

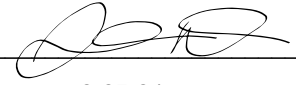
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Harlow Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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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 (ft²) 2439 Conditioned floor area below grade (ft²) 0 7. Windows(385.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 385.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.200 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 2439.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2950.7 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=13.0 2366.70 ft² b. Frame - Wood, Exterior R=13.0 304.00 ft² c. Frame - Wood, Adjacent R=13.0 280.00 ft² d. N/A 11. Ceiling Types(2439.0 sqft.) Insulation Area a. Single assembly, with (Unvented) R=30.0 2439.00 ft² b. N/A c. N/A 12. Roof(Metal, Unvent) Deck R=30.0 2727 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Main 6 488 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 48.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF2:8.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.158	Total Proposed Modified Loads: 53.04	PASS
	Total Baseline Loads: 76.90	
NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.		

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 3-25-24 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 with a proposed duct leakage Qn requires a PERFORMANCE 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.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 4.72 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:Harlow Residence

Building Type:User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type:Detached

New/Existing:New (From Plans)

Year Construct:2024

Comment:

Bedrooms:3

Conditioned Area:2439

Total Stories:1

Worst Case:No

Rotate Angle:0

Cross Ventilation:

Whole House Fan:

Terrain:Rural

Shielding:Moderate/Rural

Address type:Street Address

Lot #:---

Block/SubDivision:---

PlatBook:---

Street:

County:Columbia

City, State, Zip: , FL,

CLIMATE

✓

Design Location

Tmy Site

Design Temp97.5%2.5%

Int Design TempWinterSummer

Heating Degree Days

Design Moisture

Daily temp Range

FL, Gainesville

FL_GAINESVILLE_REGIONA

32

92

70

75

1305.5

51

Medium

BLOCKS

✓

Number

Name

Area

Volume

1

Block1

2439

24390 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

1

Main

2439

24390

Yes

6

3

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 2439 sq.ft.)

✓

#

Floor Type

Space

Exposed Perim(ft)

Area

R-Value Perim.

U-Factor Joist

Slab Insul. Vert/Horiz

Tile

Wood

Carpet

1

Slab-On-Grade Edge Ins

Main

262

2439 sqft

0

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

ROOF

✓

#

Type

Materials

Roof Area

Gable Area

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

1

Hip

Metal

2727 ft²

0 ft²

Unf, Gal.

N

0.96

No

0.7

No

30

26.57

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

No attic

Unvented

0

2439 ft²

N

N

CEILING

(Total Exposed Area = 2439 sq.ft.)

✓

#

Ceiling Type

Space

R-Value

Ins. Type

Area

U-Factor

Framing Frac.

Truss Type

1

Single assembly, with airspace(Unvented)

Main

30.0

Blown

2439.0ft²

0.017

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 2951 sq.ft.)			
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Conc. Blk - Int Ins	Main	13.0	18.0	8	10.0	0	186.7	0.064		0	0.75	0 %		
___ 2	E	Exterior	Conc. Blk - Int Ins	Main	13.0	13.0	4	10.0	0	133.3	0.064		0	0.75	0 %		
___ 3	N	Exterior	Conc. Blk - Int Ins	Main	13.0	23.0	0	10.0	0	230.0	0.064		0	0.75	0 %		
___ 4	W	Exterior	Conc. Blk - Int Ins	Main	13.0	13.0	4	10.0	0	133.3	0.064		0	0.75	0 %		
___ 5	N	Exterior	Conc. Blk - Int Ins	Main	13.0	24.0	0	10.0	0	240.0	0.064		0	0.75	0 %		
___ 6	E	Garage	Frame - Wood	Main	13.0	28.0	0	10.0	0	280.0	0.084		0.23	0.75	0 %		
___ 7	S	Exterior	Conc. Blk - Int Ins	Main	13.0	13.0	4	10.0	0	133.3	0.064		0	0.75	0 %		
___ 8	E	Exterior	Conc. Blk - Int Ins	Main	13.0	17.0	8	10.0	0	176.7	0.064		0	0.75	0 %		
___ 9	S	Exterior	Conc. Blk - Int Ins	Main	13.0	16.0	8	10.0	0	166.7	0.064		0	0.75	0 %		
___ 10	W	Exterior	Conc. Blk - Int Ins	Main	13.0	6.0	0	10.0	0	60.0	0.064		0	0.75	0 %		
___ 11	S	Exterior	Conc. Blk - Int Ins	Main	13.0	22.0	4	10.0	0	223.3	0.064		0	0.75	0 %		
___ 12	E	Exterior	Conc. Blk - Int Ins	Main	13.0	6.0	0	10.0	0	60.0	0.064		0	0.75	0 %		
___ 13	S	Exterior	Conc. Blk - Int Ins	Main	13.0	16.0	8	10.0	0	166.7	0.064		0	0.75	0 %		
___ 14	W	Exterior	Conc. Blk - Int Ins	Main	13.0	45.0	8	10.0	0	456.7	0.064		0	0.75	0 %		
___ 15	N	Exterior	Frame - Wood	Main	13.0	13.0	8	6.0	0	82.0	0.084		0.23	0.75	0 %		
___ 16	E	Exterior	Frame - Wood	Main	13.0	11.0	8	6.0	0	70.0	0.084		0.23	0.75	0 %		
___ 17	S	Exterior	Frame - Wood	Main	13.0	13.0	8	6.0	0	82.0	0.084		0.23	0.75	0 %		
___ 18	W	Exterior	Frame - Wood	Main	13.0	11.0	8	6.0	0	70.0	0.084		0.23	0.75	0 %		

