

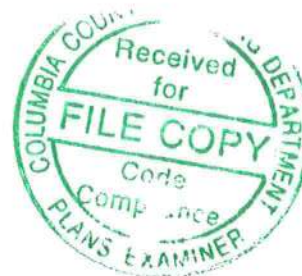
**RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST****Florida Department of Business and Professional Regulation  
Simulated Performance Alternative (Performance) Method**

**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

<b>Project Name:</b> Lot 31 Canon Creek Pl <b>Street:</b> <b>City, State, Zip:</b> Lake City, FL, <b>Owner:</b> Matthew Sorenson <b>Design Location:</b> FL, Gainesville	<b>Builder Name:</b> Trent Giebeig <b>Permit Office:</b> Columbia County <b>Permit Number:</b> <b>Jurisdiction:</b> Columbia County <b>County:</b> Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.098	Total Proposed Modified Loads: 45.09	<b>PASS</b>
	Total Baseline Loads: 45.63	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u>William H. Fice</u></p> <p>DATE: <u>6/22/20</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</p>	<p>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.</p> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p> <div style="text-align: center;">  </div>
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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 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).

## INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Lot 31 Canon Creek Pl		Bedrooms:	3		Address Type:	Lot Information					
Building Type:	User		Conditioned Area:	1429		Lot #	31					
Owner Name:	Matthew Sorenson		Total Stories:	1		Block/Subdivision:	Cannon Creek Pl					
# of Units:	1		Worst Case:	Yes		PlatBook:						
Builder Name:	Trent Giebeig		Rotate Angle:	90		Street:						
Permit Office:	Columbia County		Cross Ventilation:			County:	Columbia					
Jurisdiction:	Columbia County		Whole House Fan:			City, State, Zip:	Lake City , FL ,					
Family Type:	Single-family											
New/Existing:	New (From Plans)											
Comment:												
CLIMATE												
✓	Design Location	TMY Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range	
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92		70	75	1305.5	51	Medium		
BLOCKS												
	Number	Name	Area	Volume								
	1	Block1	1429	12861								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	Main	1429	12861	Yes	3	3	1	Yes	Yes	Yes	
FLOORS												
✓	#	Floor Type	Space	Perimeter	R-Value	Area			Tile	Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulatio	Main	220 ft	0	1429 ft²	----		0.25	0.25	0.5	
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1598 ft²	0 ft²	Medium	0.96	No	0.9	No	0	26.6
ATTIC												
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC					
_____	1	Full attic	Vented	300	1429 ft²	N	N					
CEILING												
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type				
_____	1	Under Attic (Vented)	Main	30	Blown	1429 ft²	0.11	Wood				



## INPUT SUMMARY CHECKLIST REPORT

WALLS														
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___ 1	S=>W	Exterior	Face Brick - Wood	Main	13	29		9		261.0 ft²		0.23	0.75	0
___ 2	E=>S	Exterior	Face Brick - Wood	Main	13	4	4	9		39.0 ft²		0.23	0.75	0
___ 3	S=>W	Exterior	Face Brick - Wood	Main	13	12	8	9		114.0 ft²		0.23	0.75	0
___ 4	W=>N	Exterior	Face Brick - Wood	Main	13	33		9		297.0 ft²		0.23	0.75	0
___ 5	N=>E	Exterior	Frame - Wood	Main	13	12	8	9		114.0 ft²		0.23	0.75	0
___ 6	E=>S	Exterior	Frame - Wood	Main	13	4		9		36.0 ft²		0.23	0.75	0
___ 7	N=>E	Exterior	Frame - Wood	Main	13	5	4	9		48.0 ft²		0.23	0.75	0
___ 8	E=>S	Exterior	Frame - Wood	Main	13	6		9		54.0 ft²		0.23	0.75	0
___ 9	N=>E	Exterior	Frame - Wood	Main	13	23	8	9		213.0 ft²		0.23	0.75	0
___ 10	W=>N	Exterior	Frame - Wood	Main	13	6		9		54.0 ft²		0.23	0.75	0
___ 11	N=>E	Exterior	Frame - Wood	Main	13	22		9		198.0 ft²		0.23	0.75	0
___ 12	E=>S	Exterior	Face Brick - Wood	Main	13	25		9		225.0 ft²		0.23	0.75	0
___ 13	S=>W	Exterior	Frame - Wood	Main	13	22		9		198.0 ft²		0.23	0.75	0

