

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Ballard		Builder Name: Amira	
Street:		Permit Office:	
City, State, Zip: , FL,		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, Gainesville		County: Alachua(Florida Climate Zone 2)	

<table> <tr><td>1. New construction or existing</td><td>New (From Plans)</td></tr> <tr><td>2. Single family or multiple family</td><td>Detached</td></tr> <tr><td>3. Number of units, if multiple family</td><td>1</td></tr> <tr><td>4. Number of Bedrooms</td><td>6</td></tr> <tr><td>5. Is this a worst case?</td><td>Yes</td></tr> <tr><td>6. Conditioned floor area above grade (ft²)</td><td>3135</td></tr> <tr><td>Conditioned floor area below grade (ft²)</td><td>0</td></tr> <tr><td>7. Windows(360.0 sqft.)</td><td>Description Area</td></tr> <tr><td>a. U-Factor:</td><td>Dbl, U=0.30 360.00 ft²</td></tr> <tr><td>SHGC:</td><td>SHGC=0.25</td></tr> <tr><td>b. U-Factor:</td><td>N/A ft²</td></tr> <tr><td>SHGC:</td><td></td></tr> <tr><td>c. U-Factor:</td><td>N/A ft²</td></tr> <tr><td>SHGC:</td><td></td></tr> <tr><td colspan="2">Area Weighted Average Overhang Depth: 1.500 ft</td></tr> <tr><td colspan="2">Area Weighted Average SHGC: 0.250</td></tr> <tr><td>8. Skylights</td><td>Description Area</td></tr> <tr><td>U-Factor:(AVG)</td><td>N/A N/A ft²</td></tr> <tr><td>SHGC(AVG):</td><td>N/A</td></tr> <tr><td>9. Floor Types</td><td>Insulation Area</td></tr> <tr><td>a. Slab-On-Grade Edge Insulation</td><td>R= 0.0 3135.00 ft²</td></tr> <tr><td>b. N/A</td><td>R= ft²</td></tr> <tr><td>c. N/A</td><td>R= ft²</td></tr> </table>	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	6	5. Is this a worst case?	Yes	6. Conditioned floor area above grade (ft²)	3135	Conditioned floor area below grade (ft²)	0	7. Windows(360.0 sqft.)	Description Area	a. U-Factor:	Dbl, U=0.30 360.00 ft²	SHGC:	SHGC=0.25	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: 0.250		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 3135.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	<table> <tr><td>10. Wall Types(2972.0 sqft.)</td><td>Insulation Area</td></tr> <tr><td>a. Frame - Wood, Exterior</td><td>R=19.0 2580.00 ft²</td></tr> <tr><td>b. Frame - Wood, Adjacent</td><td>R=13.0 392.00 ft²</td></tr> <tr><td>c. N/A</td><td>R= ft²</td></tr> <tr><td>d. N/A</td><td>R= ft²</td></tr> <tr><td>11. Ceiling Types(3135.0 sqft.)</td><td>Insulation Area</td></tr> <tr><td>a. Under Attic (Vented)</td><td>R=30.0 3135.00 ft²</td></tr> <tr><td>b. N/A</td><td>R= ft²</td></tr> <tr><td>c. N/A</td><td>R= ft²</td></tr> <tr><td>12. Ducts, location & insulation level</td><td>R ft²</td></tr> <tr><td>a. a. Sup: Attic, Ret: Attic, AH: Garage</td><td>6 627</td></tr> <tr><td>b.</td><td></td></tr> <tr><td>c.</td><td></td></tr> <tr><td>13. Cooling Systems</td><td>kBtu/hr Efficiency</td></tr> <tr><td>a. Central Unit</td><td>60.0 SEER:16.00</td></tr> <tr><td>14. Heating Systems</td><td>kBtu/hr Efficiency</td></tr> <tr><td>a. Electric Heat Pump</td><td>60.0 HSPF:9.00</td></tr> <tr><td>15. Hot Water Systems</td><td></td></tr> <tr><td>a. Electric</td><td>Cap: 50 gallons</td></tr> <tr><td></td><td>EF: 0.980</td></tr> <tr><td>b. Conservation features</td><td></td></tr> <tr><td></td><td>None</td></tr> <tr><td>16. Credits</td><td>Pstat</td></tr> </table>	10. Wall Types(2972.0 sqft.)	Insulation Area	a. Frame - Wood, Exterior	R=19.0 2580.00 ft²	b. Frame - Wood, Adjacent	R=13.0 392.00 ft²	c. N/A	R= ft²	d. N/A	R= ft²	11. Ceiling Types(3135.0 sqft.)	Insulation Area	a. Under Attic (Vented)	R=30.0 3135.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	12. Ducts, location & insulation level	R ft²	a. a. Sup: Attic, Ret: Attic, AH: Garage	6 627	b.		c.		13. Cooling Systems	kBtu/hr Efficiency	a. Central Unit	60.0 SEER:16.00	14. Heating Systems	kBtu/hr Efficiency	a. Electric Heat Pump	60.0 HSPF:9.00	15. Hot Water Systems		a. Electric	Cap: 50 gallons		EF: 0.980	b. Conservation features			None	16. Credits	Pstat
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	6																																																																																												
5. Is this a worst case?	Yes																																																																																												
6. Conditioned floor area above grade (ft²)	3135																																																																																												
Conditioned floor area below grade (ft²)	0																																																																																												
7. Windows(360.0 sqft.)	Description Area																																																																																												
a. U-Factor:	Dbl, U=0.30 360.00 ft²																																																																																												
SHGC:	SHGC=0.25																																																																																												
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: 0.250																																																																																													
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 3135.00 ft²																																																																																												
b. N/A	R= ft²																																																																																												
c. N/A	R= ft²																																																																																												
10. Wall Types(2972.0 sqft.)	Insulation Area																																																																																												
a. Frame - Wood, Exterior	R=19.0 2580.00 ft²																																																																																												
b. Frame - Wood, Adjacent	R=13.0 392.00 ft²																																																																																												
c. N/A	R= ft²																																																																																												
d. N/A	R= ft²																																																																																												
11. Ceiling Types(3135.0 sqft.)	Insulation Area																																																																																												
a. Under Attic (Vented)	R=30.0 3135.00 ft²																																																																																												
b. N/A	R= ft²																																																																																												
c. N/A	R= ft²																																																																																												
12. Ducts, location & insulation level	R ft²																																																																																												
a. a. Sup: Attic, Ret: Attic, AH: Garage	6 627																																																																																												
b.																																																																																													
c.																																																																																													
13. Cooling Systems	kBtu/hr Efficiency																																																																																												
a. Central Unit	60.0 SEER:16.00																																																																																												
14. Heating Systems	kBtu/hr Efficiency																																																																																												
a. Electric Heat Pump	60.0 HSPF:9.00																																																																																												
15. Hot Water Systems																																																																																													
a. Electric	Cap: 50 gallons																																																																																												
	EF: 0.980																																																																																												
b. Conservation features																																																																																													
	None																																																																																												
16. Credits	Pstat																																																																																												

