

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method



Project Name: Buddy Register Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: 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      2 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      792 Conditioned floor area below grade (ft²)      0 7. Windows(99.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.26      99.00 ft² SHGC:      SHGC=0.20 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:      0.200 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= 0.0      792.00 ft² b. N/A      R=      ft² c. N/A      R=      ft²	10. Wall Types(1160.0 sqft.)      Insulation      Area a. Frame - Wood, Exterior      R=13.0      1160.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² d. N/A      R=      ft² 11. Ceiling Types(792.0 sqft.)      Insulation      Area a. Cathedral/Single Assembly (Vented)      R=44.0      792.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² 12. Ducts, location & insulation level      R      ft² a. a. Sup: Main, Ret: Main, AH: Main      8      1 b. c. 13. Cooling Systems      kBtu/hr      Efficiency a. PTAC and Room Unit      24.0      EER:21.00 14. Heating Systems      kBtu/hr      Efficiency a. Electric Heat Pump      24.0      HSPF:8.50 15. Hot Water Systems a. Electric      Cap: 40 gallons EF: 0.920 b. Conservation features None CF, Pstat 16. Credits
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Glass/Floor Area: 0.125	Total Proposed Modified Loads: 22.59	<b>PASS</b>
	Total Baseline Loads: 33.07	

  

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 1-6-22 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 4.72 ACH50 (R402.4.1.2).

## INPUT SUMMARY CHECKLIST REPORT

## PROJECT

Title:	Buddy Register	Bedrooms:	2	Address type:	Street Address
Building Type:	User	Conditioned Area:	792	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL,
Family Type:	Detached	Terrain:	Rural		
New/Existing:	New (From Plans)	Shielding:	Moderate/Rural		
Year Construct:	2022				
Comment:					

## CLIMATE

<input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> Number	Name	Area	Volume
___ 1	Block1	792	7920

## SPACES

<input checked="" type="checkbox"/> Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	792	7920	Yes	4	2	Yes	Yes	Yes

## FLOORS

(Total Exposed Area = 792 sq.ft.)

<input checked="" type="checkbox"/> #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	116	0	792 ft	0.600	---	0.33	0.33	0.34

## ROOF

<input checked="" type="checkbox"/> #	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	816 ft²	100 ft²	Light	N	0.8	No	0.9	No	0	14.04

## ATTIC

<input checked="" type="checkbox"/> #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	792 ft²	N	N

## CEILING

(Total Exposed Area = 792 sq.ft.)

<input checked="" type="checkbox"/> #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Cathedral/Single Assembly(Unvented)	Main	44.0	Blown	792.0ft²	0.051	0.11	Wood

# INPUT SUMMARY CHECKLIST REPORT

## WALLS

(Total Exposed Area = 1160 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	36.0	0	10.0	0	360.0	0.094		0.23	0.75	0 %
2	E	Exterior	Frame - Wood	Main	13.0	22.0	0	10.0	0	220.0	0.094		0.23	0.75	0 %
3	S	Exterior	Frame - Wood	Main	13.0	36.0	0	10.0	0	360.0	0.094		0.23	0.75	0 %
4	W	Exterior	Frame - Wood	Main	13.0	22.0	0	10.0	0	220.0	0.094		0.23	0.75	0 %

## DOORS

(Total Exposed Area = 40 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²
2	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²

## WINDOWS

(Total Exposed Area = 99 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp Storm	Area	Overhang Depth	Separation	Interior Shade	Screening
1	E	2	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
2	S	3	Vinyl	Low-E Double	Yes	0.26	0.20	N N	45.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
3	W	4	Vinyl	Low-E Double	Yes	0.26	0.20	N N	15.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
4	W	4	Vinyl	Low-E Double	Yes	0.26	0.20	N N	9.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None

## INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
1	Wholehouse	Proposed ACH(50)	0.00030	623	34.16	64.12	0.1010	4.7	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	Volt	Current	Ducts	Block
1	Electric Heat Pump	None/Single		HSPF: 8.50	24.0		0.00	0.00	0.00	sys#1	1

## COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
1	PTAC and Room Unit	None/Single		EER:21	24.0	720	0.85	sys#1	1



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

## ESTIMATED ENERGY PERFORMANCE INDEX\* = 68

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1160.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1160.00 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. N/A	R=	ft <sup>2</sup>
4. Number of Bedrooms	2	c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No	d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area above grade (ft <sup>2</sup> )	792	11. Ceiling Types(792.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft <sup>2</sup> )	0	a. Cathedral/Single Assembly (Vented)	R=44.0	792.00 ft <sup>2</sup>
7. Windows**	Description	b. N/A	R=	ft <sup>2</sup>
a. U-Factor:	DbI, U=0.26	c. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.20	12. Ducts, location & insulation level	R	ft <sup>2</sup>
b. U-Factor:	N/A	a. a. Sup: Main, Ret: Main, AH: Main	8	1
SHGC:	N/A	b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	1.500 ft	a. PTAC and Room Unit	24.0	EER:21.00
Area Weighted Average SHGC:	0.200	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	24.0	HSPF:8.50
U-Factor:(AVG)	N/A	15. Hot Water Systems		
SHGC(AVG):	N/A	a. Electric	Cap: 40 gallons	
9. Floor Types	Insulation		EF: 0.920	
a. Slab-On-Grade Edge Insulation	R= 0.0	b. Conservation features		
b. N/A	R=			
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: \_\_\_\_\_ City/FL Zip: „FL,



\*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.