DOORS											
✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
1	N=>E	Insulated	Main	None	.4	6		6	8	40 ft²	
2	S=>W	Insulated	Main	None	.4	3		6	8	20 ft²	
3	S=>W	Insulated	Main	None	.4	2	8	6	8	17.8 ft²	

WINDOWS													
Orientation shown is the entered orientation (=>) changed to Worst Case.													
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	S=>W	1	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	60.0 ft²	5 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 1
2	S=>W	3	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 1
3	N=>E	5	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 1
4	N=>E	9	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	30.0 ft²	7 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 1
5	N=>E	9	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	12.0 ft²	7 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 1
6	E=>S	12	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	8.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 1

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation	
1	484 ft²	484 ft²	64 ft	9 ft	1	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.0004	1500.4	82.37	154.91	.3169	7

## INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM										
<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts			
<input checked="" type="checkbox"/>	1	Electric Heat Pump/	None	HSPF:8.4	22.06 kBtu/hr	1	sys#1			

COOLING SYSTEM									
<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
<input checked="" type="checkbox"/>	1	Central Unit/	Split	SEER: 15	18.28 kBtu/hr	540 cfm	0.75	1	sys#1

HOT WATER SYSTEM									
<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
<input checked="" type="checkbox"/>	1	Electric	None	Garage	0.92	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
<input checked="" type="checkbox"/>	None	None			ft²		

DUCTS													
<input checked="" type="checkbox"/>	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
<input checked="" type="checkbox"/>	1	Attic	6	285.8 ft	Attic	71.45 ft	Default Leakage	Main	(Default)	(Default)			1 1

TEMPERATURES														
Programable Thermostat: Y					Ceiling Fans:									
Cooling Heating Venting	<input checked="" type="checkbox"/> Jan <input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr <input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep <input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec <input checked="" type="checkbox"/> Dec		
Thermostat Schedule: HERS 2006 Reference														
Schedule Type			1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

MASS				
Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

Name: William H. Freeman

Signature: \_\_\_\_\_

Rating Compant: William H. Freema

Date: \_\_\_\_\_

**ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD****ESTIMATED ENERGY PERFORMANCE INDEX\* = 99****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts	R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts	R <u>6.0</u>
4. Number of bedrooms	4. <u>3</u>	c) AHU location	Attic/Attic
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	13. Cooling system:	Capacity <u>18.3</u>
6. Conditioned floor area (sq. ft.)	6. <u>1429</u>	a) Split system	SEER <u>15.0</u>
7. Windows, type and area		b) Single package	SEER <u>        </u>
a) U-factor:(weighted average)	7a. <u>0.400</u>	c) Ground/water source	SEER/COP <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC	EER <u>        </u>
c) Area	7c. <u>140.0</u>	e) Other	<u>        </u>
8. Skylights		14. Heating system:	Capacity <u>22.1</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump	HSPF <u>        </u>
9. Floor type, insulation level:		c) Electric resistance	COP <u>        </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas	AFUE <u>        </u>
b) Wood, raised (R-value)	9b. <u>        </u>	e) Gas furnace, LPG	AFUE <u>        </u>
c) Concrete, raised (R-value)	9c. <u>        </u>	f) Other	8.40
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u>0.92</u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas	EF <u>        </u>
2. Masonry (Insulation R-value)	10A2. <u>        </u>	c) Gas fired, LPG	EF <u>        </u>
B. Adjacent:		d) Solar system with tank	EF <u>        </u>
1. Wood frame (Insulation R-value)	10B1. <u>        </u>	e) Dedicated heat pump with tank	EF <u>        </u>
2. Masonry (Insulation R-value)	10B2. <u>        </u>	f) Heat recovery unit	HeatRec% <u>        </u>
11. Ceiling type and insulation level		g) Other	<u>        </u>
a) Under attic	11a. <u>30.0</u>	16. HVAC credits claimed (Performance Method)	
b) Single assembly	11b. <u>        </u>	a) Ceiling fans	<u>        </u>
c) Knee walls/skylight walls	11c. <u>        </u>	b) Cross ventilation	<u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan	<u>No</u>
		d) Multizone cooling credit	<u>        </u>
		e) Multizone heating credit	<u>        </u>
		f) Programmable thermostat	<u>Yes</u>

\*Label required by Section R303.1.3 of the Florida Building Code, Energy 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/FL Zip: Lake City, FL