

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Amira Hicks Res Street: City, State, Zip: , FL , Owner: Hicks Design Location: FL, Gainesville	Builder Name: Amira Custom Homes Permit Office: Permit Number: Jurisdiction: County: Alachua (Florida Climate Zone 2)
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Glass/Floor Area: 0.142	Total Proposed Modified Loads: 62.56 Total Baseline Loads: 64.41	PASS
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____ 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Amira Hicks Res	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2466	Lot #	
Owner Name:	Hicks	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Amira Custom Homes	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 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	2466	24660

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2466	24660	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	265 ft	0	2466 ft²	----	0.22	0.22	0.56

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2855 ft²	720 ft²	Dark	N	0.85	No	0.9	No	0	30.26

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2466 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2466 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	W	Exterior	Frame - Wood	Main	19	80	4	10		803.3 ft²		0.11	0.150000	0
___ 2	N	Exterior	Frame - Wood	Main	19	53		10		530.0 ft²		0.11	0.150000	0
___ 3	E	Exterior	Frame - Wood	Main	19	54	8	10		546.7 ft²		0.11	0.150000	0
___ 4	E	Garage	Frame - Wood	Main	13	24	8	10		246.7 ft²		0.11	0.150000	0
___ 5	S	Exterior	Frame - Wood	Main	19	52	8	10		526.7 ft²		0.11	0.150000	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	W	Insulated	Main	None	.46	1		8		8 ft²
___ 2	N	Insulated	Main	None	.46	2	6	8		20 ft²
___ 3	E	Insulated	Main	None	.46	1		8		8 ft²
___ 4	E	Insulated	Main	None	.46	1		8		8 ft²
___ 5	E	Insulated	Main	None	.46	2	8	8		21.3 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	W	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	9.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 2	W	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	72.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 3	W	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	15.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 4	W	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	6.8 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 5	W	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	40.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 6	N	2	Vinyl	Low-E Double	Yes	0.34	0.23	N	4.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 7	N	2	Vinyl	Low-E Double	Yes	0.34	0.23	N	16.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 8	E	3	Vinyl	Low-E Double	Yes	0.34	0.23	N	72.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 9	E	3	Vinyl	Low-E Double	Yes	0.34	0.23	N	80.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 10	E	3	Vinyl	Low-E Double	Yes	0.34	0.23	N	16.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 11	S	5	Vinyl	Low-E Double	Yes	0.34	0.23	N	15.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 12	S	5	Vinyl	Low-E Double	Yes	0.34	0.23	N	4.5 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	2055	112.74	211.66	.1071	5

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM														
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts						
_____	1	Electric Heat Pump/	None	Singl	HSPF:8.2	41 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	40 kBtu/hr	1333 cfm	0.75	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						ft²						
DUCTS														
✓	#	---- Supply ----		---- Return ----				Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
_____	1	Attic	6	493.2 ft	Attic	123.3 ft	Default Leakage	Main	(Default)	(Default)			1	1
TEMPERATURES														
Programable Thermostat: Y					Ceiling Fans:									
Cooling Heating Venting	<input type="checkbox"/> Jan <input checked="" type="checkbox"/> Jan	<input type="checkbox"/> Feb <input checked="" type="checkbox"/> Feb	<input type="checkbox"/> Mar <input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr <input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May <input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun <input type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul <input type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug <input type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep <input type="checkbox"/> Sep	<input type="checkbox"/> Oct <input checked="" type="checkbox"/> Oct	<input type="checkbox"/> Nov <input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec <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 PM	78 80	78 80	78 78	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	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 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 68	68 66	68 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* = 97

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

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a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	Credits (Performance method)		CF, Pstat
c. N/A	R=			

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: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



*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.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Amira Hicks Res
 Street:
 City, State, Zip: , FL ,
 Owner: Hicks
 Design Location: FL, Gainesville

Builder Name: Amira Custom Homes
 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 ²)	2466
Conditioned floor area below grade (ft ²)	0
7. Windows(350.3 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.34 350.33 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 (2466.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2466.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

10. Wall Type(2653.3 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=19.0 2406.70 ft ²
b. Frame - Wood, Adjacent	R=13.0 246.67 ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
11. Ceiling Types (2466.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 2466.00 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: Main	6 493.2
13. Cooling systems	kBtu/hr Efficiency
a. Central Unit	40.0 SEER:14.00
14. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	41.0 HSPF:8.20
15. Hot water systems	Cap: 40 gallons
a. Electric	EF: 0.920
b. Conservation features	None
16. Credits	CF, Pstat

Glass/Floor Area: 0.142

Total Proposed Modified Loads: 62.56

Total Baseline Loads: 64.41

PASS

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

PREPARED BY: [Signature] (Tight Seal Inc.)
 DATE: 7/29/21

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: _____

- 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).