RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include: This checklist 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). 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) Required prior to CO for the Performance Method: Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page) 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)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: RODRIGUEZ (Street: City, State, Zip: Lake City, FL Owner: Design Location: FL, Gainesville		Builder Name: Permit Office: Columbia Permit Number: Jurisdiction: County: Columbia (Florida Cl	limate Zone 2)
New construction or existing Single family or multiple family Number of units, if multiple family	New (From Plans) Single-family	9. Wall Types (1008.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A	Insulation Area R=13.0 1008.00 ft ² R= ft ²
Number of Bedrooms	and the same of	d. N/A	R= ft² R= ft²
5. Is this a worst case?	No e (ft²) 640	10. Ceiling Types (640.0 sqft.) a. Under Attic (Vented) b. N/A	Insulation Area R=38.0 640.00 ft ² R= ft ²
Conditioned floor area above grad Conditioned floor area below grad	The second section is a second	c. N/A 11. Ducts	R= It ² R ft ²
7. Windows(85.9 sqft.) Descrip a. U-Factor: Dbl, U=0 SHGC: SHGC=0	.40 85.89 ft²	and the same of th	
b. U-Factor: N/A SHGC:	ft²	12. Cooling systems a. Central Unit	kBtu/hr Efficiency 9.2 SEER:18.00
c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC:	ft²	13. Heating systems a. Electric Heat Pump	kBtu/hr Efficiency 7.6 HSPF:8.50
Area Weighted Average Overhang Area Weighted Average SHGC:	Depth: 2.000 ft. 0.250	14. Hot water systems	and the second second second
8. Floor Types (640.0 sqft.) a. Crawlspace b. N/A c. N/A	Insulation Area R=19.0 640.00 ft² R= ft² R= ft²	a. Electric b. Conservation features None 15. Credits	Cap: 40 gallons EF: 0.950
Glass/Floor Area: 0.134		odified Loads: 23.99	PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

Digitally signed by: N. P. GEISLER

DN: CN = N. P. GEISLER C = US

DATE: _

PREPARED BY: 0 = AR0007005 QU = ARCHITECT DATE: Date: 2020.08.17 13 12:43 -05'00'

with the Florida Energy Code.

I hereby certify that this building, as designed, is in compliance

BUILDING OFFICIAL:

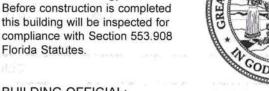
Review of the plans and

specifications covered by this calculation indicates compliance

with the Florida Energy Code.

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.

- 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 4.70 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

							WA	LLS							
V #	Orn	t	Adjace To	ent Wall	Туре	Space	Cavity R-Value	Wic Ft		Height Ft In	Area	Sheathir R-Value	ng Framing e Fraction	Solar	Below Grade
1	N	- 1	Exterior	Fra	me - Wood	House	13	16		9	144.0 ft ²		0.23	0.75	0
2	S	1	Exterior	Fra	me - Wood	House	e 13	16		9	144.0 ft ²		0.23	0.75	0
3	E	1	Exterior	Fra	me - Wood	House	13	40		9	360.0 ft ²		0.23	0.75	0
4	W		Exterior	Fra	me - Wood	House	13	40		9	360.0 ft ²	10 19 10	0.23	0.75	0
8 B			od.		* 25		DO	ORS	153			1		5 0	y - c.
$\sqrt{}$	#	765	Ornt	, direct	Door Type	Space			Storms	U-Val	ue F	Width t In	Heigh Ft	nt In	Area
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1	2		W		Insulated	House			None	.4	6	3	6	8	40 ft ²
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./		H	Wall						r.n			rhang			5.9 a
V	#	Orn	t ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Sh	ade	Screenin
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la crista	2	-N	1	Metal	Double (Tinted)	Yes	0.4	0.25	Ν	35.9 ft²	2 ft 0 in	2 ft 0 in	Drapes/	blinds	None
	3	S	2	Metal	Double (Tinted)	Yes	0.4	0.25	N	18.0 ft ²	2 ft 0 in	5 ft 0 in	Drapes/	blinds	None
	4	W	4	Metal	Double (Tinted)	Yes	0.4	0.25	N	12.0 ft ²	2 ft 0 in	5 ft 0 in	Drapes/	blinds	None
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	Scope	19711	N	Method		SLA	CFM 50	ELA	E	qLA	ACH	AC	CH 50	O. A. T. B.	HOME
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							COOLING	3 SYS	TEM						
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						H	OT WAT	ER SY	STEM						
V	#		System	Туре	SubType	Location	EF	Ca	р	Use	SetPr	nt	Conse	ervation	

Building Input Summary Report

		70 - 101 1		PROJ	ECT				
Title: Building Type: Owner: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	RODRIGUEZ CO User Columbia Single-family New (From Plans 2020	ONTAINER HOUS	Bedroom Condition Total Sto Worst Ca Rotate A Cross Ve	ned Area: ories: ase: ngle: entilation: ouse Fan:	1 640 1 No 0 Suburban Suburban	en com	Address type: Lot #: Block/SubDivision: PlatBook: Street: County: City, State, Zip:	Columbia Lake City, FL,	
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Number	Name	Area	Volume	Kitchen	Occupants	Bedroom	s Finished	Cooled	d Heated
<u>* 1 Terres</u>	House	640	5760	Yes	6	1	Yes	Yes	Yes

Building Input Summary Report

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Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

