

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Marciano Residence  
 Street: 3088 County Road 138  
 City, State, Zip: Fort White, FL, 32038  
 Owner: Marciano Residence  
 Design Location: FL, Gainesville

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

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft <sup>2</sup> )	2083
Conditioned floor area below grade (ft <sup>2</sup> )	0
7. Windows(264.1 sqft.)	Description Area
a. U-Factor:	Sgl, U=0.33 264.08 ft <sup>2</sup>
SHGC:	SHGC=0.28
b. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
c. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
d. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
Area Weighted Average Overhang Depth:	6.806 ft.
Area Weighted Average SHGC:	0.280
8. Floor Types (2082.5 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2082.50 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>

9. Wall Types(1618.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=11.0 1618.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>
d. N/A	R= ft <sup>2</sup>
10. Ceiling Types (2083.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 2083.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>
11. Ducts	R ft <sup>2</sup>
a. Sup: Attic, Ret: Attic, AH: Attic	6 105
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	41.0 SEER:15.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	41.0 HSPF:9.00
14. Hot water systems	Cap: 50 gallons
a. Electric	EF: 0.950
b. Conservation features	
None	
15. Credits	CF, Pstat

Glass/Floor Area: 0.127

Total Proposed Modified Loads: 51.50

Total Baseline Loads: 52.22

**PASS**

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

PREPARED BY: Dino BlackwoodDATE: 6-17-2020

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 7.00 ACH50 (R402.4.1.2).

## INPUT SUMMARY CHECKLIST REPORT

## PROJECT

Title:	Marcano Residence	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2083	Lot #	
Owner Name:	Marcano Residence	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	3088 County Road 138
Permit Office:	Columbia County	Cross Ventilation:	No	County:	Columbia
Jurisdiction:	Columbia County	Whole House Fan:	No	City, State, Zip:	Fort White , FL , 32038
Family Type:	Single-family				
New/Existing:	New (From Plans)				
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_REGI	32	92	70	75	1305.5	51	Medium

## BLOCKS

Number	Name	Area	Volume
1	Entire House	2083	16664

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Living Room	216	1728	No	2		1	Yes	Yes	Yes
2	Closet 3	48	384	No	0		1	Yes	Yes	Yes
3	Bedroom 3	258	2064	No	1	1	1	Yes	Yes	Yes
4	Kitchen	204	1632	Yes	2		1	Yes	Yes	Yes
5	Bath	48	384	No	0		1	No	Yes	Yes
6	Hall	24	192	No	0		1	No	Yes	Yes
7	Bedroom 2	154	1232	No	1	1	1	Yes	Yes	Yes
8	Conversation Room	336	2688	No	2		1	Yes	Yes	Yes
9	AHU	18	144	No	0		1	No	Yes	Yes
10	Master Bedroom	310	2480	No	2	1	1	Yes	Yes	Yes
11	WIC 1	48	384	No	0		1	No	Yes	Yes
12	WIC 2	36	288	No	0		1	Yes	Yes	Yes
13	Master Bath	191	1528	No	0		1	Yes	Yes	Yes
14	Toilet	24	192	No	0		1	No	Yes	Yes
15	Laundry	100	800	No	0		1	Yes	Yes	Yes
16	Foyer	68	544	No	0		1	Yes	Yes	Yes

## FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Living Room	29 ft		216 ft²	----	1	0	0
_____	2	Slab-On-Grade Edge Insulatio	Closet 3	14 ft		48 ft²	----	1	0	0

## INPUT SUMMARY CHECKLIST REPORT

## FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	3	Slab-On-Grade Edge Insulatio	Bedroom 3	29 ft		258 ft²	----	1	0	0
_____	4	Slab-On-Grade Edge Insulatio	Kitchen	12 ft		204 ft²	----	1	0	0
_____	5	Slab-On-Grade Edge Insulatio	Bath	1 ft		48 ft²	----	1	0	0
_____	6	Slab-On-Grade Edge Insulatio	Hall	1 ft		24 ft²	----	1	0	0
_____	7	Slab-On-Grade Edge Insulatio	Bedroom 2	14 ft		154 ft²	----	1	0	0
_____	8	Slab-On-Grade Edge Insulatio	Conversation Roo	22 ft		336 ft²	----	1	0	0
_____	9	Slab-On-Grade Edge Insulatio	AHU	1 ft		18 ft²	----	1	0	0
_____	10	Slab-On-Grade Edge Insulatio	Master Bedroom	16 ft		310 ft²	----	1	0	0
_____	11	Slab-On-Grade Edge Insulatio	WIC 1	1 ft		48 ft²	----	1	0	0
_____	12	Slab-On-Grade Edge Insulatio	WIC 2	6 ft		36 ft²	----	1	0	0
_____	13	Slab-On-Grade Edge Insulatio	Master Bath	32.2 ft		190.5 ft²	----	1	0	0
_____	14	Slab-On-Grade Edge Insulatio	Toilet	1 ft		24 ft²	----	1	0	0
_____	15	Slab-On-Grade Edge Insulatio	Laundry	20 ft		100 ft²	----	1	0	0
_____	16	Slab-On-Grade Edge Insulatio	Foyer	8 ft		68 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	Metal	2256 ft²	0 ft²	Light	N	0.6	No	0.9	No	0	22.6

