RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2020 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

M	I his checklist
×	Form R405-2020 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 R403.7
×	Mandatory Requirements (five pages)
Rec	quired prior to CO:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed 2020 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: Lot 32 Crosswinds Subo Street: Anyplace City, State, Zip: Lake City, FL, 32055 Owner: Trent Giebeig Design Location: FL, Gainesville	division	Builder Name: Trent Giebeig Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Clim	ate 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) 7. Windows(119.0 sqft.) Description a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.45 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights c. U-Factor:(AVG) SHGC(AVG): N/A 9. Floor Types (1600.0 sqft.)	New (From Plans) Detached 1 3 No 1600 0 Area 119.00 ft² ft² ft² 1.500 ft. 0.450 Area ft²	10. Wall Type\$1639.5 sqft.) a. Face Brick - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1600.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Main 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump	Insulation Area R=13.0 1459.50 ft² R=13.0 180.00 ft² R= ft² R= ft² Insulation Area R=38.0 1600.00 ft² R= ft² R= ft² R= ft² R ft² A f
		b. Conservation featuresNone16. Credits	CF, Pstat
Glass/Floor Area: 0.074	Total Proposed Modified Total Baseline		PASS
I hereby certify that the plans and specific this calculation are in compliance with the Code. PREPARED BY: William From DATE: 2/16/22 I hereby certify that this building, as designed with the Florida Energy Code. OWNER/AGENT: DATE: DATE:	Freeman gned, is in compliance	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 manu	facturer that the air handler enclosu	re 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 7.00 ACH50 (R402.4.1.2). BUILDING Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2
- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2

 Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.040 Qn for whole house. for

INPUT SUMMARY CHECKLIST REPORT

					PROJI	ECT							
Title: Building Owner N # of Unit Builder N Permit C Jurisdicti Family T New/Exis	lame: s: Name: Office: ion: ype: sting:	Lot 32 Crosswi User Trent Giebeig 1 Trent Giebeig Columbia Cour Detached New (From Pla	nty	Bedrooms Condition Total Stor Worst Ca Rotate Ar Cross Ver Whole Ho	ed Area: ies: se: igle: ntilation:	3 1600 1 No 0 No No		Lot # Bloc Platt Stree Cour	k/Subdivi: 3ook: et:	sion: Cr Ar Cc	rosswinds nyplace olumbia ake City ,	Sub	
					CLIMA	ATE							
V		n Location	TMY Site		97	Design Temp 7.5 % 2.5 %	Int De Winte	esign Tem er Sumn		eating ree Days			ange
	FL, (Gainesville	FL_GAINESVILLE	E_REGI		32 92	70	75	1	305.5	51	M	edium
					BLOC	KS							
Numbe	er	Name	Area	Volume									
1		Block1	1600	14400)								
					SPAC	ES							
Numbe	эг	Name	Area	Volume	Kitchen	Occupants	Bedroo	oms I	nfil ID	Finished	Coo	led	Heate
1		Main	1600	14400	Yes	3	3	84	1	Yes	Yes		Yes
					FLOO	RS							
V	#	Floor Type	Space	Per	imeter	R-Value	Area	esta esta esta esta esta esta esta esta			Tile Wo	ood Ca	arpet
	1 Slab	-On-Grade Edge	Insulatio M	ain 170	3 ft	0	1600 ft ²			(0.25 0	.5 0	.25
					ROC	F							
\checkmark	#	Туре	Materials	Roof Area	Gabl Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	
	1	Нiр	Composition shing	gles 1789 ft	o ft ²	Medium	N	0.75	Yes	0.9	Yes	0	26.5
					ATT	IC			-11.50				
/	#	Туре	Ventil	ation	Vent Rat	io (1 in)	Area	RBS	IRO	cc			
	1	Full attic	Ven	ted	30		1600 ft² N						
					CEILI	NG							
	Taxable or			2	51/1				From	ning Frac	Truss	T	
V	#	Ceiling Type		Space	R-Valu	e Ins Ty	/pe	Area	rian	ing Frac	iruss	Type	

