

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

A	pplica	ations for compliance with the 2017 Florida Building Code, Energy Conservation via the
re	sider	ntial Simulated Performance Method shall include:
	0	This checklist
	Ø	A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).
	Ø	Energy Performance Level (EPL) Display Card (one page)
	ø	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
	Ø	Mandatory Requirements (five pages)
	Req	uired prior to CO for the Performance Method:
		Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	ø	A completed Envelope Leakage Test Report (usually one page)
		If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

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FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 41 Wise Estates Street: City, State, Zip: Lake City , FL , 32025 Owner: Trent Giebeig Design Location: FL, Gainesville	Builder Name: Trent Giebeig Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate	e 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(110.0 sqft.) Description a. U-Factor: Dbl, U=0.40 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Floor Types (1660.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A C. N/A R= ft²	9. Wall Types (1639.5 sqft.) a. Face Brick - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (1660.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15. Credits	Insulation Area R=13.0 1459.50 ft² R=13.0 180.00 ft² R= ft² R= ft² Insulation Area R=30.0 1660.00 ft² R= ft² R= ft² R= ft² R= ft² R= ft² R= ft² Ft² R= ft² F
Glass/Floor Area: 0.066 Total Proposed Modified Total Baseline		PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: Illust Lieux DATE: 1/23/20 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:	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:	OF THE STATE OF TH

- 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 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).

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FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

				PROJEC	CT						
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 41 Wise Estate User Trent Giebeig 1 Trent Giebeig Columbia County Single-family New (From Plans)		Bedrooms: Conditione Total Storie Worst Cas Rotate Ang Cross Veni Whole Hou	d Area: 1 es: 1 e: N gle: 0 tilation:	660 No		Address T Lot # Block/Sut PlatBook: Street: County: City, State	odivision: : e, Zip:	Lot Information 41 Wise Established Columbia Lake City	tates	
				CLIMAT	E						and the section is
√ Des	sign Location	TMY Site	*****	De: 97.5	sign Temp % 2.5 %	Int Desig Winter		Heating Degree Da		sign D sture	aily Tem Range
FL	, Gainesville F	L_GAINESVILLE	_REGI	32	92	70	75	1305.5		51	Mediun
				BLOCK	S						
Number	Name	Area	Volume								
1	Block1	1660	14940	2							
				SPACE	s						
Number	Name	Area	Volume I	Kitchen (Occupants	Bedrooms	Infil IC) Finish	ed (Cooled	Hea
1	Main	1660	14940	Yes	3	3	1	Yes	,	Yes	Yes
				FLOOR	s			-			
V #	Floor Type	Space	Peri	meter F	R-Value	Area			Tile	Wood	Carpet
1 Sla	ab-On-Grade Edge Ins	ulatio Ma	ain 267	ft	0	1660 ft ²			0.25	0.25	0.5
			Annual Control of the	ROOF						-	
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Decl	
1	Hip C	Composition shingl	es 1857 ft²	O ft²	Medium	0.96	No	0.9	No	0	26.
				ATTIC	;		A CONTRACTOR			THE RESIDENCE	
√ #	Туре	Ventila	ation	Vent Ratio	(1 in)	Area	RBS	IRCC			
1	Full attic	Vent	ed	300		1660 ft²	N	N			
				CEILIN	G	***************	or the second	***************************************			
V #	Ceiling Type		Space	R-Value	Ins Ty	rpe Are	ea	Framing F	rac Tr	uss Typ	e
										The second secon	A CONTRACTOR OF THE PARTY.

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FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS							
V #	Ornt	Adjac To		Туре	Space	Cavity R-Value	Wic	ith In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade ⁶
1	N	Exterior		e Brick - Wood	Main	13	15	6	9	139.5 ft²		0.23	0.75	0
_ 2	N	Exterior	Fac	e Brick - Wood	Main	13	14		9	126.0 ft ²		0.23	0.75	0
3	N	Exterior	Fac	e Brick - Wood	Main	13	26	10	9	241.5 ft ²		0.23	0.75	0
4	E	Exterior	Fac	e Brick - Wood	Main	13	30	1	9	270.8 ft ²		0.23	0.75	0
5	s	Garage	Fra	me - Wood	Main	13	20		9	180.0 ft ²		0.23	0.75	C
6	S	Exterior	Fac	e Brick - Wood	Main	13	14	6	9	130.5 ft ²		0.23	0.75	C
7	W	Exterior	Fac	e Brick - Wood	Main	13	4	8	9	42.0 ft ²		0.23	0.75	C
8	S	Exterior	Fac	e Brick - Wood	Main	13	8	4	9	75.0 ft ²		0.23	0.75	C
9	E	Exterior	Fac	e Brick - Wood	Main	13	4	8	9	42.0 ft ²		0.23	0.75	C
10	N	Exterior	Fac	e Brick - Wood	Main	13	13	6	9	121.5 ft²		0.23	0.75	(
11	W	Exterior	Fac	e Brick - Wood	Main	13	30	1	9	270.8 ft ²		0.23	0.75	C
						DO	ORS				vysut 34 in pro-singular			
$\sqrt{}$	#	Orn	t	Door Type	Space			Storms	U-Val	ue F	Width t In	Heigh Ft	t In	Area
-	1	N		Insulated	Main			None	.4			6	***	40 ft²
	2	s		Wood	Main			None	.4	2		6		7.8 ft²
	3	s		Wood	Main			None	.4	3		6		20 ft²
				Or	ientation sh	WINI own is the er	DOWS		l orientation				***********	
,	II. January	Wall			ionadon on	ontrio ale ci	itorou, r	торозос	Onemadon		rhang			Total Control of the
\vee	# (Omt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sh	ade	Screenir
	1	N 1	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/	blinds	Exterior
	2	N 3	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/	blinds	Exterior
	3	E 4	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	20.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/	blinds	Exterior
	4	S 6	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/	blinds	Exterior
	5	N 10	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/	olinds	Exterior
						GAF	RAGE							
\bigvee	#	Floo	or Area	Ceiling	Area	Exposed \	Vall Per	imeter	Avg. W	all Height	Expos	ed Wall In	sulation	
	1	40	00 ft²	400	ft²	(50 ft		9) ft		1		
						INFILT	RATIC	N						
	•22.22.23		Method		SLA	CFM 50	ELA		EqLA	ACH	AC	H 50		
8	Scope	,	victiou		OLA.	OF IVE SO		- 1	-qLA	AGIT	70	1100		