Glass/Floor Area: 0.115

Total Proposed Modified Loads: 75.68

Total Baseline Loads: 78.61

PASS

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

PREPARED BY: Dennis GerlingDATE: 5-12-22

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

OWNER/AGENT: Cory Smith

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.



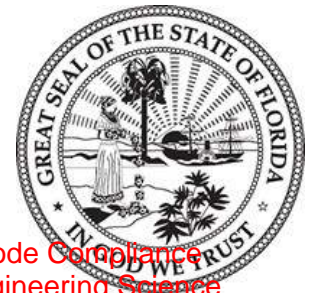
Review for Code Compliance
Universal Engineering Science

BUILDING OFFICIAL: _____

DATE: 5/12/22

PX2707

06/29/2022



- 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 0.000 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 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT



Review for Code Compliance
Universal Engineering Science

<div style="display: flex; justify-content: space-between;"> <div>PROJECT <u>Lawrence Powell</u></div> <div>PX2707</div> <div>06/29/2022</div> </div>														
Title: Ballard Building Type: User Owner:					Bedrooms: 6 Conditioned Area: 3135 Total Stories: 1 Worst Case: Yes Rotate Angle: 180 Cross Ventilation: Whole House Fan:					Address type: Street Address Lot #: --- Block/SubDivision: --- PlatBook: --- Street: County: Alachua City, State, Zip: , FL,				
Builder Name: Amira Permit Office: Jurisdiction: Family Type: Detached New/Existing: New (From Plans) Year Construct: Comment:					Terrain: Suburban Shielding: Suburban									
CLIMATE														
<input checked="" type="checkbox"/>	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_REGIONA	32	92	70	75	1305.5	51	Medium					
BLOCKS														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume										
	___ 1	Block1	3135	31350										
SPACES														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
	___ 1	Main	3135	31350	Yes	1	6	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 3135 sq.ft.)														
<input checked="" type="checkbox"/>	#	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet			
	___ 1	Slab-On-Grade Edge Ins	Main	307	0	3135 ft	0.304	---	0.00	0.00	1.00			
ROOF														
<input checked="" type="checkbox"/>	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)	
	___ 1	Hip	Composition shingles	3396 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	22.62	
ATTIC														
<input checked="" type="checkbox"/>	#	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC						
	___ 1	Full attic	Vented	300		3135 ft²	N	N						
CEILING (Total Exposed Area = 3135 sq.ft.)														
<input checked="" type="checkbox"/>	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
	___ 1	Under Attic(Vented)	Main	30.0	Blown	3135.0ft²	0.030	0.10	Wood					

INPUT SUMMARY CHECKLIST REPORT



Review for Code Compliance
Universal Engineering Science

WALLS *Levellor* (Total Exposed Area = 2972 sq.ft.)

