


# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Rambo Residence Street: 305 S. 27th St City, State, Zip: Flagler Beach, FL, 32136 Owner: Design Location: FL, Daytona Beach	Builder Name: Lawrence Rambo Permit Office: Flagler Beach Permit Number: Jurisdiction: 281300
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Glass/Floor Area: 0.063	Total Proposed Modified Loads: 34.96 Total Standard Reference Loads: 61.59	PASS
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<p style="text-align: center;"><i>Jonathan Jacobs</i></p> <p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: _____                  DATE: <u>6/15/12</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____                  DATE: _____</p>	<p>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.</p> <div style="text-align: center;">  </div> <p>BUILDING OFFICIAL: _____                  DATE: _____</p>
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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 403.2.2.1.1.
- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist

**PROJECT**

Title:	Rambo Residence	Bedrooms:	2	Address Type:	Street Address
Building Type:	FLProp2010	Conditioned Area:	1793	Lot #	
Owner:		Total Stories:	3	Block/SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Lawrence Rambo	Rotate Angle:	0	Street:	305 S. 27th St
Permit Office:	Flagler Beach	Cross Ventilation:	No	County:	Flagler
Jurisdiction:	281300	Whole House Fan:	No	City, State, Zip:	Flagler Beach , FL , 32136
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

**CLIMATE**

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Daytona Beach	FL_DAYTONA_BEACH_I	2	38	92	70	75	789	56	Low

**BLOCKS**

Number	Name	Area	Volume
1	Block1	2424	24240
2	Block2	287	2870

**SPACES**

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	2424	24240	Yes	1.78827001	1	1	Yes	Yes	Yes
2	RoomsInBlock2	287	2870	No	0.21172998	1	2	Yes	Yes	Yes

**FLOORS**

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Floor over Garage	RoomsInBlock1	----	----	913 ft²	19	0	0	1
_____	2	Slab-On-Grade Edge Insulatio	RoomsInBlock2	34.5 ft	0	287 ft²	----	0	0	1

**ROOF**

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Flat	Flat tile/slate	1204 ft²	50 ft²	Medium	0.5	N	0.5	No	0	4.8

**ATTIC**

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	No attic	Unvented	0	1200 ft²	N	N

### CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
✓	1	Cathedral/Single Assembly (Unvent)	RoomsInBloc1	19	1200 ft²	0.1	Wood

### 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	N	Exterior	Concrete Block - Polystyrene	RoomsInBloc	7	47	6	10	0	475 ft²	0	0	0.5	0
✓	2	E	Exterior	Concrete Block - Polystyrene	RoomsInBloc	7	58	0	10	0	580 ft²	0	0	0.5	0
✓	3	S	Exterior	Concrete Block - Polystyrene	RoomsInBloc	7	47	6	10	0	475 ft²	0	0	0.5	0
✓	4	W	Exterior	Concrete Block - Polystyrene	RoomsInBloc	7	57	6	10	0	575 ft²	0	0	0.5	0
✓	5	N	Garage	Frame - Wood	RoomsInBloc	11	34	6	10	0	345 ft²	0	0.25	0.01	0
✓	6	N	Exterior	Concrete Block - Polystyrene	RoomsInBloc	7	14		10		140 ft²	0	0	0.5	0
✓	7	N	Exterior	Concrete Block - Polystyrene	RoomsInBloc	7	20		10		200 ft²	0	0	0.5	0
✓	8	N	RoomsIn	Interior Wall	RoomsInBloc	11	34	6	10		345 ft²	0	0	0.5	0

### DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	N	Wood	RoomsInBloc	None	0.39	6	0	7	0	42 ft²
✓	2	N	Wood	RoomsInBloc	None	0.39	6	0	7	0	21 ft²
✓	3	S	Wood	RoomsInBloc	None	0.39	6	0	7	0	42 ft²
✓	4	N	Wood	RoomsInBloc	None	0.39	6	0	7	0	63 ft²

### WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	N	1	Metal	Low-E Double	Yes	0.6	0.4	N	20 ft²	0 ft 1 in	4 ft 0 in	HERS 2006	None
✓	2	E	2	Metal	Low-E Double	Yes	0.6	0.4	N	4 ft²	0 ft 1 in	4 ft 0 in	HERS 2006	None
✓	3	E	2	Metal	Low-E Double	Yes	0.6	0.4	N	30 ft²	0 ft 1 in	4 ft 0 in	HERS 2006	None
✓	4	S	3	Metal	Low-E Double	Yes	0.6	0.4	N	40 ft²	0 ft 1 in	4 ft 0 in	HERS 2006	None
✓	5	W	4	Metal	Low-E Double	Yes	0.6	0.4	N	30 ft²	0 ft 1 in	4 ft 0 in	HERS 2006	None
✓	6	W	4	Metal	Low-E Double	Yes	0.6	0.4	N	27 ft²	0 ft 1 in	4 ft 0 in	HERS 2006	None
✓	7	N	6	Metal	Low-E Double	Yes	0.6	0.4	N	20 ft²	0 ft 1 in	14 ft 0 in	HERS 2006	None

### GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	912.9 ft²	0 ft²	64 ft	8 ft	1

INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50						
1	BySpaces	Proposed SLA	0.000360	1422.0	78.071	146.82	0.3653	5.6657						
2	BySpaces	Proposed SLA	0.000360	271.01	14.878	27.980	0.3653	5.6657						
HEATING SYSTEM														
✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts							
_____	1	Electric Heat Pump	None	HSPF: 7.7	23.4 kBtu/hr	1	sys#1							
_____	2	Electric Heat Pump	None	HSPF: 8	17.4 kBtu/hr	2	sys#2							
COOLING SYSTEM														
✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts					
_____	1	Central Unit	Split	SEER: 13	23.5 kBtu/hr	720 cfm	0.75	1	sys#1					
_____	2	Central Unit	Split	SEER: 13	17.4 kBtu/hr	522 cfm	0.7	2	sys#2					
HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
_____	1	Electric	None	RoomsInBlock	0.92	50 gal	50 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF							
_____	None	None			ft <sup>2</sup>									
DUCTS														
✓	#	---- Supply ----			---- Return ----			Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat Cool
_____	1	Attic	6	400 ft <sup>2</sup>	Attic	1 ft <sup>2</sup>	DSE=0.88	RoomsInBl	0.0 cfm	0.00 %	0.00	0.60	1	1
_____	2	RoomsInBloc	6	50 ft <sup>2</sup>	RoomsInBloc	20 ft <sup>2</sup>	DSE=0.88	RoomsInBl	0.0 cfm	0.00 %	0.00	0.60	2	2

## TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

Hours

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	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

# Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations  
Residential Whole Building Performance Method

ADDRESS: 305 S. 27th St  
Flagler Beach, FL, 32136

PERMIT #:

## MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	
	403.3.3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 57

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

305 S. 27th St, Flagler Beach, FL, 32136

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Concrete Block - Polystyrene Bead Agg	R=7.0	2445.00 ft <sup>2</sup>
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=11.0	345.00 ft <sup>2</sup>
4. Number of Bedrooms	2		c. Interior Wall, Interior	R=11.0	345.00 ft <sup>2</sup>
5. Is this a worst case?	No		d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area (ft <sup>2</sup> )	1793		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Cathedral/Single Assembly (Unvented)	R=19.0	1200.00 ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.60	171.00 ft <sup>2</sup>	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.40		c. N/A	R=	ft <sup>2</sup>
b. U-Factor:	N/A	ft <sup>2</sup>	11. Ducts		R
SHGC:			a. Sup: Attic, Ret: Attic, AH: RoomsInBlock1		6 400
c. U-Factor:	N/A	ft <sup>2</sup>	b. Sup: RoomsInBlock2, Ret: RoomsInBlock2, AH:		6 50
SHGC:			12. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:	N/A	ft <sup>2</sup>	a. Central Unit	23.5	SEER:13.00
SHGC:			b. Central Unit	17.4	SEER:13.00
Area Weighted Average Overhang Depth:	0.083 ft.		13. Heating systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.400		a. Electric Heat Pump	23.4	HSPF:7.70
8. Floor Types	Insulation	Area	b. Electric Heat Pump	17.4	HSPF:8.00
a. Floor over Garage	R=19.0	913.00 ft <sup>2</sup>	14. Hot water systems		Cap: 50 gallons
b. Slab-On-Grade Edge Insulation	R=0.0	287.00 ft <sup>2</sup>	a. Electric		EF: 0.92
c. N/A	R=	ft <sup>2</sup>	b. Conservation features		None
			15. Credits		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: \_\_\_\_\_



\*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 EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at [energygauge.com](http://energygauge.com) for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.