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	150	2083 ft²	N	N

## INPUT SUMMARY CHECKLIST REPORT

## CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Living Room	30	Batt	216 ft²	0.1	Wood
_____	2	Under Attic (Vented)	Closet 3	30	Batt	48 ft²	0.1	Wood
_____	3	Under Attic (Vented)	Bedroom 3	30	Batt	258 ft²	0.1	Wood
_____	4	Under Attic (Vented)	Kitchen	30	Batt	204 ft²	0.1	Wood
_____	5	Under Attic (Vented)	Bath	30	Batt	48 ft²	0.1	Wood
_____	6	Under Attic (Vented)	Hall	30	Batt	24 ft²	0.1	Wood
_____	7	Under Attic (Vented)	Bedroom 2	30	Batt	154 ft²	0.1	Wood
_____	8	Under Attic (Vented)	Conversation Roo	30	Batt	336 ft²	0.1	Wood
_____	9	Under Attic (Vented)	AHU	30	Batt	18 ft²	0.1	Wood
_____	10	Under Attic (Vented)	Master Bedroom	30	Batt	310 ft²	0.1	Wood
_____	11	Under Attic (Vented)	WIC 1	30	Batt	48 ft²	0.1	Wood
_____	12	Under Attic (Vented)	WIC 2	30	Batt	36 ft²	0.1	Wood
_____	13	Under Attic (Vented)	Master Bath	30	Batt	191 ft²	0.1	Wood
_____	14	Under Attic (Vented)	Toilet	30	Batt	24 ft²	0.1	Wood
_____	15	Under Attic (Vented)	Laundry	30	Batt	100 ft²	0.1	Wood
_____	16	Under Attic (Vented)	Foyer	30	Batt	68 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	S	Exterior	Frame - Wood	Living Room	11	12	0	8	0	96.0 ft²	0	0.25	0.4	0
_____	2	W	Exterior	Frame - Wood	Living Room	11	17	0	8	0	136.0 ft²	0	0.25	0.4	0
_____	3	S	Exterior	Frame - Wood	Closet 3	11	8	0	8	0	64.0 ft²	0	0.25	0.4	0
_____	4	W	Exterior	Frame - Wood	Closet 3	11	6	0	8	0	48.0 ft²	0	0.25	0.4	0
_____	5	N	Exterior	Frame - Wood	Bedroom 3	11	18	0	8	0	144.0 ft²	0	0.25	0.4	0
_____	6	W	Exterior	Frame - Wood	Bedroom 3	11	11	0	8	0	88.0 ft²	0	0.25	0.4	0
_____	7	S	Exterior	Frame - Wood	Kitchen	11	12	0	8	0	96.0 ft²	0	0.25	0.4	0
_____	8	N	Exterior	Frame - Wood	Bedroom 2	11	14	0	8	0	112.0 ft²	0	0.25	0.4	0
_____	9	S	Exterior	Frame - Wood	Conversation	11	22	0	8	0	176.0 ft²	0	0.25	0.4	0
_____	10	N	Exterior	Frame - Wood	Master Bedro	11	16	0	8	0	128.0 ft²	0	0.25	0.4	0
_____	11	N	Exterior	Frame - Wood	WIC 2	11	6	0	8	0	48.0 ft²	0	0.25	0.4	0
_____	12	N	Exterior	Frame - Wood	Master Bath	11	15	5	8	0	123.3 ft²	0	0.25	0.4	0
_____	13	E	Exterior	Frame - Wood	Master Bath	11	11	0	8	0	88.0 ft²	0	0.25	0.4	0
_____	14	SE	Exterior	Frame - Wood	Master Bath	11	5	10	8	0	46.7 ft²	0	0.25	0.4	0
_____	15	E	Exterior	Frame - Wood	Laundry	11	10	0	8	0	80.0 ft²	0	0.25	0.4	0
_____	16	S	Exterior	Frame - Wood	Laundry	11	10	0	8	0	80.0 ft²	0	0.25	0.4	0
_____	17	E	Exterior	Frame - Wood	Foyer	11	8	0	8	0	64.0 ft²	0	0.25	0.4	0

## DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
_____	1	W	Wood	Living Room	None	.39	3		6	10	20.5 ft²
_____	2	E	Wood	Foyer	None	.39	3		6	10	20.5 ft²



