

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

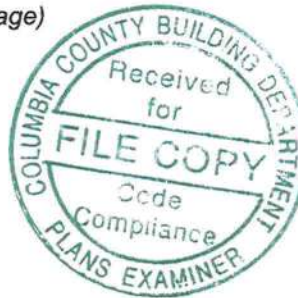
**Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method**

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

FORM R405-2017

Project Name:	Brown Residence
Street:	
City, State, Zip:	Lake City, FL, 32055
Owner:	
Design Location:	FL, Gainesville
Builder Name:	
Permit Office:	
Permit Number:	
Jurisdiction:	
County:	Columbia (Florida Climate Zone 2)

New construction or existing	New (From Plans)	Single-family	1	1	No	1029	0	Area	135.00 ft²	a. U-Factor: SHGC=0.50 Sgl, U=0.55	Windows(135.0 sqft.)	Area Weighted Average Overhang Depth: 0.000 ft.	Area Weighted Average SHGC: 0.500	Floor Types (1029.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A	Insulation Area R=0.7 1029.00 ft²	R=	ft²
Single family or multiple family																	
Number of units, if multiple family																	
Number of Bedrooms																	
Is this a worst case?																	
Conditioned floor area above grade (ft²)																	
Conditioned floor area below grade (ft²)																	
9. Wall Types(1330.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A																	
10. Ceiling Types (1029.0 sqft.) a. Cathedral/Single Assembly (Unvented) b. N/A c. N/A d. N/A																	
11. Ducts a. Sup: Attic, Ret: Attic, AH: Main b. N/A c. N/A																	
12. Cooling systems a. Central Unit																	
13. Heating systems a. Electric Heat Pump																	
14. Hot water systems a. Electric																	
b. Conservation features Heat Recovery Unit																	
15. Credits CF, Pstat																	

Glass/Floor Area: 0.131	Total Proposed Modified Loads: 34.78	Total Baseline Loads: 36.40	PASS
1. New construction or existing	2. Single family or multiple family	3. Number of units, if multiple family	4. Number of Bedrooms
5. Is this a worst case?	6. Conditioned floor area above grade (ft²)	7. Conditioned floor area below grade (ft²)	8. Floor Types (1029.0 sqft.)
9. Wall Types(1330.0 sqft.)	10. Ceiling Types (1029.0 sqft.)	11. Ducts	12. Cooling systems
13. Heating systems	14. Hot water systems	15. Credits	16. Other

OWNER/AGENT: _____

DATE: _____

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: _____

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

BUILDING OFFICIAL: _____

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.



- 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

FORM R405-2017

PROJECT

Title:	Brown Residence
Building Type:	User
Owner Name:	1
# of Units:	1
Builder Name:	
Permit Office:	
Jurisdiction:	
Family Type:	Single-family
New/Existing:	New (From Plans)
Comment:	

Bedrooms:	1
Conditioned Area:	1029
Total Stories:	1
Worst Case:	No
Rotate Angle:	0
Cross Ventilation:	
Whole House Fan:	

Address Type:	Street Address
Lot #	
Block/Subdivision:	
PlatBook:	
Street:	
County:	Columbia
City, State, Zip:	Lake City, FL, 32055

CLIMATE

Design Location	TMV Site
Design Temp	97.5 %
Int Design Temp	2.5 %
Winter Summer	70 75
Degree Days	1305.5
Moisture	51
Design Daily Temp Range	Medium

BLOCKS

Number	1
Name	Block1
Area	1029
Volume	10804.5

SPACES

Number	1
Name	Main
Area	1029
Volume	10804.5
Kitchen	Yes
Occupants	2
Bedrooms	1
Infil ID	1
Finished	Yes
Cooled	Yes
Heated	Yes

FLOORS

#	1
Floor Type	Slab-On-Grade Edge Insulatio
Space	Main
Perimeter	134 ft
R-Value	0.7
Area	1029 ft²
Tile	0.2
Wood	0.8
Carpet	0

ROOF

#	1
Type	Hip
Materials	Composition shingles
Area	1237 ft²
Gable	0 ft²
Roof	Medium
Color	N
Rad	0.96
Solar	No
SA	0.9
Emitt	No
Emitt	1
Deck	33.7
Pitch	

