

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)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

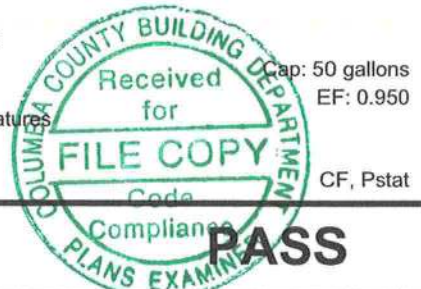
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 35 Crosswinds Subdivision Street: Anyplace City, State, Zip: Lake City, FL, 32055 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 Detached 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) 1660 Conditioned floor area below grade (ft²) 0 7. Windows (119.0 sqft.) Description Area a. U-Factor: Dbl, U=0.55 119.00 ft² SHGC: SHGC=0.45 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.450 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (1660.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1660.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Type \$1639.5 sqft.) Insulation Area a. Face Brick - Wood, Exterior R=13.0 1459.50 ft² b. Frame - Wood, Adjacent R=13.0 180.00 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (1660.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 1660.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 400 13. Cooling systems kBtu/hr Efficiency a. Central Unit 15.9 SEER:14.00 14. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 25.0 HSPF:8.40 15. Hot water systems a. Electric Cap: 50 gallons b. Conservation features EF: 0.950 None c. CF, Pstat 16. Credits
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Glass/Floor Area: 0.072	Total Proposed Modified Loads: 41.32	Total Baseline Loads: 41.45
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>William H. Freeman</u> DATE: <u>10/28/21</u> 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).
- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.040 Qn for whole house.

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Lot 35 Crosswinds Subdivisio	Bedrooms:	3	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	1660	Lot #	35
Owner Name:	Trent Giebeig	Total Stories:	1	Block/Subdivision:	Crosswinds Sub
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Trent Giebeig	Rotate Angle:	0	Street:	Anyplace
Permit Office:	Columbia County	Cross Ventilation:	No	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32055
Family Type:	Detached				
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	1660	14940

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1660	14940	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	182 ft	0	1660 ft²	----	0.25	0.5	0.25

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1856 ft²	0 ft²	Medium	N	0.75	Yes	0.9	Yes	0	26.57

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1660 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	1660 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Omt	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	Exterior	Face Brick - Wood	Main	13	15	6	9		139.5 ft²		0.23	0.75	0
2	N	Exterior	Face Brick - Wood	Main	13	14	0	9		126.0 ft²		0.23	0.75	0
3	N	Exterior	Face Brick - Wood	Main	13	26	10	9		241.5 ft²		0.23	0.75	0
4	E	Exterior	Face Brick - Wood	Main	13	30	1	9		270.8 ft²		0.23	0.75	0
5	S	Garage	Frame - Wood	Main	13	20	0	9		180.0 ft²		0.23	0.75	0
6	S	Exterior	Face Brick - Wood	Main	13	14	9	9		132.8 ft²		0.23	0.75	0
7	W	Exterior	Face Brick - Wood	Main	13	4	8	9		42.0 ft²		0.23	0.75	0
8	S	Exterior	Face Brick - Wood	Main	13	7	9	9		69.8 ft²		0.23	0.75	0
9	E	Exterior	Face Brick - Wood	Main	13	4	8	9		42.0 ft²		0.23	0.75	0
10	S	Exterior	Face Brick - Wood	Main	13	13	10	9		124.5 ft²		0.23	0.75	0
11	W	Exterior	Face Brick - Wood	Main	13	30	1	9		270.8 ft²		0.23	0.75	0

DOORS

✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N	Insulated	Main	None	.4	6		6	8	40 ft²
2	S	Wood	Main	None	.46	2	8	6	8	17.8 ft²
3	S	Wood	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N	1	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
2	N	3	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	9.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
3	N	3	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
4	E	4	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	20.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
5	E	4	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	9.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
6	S	6	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	36.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
7	S	10	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	382.8 ft²	382.8 ft²	64 ft	9 ft	11

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.0004	1743	95.63	179.53	.1438	7

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM										
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts		
✓	1	Electric Heat Pump/	Split	Singl	HSPF:8.4	25.03 kBtu/hr	1	sys#1		

COOLING SYSTEM										
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	Split	Singl	SEER: 14	15.92 kBtu/hr	480 cfm	0.75	1	sys#1

HOT WATER SYSTEM										
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation	
✓	1	Electric	None	Garage	0.95	50 gal	60 gal	120 deg	None	

SOLAR HOT WATER SYSTEM										
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF			
✓	None	None			ft²					

DUCTS															
✓	#	--- Supply ---			--- Return ---			Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area								Heat	Cool
✓	1	Attic	6	400 ft²	Attic	100 ft²	Proposed Qn	Main	--- cfm	66.4 cfm	0.04	0.50	1	1	

TEMPERATURES														
Programable Thermostat: Y					Ceiling Fans:									
Cooling	Heating	Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
			[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
			[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec

Thermostat Schedule: FloridaCode 2014														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	
Cooling (WEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	
Heating (WD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	
Heating (WEH)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

The lower the EnergyPerformance Index, the more efficient the home.

Anyplace, Lake City, FL, 32055

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Face Brick - Wood, Exterior	R=13.0	1459.50 ft ²
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	180.00 ft ²
4. Number of Bedrooms	3		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1660		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	1660.00 ft ²
a. U-Factor:	DbI, U=0.55	119.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.45		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	12. Ducts, location & insulation level	R	ft ²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Main	6	400
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	15.9	SEER:14.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	25.0	HSPF:8.40
Area Weighted Average Overhang Depth:	1.500 ft.		15. Hot water systems	Cap: 50 gallons	
Area Weighted Average SHGC:	0.450		a. Electric	EF: 0.95	
8. Skylights	Description	Area	b. Conservation features		
a. U-Factor(AVG):	N/A	ft ²	None		
SHGC(AVG):	N/A		Credits (Performance method)		
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	1660.00 ft ²			
b. N/A	R=	ft ²			
c. N/A	R=	ft ²			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction 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: _____



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.