

20

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Adams River House		Builder Name:	
Street:		Permit Office:	
City, State, Zip: , FL,		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, Gainesville		County: columbia(Florida Climate Zone 2)	

1. New construction or existing	New (From Plans)	10. Wall Types(1184.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1184.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	2	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1368	11. Ceiling Types(1368.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	1368.00 ft ²
7. Windows(251.7 sqft.)	Description	b. N/A		
a. U-Factor:	DbI, U=0.26	c. N/A		
SHGC:	SHGC=0.20	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1442 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Exterior	6	274
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Central Unit	30.0	SEER:16.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	30.0	HSPF:8.50
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric Tankless		Cap: 1 gallons
a. Raised Floor	R= 19.0			EF: 0.920
b. N/A	R=	b. Conservation features		
c. N/A	R=			None
		17. Credits		CF, Pstat

Glass/Floor Area: 0.184

Total Proposed Modified Loads: 45.85

Total Baseline Loads: 47.26

PASS

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

PREPARED BY: 

DATE: 6-16-23

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: _____



- 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.
- Default duct leakage does not require a Duct Leakage Test Report.
- 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 4.89 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Adams River House	Bedrooms:	2	Address type:	Street Address
Building Type:	User	Conditioned Area:	1368	Lot #:	—
Owner:		Total Stories:	1	Block/SubDivision:	—
Builder Home ID:		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:	2023				
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	1368	10944 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1368	10944	Yes	4	2	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1368 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Raised Floor	Main	---	---	1368 ft	0.052	19	0.20	0.60	0.20

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	1442 ft ²	228 ft ²	Medium	N	0.85	No	0.9	No	0	18.43

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	1368 ft ²	N	N

CEILING

(Total Exposed Area = 1368 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	1368.0ft ²	0.053	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

(Total Exposed Area = 1184 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	S	Exterior	Frame - Wood	Main	13.0	38.0	0	8.0	0	304.0	0.094		0.23	0.75	0 %
2	W	Exterior	Frame - Wood	Main	13.0	36.0	0	8.0	0	288.0	0.094		0.23	0.75	0 %
3	N	Exterior	Frame - Wood	Main	13.0	38.0	0	8.0	0	304.0	0.094		0.23	0.75	0 %
4	E	Exterior	Frame - Wood	Main	13.0	36.0	0	8.0	0	288.0	0.094		0.23	0.75	0 %

DOORS

(Total Exposed Area = 120 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	W	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²
2	S	Exterior	Insulated	Main	None	0.40	9.00	0	6.00	8	60.0ft²
3	S	Exterior	Insulated	Main	None	0.40	6.00	0	6.00	8	40.0ft²

WINDOWS

(Total Exposed Area = 252 sq.ft.)

✓	#	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
—	1	S	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.7	2	2.50	3.33	1.5	2.3	None	None
—	2	S	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None
—	3	S	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	60.0	1	9.00	6.67	1.5	2.3	None	None
—	4	S	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	40.0	1	6.00	6.67	1.5	2.3	None	None
—	5	W	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	2.3	None	None
—	6	W	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None
—	7	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None
—	8	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None
—	9	E	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	45.0	3	3.00	5.00	1.5	2.3	None	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
1	Wholehouse	Proposed ACH(50)	0.00025	892	48.93	91.87	0.0958	4.9	All	10944 cu ft

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 HeatPump--- Entry Power Volt	Current	Ducts	Block
1	Electric Heat Pump	None/Single		HSPF: 8.50	30.0	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

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM(Continued)

___ 1 Central Unit None/Single SEER:16.0 30.0 900 0.85 sys#1 1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	Tankless	Exterior	0.92 (0.92)	1.00 gal	50 gal	120 deg	Standard	None	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	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___ 1	Attic	6.0	274 ft²	Attic	6.0	68 ft²	Default Leakage	Exterior	(Default)	(Default)		1	1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
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 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
___ Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

„FL,

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U-Factor:(AVG)	N/A	a. Electric Heat Pump	30.0	HSPF:8.50
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. ElectricTankless	Cap: 1 gallons	
a. Raised Floor	R= 19.0		EF: 0.920	
b. N/A	R=	b. Conservation features		
c. N/A	R=	17. 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.