Examiner-License No.

Note: First wall orientation below is as entered. Actual orientation is modified by the rotate angle (180 degrees) as shown in the "Project" section on page 1.

✓ #	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	NE=>SW	Garage	Frame - Wood	Main	13.0	49.0 0	8.0 0	392.0	0.086		0.25	0.30	0 %
___ 2	N=>S	Exterior	Frame - Wood	Main	19.0	73.0 0	10.0 0	730.0	0.062		0.25	0.30	0 %
___ 3	S=>N	Exterior	Frame - Wood	Main	19.0	42.0 0	10.0 0	420.0	0.062		0.25	0.30	0 %
___ 4	E=>W	Exterior	Frame - Wood	Main	19.0	111.0 0	10.0 0	1110.0	0.062		0.25	0.30	0 %
___ 5	W=>E	Exterior	Frame - Wood	Main	19.0	32.0 0	10.0 0	320.0	0.062		0.25	0.30	0 %

DOORS (Total Exposed Area = 183 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
___ 1	NE=>SW		Wood	Main	None	0.25	2.00 8	6.00 8	17.8ft²
___ 2	N=>S		Insulated	Main	None	0.25	6.00 0	8.00 0	48.0ft²
___ 3	E=>W		Insulated	Main	None	0.25	2.00 8	8.00 0	21.3ft²
___ 4	E=>W		Insulated	Main	None	0.25	6.00 0	8.00 0	48.0ft²
___ 5	E=>W		Insulated	Main	None	0.25	6.00 0	8.00 0	48.0ft²

WINDOWS (Total Exposed Area = 360 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp Storm	Area	-----Overhang----- Depth Separation	Interior Shade	Screening
___ 1	N=>S	2	Vinyl	Low-E Double	Yes	0.30	0.25	N N	96.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 2	S=>N	3	Vinyl	Low-E Double	Yes	0.30	0.25	N N	32.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 3	S=>N	3	Vinyl	Low-E Double	Yes	0.30	0.25	N N	12.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 4	E=>W	4	Vinyl	Low-E Double	Yes	0.30	0.25	N N	50.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 5	E=>W	4	Vinyl	Low-E Double	Yes	0.30	0.25	N N	80.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 6	E=>W	4	Vinyl	Low-E Double	Yes	0.30	0.25	N N	28.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 7	E=>W	4	Vinyl	Low-E Double	Yes	0.30	0.25	N N	18.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 8	E=>W	4	Vinyl	Low-E Double	Yes	0.30	0.25	N N	8.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 9	W=>E	5	Vinyl	Low-E Double	Yes	0.30	0.25	N N	12.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None
___ 10	W=>E	5	Vinyl	Low-E Double	Yes	0.30	0.25	N N	24.0ft²	1.0 ft 6 in 1.0 ft 0 in	Drapes/blinds	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00038	3135	172.00	322.90	0.1285	6.0	All

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	383 ft²	383 ft²	64 ft	8 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

INPUT SUMMARY CHECKLIST REPORT



Review for Code Compliance
Universal Engineering Science

HEATING SYSTEM

PX2707

06/29/2022

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Geothermal Heat Pump Entry Power Volt Current	Ducts	Block
1	Electric Heat Pump	Split/Single		HSPF: 9.00	60.0	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	Split/Single		SEER:16.0	60.0	1800	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	0.98 (0.94)	50.00 gal	90 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 #	Location	Supply R-Value Area	Return R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
1	Attic	6.0 627 ft²	Attic 6.0 157 ft²	Default Leakage	Garage	(Default)	(Default)			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 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	
___ 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 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 66	68 66	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(2972.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	2580.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	392.00 ft ²
4. Number of Bedrooms	6	c. N/A	R=	ft ²
5. Is this a worst case?	Yes	d. N/A	R=	ft ²
6. Conditioned floor area above grade (ft ²)	3135	11. Ceiling Types(3135.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Under Attic (Vented)	R=30.0	3135.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	Dbl, U=0.30	c. N/A	R=	ft ²
SHGC:	SHGC=0.25	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	N/A	a. a. Sup: Attic, Ret: Attic, AH: Garage	6	627
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	1.500 ft	a. Central Unit	60.0	SEER:16.00
Area Weighted Average SHGC:	0.250	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	60.0	HSPF:9.00
U-Factor:(AVG)	N/A	15. Hot Water Systems		
SHGC(AVG):	N/A	a. Electric	Cap: 50 gallons	
9. Floor Types	Insulation	b. Conservation features	EF: 0.980	
a. Slab-On-Grade Edge Insulation	R= 0.0			
b. N/A	R=			
c. N/A	R=			
	Area	16. Credits		None
	3135.00 ft ²			Pstat

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: Cory [Signature] Date: _____

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



*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, En  Conservation, if not DEFAULT



Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707

06/29/2022