

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method



Project Name: Townsend Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County 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) 2016 Conditioned floor area below grade (ft²) 0 7. Windows(157.3 sqft.) Description Area a. U-Factor: Dbl, U=0.26 157.33 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.631 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 2016.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2091.9 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=13.0 1690.60 ft² b. Frame - Wood, Adjacent R=13.0 264.44 ft² c. Concrete Block - Int Insul, Adjacent R=13.0 136.89 ft² d. N/A R= ft² 11. Ceiling Types(2016.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2016.00 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: Main 8 430.8 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.0 SEER:15.00 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 None 16. Credits CF, Pstat
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Glass/Floor Area: 0.078

Total Proposed Modified Loads: 40.50

Total Baseline Loads: 52.36

PASS

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

PREPARED BY:

DATE: 12-17-21

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

OWNER/AGENT:

DATE: 12/21/2021

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: _____

- 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Townsend	Bedrooms:	3	Address type:	Lot
Building Type:	User	Conditioned Area:	2016	Lot #:	
Owner:		Total Stories:	1	Block/SubDivision:	
Builder Name:		Worst Case:	No	PlatBook:	
Permit Office:	Columbia County	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:	Suburban		
Year Construct:	2022	Shielding:	Suburban		
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	2016	18144

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2016	18144	Yes	6	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2016 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	217	0	2016 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	Hip	Wood shingle	2334 ft²	0 ft²	Medium	N	0.75	No	0.9	No	0	30.26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	2016 ft²	N	N

CEILING

(Total Exposed Area = 2016 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	30.0	Blown	2016.0ft²	0.053	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

(Total Exposed Area = 2092 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	Garage	Conc. Blk - Int Ins	Main	13.0	14.0	8	9.0	4	136.9	0.062	0.625	0	0.75	0 %
2	S	Exterior	Conc. Blk - Int Ins	Main	13.0	5.0	8	9.0	0	51.0	0.062	0.625	0	0.75	0 %
3	N	Exterior	Conc. Blk - Int Ins	Main	13.0	27.0	4	9.0	4	255.1	0.064		0	0.75	0 %
4	W	Exterior	Conc. Blk - Int Ins	Main	13.0	11.0	0	9.0	4	102.7	0.064		0	0.75	0 %
5	N	Exterior	Conc. Blk - Int Ins	Main	13.0	13.0	0	9.0	4	121.3	0.064		0	0.75	0 %
6	E	Exterior	Conc. Blk - Int Ins	Main	13.0	42.0	0	9.0	4	392.0	0.064		0	0.75	0 %
7	S	Garage	Frame - Wood	Main	13.0	28.0	4	9.0	4	264.4	0.094		0.23	0.75	0 %
8	S	Exterior	Conc. Blk - Int Ins	Main	13.0	11.0	4	9.0	4	105.8	0.064		0	0.75	0 %
9	W	Exterior	Conc. Blk - Int Ins	Main	13.0	6.0	0	9.0	4	56.0	0.064		0	0.75	0 %
10	S	Exterior	Conc. Blk - Int Ins	Main	13.0	6.0	2	9.0	4	57.6	0.064		0	0.75	0 %
11	E	Exterior	Conc. Blk - Int Ins	Main	13.0	6.0	0	9.0	4	56.0	0.064		0	0.75	0 %
12	S	Exterior	Conc. Blk - Int Ins	Main	13.0	15.0	10	9.0	4	147.8	0.064		0	0.75	0 %
13	E	Exterior	Conc. Blk - Int Ins	Main	13.0	37.0	0	9.0	4	345.3	0.064		0	0.75	0 %

DOORS

(Total Exposed Area = 60 sq.ft.)

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

WINDOWS

(Total Exposed Area = 157 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp Storm	Area	Overhang Depth	Separation	Interior Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
2	S	2	Vinyl	Low-E Double	Yes	0.26	0.20	N N	20.0ft²	12.0 ft 6 in	2.0 ft 4 in	None	None
3	W	4	Vinyl	Low-E Double	Yes	0.26	0.20	N N	15.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
4	N	5	Vinyl	Low-E Double	Yes	0.26	0.20	N N	3.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
5	N	5	Vinyl	Low-E Double	Yes	0.26	0.20	N N	15.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
6	S	7	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	7.0 ft 6 in	2.0 ft 4 in	None	None
7	W	9	Vinyl	Low-E Double	Yes	0.26	0.20	N N	13.3ft²	13.0 ft 6 in	2.0 ft 4 in	None	None
8	E	11	Vinyl	Low-E Double	Yes	0.26	0.20	N N	15.0ft²	7.0 ft 6 in	2.0 ft 4 in	None	None
9	E	13	Vinyl	Low-E Double	Yes	0.26	0.20	N N	16.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
1	Wholehouse	Proposed ACH(50)	0.00029	1512	82.95	155.73	0.1027	5.0	All

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	491 ft²	491 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

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt 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:15.0	36.0	1080	0.80	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	103
	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			Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC #	
	Location	R-Value	Area	Location	R-Value	Area							Heat	Cool
___ 1	Attic	8.0	431 ft²	Attic	8.0	108 ft²	Prop. Leak Free	Main	---	---	0.03	0.60	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* = 77

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(2091.9 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=13.0	1690.60 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	264.44 ft ²
4. Number of Bedrooms	3	c. Concrete Block - Int Insul, Adjacent	R=13.0	136.89 ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area above grade (ft ²)	2016	11. Ceiling Types(2016.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Under Attic (Vented)	R=30.0	2016.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	Dbl, U=0.26	c. N/A	R=	ft ²
SHGC:	SHGC=0.20	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	N/A	a. a. Sup: Attic, Ret: Attic, AH: Main	8	430.8
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	5.631 ft	a. Central Unit	36.0	SEER:15.00
Area Weighted Average SHGC:	0.200	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		EF: 0.920	
a. Slab-On-Grade Edge Insulation	R= 0.0	b. Conservation features		
b. N/A	R=			
c. N/A	R=	16. Credits		None
				CF, 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: *Stanley Campbell* Date: 12/21/2021
 Address of New Home: 214 SW Cherry Blossom way City/FL Zip: FL, L. C. 31 32024



*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.