## INPUT SUMMARY CHECKLIST REPORT

## WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
_____	1	S	1	Vinyl	Low-E Single	Yes	0.33	0.28	Y	20.7 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	2	W	2	Vinyl	Low-E Single	Yes	0.33	0.28	Y	20.7 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	3	N	5	Vinyl	Low-E Single	Yes	0.33	0.28	Y	15.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	4	W	6	Vinyl	Low-E Single	Yes	0.33	0.28	Y	10.3 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	5	S	7	Vinyl	Low-E Single	Yes	0.33	0.28	Y	7.8 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	6	N	8	Vinyl	Low-E Single	Yes	0.33	0.28	Y	15.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	7	S	9	Vinyl	Low-E Single	Yes	0.33	0.28	Y	41.0 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	8	S	9	Vinyl	Low-E Single	Yes	0.33	0.28	Y	40.0 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	9	N	10	Vinyl	Low-E Single	Yes	0.33	0.28	Y	30.0 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	10	N	12	Vinyl	Low-E Single	Yes	0.33	0.28	Y	6.2 ft²	4 ft 0 in	1 ft 4 in	None	None
_____	11	E	13	Vinyl	Low-E Single	Yes	0.33	0.28	Y	6.2 ft²	4 ft 0 in	1 ft 4 in	None	None
_____	12	SE	14	Vinyl	Low-E Single	Yes	0.33	0.28	Y	6.0 ft²	4 ft 0 in	1 ft 4 in	None	None
_____	13	E	15	Vinyl	Low-E Single	Yes	0.33	0.28	Y	6.0 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	14	S	16	Vinyl	Low-E Single	Yes	0.33	0.28	Y	20.5 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	15	S	16	Vinyl	Low-E Single	Yes	0.33	0.28	Y	12.0 ft²	8 ft 0 in	1 ft 4 in	None	None
_____	16	E	17	Vinyl	Low-E Single	Yes	0.33	0.28	Y	6.8 ft²	8 ft 0 in	1 ft 4 in	None	None

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000356	1944.1	106.73	200.72	.1339	7

## HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	Split	HSPF:9	41 kBtu/hr	1	sys#1

## COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	Split	SEER: 15	41 kBtu/hr	cfm	0.7	1	sys#1

## HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Laundry	0.95	50 gal	60.9 gal	120 deg	None

## SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

## INPUT SUMMARY CHECKLIST REPORT

## DUCTS

✓	#	--- Supply ---			--- Return ---			Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area								Heat	Cool
	1	Attic	6	105 ft²	Attic	25 ft²	Default Leakage	Attic	(Default)	(Default)				1	1

## TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" 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 checked="" 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 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 checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" 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 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

## MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Living Room
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Closet 3
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Bedroom 3
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Kitchen
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Bath
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Hall
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Bedroom 2
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Conversation Room
Default(8 lbs/sq.ft.)	ft²	ft	0.3	AHU
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Master Bedroom
Default(8 lbs/sq.ft.)	ft²	ft	0.3	WIC 1
Default(8 lbs/sq.ft.)	ft²	ft	0.3	WIC 2
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Master Bath
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Toilet
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Laundry
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Foyer

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 99

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>3</u>	c) AHU location <u>Attic</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>41.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>2083</u>	a) Split system SEER <u>15.0</u>
7. Windows, type and area		b) Single package SEER <u>        </u>
a) U-factor:(weighted average)	7a. <u>0.330</u>	c) Ground/water source SEER/COP <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.280</u>	d) Room unit/PTAC EER <u>        </u>
c) Area	7c. <u>264.1</u>	e) Other <u>        </u>
8. Skylights		14. Heating system: Capacity <u>41.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u>9.0</u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u>        </u>
9. Floor type, insulation level:		c) Electric resistance COP <u>        </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u>        </u>
b) Wood, raised (R-value)	9b. <u>        </u>	e) Gas furnace, LPG AFUE <u>        </u>
c) Concrete, raised (R-value)	9c. <u>        </u>	f) Other <u>        </u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.95</u>
1. Wood frame (Insulation R-value)	10A1. <u>11.0</u>	b) Gas fired, natural gas EF <u>        </u>
2. Masonry (Insulation R-value)	10A2. <u>        </u>	c) Gas fired, LPG EF <u>        </u>
B. Adjacent:		d) Solar system with tank EF <u>        </u>
1. Wood frame (Insulation R-value)	10B1. <u>        </u>	e) Dedicated heat pump with tank EF <u>        </u>
2. Masonry (Insulation R-value)	10B2. <u>        </u>	f) Heat recovery unit HeatRec% <u>        </u>
11. Ceiling type and insulation level		g) Other <u>        </u>
a) Under attic	11a. <u>30.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u>        </u>	a) Ceiling fans <u>Yes</u>
c) Knee walls/skylight walls	11c. <u>        </u>	b) Cross ventilation <u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u>        </u>
		e) Multizone heating credit <u>        </u>
		f) Programmable thermostat <u>Yes</u>

\*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: 3088 County Road 138 City/FL Zip: Fort White, FL 32038

# 2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

**TABLE 402.4.1.1  
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA**

Project Name: Marcano Residence Street: 3088 County Road 138 City, State, Zip: Fort White, FL, 32038 Owner: Marcano Residence Design Location: FL, Gainesville		Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: Columbia County	CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall <u>extend behind piping and wiring.</u>	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids <u>between fire sprinkler cover plates and walls or ceilings.</u>		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.