

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

ProjectName: G Buzbee Chastain
 Street: 567 SE Giles Martin Ave
 City, State, Zip: Lake City, FL, 32024
 Owner: Chastain
 DesignLocation: FL, Gainesville

BuilderName: G Buzzbe Inc.
 Permit Office:
 Permit Number:
 Jurisdiction:
 County: Columbia (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?	No
6. Conditioned floor area above grade (ft ²)	2225
Conditioned floor area below grade (ft ²)	0
7. Windows (265.8 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 265.83 ft ²
SHGC:	SHGC=0.23
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	1.500 ft.
Area Weighted Average SHGC:	0.230
8. Skylights	Area
c. U-Factor:(AVG)	N/A ft ²
SHGC(AVG):	N/A
9. Floor Types (2225.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2225.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

10. Wall Types (2635.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=19.0 2165.00 ft ²
b. Frame - Wood, Adjacent	R=19.0 470.00 ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
11. Ceiling Types (2225.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=38.0 2225.00 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: Attic	6 345
13. Cooling systems	kBtu/hr Efficiency
a. Central Unit	30.8 SEER:16.00
14. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	30.7 HSPF:8.50
15. Hot water systems	Cap: 40 gallons
a. Electric	EF: 0.920
b. Conservation features	None
16. Credits	CF, Pstat

Glass/Floor Area: 0.119

Total Proposed Modified Loads: 48.87

Total Baseline Loads: 58.17

PASS

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

PREPARED BY: John B. 2 II (TightSeal Inc)
 DATE: 10/13/21

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Gavin B. Jones
 DATE: 10/13/2021

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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	G Buzbee Chastain	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2225	Lot #	
Owner Name:	Chastain	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	G Buzzbe Inc.	Rotate Angle:	0	Street:	567 SE Giles Martin Ave
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City ,
Family Type:	Detached				FL , 32024
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	2225	22250

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2225	22250	Yes	3	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	Main	255 ft	0	2225 ft²	----	0.22	0.22	0.56

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2674 ft²	742 ft²	Medium	N	0.96	No	0.9	No	0	33.69

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2225 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	2225 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	Garage	Frame - Wood	Main	19	47		10		470.0 ft²		0.111	0.150000	0
___	2	N	Exterior	Frame - Wood	Main	19	47	4	10		473.3 ft²		0.111	0.150000	0
___	3	E	Exterior	Frame - Wood	Main	19	62	6	10		625.0 ft²		0.111	0.150000	0
___	4	S	Exterior	Frame - Wood	Main	19	69	2	10		691.7 ft²		0.111	0.150000	0
___	5	W	Exterior	Frame - Wood	Main	19	37	6	10		375.0 ft²		0.111	0.150000	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___	1	N	Insulated	Main	None	.46	3		6	8	20 ft²
___	2	N	Insulated	Main	None	.46	3		6	8	20 ft²
___	3	E	Insulated	Main	None	.46	3		6	8	20 ft²
___	4	S	Insulated	Main	None	.46	1		6	8	6.7 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	2	Vinyl	Low-E Double	Yes	0.33	0.23	N	60.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___	2	N	2	Vinyl	Low-E Double	Yes	0.33	0.23	N	18.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___	3	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	30.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___	4	S	4	Vinyl	Low-E Double	Yes	0.33	0.23	N	60.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___	5	S	4	Vinyl	Low-E Double	Yes	0.33	0.23	N	4.5 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___	6	S	4	Vinyl	Low-E Double	Yes	0.33	0.23	N	73.3 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___	7	W	5	Vinyl	Low-E Double	Yes	0.33	0.23	N	20.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None

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)	.000317	1854.2	101.73	190.98	.1071	5

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
___	1	Electric Heat Pump/	None	Single	HSPF:8.5	30.67 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/	None	Single	SEER: 16	30.82 kBtu/hr	1568 cfm	0.75	1	sys#1				
HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
_____	1	Electric	None	Attic	0.92	40 gal	60 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	CompanyName	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 # Heat Cool	
_____	1	Attic	6	345 ft²	Attic	111.25 f	DefaultLeakage	Attic	(Default) c	(Default) c			1	1
TEMPERATURES														
ProgrammableThermostat: 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		
ThermostatSchedule: HERS 2006 Reference														
ScheduleType		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
MASS														
Mass Type			Area		Thickness		FurnitureFraction			Space				
Default(8 lbs/sq.ft.)			0 ft²		0 ft		0.3			Main				

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 84

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

567 SE Giles Martin Ave, Lake City, FL, 32024

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4. Number of Bedrooms	3	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2225	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=38.0	2225.00 ft ²
a. U-Factor:	Dbl, U=0.33	b. N/A	R=	ft ²
SHGC:	SHGC=0.23	c. N/A	R=	ft ²
b. U-Factor:	N/A	12. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Attic	6	345
c. U-Factor:	N/A	13. Cooling systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	30.8	SEER:16.00
d. U-Factor:	N/A	14. Heating systems	kBtu/hr	Efficiency
SHGC:		a. Electric Heat Pump	30.7	HSPF:8.50
Area Weighted Average Overhang Depth:	1.500 ft.	15. Hot water systems	Cap: 40 gallons	
Area Weighted Average SHGC:	0.230	a. Electric	EF: 0.92	
8. Skylights	Description	b. Conservation features		
a. U-Factor(AVG):	N/A	None		
SHGC(AVG):	N/A	Credits (Performance method)		CF, Pstat
9. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R=0.0	2225.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		

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: _____

Garrin Z...

Date: 10/13/2021

Address of New Home: 567 SE Giles Martin Ave

City/FL Zip: Lake City, FL
32024



*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.