AE	DDRESS:	City, FL,	CONTRACTOR	Permit Number:	490. No. 3 - 11 J. W		-1178 14 159
MAN		UIREMENTS See i	ndividual code sec	tions for full deta	ails.	1,43	
,							
\checkmark		:	SECTION R401	GENERAL			
	display card be compi (Section 553.9085, FI nonpresold residentia installed in a dwelling	prmance Level (EPL) displated and certified by the buildorida Statutes) requires the full buildings. The EPL display unit. The building official shabilitted to demonstrate code	Ider to be accurate and co EPL display card to be indi- card contains information all verify that the EPL disp	orrect before final appropriet as an addendu indicating the energy play card completed ar	roval of the building om to each sales con performance level nd signed by the bu	for occupancy ntract for both p and efficiencies silder accurately	Florida law presold and s of components reflects the plans
	R402.4 Air leakage (I Sections R402.4.	Mandatory). The building through R402.4.5.	ng thermal envelope shal	ll be constructed to lim	nit air leakage in ac	cordance with t	he requirements of
	Event	ion. Duelling units of D.2.6		etterbedeleste frank	The explain of a	70	
	comply	tion: Dwelling units of R-2 C with Section C402.5.	occupancies and multiple	attached single family	dwellings shall be	permitted to	
	comply	Will Goodlon G-102.5.					
				Service Service			
		ing thermal enveldipe. build thods between dissimilar ma				R402.4.1.2.	
	with the manufa	tallation. The components of acturer's instructions and the cial, an approved third party	criteria listed in Table R4	02.4.1.1, as applicable	e to the method of	pe installed in a construction. W	ccordance here required
	changes per ho accordance with individuals as do an approved thi	ting. The building or dwell ur in Climate Zones 1 and 2, h ANSI/RESNET/ICC 380 an efined in Section 553.993(5) rd party. A written report of the shall be performed at any tin	and three air changes per d reported at a pressure or (7), Florida Statutes, on the results of the test shall	er hour in Climate Zon of 0.2 inch w.g. (50 pa or individuals licensed I be signed by the part	es 3 through 8. Test ascals). Testing shat as set forth in Secti by conducting the te	sting shall be co ill be conducted ion 489.105(3)(i est and provided	nducted in by either (), (a) or (i) or
	Exception: buildings in which	Testing is not required for a ch the new construction is less				al envelope of e	existing
	During testing:						
		ows and doors, fireplace and	stove doors shall be clos	sed, but not sealed, be	yond the intended	weatherstrippin	g or
		control measures. uding exhaust, intake, make					
	infiltration contro		datable designation		faithful per		
		, if installed at the time of the					
	Heating and of	s for continuous ventilation si cooling systems, if installed a eturn registers, if installed at	at the time of the test, sha	all be turned off.	losed and sealed.		
	using tight-fitting doors fireplace. Where using	New wood-burning fireplac s on factory-built fireplaces li g tight-fitting doors on mason	sted and labeled in accor iry fireplaces, the doors s	dance with UL 127, th hall be listed and labe	e doors shall be tes	sted and listed f	ere for the
	square foot (1.5 L/s/m	n air leakage/Vindows, skyli 2), and swinging doors no m 01/I.S.2/A440 by an accredit	ghts and sliding glass do ore than 0.5 cfm per squ	ors shall have an air ir are foot (2.6 L/s/m2), v	nfiltration rate of no when tested accord	ing to NFRC 40	cfm per 10 or
	Exception:	Site-built windows, skylight	s and doors.				

M	ANDATORY 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:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and 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 whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they 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:
	 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.
	 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 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.
	R403.7.1 Equipment sizing. 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.

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

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Mine and Any TALLER
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90 27 17 17 19 19	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

	R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
	R403.11 Portable spas (Mandatory)he energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
EI	LECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps. Exception: Low-voltage lighting.
	R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:

RODRIGUEZ CONTAINER HOUSE

Street:

City, State, Zip:

Lake City , FL ,

Owner:

Design Location: FL, Gainesville

Builder Name:

Permit Office: Columbia

Permit Number:

Jurisdiction:

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spa	aces.	Γ
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	L
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	=	
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings. of log walls shall be in accordance with the provisions of ICC-400.		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 82

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

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level						
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R b) Return ducts R						
3. No. of units (if multiple-family)	31_	c) AHU location						
4. Number of bedrooms	41_	13. Cooling system: Capacity 9.2 a) Split system SEER						
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP						
6. Conditioned floor area (sq. ft.)	6640	d) Room unit/PTAC EER						
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. <u>0.400</u> 7b. <u>0.250</u> 7c. <u>85.9</u>	14. Heating system: Capacity 7.6 a) Split system heat pump HSPF b) Single package heat pump HSPF						
Skylights a) U-factor:(weighted average)	8aNA	c) Electric resistance COP d) Gas furnace, natural gas AFUE						
b) Solar Heat Gain Coefficient (SHGC)	8b. NA	e) Gas furnace, LPG AFUE 8.50						
9. Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value) 10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) 11. Ceiling type and insulation level a) Under attic b) Single assembly	9a9b19.0 9c10A113.0 10A210B110B211a11b11b11b11b11b11b11b	15. Water heating system a) Electric resistance						
c) Knee walls/skylight wallsd) Radiant barrier installed	11c 11dYes	d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Yes						
*Label required by Section R303.1.3 of the Fl	orida Building Code, Ene	rgy Conservation, if not DEFAULT.						
I certify that this home has complied with the Florida Building Code, Energy Conservation, 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/El Zin: Lake City El						