

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Stanley Crawford Const. - Water Residence
 Street:
 City, State, Zip: , FL ,
 Owner:
 Design Location: FL, Gainesville

Builder Name:
 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 Single-family
 3. Number of units, if multiple family 1
 4. Number of Bedrooms 2
 5. Is this a worst case? No
 6. Conditioned floor area above grade (ft²) 1250
 Conditioned floor area below grade (ft²) 0

7. Windows(110.0 sqft.)	Description	Area
a. U-Factor:	DbI, U=0.33	110.00 ft ²
SHGC:	SHGC=0.22	
b. U-Factor:	N/A	ft ²
SHGC:		
c. U-Factor:	N/A	ft ²
SHGC:		
d. U-Factor:	N/A	ft ²
SHGC:		

Area Weighted Average Overhang Depth: 7.000 ft.
 Area Weighted Average SHGC: 0.220

8. Floor Types (1250.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1250.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

9. Wall Types(1452.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1452.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
d. N/A	R=	ft ²

10. Ceiling Types (1250.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	1250.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

11. Ducts	R	ft ²
a. Sup: Attic, Ret: Attic, AH: Main	6	250

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	24.0	SEER:15.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	24.0	HSPF:8.50

14. Hot water systems	Cap: 50 gallons
a. Electric	EF: 0.920
b. Conservation features	
None	

15. Credits CF, Pstat

Glass/Floor Area: 0.088

Total Proposed Modified Loads: 41.41

Total Baseline Loads: 42.56

PASS

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

PREPARED BY: _____

DATE: 5-20-20

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

OWNER/AGENT: _____

DATE: 5/20/2020

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:	Stanley Crawford Const. - Wa	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1658	Lot #	
Owner Name:		Total Stories:	2	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	FL ,
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	1250	11250

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1250	11250	Yes	4	2	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
	1	Slab-On-Grade Edge Insulatio	Main	162 ft	0	1250 ft²	----	0.33	0.33	0.34

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	Metal	1398 ft²	312 ft²	Light	N	0.6	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1250 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	1250 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	45	8	9		411.0 ft²	0.625	0.23	0.75	0
2	E	Exterior	Frame - Wood	Main	13	8	8	9		78.0 ft²	0.625	0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	13	6		9		54.0 ft²	0.625	0.23	0.75	0
4	E	Exterior	Frame - Wood	Main	13	18	4	9		165.0 ft²	0.625	0.23	0.75	0
5	S	Exterior	Frame - Wood	Main	13	21		9		189.0 ft²	0.625	0.23	0.75	0
6	E	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²	0.625	0.23	0.75	0
7	S	Exterior	Frame - Wood	Main	13	18	8	9	0	168.0 ft²	0.625	0.23	0.75	0
8	W	Exterior	Frame - Wood	Main	13	35		9		315.0 ft²	0.625	0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N	Insulated	Main	None	.4	3		6	8	20 ft²
2	E	Insulated	Main	None	.4	3		6	8	20 ft²
3	S	Insulated	Main	None	.4	3		6	8	20 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	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
2	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 ft²	1 ft 6 in	1 ft 4 in	None	None
3	E	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	20 ft 10 in	1 ft 4 in	None	None
4	S	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	9 ft 6 in	1 ft 4 in	None	None
5	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	6 ft 6 in	1 ft 4 in	None	None
6	S	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft²	1 ft 6 in	1 ft 4 in	None	None
7	W	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft²	1 ft 6 in	1 ft 4 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	937.5	51.47	96.79	.1488	5

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Singl	HSPF:8.5	24 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	Singl	SEER: 15	24 kBtu/hr	720 cfm	0.85	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Main	0.92	50 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	250 ft²	Attic	62.5 ft²	Default Leakage	Main	(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