

## RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

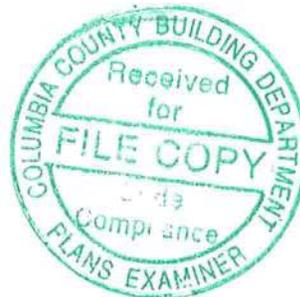
### Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

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

- This 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)

**Required 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)



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# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Tillotson Residence Street: 361 SW Ridge Street City, State, Zip: Lake City, FL, 32024 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Building Dept. Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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Glass/Floor Area: 0.052	Total Proposed Modified Loads: 23.35	<b>PASS</b>
	Total Baseline Loads: 23.44	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY: _____  DATE: _____  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: _____
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- 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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.000 Qn for whole house.
- 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).

## INPUT SUMMARY CHECKLIST REPORT

## PROJECT

Title:	Tillotson Residence	Bedrooms:	1	Address type:	Street Address
Building Type:	User	Conditioned Area:	784	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Name:		Worst Case:	No	PlatBook:	---
Permit Office:	Columbia County Building Dept.	Rotate Angle:	0	Street:	361 SW Ridge Street
Jurisdiction:		Cross Ventilation:	No	County:	Columbia
Family Type:	Detached	Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32024
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2021	Shielding:	Suburban		
Comment:					

## CLIMATE

✓ Design Location	Tmy Site	Design Temp		Int Design Temp		Heating Degree Days	Design Moisture	Daily temp Range
		97.5%	2.5%	Winter	Summer			
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

## BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	784	7056

## SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	784	7056	Yes	2	1	Yes	Yes	Yes

## FLOORS

(Total Exposed Area = 784 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	0.699999988079071		784 ft	0.447	---	0.50	0.50	0.00

## ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Metal	826 ft <sup>2</sup>	130 ft <sup>2</sup>	Medium	N	0.96	No	0.9	No	0	18.43

## ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	784 ft <sup>2</sup>	N	N

## CEILING

(Total Exposed Area = 784 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	38.0	Blown	784.0ft <sup>2</sup>	0.024	0.11	Wood

# INPUT SUMMARY CHECKLIST REPORT

<b>WALLS</b>														(Total Exposed Area = 1008 sq.ft.)			
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Frame - Wood	Main	13.0	28.0	0	9.0	0	252.0	0.084		0.23	0.75	0 %		
___ 2	E	Exterior	Frame - Wood	Main	13.0	28.0	0	9.0	0	252.0	0.084		0.23	0.75	0 %		
___ 3	S	Exterior	Frame - Wood	Main	13.0	28.0	0	9.0	0	252.0	0.084		0.23	0.75	0 %		
___ 4	W	Exterior	Frame - Wood	Main	13.0	28.0	0	9.0	0	252.0	0.084		0.23	0.75	0 %		

<b>DOORS</b>											(Total Exposed Area = 40 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	N		Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	S		Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²		

<b>WINDOWS</b>														(Total Exposed Area = 41 sq.ft.)		
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp Storm	Area	---Overhang---		Interior Shade	Screening			
										Depth	Separation					
___ 1	S	3	Vinyl	Double (Tinted)	Yes	0.55	0.60	N N	10.5ft²	8.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None			
___ 2	N	1	Vinyl	Double (Tinted)	Yes	0.55	0.60	N N	30.0ft²	8.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None			

<b>INFILTRATION</b>										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	
___ 1	Wholehouse	Proposed ACH(50)	0.00040	823	45.16	84.79	0.1438	7.0	All	

<b>MASS</b>					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

<b>HEATING SYSTEM</b>										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	Single/Single		HSPF: 8.90	31.5	0.00	0.00	0.00	sys#1	1

<b>COOLING SYSTEM</b>										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block	
___ 1	Central Unit	Single/Single		SEER:16.0	15.2	450	0.75	sys#1	1	

# INPUT SUMMARY CHECKLIST REPORT

## HOT WATER SYSTEM

#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
1	Electric	None	Exterior	0.92 (0.92)	40.00 gal	38 gal	120 deg	Standard	None	99
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
1	No		NA	NA	NA	No	NA	NA	NA	None

## DUCTS

Duct #	Supply			Return			Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC #		
	Location	R-Value	Area	Location	R-Value	Area							Heat	Cool	
1	Attic	6.0	157 ft²	Attic	6.0	39 ft²	Default Leakage	Main	(Default)	(Default)				1	1

## TEMPERATURES

Programable Thermostat: N  
 Cooling  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec  
 Heating  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec  
 Venting  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

Ceiling Fans: N

Thermostat Schedule: HERS 2006 Reference	Schedule Type	Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
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