

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Crest Glen Model - Lot 11 Hickory Cove Street: City, State, Zip: Lake City , FL , Owner: Design Location: FL, Gainesville	Builder Name: Stanley Crawford Construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.129	Total Proposed Modified Loads: 44.34	PASS
	Total Baseline Loads: 46.56	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>J. Morris</u> DATE: <u>9/11/2020</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Stanley Crawford</u> DATE: <u>9/11/20</u>	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 5.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Crest Glen Model - Lot 11 Hic			Bedrooms:	3		Address Type:		Lot Information			
Building Type:	User			Conditioned Area:	1524		Lot #		11			
Owner Name:				Total Stories:	1		Block/Subdivision:		Hickory Cove			
# of Units:	1			Worst Case:	No		PlatBook:					
Builder Name:	Stanley Crawford Constructio			Rotate Angle:	0		Street:					
Permit Office:				Cross Ventilation:			County:		Columbia			
Jurisdiction:				Whole House Fan:			City, State, Zip:		Lake City , 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	1524	13716								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	Main	1524	13716	Yes	6	3	1	Yes	Yes	Yes	
FLOORS												
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile		Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulatio	Main	181 ft	0	1524 ft²		----		0.33	0.33 0.34	
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1704 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0 26.6
ATTIC												
✓	#	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC				
_____	1	Full attic	Vented	300		1524 ft²	N	N				
CEILING												
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type				
_____	1	Under Attic (Vented)	Main	30	Blown	1524 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	11	4	9		102.0 ft²	0.625	0.23	0.75	0
2	W	Exterior	Frame - Wood	Main	13	9		9		81.0 ft²	0.625	0.23	0.75	0
3	N	Exterior	Frame - Wood	Main	13	41		9		369.0 ft²	0.625	0.23	0.75	0
4	E	Exterior	Frame - Wood	Main	13	15	4	9		138.0 ft²	0.625	0.23	0.75	0
5	N	Exterior	Frame - Wood	Main	13	3	4	9		30.0 ft²	0.625	0.23	0.75	0
6	E	Exterior	Frame - Wood	Main	13	10	8	9		96.0 ft²	0.625	0.23	0.75	0
7	S	Exterior	Frame - Wood	Main	13	3	4	9		30.0 ft²	0.625	0.23	0.75	0
8	S	Exterior	Frame - Wood	Main	13	16	4	9		147.0 ft²	0.625	0.23	0.75	0
9	E	Exterior	Frame - Wood	Main	13	9	4	9		84.0 ft²	0.625	0.23	0.75	0
10	S	Exterior	Frame - Wood	Main	13	15		9		135.0 ft²	0.625	0.23	0.75	0
11	W	Exterior	Frame - Wood	Main	13	29		9		261.0 ft²	0.625	0.23	0.75	0
12	S	Garage	Frame - Wood	Main	13	23		9		207.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	W	Insulated	Main	None	.4	6		6	8	40 ft²
2	S	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	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	90.0 ft²	1 ft 6 in	1 ft 4 in	None	None
2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
3	E	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft²	1 ft 6 in	1 ft 4 in	None	None
4	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	2.0 ft²	1 ft 6 in	1 ft 4 in	None	None
5	S	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	7 ft 6 in	1 ft 4 in	None	None
6	S	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
7	W	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	4.0 ft²	1 ft 6 in	1 ft 4 in	None	None
8	W	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	476.007 ft²	476.007 ft²	63 ft	9 ft	1

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1143	62.75	118.01	.1128	5

HEATING SYSTEM

☒	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
☒	1	Electric Heat Pump/	None	Singl	HSPF:8.5	30 kBtu/hr	1	sys#1

COOLING SYSTEM

☒	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
☒	1	Central Unit/	None	Singl	SEER: 14	30 kBtu/hr	900 cfm	0.85	1	sys#1

HOT WATER SYSTEM

☒	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
☒	1	Electric	None	Garage	0.92	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

☒	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
☒	None	None			ft ²		

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	304.8 ft	Attic	76.2 ft ²	Prop. Leak Free	Garage	— cfm	45.7 cfm	0.03	0.50	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

INPUT SUMMARY CHECKLIST REPORT

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 ft ²		0 ft		0.3		Main					