-Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0 7.0	chang- Sep. (ft) 0.5 0.9 0.4 0.4 0.9 0.5 0.5	Drape Drape N N N	es/blinds es/blinds lone lone lone lone es/blinds	Scree  Ex. 50°
1 S 2 N 3 N 4 N 5 E 6 S 7 S 8 N	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl 15 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm  N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3 19.7 16.6 16.6	1 1 1 1 1 1 1	3.33 3.33 2.50 2.50 5.00 3.00 3.33 3.33	Height (ft)  5.00  5.00  5.00  6.50  6.67  6.58  5.00  6.58  5.00	Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0 2.0 2.0	0.5 0.9 0.4 0.4 0.9 0.5 0.5 0.9	Drape Drape N N N Drape Drape	es/blinds es/blinds lone lone lone lone es/blinds	Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50°
1 S 2 N 3 N 4 N 5 E 6 S 7 S	1 Vinyl 5 Vinyl 8 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl 15 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm N N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 12.5 12.5 33.3 19.7 16.6 16.6	1 1 1 1 1 1 1	3.33 3.33 2.50 2.50 5.00 3.33	Height (ft)  5.00  5.00  5.00  6.50  6.67  6.58  5.00  6.58  5.00	Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0 7.0 2.0	0.5 0.9 0.4 0.9 0.5 0.9 0.5 0.9	Drape Drape N N N Drape Drape	es/blinds es/blinds lone lone lone es/blinds es/blinds	Ex. 50% Ex. 50% Ex. 50% Ex. 50% Ex. 50% Ex. 50%
1 S 2 N 3 N 4 N 5 E 6 S 7 S 8 N	1 Vinyl 5 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl 15 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	Storm  N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3 19.7 16.6 16.6	Units  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 3.33 2.50 2.50 5.00 3.00 3.33 3.33	Height (ft)  5.00 5.00 5.00 5.00 6.67 6.58 5.00 ACH	Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0 2.0 2.0 7.0 2.0	0.5 0.9 0.4 0.4 0.9 0.5 0.5 0.9	Drape Drape N N N Drape Drape	es/blinds lone lone lone lone es/blinds	Ex. 50% Ex. 50% Ex. 50% Ex. 50% Ex. 50% Ex. 50%
1 S 2 N 3 N 4 N 5 E 6 S 7 S 8 N	1 Vinyl 5 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl 15 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	N N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3 19.7 16.6 16.6	Units  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 3.33 2.50 2.50 5.00 3.33 3.33	Height (ft)  5.00 5.00 5.00 5.00 6.67 6.58 5.00 ACH	Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0 2.0 2.0 7.0 2.0	0.5 0.9 0.4 0.9 0.5 0.9 0.5 0.9	Drape Drape N N N Drape Drape	es/blinds es/blinds lone lone lone es/blinds es/blinds	Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50°
1 S 2 N 3 N 4 N 5 E 6 S 7 S 8 N	1 Vinyl 5 Vinyl 8 Vinyl 16 Vinyl 9 Vinyl 13 Vinyl 15 Vinyl	Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single Low-E Single	Y Y Y Y Y Y	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp S	N N N N N N N N N N N N N N N N N N N	Total Area (ft²) 16.6 16.6 12.5 12.5 33.3 19.7 16.6 16.6	Units  1 1 1 1 1 1 1 1 1 1 97	3.33 3.33 2.50 2.50 5.00 3.33 3.33 ACH	Height (ft)  5.00 5.00 5.00 5.00 6.67 6.58 5.00 ACH	Over Depth (ft)  7.0 2.0 10.0 10.0 2.0 7.0 2.0 2.0 7.0 2.0	0.5 0.9 0.4 0.9 0.5 0.9 0.5 0.9	Drape Drape N N N Drape Drape	es/blinds es/blinds lone lone lone es/blinds es/blinds	Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50° Ex. 50°