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INPUT SUMMARY CHECKLIST REPORT FORM R405-2017 **HEATING SYSTEM** Efficiency Capacity Block System Type Subtype Ducts HSPF:8.4 Electric Heat Pump/ Split 22.06 kBtu/hr 1 sys#1 **COOLING SYSTEM** System Type Subtype Efficiency Capacity Air Flow SHR Block Ducts Central Unit/ Split SEER: 15 17.28 kBtu/hr 510 cfm 0.75 1 sys#1 HOT WATER SYSTEM Use SetPnt System Type SubType Location EF Cap Conservation Electric None Garage 0.92 50 gal 60 gal 120 deg None SOLAR HOT WATER SYSTEM **FSEC** Collector Storage Cert # Company Name System Model # Collector Model # Volume FEF Area None None DUCTS ---- Return ----Air **CFM 25** CFM25 --- Supply ---HVAC# R-Value Area Handler Location Location Area Leakage Type TOT OUT QN RLF Heat Cool Attic 332 ft² Attic 83 ft² Default Leakage 1 Main (Default) (Default) 1 1 **TEMPERATURES** Programable Thermostat: Y Ceiling Fans: Cooling Heating Venting [X] Jun [] Jun [] Jun [X] Jul Jul Jul [X] Sep [] Sep [] Sep [X] Dec [X] Dec Dec X Nov X Nov X Nov Thermostat Schedule: HERS 2006 Reference Hours Schedule Type 3 4 5 6 8 10 11 12 Cooling (WD) 78 80 78 80 78 78 78 78 78 78 78 78 78 78 Cooling (WEH) AM

Name: William H. Freeman	Signature: Wallet Treew
Rating Compant: William H. Freema	Date: 7/23/20

66 68

66 68

MASS

Thickness

0 ft

68 68 68 68

68 68

Furniture Fraction

0.3

1

68 68

68 68 68 68

68

68 68

68 68

Space

Main

68 66

68 66 68 66

68 66

Heating (WD)

Heating (WEH)

Mass Type

Default(8 lbs/sq.ft.

66 68

66

AM

66 68

66 68

Area

Oft2

66 68

66 68 66 68

66 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

The lower the Energy Performance Index, the more efficient the home.

New home or, addition	 New (From Plans) 	Ducts, location & insulation level
		a) Supply ducts R 6.0
Single-family or multiple-family	2. Single-family	b) Return ducts R 6.0
3. No. of units (if multiple-family)	31_	c) AHU location Attic/Attic
4. Number of bedrooms	43	13. Cooling system: Capacity 17.3
5. Is this a worst case? (yes/no)	5. <u>No</u>	a) Split system SEER 15.0 b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>1660</u>	d) Room unit/PTAC EER e) Other
7. Windows, type and area		
a) U-factor:(weighted average)	7a. 0.400	
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	14. Heating system: Capacity 22.1
c) Area	7c. 110.0	a) Split system heat pump HSPF 8.4
		b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8bNA	e) Gas furnace, LPG AFUE
		f) Other
Floor type, insulation level:	1001	
a) Slab-on-grade (R-value)	9a0.0_	10 M
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.92
40 \\\-11 \\ \\-1 \\\-1 \\\\-1 \\\\-1 \\\\-1 \\\\-1 \\\\-1 \\\\\-1 \\\\-1 \\\\-1 \\\\-1 \\\\-1 \\\\\-1 \\\\\-1 \\\\\-1 \\\\\\\-1 \\\\\\\\		b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:	1011 100	d) Solar system with tank EF
Wood frame (Insulation R-value)	10A1. 13.0	e) Dedicated heat pump with tank EF
Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:	40D4 42.0	g) Other
Wood frame (Insulation R-value) Magazine (Insulation R-value)	10B113.0	
2. Masonry (Insulation R-value)	10B2	16 UVAC anality claimed (Derformance Mathed)
11 Cailing time and insulation level		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level	110 200	a) Ceiling fans
a) Under attic	11a. 30.0	b) Cross ventilation No c) Whole house fan No
b) Single assembly c) Knee walls/skylight walls	11b	c) Whole house fan No d) Multizone cooling credit
	11c 11dNo_	
d) Radiant barrier installed	11dNO	e) Multizone heating credit
		f) Programmable thermostat Yes
*I shall samuland by Scation D202 1 2 of the E	lorida Duildina Coda Esa	van Conservation if not DEFAULT
*Label required by Section R303.1.3 of the F	iorida Building Code, Ene	rgy Conservation, if not DEFAULT.
I cortify that this home has complied with the	Elorida Buildina Codo E	nergy Conservation, through the above energy
saving features which will be installed (or exc		
display card will be completed based on insta		
display card will be completed based on insta	aned code compilant featt	ures.
Builder Signature:		Dete
Builder Signature:		Date:
Address of New Home:		City/EL Zin: Lake City EL 32025

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