

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Marrero
 Street:
 City, State, Zip: , FL ,
 Owner:
 Design Location: FL, Gainesville

Builder Name: Amira
 Permit Office:
 Permit Number:
 Jurisdiction:
 County: Alachua (Florida Climate Zone 2)

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?	Yes
6. Conditioned floor area above grade (ft ²)	1407
Conditioned floor area below grade (ft ²)	0
7. Windows(152.7 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.29 152.67 ft ²
SHGC:	SHGC=0.32
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	1.000 ft.
Area Weighted Average SHGC:	0.320
8. Skylights	Area
c. U-Factor(AVG)	N/A ft ²
SHGC(AVG):	N/A
9. Floor Types (1407.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1407.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

10. Wall Type\$1656.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=19.0 1368.00 ft ²
b. Frame - Wood, Adjacent	R=13.0 288.00 ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
11. Ceiling Types (1407.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 1407.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
12. Ducts	R ft ²
a. Sup: Attic, Ret: Attic, AH: Garage	6 281.4
13. Cooling systems	kBtu/hr Efficiency
a. Central Unit	36.0 SEER:16.00
14. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	36.0 HSPF:9.00
15. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.980
b. Conservation features	
None	
16. Credits	Pstat

Glass/Floor Area: 0.109

Total Proposed Modified Loads: 36.83

Total Baseline Loads: 40.04

PASS

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

PREPARED BY: _____
 DATE: 6-25-21

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 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 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Marrero	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1407	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	Amira	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Alachua
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1407	12663

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1407	12663	Yes	1	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	184 ft	0	1407 ft²	----	1	0	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1524 ft²	0 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	1407 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	1407 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT**WALLS**

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___ 1	NE	Garage	Frame - Wood	Main	13	32	9	288.0 ft²		0.23	0.75	0
___ 2	N	Exterior	Frame - Wood	Main	19	30	9	270.0 ft²		0.23	0.75	0
___ 3	S	Exterior	Frame - Wood	Main	19	37	9	333.0 ft²		0.23	0.75	0
___ 4	E	Exterior	Frame - Wood	Main	19	63	9	567.0 ft²		0.23	0.75	0
___ 5	W	Exterior	Frame - Wood	Main	19	22	9	198.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
___ 1	NE	Insulated	Main	None	.32	2 8	6 8	17.8 ft²
___ 2	N	Insulated	Main	None	.32	6	8	48 ft²
___ 3	E	Insulated	Main	None	.32	6	6 8	40 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___ 1	N	2	Vinyl	Low-E Double	Yes	0.29	0.32	N	48.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 1
___ 2	E	4	Vinyl	Low-E Double	Yes	0.29	0.32	N	48.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 1
___ 3	E	4	Vinyl	Low-E Double	Yes	0.29	0.32	N	20.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 1
___ 4	E	4	Vinyl	Low-E Double	Yes	0.29	0.32	N	16.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 1
___ 5	W	5	Vinyl	Low-E Double	Yes	0.29	0.32	N	10.7 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 1
___ 6	W	5	Vinyl	Low-E Double	Yes	0.29	0.32	N	10.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 1

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	382.8 ft²	382.8 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000343	1266.3	69.47	130.43	.1232	6

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
___ 1	Electric Heat Pump/	Split	Singl	HSPF:9	36 kBtu/hr	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM												
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts		
✓	1	Central Unit/	Split	Singl	SEER: 16	36 kBtu/hr	1080 cfm	0.75	1	sys#1		

HOT WATER SYSTEM										
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation	
✓	1	Electric	None	Garage	0.98	50 gal	60 gal	120 deg	None	

SOLAR HOT WATER SYSTEM							
✓	FSEC	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS														
✓	#	---- Supply ----			---- Return ----			Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area	Leakage Type						Heat	Cool
✓	1	Attic	6	281.4 ft	Attic	70.35 ft	Default Leakage	Garage	(Default)	(Default)			1	1

TEMPERATURES														
Programable Thermostat: Y						Ceiling Fans:								
Cooling	Heating	Venting	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

MASS				
Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

, , FL,

1. New construction or existing	New (From Plans)	10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	1368.00 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	288.00 ft²
4. Number of Bedrooms	3	c. N/A	R=	ft²
5. Is this a worst case?	Yes	d. N/A	R=	ft²
6. Conditioned floor area (ft²)	1407	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	1407.00 ft²
a. U-Factor:	Dbl, U=0.29	b. N/A	R=	ft²
SHGC:	SHGC=0.32	c. N/A	R=	ft²
b. U-Factor:	N/A	12. Ducts, location & insulation level	R	ft²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	281.4
c. U-Factor:	N/A	13. Cooling systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	36.0	SEER:16.00
d. U-Factor:	N/A	14. Heating systems	kBtu/hr	Efficiency
SHGC:		a. Electric Heat Pump	36.0	HSPF:9.00
Area Weighted Average Overhang Depth:	1.000 ft.	15. Hot water systems		
Area Weighted Average SHGC:	0.320	a. Electric	Cap: 50 gallons	
8. Skylights	Description		EF: 0.98	
a. U-Factor(AVG):	N/A	b. Conservation features		
SHGC(AVG):	N/A	None		
9. Floor Types	Insulation	Credits (Performance method)	Pstat	
a. Slab-On-Grade Edge Insulation	R=0.0			
b. N/A	R=			
c. N/A	R=			

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: _____



*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.