### FORM R405-2022S

# INPUT SUMMARY CHECKLIST REPORT

					HEA	ATING	SYSTI	EM						
/#	System Type	е	Subty	ype/Speed	Al	HRI#	Efficiency	Capa kBtu		Geotherm Powe		oump t Currer		Block
1	Electric Hea	t Pump	Sp	lit/Single			HSPF2: 7.8	0 30	.0	0.00	0.0	0.00	sys#1	1
					CO	OLING	SYST	EM						
/#	System Typ	е	Subt	ype/Speed	А	HRI#	Efficienc	су	Capacity kBtu/hr	Air F		SHR	Duct	Block
1	Central Unit		5	Split/Single			SEER2:1	5.5 30	0.0	90	00	0.75	sys#1	1
					нот	WATE	R SYS	TEM						
/#	System Typ	e Subtype		Location		EF(UEF)	Сар	Use	SetPnt	Fixture F	low	Pipe Ins.	Pipe	elength
1	Electric	None		Cond Spc	0	.93 (0.92)	50.00 gal	60 gal	120 deg	Standa	ard	None		89
	Recirculatio System		c Control Type		Loop	Branch length	Pump	DWHR	Facilitie Connecte	100		DWHR Eff	Othe	r Credits
1	No				NA	NA	NA	No	NA	NA		NA	Nor	ne
											THE OWNER OF TAXABLE PARTY.			
						DU	CTS							
/ Duc	ct Location	Supply R-Value A		Retu	ırn R-Value	-	CTS Leakage Ty	/ре	Air Handler	CFM 25 TOT	CFM 25 OUT	5 QN	RLF H	
/#		R-Value A				Area				тот	OUT		RLF H	leat Coo
/#	Location	R-Value A	rea Loca		R-Value 6.0	Area	Leakage Ty	age	Handler	тот	OUT		RLF H	HVAC # leat Coo 1 1
/ # 1,	Attic  gramable The bling [] Jaruting [X] Jar	R-Value A 6,0 316 ermostat: N n [] Feb n [X] Feb	rea Loca		8-Value 6.0 7	Area 79 ft² C EMPEF Ceiling Far ay [X ay []	Leakage Ty Default Leak RATUR ns: N [] Jun [] Jun [	age	Handler	тот	OUT	QN  Oct [ Oct [	RLF F	leat Coo
Prog Coo Hea Ven	Attic  gramable The ling [] Jarting [] Jarting [] Jar	R-Value A 6.0 316 ermostat: N n [] Feb n [X] Feb n [] Feb	ft² Attic  [] Mar [X] Mar [X] Mar	[] Apr [] Apr [] Apr [X] Apr	6.0 7 <b>TE</b> (0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Area 79 ft² C EMPEF Ceiling Far ay [X ay []	Leakage Ty Default Leak RATUR ns: N [] Jun [] Jun [	ES  X] Jul  ] Jul  ] Jul	Handler  Cond Spc  [X] Aug  [] Aug	TOT (Default) (D	OUT Default)	QN  Oct [ Oct [	] Nov (] Nov	leat Coo
ProgCoo Heaven	Attic  gramable The ling [] Jar ting [] Jar hermostat Sc	R-Value A 6.0 316 ermostat: N n [] Feb n [X] Feb n [] Feb	ft² Attic  [] Mar [X] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	6.0 7 TE  ( [ ] M  [ ] M	Area 79 ft² C EMPEF Ceiling Far ay [X ay [] ay []	Leakage Ty Default Leak RATUR ns: N [] Jun [] ] Jun []	ES  X] Jul  ] Jul  ] Jul  Ho	Cond Spc  [X] Aug  [] Aug  [] Aug  urs	(Default) (Default) (EX) Sep	OUT Default)	QN Oct [ Oct [ Oct [ X	] Nov (] Nov (] Nov	leat Cool 1 1 [] Dec [X] Dec [] Dec
Prog Coo Hea Ven	Attic  gramable The bling [] Jarting [] Jarting [] Jarthermostat Schedule Type	R-Value A 6.0 316  ermostat: N n [] Feb n [X] Feb n [] Feb hedule: HERS	ft² Attic  [] Mar [X] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr ence	6.0 7 TE	Area 79 ft² C EMPEF Ceiling Far ay [X ay [] ay []	Leakage Ty Default Leak RATUR ns: N [] Jun [] Jun [] Jun [	ES  X] Jul  ] Jul  ] Jul  Ho  6	Cond Spc  [X] Aug  [] Aug  [] Aug  urs  7	TOT (Default) (D	OUT Default)  [] C [] C [X] C	QN  Oct [ Oct [ Cot [ X  Tot [	] Nov (] Nov (] Nov	leat Cool  1 1  [] Dec  [X] Dec  [] Dec
Prog Coo Hea Ven	Attic  gramable The string [] Jar ting [] Jar thermostat Schedule Type Cooling (WD)	R-Value A 6.0 316  ermostat: N n [] Feb n [X] Feb n [] Feb hedule: HERS	ft² Attic  [] Mar [X] Mar [X] Mar 2006 Refere	[] Apr [] Apr [X] Apr ence 2	6.0 7  TE  (1) M  (3) 78  78	Area 79 ft² C EMPEF Ceiling Far ay [X ay [] ay [] 4	Leakage Ty Default Leak RATUR ns: N [] Jun [] Jun [] Jun [] 5	ES  XJ Jul  Jul  Jul  Ho  6	[X] Aug [] Aug [] Aug urs 7	TOT (Default) (D	OUT Default)  [] C [] C [X] C	QN  Oct [ Oct [ Oct [ > Oct [ > 78 78	] Nov {] Nov {] Nov 11	[] Dec [X] Dec [Y] Dec

