

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Tolar Residence		Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)		
Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville				
1. New construction or existing	New (From Plans)	10. Wall Types(1776.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1422.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	354.00 ft ²
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1891	11. Ceiling Types(1891.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	1891.00 ft ²
7. Windows(258.0 sqft.)	Description	12. Roof(Comp. Shingles, Vented)	Deck R=0.0	2189 ft ²
a. U-Factor: Dbl, U=0.26	Area	13. Ducts, location & insulation level	R	ft ²
SHGC: SHGC=0.20	258.00 ft ²	a. Sup: Attic, Ret: Attic, AH: Garage	6	378
b. U-Factor: N/A	ft ²	b.		
SHGC:		c.		
c. U-Factor: N/A	ft ²	14. Cooling Systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	36.0	SEER2:15.00
Area Weighted Average Overhang Depth:	1.500 ft	15. Heating Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Electric Heat Pump	36.0	HSPF2:7.50
8. Skylights	Description	16. Hot Water Systems	Cap: 50 gallons	
U-Factor:(AVG)	N/A	a. Electric	EF: 0.920	
SHGC(AVG):	N/A	b. Conservation features		
9. Floor Types	Insulation	17. Credits	None	
a. Slab-On-Grade Edge Insulation	R= 0.0		CF, Pstat	
b. N/A	R=			
c. N/A	R=			

Glass/Floor Area: 0.136

Total Proposed Modified Loads: 50.19

PASS

Total Baseline Loads: 52.73

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY: 

DATE: 9-25-25

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.
- 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: Tolar Residence	Address type: Street Address
Building Type: User	Bedrooms: 3
Owner:	Conditioned Area: 1891
Builder Home ID:	Total Stories: 1
Builder Name:	Worst Case: No
Permit Office:	Rotate Angle: 0
Jurisdiction:	Cross Ventilation: Whole House Fan:
Family Type: Detached	Terrain: Rural
New/Existing: New (From Plans)	Shielding: Moderate/Rural
Year Construct: 2025	
Comment:	

CLIMATE

✓ Design Location	Tmy Site	Design Temp	Int Design Temp	Heating	Design	Daily temp
		97.5%	2.5%	Winter	Degree Days	Range
FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5 51 Medium

BLOCKS

✓ Number	Name	Area	Volume
1	Block1	1891	17019 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	Main	1891	17019	Yes	6	3	Yes	Yes	Yes

FLOORS (Total Exposed Area = 1891 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
1	Slab-On-Grade Edge Ins	Main	198	1891 sqft	0.0	---	0.563	0 (ft)/0 (ft)	0.20	0.60 0.20

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Gable or shed	Composition shingles	2189 ft ²	552 ft ²	0.11	Dark	N	0.85	No	0.9	No	0	30.26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Full attic	Vented	300	1891 ft ²	N	N

CEILING (Total Exposed Area = 1891 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	1891.0ft ²	0.030	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1776 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Main	13.0	64.0	8	9.0	0	582.0	0.084	0.23	0.75	0 %	
___ 2	W	Exterior	Frame - Wood	Main	13.0	34.0	0	9.0	0	306.0	0.084	0.23	0.75	0 %	
___ 3	S	Exterior	Frame - Wood	Main	13.0	41.0	4	9.0	0	372.0	0.084	0.23	0.75	0 %	
___ 4	SW	Garage	Frame - Wood	Main	13.0	39.0	4	9.0	0	354.0	0.084	0.23	0.75	0 %	
___ 5	W	Exterior	Frame - Wood	Main	13.0	18.0	0	9.0	0	162.0	0.084	0.23	0.75	0 %	

DOORS (Total Exposed Area = 108 sq.ft.)											
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	N	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft ²
___ 2	S	Exterior	Insulated	Main	None	0.46	5.00	0	8.00	0	40.0ft ²
___ 3	SW	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft ²

WINDOWS (Total Exposed Area = 258 sq.ft.)																
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft ²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	108.0	6	3.00	6.00	1.5	1.3	None	None
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	42.0	2	3.00	7.00	1.5	1.3	None	None
___ 3	W	2	Vinyl	Low-E Double	Y	0.26	0.20	N	6.0	1	4.00	1.50	1.5	1.3	None	None
___ 4	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	90.0	5	3.00	6.00	1.5	1.3	None	None
___ 5	W	5	Vinyl	Low-E Double	Y	0.26	0.20	N	12.0	1	2.00	6.00	1.5	1.3	None	None

INFILTRATION												
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume		
___ 1	Wholehouse	Proposed ACH(50)	0.00040	1986	108.93	204.51	0.1438	7.0	All	17019 cu ft		

GARAGE											
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation			
___ 1	638 ft ²	27.3 ft ²	23.3 ft ²	638 ft ²	69 ft	638 ft	8 ft	1			

MASS											
✓ #	Mass Type	Area	Thickness	Furniture Fraction			Space				
___ 1	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30			Main				

HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Geothermal Entry	HeatPump Power	HeatPump Volt	HeatPump Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	36.0		0.00	0.00	0.00	sys#1	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	None/Single		SEER2:15.0	36.0	1080	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.92 (0.92)	50.0 gal	60 gal	120 deg	Standard	Yes	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 #	Supply Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC #	Heat Cool
___ 1	Attic	6.0	378 ft ²	Attic	6.0	95 ft ²	Prop. Leak Free	Garage	---	0.030	Yes	0.50	1	1

TEMPERATURES

Programable Thermostat: Y												Ceiling Fans: N													
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec	Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec													
✓ Thermostat Schedule: HERS 2006 Reference																									
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12												
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	PM	80	80	80	80	80	78	78	78	78	78	
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	80	80	80	PM	80	80	80	80	80	78	78	78	78	78	
___ Heating (WD)	AM	65	65	65	65	65	65	65	65	65	68	68	68	PM	68	68	68	68	68	68	68	68	68	68	
___ Heating (WEH)	AM	65	65	65	65	65	65	65	65	65	68	68	68	PM	68	68	68	68	68	68	68	68	68	68	