

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: BonanzaRes Street: JEANLEA PLACE City, State, Zip: FL, 32038 Owner: AMERICAS HOME PLACE GAINESVILLE Design Location: FL, Gainesville	Builder Name: AMERICAS HOME PLACE GAINESVILLE Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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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 (ft²): 2193 Conditioned floor area below grade (ft²): 0 7. Windows(323.3 sqft.) a. U-Factor: Dbl, U=0.33, Area: 283.33 ft² SHGC: SHGC=0.27 b. U-Factor: Dbl, U=0.30, Area: 40.00 ft² SHGC: SHGC=0.27 c. U-Factor: N/A, Area: ft² SHGC: d. U-Factor: N/A, Area: ft² SHGC: Area Weighted Average Overhang Depth: 7.227 ft. Area Weighted Average SHGC: 0.270 8. Floor Types (2193.0 sqft.) a. Slab-On-Grade Edge Insulation: R=0.0, Area: 2193.00 ft² b. N/A: R=, Area: ft² c. N/A: R=, Area: ft²	9. Wall Types(2359.4 sqft.) a. Frame - Wood, Exterior: R=13.0, Area: 2000.60 ft² b. Frame - Wood, Adjacent: R=13.0, Area: 358.79 ft² c. N/A: R=, Area: ft² d. N/A: R=, Area: ft² 10. Ceiling Types (2193.0 sqft.) a. Under Attic (Vented): R=30.0, Area: 2193.00 ft² b. N/A: R=, Area: ft² c. N/A: R=, Area: ft² 11. Ducts: R, Area a. Sup: Attic, Ret: Attic, AH: Attic: 6, 438.6 12. Cooling systems: kBtu/hr, Efficiency a. Central Unit: 34.8, SEER:16.00 13. Heating systems: kBtu/hr, Efficiency a. Electric Heat Pump: 33.0, HSPF:9.00 14. Hot water systems a. Electric: Cap: 50 gallons, EF: 0.950 b. Conservation features: None 15. Credits: Pstat
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Glass/Floor Area: 0.147	Total Proposed Modified Loads: 60.51	PASS
	Total Baseline Loads: 61.53	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 10/22/2020 Eric Wright 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: _____
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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 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:	BonanzaRes	Bedrooms:	3	Address Type:	Street Address							
Building Type:	User	Conditioned Area:	2193	Lot #								
Owner Name:	AMERICAS HOME PLACE G	Total Stories:	1	Block/Subdivision:								
# of Units:	1	Worst Case:	No	PlatBook:								
Builder Name:	AMERICAS HOME PLACE G	Rotate Angle:	0	Street:	____ JEANLEA PLACE							
Permit Office:		Cross Ventilation:	No	County:	Columbia							
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	, 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	Block1	2193	19956.3								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	Main	2193	19956.3	Yes	4	3	1	Yes	Yes	Yes	
FLOORS												
✓	#	Floor Type	Space	Perimeter	R-Value	Area			Tile	Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulatio	Main	219.5 ft		2193 ft²	----		0	0.64	0.36	
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or Shed	Composition shingles	2636 ft²	732 ft²	Dark	N	0.85	No	0.85	No	0 33.7
ATTIC												
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC					
_____	1	Full attic	Vented	300	2193 ft²	N	N					
CEILING												
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type				
_____	1	Under Attic (Vented)	Main	30	Blown	2193 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	N	Exterior	Frame - Wood	Main	13	27	3	9	1	247.5 ft²	0	0.23	0.6	0
2	E	Exterior	Frame - Wood	Main	13	62	6	9	1	567.7 ft²	0	0.23	0.6	0
3	S	Exterior	Frame - Wood	Main	13	50	4	9	1	457.2 ft²	0	0.23	0.6	0
4	W	Exterior	Frame - Wood	Main	13	47	0	9	1	426.9 ft²	0	0.23	0.6	0
5	-	Garage	Frame - Wood	Main	13	39	6	9	1	358.8 ft²	0	0.23	0.01	0
6	N	Exterior	Frame - Wood	Main	13	7	6	9	1	68.1 ft²	0	0.23	0.6	0
7	N	Exterior	Frame - Wood	Main	13	9	0	9	1	81.8 ft²	0	0.23	0.6	0
8	S	Exterior	Frame - Wood	Main	13	16	8	9	1	151.4 ft²	0	0.23	0.6	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	-	Wood	Main	None	.25	2	8	6	8	17.8 ft²

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	N	6	Vinyl	Low-E Double	Yes	0.3	0.27	N	20.0 ft²	15 ft 4 in	1 ft 9 in	None	None
2	N	7	Vinyl	Low-E Double	Yes	0.33	0.27	N	10.7 ft²	1 ft 4 in	1 ft 7 in	Drapes/blinds	Exterior 5
3	N	1	Vinyl	Low-E Double	Yes	0.33	0.27	N	72.0 ft²	11 ft 4 in	1 ft 4 in	Drapes/blinds	Exterior 5
4	N	6	Vinyl	Low-E Double	Yes	0.33	0.27	N	13.3 ft²	15 ft 4 in	1 ft 10 in	Drapes/blinds	None
5	E	2	Vinyl	Low-E Double	Yes	0.33	0.27	N	18.0 ft²	1 ft 0 in	8 ft 11 in	Drapes/blinds	Exterior 5
6	S	8	Vinyl	Low-E Double	Yes	0.3	0.27	N	20.0 ft²	11 ft 4 in	1 ft 5 in	None	None
7	S	3	Vinyl	Low-E Double	Yes	0.33	0.27	N	18.0 ft²	1 ft 0 in	5 ft 3 in	None	Exterior 5
8	S	3	Vinyl	Low-E Double	Yes	0.33	0.27	N	18.0 ft²	1 ft 0 in	14 ft 0 in	None	Exterior 5
9	S	3	Vinyl	Low-E Double	Yes	0.33	0.27	N	9.3 ft²	1 ft 0 in	8 ft 7 in	Drapes/blinds	Exterior 5
10	S	3	Vinyl	Low-E Double	Yes	0.33	0.27	N	54.0 ft²	1 ft 4 in	1 ft 7 in	Drapes/blinds	Exterior 5
11	S	8	Vinyl	Low-E Double	Yes	0.33	0.27	N	54.0 ft²	11 ft 4 in	1 ft 3 in	Drapes/blinds	Exterior 5
12	W	4	Vinyl	Low-E Double	Yes	0.33	0.27	N	16.0 ft²	1 ft 4 in	1 ft 7 in	Drapes/blinds	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	563 ft²	563 ft²	55.67 ft	9.1 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000405	2328.2	127.82	240.38	.1603	7

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	Split	Singl	HSPF:9	33 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	Split	Singl	SEER: 16	34.8 kBtu/hr	cfm	0.75	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Main	0.95	50 gal	62.3 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	438.6 ft	Attic	109.65	Default Leakage	Attic	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☐	Nov	☒	Dec
Heating	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☐	Nov	☒	Dec
Venting	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☐	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	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	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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>34.8</u>
6. Conditioned floor area (sq. ft.)	6. <u>2193</u>	a) Split system SEER <u>16.0</u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.326</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.270</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>323.3</u>	e) Other <u> </u>
8. Skylights		14. Heating system: Capacity <u>33.0</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>13.0</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>13.0</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> </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: JEANLEA PLACE City/FL Zip: , FL 32038