ATTIC

#	1
Type	Partial cathedral cei
Ventilation	Unvented
Vent Ratio (1 in)	0
Area	1029 ft²
RBS	N
IRCC	N

CEILING

#	1
Ceiling Type	Space
Space	Cathedral/Single Assembly (Unvented Main
R-Value	30
Ins Type	Blown
Area	1029 ft²
Framing	0.11
Frac	Wood
Truss Type	

INPUT SUMMARY CHECKLIST REPORT

FORM R405-2017

WALLS														
#	Ornt	Adjacent To	Wall Type	Space	Cavity	Width	Height	Area	Sheathing	Framing	R-Value	Absor.	Solar Grade%	
1	N	Exterior	Frame - Wood	Main	19	24	6	10	0	245.0 ft²	0.23	0.75	0	
2	E	Exterior	Frame - Wood	Main	19	42	0	10	0	420.0 ft²	0.23	0.75	0	
3	S	Exterior	Frame - Wood	Main	19	24.5	10	10	0	245.0 ft²	0.23	0.75	0	
4	S	Exterior	Frame - Wood	Main	19	42	0	10	0	420.0 ft²	0.23	0.75	0	
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width	Height	Area						
1	N	Insulated	Main	None	.46	3	6	18						
2	S	Insulated	Main	None	.46	6	6	36						
WINDOWS														
Orientation shown is the entered, Proposed orientation.														
#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Shade	Screening	
1	N	1	Vinyl	Low-E Single	Yes	0.55	0.5	N	15.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None	
2	E	2	Vinyl	Low-E Single	Yes	0.55	0.5	N	75.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None	
3	S	4	Vinyl	Low-E Single	Yes	0.55	0.5	N	45.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqlA	ACH	ACH 50						
1	Wholehouse	Proposed ACH(50)	.000334	900.4	49.43	92.96	.1399	5						
HEATING SYSTEM														
#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts							
1	Electric Heat Pump/	Split	Singl	HSPF:8.7	38.9 kBTU/hr	1	sys#1							
COOLING SYSTEM														
#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts					
1	Central Unit/	None	Singl	SEER: 16	28 kBTU/hr	720 cfm	0.85	1	sys#1					
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation						
1	Electric	None	Main	0.98	50 gal	70 gal	120 deg	Heat Recovery Unit						
SOLAR HOT WATER SYSTEM														
FSEC	Cert #	Company Name	System Model #	Collector Model #	Area	Storage	Volume	FEF						
None	None	None			ft²									

DUCTS												
✓	#	Supply		Return		Area	Leakage Type	Air Handler	CFM 25		CFM25	HVAC #
		Location	R-Value	Area	Location				Area	TOT		
TEMPERATURES												
Programable Thermostat: Y												
Ceiling Fans:												
Cooling												
Heating												
Venting												
Schedule Type												
Thermostat Schedule: HERS 2006 Reference												
Hours												
MASS												
Mass Type												
Area												
Thickness												
Furniture Fraction												
Space												
Main												
Default(8 lbs/sq.ft.)												
0 ft²												
0 ft												
0.3												
Main												

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts b) Return ducts c) AHU location
3. No. of units (if multiple-family)	3. 1	R 6.0 R 6.0 Main
4. Number of bedrooms	4. 1	
5. Is this a worst case? (yes/no)	5. No	
6. Conditioned floor area (sq. ft.)	6. 1029	
7. Windows, type and area	7a. 0.550 7b. 0.500 7c. 135.0	13. Cooling system: a) Split system b) Single package c) Ground/water source SEER/COP d) Room unit/PTAC e) Other
8. Skylights	8a. NA 8b. NA	14. Heating system: a) Split system heat pump b) Single package heat pump c) Electric resistance d) Gas furnace, natural gas e) Gas furnace, LPG f) Other
9. Floor type, insulation level:	9a. 0.7 9b. 9c.	15. Water heating system a) Electric resistance b) Gas fired, natural gas c) Gas fired, LPG d) Solar system with tank e) Dedicated heat pump with tank f) Heat recovery unit g) Other
10. Wall type and insulation:	10A1. 19.0 10A2. 10B1. 10B2.	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat
11. Ceiling type and insulation level	11a. 11b. 30.0 11c. 11d. No	

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 32055