INPUT SUMMARY CHECKLIST REPORT

. /	- DATE OF THE	Adi	acent		120	Cavity	Wio	Ith	Height		Sheathing	g Framing	Solar	Belov
V #	Ornt	To	Wal	LType	Space	R-Value	Ft_	_ln	Ft In	Area		Fraction	_Absor_	Grade
_ 1	N Exterior Face Brick - Wood		Main	13	15	6	9	139.5 ft²		0.23	0.75			
2	N	Exterior Face Brick - Wood		Main	13	14	0	9	126.0 ft²		0.23	0.75		
3	N	Exter		ce Brick - Wood	Main	13	26	10	9	241.5 ft ²		0.23	0.75	
_ 4	E	Exter		ce Brick - Wood	Main	13	30	1	9	270.8 ft ²		0.23	0.75	
5	S	Gara		ame - Wood	Main	13	20	0	9	180.0 ft ²		0.23	0.75	
6	S	Exter	ior Fac	ce Brick - Wood	Main	13	14	9	9	132.8 ft ²		0.23	0.75	
7	W	Exter	ior Fac	ce Brick - Wood	Main	13	4	8	9	42.0 ft ²		0.23	0.75	
8	S	Exter	ior Fac	ce Brick - Wood	Main	13	7		9	69.8 ft ²		0.23	0.75	
9	E	Exter	ior Fac	ce Brick - Wood	Main	13	4 13		9	42.0 ft ²		0.23	0.75	
10	S	Exter	ior Fac	ce Brick - Wood	Main	13		10	9	124.5 ft²		0.23	0.75	
11	W	Exter	ior Fac	ce Brick - Wood	Main	13	30	1	9	270.8 ft ²		0.23	0.75	
						DO	ORS							11-11-
$\sqrt{}$	#	C	rnt	Door Type	Space			Storms	U-Valu	ie Fi	Width In	Height Ft	In	Area
	1		N	Insulated	Main			None	.4	6	Assessed			40 ft²
	2		S	Wood	Main			None	.46	2				7.8 ft²
	3		S	Wood	Main			None	.46	3				20 ft²
				Orie	entation sho	WINE own is the er	OOWS Itered, F		d orientation).				
\checkmark	#	Wa Ornt II		Panes	NFRC	U-Factor	SHGC	Imp	Area		hang Separation	Int Sha	de S	Screeni
-	1	N 1	V NOVE III	Double (Tinted)	Yes	0.55	0.45	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	2	N 3		Double (Tinted)	Yes	0.55	0.45	N	9.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	3	N 3		Double (Tinted)	Yes	0.55	0.45	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	4	E 4	2000	Double (Tinted)	Yes	0.55	0.45	N	20.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	5	E 4	in the second	Double (Tinted)	Yes	0.55	0.45	N	9.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/b		
	6	S 6		Double (Tinted)	Yes	0.55	0.45	N	36.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	7	S 10		Double (Tinted)	Yes	0.55	0.45	N	15.0 ft²		1 ft 0 in	Drapes/b		None
	•		Villy	Double (Titled)	100			, N	15.0 10	1110111	110111	Drapesio	iiius	NONE
				- September - Sept	98	CONTRACTOR OF THE PARTY OF THE	RAGE							
7	#		oor Area	Ceiling		Exposed V	2 243 1134 2332	imeter		all Height	Expos	ed Wall Ins	ulation	
$\sqrt{}$	1		400 ft ²	400 1	it²	-	0 ft		8	ft		13		
<u> </u>						INFILT	RATIC	N				- Western		
<u> </u>							LA CFM 50 ELA							
<u></u>	Scope		Method		SLA (CFM 50	ELA	E	EqLA	ACH	AC	H 50		

INPUT SUMMARY CHECKLIST REPORT

					H	IEATIN	G SYS	TEM							
V	#	System Type		Subtyp	е	Speed		Efficiency	r Ca _l	pacity			Block	D	ucts
	1	Electric Heat Po	ump/	Split		Singl		HSPF:8.4	24.59	kBtu/hr			1	sy	/s#1
					C	OOLIN	G SYS	TEM		yalin,					
$\sqrt{}$	#	System Type		Subtyp	е	Subtyp	e E	Efficiency	Capacity	Air I	Flow S	SHR	Block	D	ucts
	1	Central Unit/		Split		Singl	5	SEER: 15	15.96 kBtu/	hr 480	cfm 0).75	1	sy	/s#1
					НС	T WAT	ER SY	STEM							
V	#	System Type	SubType	Local	ion	EF	Ca	р	Use	SetPnt		Cor	nservatio	n	
	1	Electric	None	Gara	ge	0.92	42 g	al	60 gal	120 deg			None		
			-		SOLAR	HOT V	VATER	SYSTE	M						
\checkmark	FSEC Cert #			System Mo			Co	Collector Collector Model # Area			or Storage Volume				
	None	None									ft²				
W. D#=====			1/8			DU	JCTS						and the same of the same		
\checkmark	#	Supply # Location R-Value Area		Return Location Area			Leakage Type				CFM25 OUT			HVAC #	
	1	Attic	6 400 ft ²	Att	ic 10	00 ft²	Propos	sed Qn	Main	cfm	64.0 cfm	0.04	0.50	1	1
						TEMPE	RATUR	RES							
Program	nable Th	ermostat: Y			Ceiling	g Fans:									
Cooling Heating Venting	[X] }	an [X] Feb an [X] Feb an [X] Feb	[X] Mar [X] Mar [X] Mar	[X] Apr [X] Apr [X] Apr	X M	lay [X lay X lay [X	(] Jun (] Jun (] Jun	X Jul X Jul X Jul	[X] Aug [X] Aug [X] Aug	[X] Ser [X] Ser [X] Ser		Oct Oct Oct	X Nov X Nov X Nov		Dec Dec Dec
Thermosta Schedule		ule: FloridaCo	de 2014 1	2	3	4	5	Ho 6	ours 7	8	9	10	11		12
Cooling (V	VD)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	-	75 75
Cooling (V	VEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75		75 75
leating (V	VD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72		72 72
Heating (V	VEH)	AM PM	72 72		72 72	72 72	72 72	72 72 72	72 72 72	72 72	72 72 72	72 72 72	72 72 72		72 72
		1 141	12				ASS	12	14	1 600	12	12	12		12
Ma	ass Type	•		Area		Th	ickness	-	Furniture Fra	ction	Spa	ace			
De	efault(8 l	bs/sq.ft.		0 ft²			0 ft		0.3		-	Main			