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# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Ron Clark Dobbin  
 Street:  
 City, State, Zip: , FL ,  
 Owner: Dobbin  
 Design Location: FL, Gainesville

Builder Name: Ron Clark  
 Permit Office:  
 Permit Number:  
 Jurisdiction:  
 County: Alachua (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 <sup>2</sup> )	1800	
Conditioned floor area below grade (ft <sup>2</sup> )	0	
7. Windows(236.3 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.43	163.00 ft <sup>2</sup>
SHGC:	SHGC=0.30	
b. U-Factor:	Dbl, U=0.34	73.33 ft <sup>2</sup>
SHGC:	SHGC=0.20	
c. U-Factor:	N/A	ft <sup>2</sup>
SHGC:		
Area Weighted Average Overhang Depth:		2.000 ft.
Area Weighted Average SHGC:		0.269
8. Skylights	Area	
c. U-Factor:(AVG)	N/A	ft <sup>2</sup>
SHGC(AVG):	N/A	
9. Floor Types (1800.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1800.00 ft <sup>2</sup>
b. N/A	R=	ft <sup>2</sup>
c. N/A	R=	ft <sup>2</sup>

10. Wall Type(1548.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1548.00 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>
11. Ceiling Types (1800.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	1800.00 ft <sup>2</sup>
b. N/A	R=	ft <sup>2</sup>
c. N/A	R=	ft <sup>2</sup>
12. Ducts	R	ft <sup>2</sup>
a. Sup: Attic, Ret: Attic, AH: Main	6	360
13. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	33.0	SEER:14.00
14. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	38.8	HSPF:8.20
15. Hot water systems	Cap: 40 gallons	EF: 0.920
a. Electric		
b. Conservation features	None	
16. Credits	CF, Pstat	



Glass/Floor Area: 0.131

Total Proposed Modified Loads: 45.88  
 Total Baseline Loads: 46.84

# PASS

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

PREPARED BY: TiteSeal  
 DATE: 3-30-21

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

OWNER/AGENT: Ronald Clark  
 DATE: 3-30-21

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:	Ron Clark Dobbin	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1800	Lot #	
Owner Name:	Dobbin	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Ron Clark	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Alachua
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

## CLIMATE

✓	Design Location	TMY Site	Design Temp	Int Design Temp	Heating	Design	Daily Temp
	FL, Gainesville	FL_GAINESVILLE_REGI	97.5 % 2.5 %	Winter Summer	Degree Days	Moisture	Range
			32 92	70 75	1305.5	51	Medium

## BLOCKS

Number	Name	Area	Volume
1	Block1	1800	16200

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1800	16200	Yes	3	3	1	Yes	Yes	Yes

## FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet
	1	Slab-On-Grade Edge Insulatio	Main	172 ft	0	1800 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	1950 ft²	376 ft²	Medium	N	0.96	No	0.9	No	0	22.62

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
	1	Full attic	Vented	300	1800 ft²	N	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
	1	Under Attic (Vented)	Main	38	Blown	1800 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	50	9	450.0 ft²		0.111	0.150000	0
2	E	Exterior	Frame - Wood	Main	13	36	9	324.0 ft²		0.111	0.150000	0
3	S	Exterior	Frame - Wood	Main	13	50	9	450.0 ft²		0.111	0.150000	0
4	W	Exterior	Frame - Wood	Main	13	36	9	324.0 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	8	24 ft²
2	E	Insulated	Main	None	.46	2	8	17.8 ft²
3	S	Insulated	Main	None	.46	1	6	6.7 ft²

## WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.43	0.3	N	30.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
2	N	1	Vinyl	Low-E Double	Yes	0.43	0.3	N	12.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
3	E	2	Vinyl	Low-E Double	Yes	0.43	0.3	N	6.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
4	E	2	Vinyl	Low-E Double	Yes	0.43	0.3	N	30.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
5	S	3	Vinyl	Low-E Double	Yes	0.34	0.2	N	73.3 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
6	S	3	Vinyl	Low-E Double	Yes	0.43	0.3	N	40.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
7	W	4	Vinyl	Low-E Double	Yes	0.43	0.3	N	45.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1350	74.07	139.05	.1027	5

## HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Singl	HSPF:8.2	33.8 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	33 kBtu/hr	990 cfm	0.75	1	sys#1

**INPUT SUMMARY CHECKLIST REPORT**

**HOT WATER SYSTEM**

<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Main	0.92	40 gal	60 gal	120 deg	None

**SOLAR HOT WATER SYSTEM**

<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft²		

**DUCTS**

<input checked="" type="checkbox"/>	#	--- 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	360 ft²	Attic	90 ft²	Default Leakage	Main	(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 checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" 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 checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> 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