DOORS														(Total Exposed Area = 188 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area						
___ 1	N	Exterior	Insulated	Main	None	0.46	12.00	0	8.00	0	96.0ft²						
___ 2	W	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²						
___ 3	E	Garage	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²						
___ 4	S	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²						

WINDOWS														(Total Exposed Area = 385 sq.ft.)			
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
___ 1	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None
___ 2	N	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	1.3	None	None
___ 3	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.0	1	4.00	4.00	1.5	1.3	None	None
___ 4	E	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	1	4.00	5.00	1.5	1.3	None	None
___ 5	S	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	40.0	2	4.00	5.00	1.5	1.3	None	None
___ 6	W	10	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	2	2.00	6.00	1.5	1.3	None	None
___ 7	S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	48.0	4	2.00	6.00	1.5	1.3	None	None
___ 8	E	12	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	2	2.00	6.00	1.5	1.3	None	None
___ 9	S	13	Vinyl	Low-E Double	Y	0.26	0.20	N	N	40.0	2	4.00	5.00	1.5	1.3	None	None
___ 10	W	14	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	1	4.00	5.00	1.5	1.3	None	None
___ 11	W	14	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	2	3.00	1.00	1.5	1.3	None	None
___ 12	W	14	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None
___ 13	N	15	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	3	2.00	3.00	1.5	1.3	None	None
___ 14	E	16	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	3	2.00	3.00	1.5	1.3	None	None
___ 15	S	17	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	3	2.00	3.00	1.5	1.3	None	None
___ 16	W	18	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	3	2.00	3.00	1.5	1.3	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	1917	105.19	197.47	0.1010	4.7	All	24390 cu ft

INPUT SUMMARY CHECKLIST REPORT

GARAGE														
✓ #	Floor Area		Roof Area		Exposed Wall Perimeter		Avg. Wall Height		Exposed Wall Insulation					
__ 1	672 ft²		672 ft²		73 ft		10 ft		8					
MASS														
✓ #	Mass Type		Area		Thickness		Furniture Fraction		Space					
__ 1	Default(8 lbs/sq.ft.)		0 ft²		0 ft		0.30		Main					
HEATING SYSTEM														
✓ #	System Type		Subtype/Speed		AHRI #		Efficiency		Capacity kBtu/hr		----Geothermal HeatPump----		Ducts Block	
	Entry	Power	Volt	Current										
__ 1	Electric Heat Pump		None/Single		HSPF2: 8.50		48.0		0.00		0.00		0.00 sys#1 1	
COOLING SYSTEM														
✓ #	System Type		Subtype/Speed		AHRI #		Efficiency		Capacity kBtu/hr		Air Flow cfm		SHR Duct Block	
__ 1	Central Unit		None/Single		SEER2:15.0		48.0		1440		0.75		sys#1 1	
HOT WATER SYSTEM														
✓ #	System Type		Subtype		Location		EF(UEF)		Cap		Use		SetPnt Fixture Flow Pipe Ins. Pipe length	
__ 1	Electric		None		Garage		0.92 (0.92)		50.00 gal		60 gal		120 deg Standard None 99	
	Recirculation System		Recirc Control Type		Loop length		Branch length		Pump power		DWHR		Facilities Connected Equal Flow DWHR Eff Other Credits	
__ 1	No				NA		NA		NA		No		NA NA NA None	
DUCTS														
✓ Duct	-----Supply-----		-----Return-----				Air		CFM 25		CFM 25		HVAC #	
#	Location R-Value Area		Location R-Value Area		Leakage Type		Handler		TOT		OUT QN RLF		Heat Cool	
__ 1	Main 6.0 488 ft²		Main 6.0 122 ft²		Prop. Leak Free		Main		---		---		0.030 0.50 1 1	
TEMPERATURES														
Programable Thermostat: Y Ceiling Fans: N														
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec		
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec		
✓	Thermostat Schedule: HERS 2006 Reference													
	Schedule Type		1		2		3		4		5		6 Hours 7 8 9 10 11 12	
__	Cooling (WD)		AM PM 78 80		78 80		78 80		78 80		78 80		78 80 78 80 80 78 80 78	
__	Cooling (WEH)		AM PM 78 80		78 80		78 80		78 80		78 80		78 80 78 80 80 78 80 78	

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

___ Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
___ Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68