

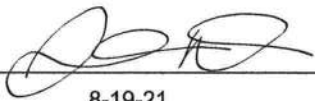
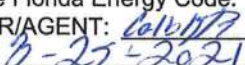
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Bedenbaugh 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 (ft ²) 1500 Conditioned floor area below grade (ft ²) 0 7. Windows(114.0 sqft.) Description Area a. U-Factor: Dbl, U=0.60 114.00 ft ² SHGC: SHGC=0.27 b. U-Factor: N/A ft ² SHGC: c. U-Factor: N/A ft ² SHGC: Area Weighted Average Overhang Depth: 5.211 ft Area Weighted Average SHGC: 0.270 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft ² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 1500.00 ft ² b. N/A R= ft ² c. N/A R= ft ²	10. Wall Types(1600.0 sqft.) Insulation Area a. Frame - Steel, Exterior R=21.0 1600.00 ft ² b. N/A R= ft ² c. N/A R= ft ² d. N/A R= ft ² 11. Ceiling Types(1500.0 sqft.) Insulation Area a. Cathedral/Single Assembly (Unvented) R=11.0 1500.00 ft ² b. N/A R= ft ² c. N/A R= ft ² 12. Ducts, location & insulation level R ft ² a. a. Sup: Exterior, Ret: Main, AH: Main 6 300 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.0 SEER:14.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.0 HSPF:8.50 15. Hot Water Systems Cap: 50 gallons a. Electric EF: 0.920 b. Conservation features 16. Credits None CF, Pstat
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Glass/Floor Area:0.076	Total Proposed Modified Loads: 43.55	PASS
	Total Baseline Loads: 45.47	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 8-19-21 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT:  DATE: 8-25-2021	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:	Bedenbaugh	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	1500	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Name:		Worst Case:	No	PlatBook:	---
Permit Office:		Rotate Angle:	0	Street:	
Jurisdiction:		Cross Ventilation:		County:	columbia
Family Type:	Detached	Whole House Fan:		City, State, Zip:	, FL,
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2021	Shielding:	Moderate/Rural		
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_REGIONA	32	92	70	75	1305.5	51	Medium		

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	1500	15000

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1500	15000	Yes	6	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1500 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	160	0	1500 ft	0.600	---	0.33	0.33	0.34

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	Metal	1581 ft²	250 ft²	Light	N	0.6	No	0.9	No	21	18.43

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	1500 ft²	N	N

CEILING

(Total Exposed Area = 1500 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Cathedral/Single Assembly (Unvented)	Main	21.0	Blown	1500.0ft²	0.039	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

(Total Exposed Area = 1600 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	Frame - Steel	Main	21.0	50.0	0	10.0	0	500.0	0.176		0.23	0.75	0 %
2	E	Exterior	Frame - Steel	Main	21.0	30.0	0	10.0	0	300.0	0.176		0.23	0.75	0 %
3	S	Exterior	Frame - Steel	Main	21.0	50.0	0	10.0	0	500.0	0.176		0.23	0.75	0 %
4	W	Exterior	Frame - Steel	Main	21.0	30.0	0	10.0	0	300.0	0.176		0.23	0.75	0 %

DOORS

(Total Exposed Area = 40 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²
2	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²

WINDOWS

(Total Exposed Area = 114 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp Storm	Area	Overhang Depth	Separation	Interior Shade	Screening
1	N	1	Vinyl	Double (Tinted)	Yes	0.60	0.27	N N	30.0ft²	1.0 ft 0 in	3.0 ft 4 in	None	None
2	N	1	Vinyl	Double (Tinted)	Yes	0.60	0.27	N N	9.0ft²	1.0 ft 0 in	3.0 ft 4 in	None	None
3	S	3	Vinyl	Double (Tinted)	Yes	0.60	0.27	N N	60.0ft²	9.0 ft 0 in	3.0 ft 4 in	None	None
4	W	4	Vinyl	Double (Tinted)	Yes	0.60	0.27	N N	15.0ft²	1.0 ft 0 in	3.0 ft 4 in	None	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
1	Wholehouse	Proposed ACH(50)	0.00030	1179	64.69	121.45	0.1010	4.7	All

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 Entry	Heat Pump Power	Heat Pump Volt	Heat Pump Current	Ducts	Block
1	Electric Heat Pump	None/Single		HSPF: 8.50	36.0		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		SEER: 14.0	36.0	1080	0.85	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	FixtureFlow	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	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----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	LeakageType	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Exterior	6.0	300 ft²	Main	6.0	75 ft²	Prop. Leak Free	Main	---	---	0.03	0.50	1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input 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 type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input 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 type="checkbox"/> Dec	
Thermostat Schedule: HERS 2006 Reference													
✓ ScheduleType		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(1600.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Steel, Exterior	R=21.0	1600.00 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	ft ²
4. Number of Bedrooms	3	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area above grade (ft ²)	1500	11. Ceiling Types(1500.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Cathedral/Single Assembly (Unvented)	R=21.0	1500.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	DbI, U=0.60	c. N/A	R=	ft ²
SHGC:	SHGC=0.27	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	N/A	a. a. Sup: Exterior, Ret: Main, AH: Main	6	300
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	5.211 ft	a. Central Unit	36.0	SEER:14.00
Area Weighted Average SHGC:	0.270	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	36.0	HSPF:8.50
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: 0.920	
a. Slab-On-Grade Edge Insulation	R= 0.0	16. Credits	None	
b. N/A	R=		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: Colby P Date: 8-23-2021

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, Energy Conservation, if not DEFAULT.