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX\* = 81

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

636 Southeast Baya Dr., Lake City, FL, 32025

New construction or e     Single family or multip		(From Plans) Detached	10. Wall Types(1457.2 sqft.) a. Frame - Wood, Exterior	Insulation Area R=19.0 1457.20 ft <sup>2</sup>
3. Number of units, if mu		1 3	b. N/A c. N/A d. N/A	
<ul><li>4. Number of Bedrooms</li><li>5. Is this a worst case?</li><li>6. Conditioned floor area</li></ul>		No 1612	<ol> <li>Ceiling Types(1612.0 sqft.)</li> <li>Flat ceiling under att (Vented)</li> <li>N/A</li> </ol>	Insulation Area R=38.0 1612.00 ft <sup>2</sup>
Conditioned floor area 7. Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor:	Description Sgl, U=0.65 SHGC=0.25 N/A N/A	0 Area 144.69 ft <sup>2</sup> ft <sup>2</sup>	<ul> <li>c. N/A</li> <li>12. Roof(Comp. Shingles, Vented)</li> <li>13. Ducts, location &amp; insulation level</li> <li>a. Sup: Attic, Ret: Attic, AH: Cond</li> <li>b.</li> <li>c.</li> <li>14. Cooling Systems</li> <li>a. Central Unit</li> </ul>	el R ft
SHGC: Area Weighted Average Area Weighted Average  8. Skylights U-Factor:(AVG) SHGC(AVG):	e Overhang Depth: e SHGC: Description N/A N/A	5.215 ft 0.250 Area N/A ft <sup>2</sup>	15. Heating Systems a. Electric Heat Pump	kBtu/hr Efficiency 30.0 HSPF2:7.80
9. Floor Types a. Slab-On-Grade Edg b. N/A c. N/A	e Insulation R= 0.0 R= R=	2	<ul><li>16. Hot Water Systems</li><li>a. Electric</li><li>b. Conservation features</li><li>17. Credits</li></ul>	Cap: 50 gallons EF: 0.930 None None

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: 636 Southeast Baya Dr.

City/FL Zip: Lake City,FL,32025

\*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.



## Florida Building Code, Energy Conservation, 7th Edition (2020) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

landatory	requirements for ress.		_
ADDRESS:	636 Southeast Baya Dr. Lake City, FL 32025	Permit Number:	

## MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL
R401.3 Energy Performance Level (EPL) display card - (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
SECTION R402 BUILDING THERMAL ENVELOPE
R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
<b>R402.4.1.1 Installation.</b> The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
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. 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 Statutes, 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 code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
<b>Exception:</b> Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building 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, backdraft 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.
R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

#### building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exception: Site-built windows, skylights and doors.

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.

R402.4.4 Rooms containing fuel - burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the

2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

## MANDATORY REQUIREMENTS (Continued)

	R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
	SECTION R403 SYSTEMS
□ R	403.1 Controls  R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system
	R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
	R403.3.2 Sealing (Mandatory). All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.
	Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
	R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
	<ol> <li>R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:         <ol> <li>Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.</li> </ol> </li> <li>Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.</li> <li>Exceptions;</li> <li>A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.</li> <li>Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.</li> <li>A written report of the results of the test shall be signed by the party conducting the test and provided to the code official</li> </ol>
	R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums
	R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
	R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
	R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
	R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
	R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

#### MANDATORY REQUIREMENTS (Continued) R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank. R403.5.6 Water heater efficiencies (Mandatory). R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C). R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off. R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1. R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria: 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and 2. Be installed at an orientation within 45 degrees of true south. R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating. R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1. Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor. R403.6.2 Ventilation Air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria: 1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications. 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas. 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be

3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment.

R403.7.1 Equipment sizing (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

#### MANDATORY REQUIREMENTS (Continued)

# TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY <sup>®</sup> (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

#### Exceptions:

- Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
- When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

#### R403.7.1.2 Heating equipment capacity.

R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design load is 1.15 times greater than the design cooling load.
R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:  1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.  2. A variable capacity system sized for optimum performance during base load periods is utilized.
R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
R403.9 Snow melt and ice system controls (Mandatory). Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
403.10 Pools and permanent spa energy consumption (Mandatory). The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater.

Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

a. When tested in accordance with HVI Standard 916