

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: Lot 2 Cannon Creek Place 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 Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Single-family 3. Number of units, if multiple family 1 4. Number of Bedrooms 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 1600 Conditioned floor area below grade (ft²) 0 7. Windows (158.0 sqft.) Description Area a. U-Factor: Dbl, U=0.40 158.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 4.032 ft. Area Weighted Average SHGC: 0.250 8. Floor Types (1600.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1600.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types (1417.2 sqft.) Insulation Area a. Face Brick - Wood, Exterior R=13.0 835.89 ft² b. Frame - Wood, Exterior R=13.0 421.33 ft² c. Frame - Wood, Adjacent R=13.0 160.00 ft² d. N/A R= ft² 10. Ceiling Types (1600.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 1600.00 ft² b. N/A R= ft² c. N/A R= ft² 11. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 320 12. Cooling systems kBtu/hr Efficiency a. Central Unit 20.9 SEER:16.00 13. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 24.9 HSPF:8.90 14. Hot water systems a. Electric Cap: 50 gallons b. Conservation features EF: 0.920 None 15. Credits Pstat
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Glass/Floor Area: 0.099	Total Proposed Modified Loads: 43.37	PASS
	Total Baseline Loads: 43.37	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <i>William H. Linn</i> DATE: 7/13/20 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: _____
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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 2 Cannon Creek Place		Bedrooms:	3	Address Type:	Lot Information					
Building Type:	User		Conditioned Area:	1600	Lot #	2					
Owner Name:	Trent Giebeig		Total Stories:	1	Block/Subdivision:	Cannon Creek Pl					
# of Units:	1		Worst Case:	No	PlatBook:						
Builder Name:	Trent Giebeig		Rotate Angle:	90	Street:						
Permit Office:	Columbia County		Cross Ventilation:		County:	Columbia					
Jurisdiction:			Whole House Fan:		City, State, Zip:	Lake City , FL , 32025					
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	1600	12800							
SPACES											
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
	1	Main	1600	12800	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	165.5 ft	0	1600 ft²	----	0.25	0.25	0.5	
ROOF											
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1789 ft²	0 ft²	Light	0.96	No	0.9	No	0
ATTIC											
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC				
_____	1	Full attic	Vented	300	1600 ft²	N	N				
CEILING											
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type			
_____	1	Under Attic (Vented)	Main	30	Blown	1600 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	N=>E	Exterior	Frame - Wood	Main	13	14		8		112.0 ft²		0.23	0.75	0
2	N=>E	Exterior	Frame - Wood	Main	13	14		8		112.0 ft²		0.23	0.75	0
3	N=>E	Exterior	Frame - Wood	Main	13	24	8	8		197.3 ft²		0.23	0.75	0
4	E=>S	Exterior	Face Brick - Wood	Main	13	30	1	8		240.7 ft²		0.23	0.75	0
5	S=>W	Garage	Frame - Wood	Main	13	20		8		160.0 ft²		0.23	0.75	0
6	S=>W	Exterior	Face Brick - Wood	Main	13	11	8	9	4	108.9 ft²		0.23	0.75	0
7	W=>N	Exterior	Face Brick - Wood	Main	13	4		9	4	37.3 ft²		0.23	0.75	0
8	S=>W	Exterior	Face Brick - Wood	Main	13	7	9	9	4	72.3 ft²		0.23	0.75	0
9	E=>S	Exterior	Face Brick - Wood	Main	13	4		8		32.0 ft²		0.23	0.75	0
10	S=>W	Exterior	Face Brick - Wood	Main	13	13		8		104.0 ft²		0.23	0.75	0
11	W=>N	Exterior	Face Brick - Wood	Main	13	30	1	8		240.7 ft²	0	0.23	0.75	0

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

WINDOWS													
Orientation shown is the entered orientation (=>) changed to As Built (rotated 90 degrees).													
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N=>E	1	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Roller shade	Exterior 1
2	N=>E	2	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	40.0 ft²	11 ft 6 in	1 ft 0 in	Roller shade	Exterior 1
3	N=>E	3	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	Roller shade	Exterior 1
4	N=>E	3	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Roller shade	Exterior 1
5	E=>S	4	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	8.0 ft²	1 ft 6 in	1 ft 0 in	Roller shade	Exterior 1
6	S=>W	6	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Roller shade	Exterior 1
7	S=>W	6	Vinyl	Double (Tinted)	Yes	0.4	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Roller shade	Exterior 1

GARAGE					
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	400 ft²	400 ft²	60 ft	8 ft	1

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000356	1493.3	81.98	154.18	.2719	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/	Split	HSPF:8.9	24.87 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: 16	20.91 kBtu/hr	630 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	50 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"/>	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
		Location	R-Value	Area	Location	Area								
<input checked="" type="checkbox"/>	1	Attic	6	320 ft²	Attic	80 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES														
Programable Thermostat: Y						Ceiling Fans:								
Cooling	Heating	Venting	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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	80	80	80	80
	PM	80	80	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
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	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: William H. Freeman

Rating Compant: William H. Freema

Date: 7/13/20

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 100****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>No</u>	13. Cooling system:	Capacity <u>20.9</u>
6. Conditioned floor area (sq. ft.)	6. <u>1600</u>	a) Split system	SEER <u>16.0</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>158.0</u>	e) Other	<u> </u>
8. Skylights		14. Heating system:	Capacity <u>24.9</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u>8.9</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	<u> </u>
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>13.0</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 32025