

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: Boyd Residence Street: 497 SW Lunsford Terrace City, State, Zip: Lake City, FL, 32025 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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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) 2279 Conditioned floor area below grade (ft²) 0 7. Windows(275.0 sqft.) Description Area a. U-Factor: Dbl, U=0.40 272.00 ft² SHGC: SHGC=0.60 b. U-Factor: Dbl, U=0.40 3.00 ft² SHGC: SHGC=0.25 c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.268 ft Area Weighted Average SHGC: 0.596 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.7 2279.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2028.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2028.00 ft² b. N/A R= ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types(2279.0 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 2279.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts, location & insulation level R ft² a. a. Sup: Attic, Ret: Attic, AH: Main 8 156.8 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 20.8 SEER:22.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 29.8 HSPF:8.90 15. Hot Water Systems Cap: 80 gallons a. Electric EF: 0.920 b. Conservation features None 16. Credits CF, Pstat
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Glass/Floor Area: 0.121	Total Proposed Modified Loads: 50.68	Total Baseline Loads: 52.49
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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: _____ 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 0.030 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:	Boyd Residence	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	2279	Lot #:	—
Owner:		Total Stories:	1	Block/SubDivision:	—
Builder Name:		Worst Case:	No	PlatBook:	—
Permit Office:	Columbia County Building Dept.	Rotate Angle:	0	Street:	497 SW Lunsford Terrace
Jurisdiction:		Cross Ventilation:	No	County:	Columbia
Family Type:	Detached	Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32025
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2022	Shielding:	Moderate/Rural		
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_REGIONA	32 92	70 75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	2279	20511

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2279	20511	Yes	4	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2279 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	0.622599988079071	2279 ft	0.420	—	0.26	0.74	0.00	

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Composition shingles	2469 ft²	474 ft²	Medium	N	0.85	No	0.9	No	0	22.62

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	2279 ft²	N	Y

CEILING

(Total Exposed Area = 2279 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	38.0	Blown	2279.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 2028 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	48.0	0	9.0	0	432.0	0.084		0.23	0.75	0 %		
___ 2	E	Exterior	Frame - Wood	Main	13.0	65.0	8	9.0	0	591.0	0.084		0.23	0.75	0 %		
___ 3	S	Exterior	Frame - Wood	Main	13.0	46.0	0	9.0	0	414.0	0.084		0.23	0.75	0 %		
___ 4	W	Exterior	Frame - Wood	Main	13.0	65.0	8	9.0	0	591.0	0.084		0.23	0.75	0 %		

DOORS												(Total Exposed Area = 123 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	E		Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		
___ 2	S		Insulated	Main	None	0.40	6.00	0	6.00	8	40.0ft²		
___ 3	W		Insulated	Main	None	0.40	3.00	6	6.00	8	23.3ft²		
___ 4	E		Wood	Main	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 5	W		Wood	Main	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS														(Total Exposed Area = 275 sq.ft.)	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	Overhang Depth	Separation	Interior Shade	Screening	
___ 1	N	1	Vinyl	Low-E Double	Yes	0.40	0.25	Y	N	3.0ft²	2.0 ft 0 in	0.0 ft 0 in	None	None	
___ 2	N	1	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	18.0ft²	2.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None	
___ 3	N	1	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	6.0ft²	2.0 ft 0 in	0.0 ft 0 in	None	None	
___ 4	E	2	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	36.0ft²	2.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None	
___ 5	E	2	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	54.0ft²	7.0 ft 4 in	0.0 ft 0 in	Drapes/blinds	None	
___ 6	E	2	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	20.0ft²	7.0 ft 4 in	0.0 ft 0 in	Drapes/blinds	None	
___ 7	E	2	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	12.0ft²	2.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None	
___ 8	W	4	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	54.0ft²	2.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None	
___ 9	W	4	Vinyl	Low-E Double	Yes	0.40	0.60	N	N	72.0ft²	9.0 ft 0 in	0.0 ft 0 in	Drapes/blinds	None	

INFILTRATION									
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00040	2393	131.28	246.47	0.1438	7.0	All

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

HEATING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Geothermal Entry	Heat Pump Power	Ducts Volt	Block Current
___ 1	Electric Heat Pump	Single/Single		HSPF: 8.90	29.8		0.00	0.00	0.00 sys#1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
1	Central Unit	Single/Single		SEER:22.0	20.8	630	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
1	Electric	None	Main	0.92 (0.92)	80.00 gal	38 gal	120 deg	Standard	=>R-3	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 #	Location	Supply R-Value	Area	Location	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
1	Attic	8.0	157 ft²	Attic	8.0	39 ft²	Prop. Leak Free	Main	—	—	0.03	0.50	1 1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans: Y

Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

✓ Thermostat Schedule: HERS 2006 Reference	Schedule Type	1	2	3	4	5	6	Hours 7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	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
Heating (WD)	AM PM	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	68 68	68 68	68 68	68 68	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

497 SW Lunsford Terrace ,Lake City,FL,32025

1. New construction or existing	New (From Plans)	10. Wall Types(2028.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	2028.00 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	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 above grade (ft ²)	2279	11. Ceiling Types(2279.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Under Attic (Vented)	R=38.0	2279.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	Dbl, U=0.40	c. N/A	R=	ft ²
SHGC:	SHGC=0.60	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	Dbl, U=0.40	a. a. Sup: Attic, Ret: Attic, AH: Main	8	156.8
SHGC:	SHGC=0.25	b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	5.268 ft	a. Central Unit	20.8	SEER:22.00
Area Weighted Average SHGC:	0.596	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	29.8	HSPF:8.90
U-Factor:(AVG)	N/A			
SHGC(AVG):	N/A	15. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 80 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.7		EF: 0.920	
b. N/A	R=	b. Conservation features		
c. N/A	R=			
		16. Credits		None
				CF, Pstat

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: 497 SW Lunsford Terrace

City/FL Zip: Lake City,FL,32025



*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.