

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Scheffler Residence  
 Street:  
 City, State, Zip: Lake City, FL, 32055  
 Owner:  
 Design Location: FL, Gainesville

Builder Name: IC Construction, LLC  
 Permit Office: Columbia County  
 Permit Number:  
 Jurisdiction:  
 County: Columbia (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	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft <sup>2</sup> )	2168
Conditioned floor area below grade (ft <sup>2</sup> )	0
7. Windows (276.3 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 276.25 ft <sup>2</sup>
SHGC:	SHGC=0.22
b. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
c. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
Area Weighted Average Overhang Depth:	5.515 ft.
Area Weighted Average SHGC:	0.220
8. Skylights	Area
c. U-Factor:(AVG)	N/A ft <sup>2</sup>
SHGC(AVG):	N/A
9. Floor Types (2168.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2168.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>

10. Wall Types (2366.3 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 2013.80 ft <sup>2</sup>
b. Frame - Wood, Adjacent	R=13.0 352.50 ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>
d. N/A	R= ft <sup>2</sup>
11. Ceiling Types (2168.0 sqft.)	Insulation Area
a. Cathedral/Single Assembly (Unvented)	R=45.0 2168.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>
12. Ducts	R ft <sup>2</sup>
a. Sup: Attic, Ret: Attic, AH: Garage	6 433.6
13. Cooling systems	kBtu/hr Efficiency
a. Central Unit	42.0 SEER:14.00
14. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	42.0 HSPF:8.50
15. Hot water systems	
a. Natural Gas Tankless	Cap: 1 gallons
	EF: 0.590
b. Conservation features	
None	
16. Credits	CF, Pstat

Glass/Floor Area: 0.127

Total Proposed Modified Loads: 52.20

Total Baseline Loads: 56.25

**PASS**

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

PREPARED BY: \_\_\_\_\_

DATE: 5-19-21

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).

## INPUT SUMMARY CHECKLIST REPORT

## PROJECT

Title:	Scheffler Residence	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	2168	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	IC Construction, LLC	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32055
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

## CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

## BLOCKS

Number	Name	Area	Volume
1	Block1	2168	17344

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2168	17344	Yes	6	4	1	Yes	Yes	Yes

## FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	256 ft	0	2168 ft²	----	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	Composition shingles	2425 ft²	0 ft²	Medium	N	0.85	No	0.9	No	45	26.6

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	2168 ft²	N	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Cathedral/Single Assembly (Unvented Main		45	Blown	2168 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	N	Exterior	Frame - Wood	Main	13	12	8	9		114.0 ft²	0.625	0.23	0.75	0
___	2	E	Exterior	Frame - Wood	Main	13	12	10	9		115.5 ft²	0.625	0.23	0.75	0
___	3	N	Exterior	Frame - Wood	Main	13	18		10		180.0 ft²	0.625	0.23	0.75	0
___	4	W	Exterior	Frame - Wood	Main	13	10		10		100.0 ft²	0.625	0.23	0.75	0
___	5	N	Exterior	Frame - Wood	Main	13	11	4	10		113.3 ft²	0.625	0.23	0.75	0
___	6	W	Exterior	Frame - Wood	Main	13	8	2	9		73.5 ft²	0.625	0.23	0.75	0
___	7	N	Exterior	Frame - Wood	Main	13	24		9		216.0 ft²	0.625	0.23	0.75	0
___	8	E	Exterior	Frame - Wood	Main	13	29	2	9		262.5 ft²	0.625	0.23	0.75	0
___	9	S	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²	0.625	0.23	0.75	0
___	10	E	Exterior	Frame - Wood	Main	13	2	4	10		23.3 ft²	0.625	0.23	0.75	0
___	11	S	Exterior	Frame - Wood	Main	13	14	2	10		141.7 ft²	0.625	0.23	0.75	0
___	12	W	Exterior	Frame - Wood	Main	13	2	4	10		23.3 ft²	0.625	0.23	0.75	0
___	13	S	Exterior	Frame - Wood	Main	13	7	2	10		71.7 ft²	0.625	0.23	0.75	0
___	14	E	Exterior	Frame - Wood	Main	13	2	4	9		21.0 ft²	0.625	0.23	0.75	0
___	15	S	Exterior	Frame - Wood	Main	13	12	8	9		114.0 ft²	0.625	0.23	0.75	0
___	16	W	Exterior	Frame - Wood	Main	13	41	4	9		372.0 ft²	0.625	0.23	0.75	0
___	17	S	Garage	Frame - Wood	Main	13	39	2	9		352.5 ft²	0.625	0.23	0.75	0

## DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___	1	N	Insulated	Main	None	.46	5		8		40 ft²
___	2	S	Insulated	Main	None	.46	3		8		24 ft²
___	3	S	Insulated	Main	None	.46	3		8		24 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	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	11 ft 6 in	1 ft 4 in	None	None
___	3	N	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	4	W	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	5	N	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	6	N	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	10.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	7	E	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	8	E	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	9	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	10	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	7 ft 6 in	1 ft 4 in	None	None
___	11	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	7 ft 6 in	1 ft 4 in	None	None
___	12	S	13	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	11 ft 10 in	1 ft 4 in	None	None
___	13	S	15	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	14	W	16	Vinyl	Low-E Double	Yes	0.33	0.22	N	10.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___	15	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	26.0 ft²	11 ft 6 in	1 ft 4 in	None	None

**INPUT SUMMARY CHECKLIST REPORT****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
✓	16	S	13	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.3 ft²	11 ft 10 in	1 ft 4 in	None	None

**GARAGE**

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	844.0008 ft²	844.0008 ft²	79.1667 ft	9 ft	1

**INFILTRATION**

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	1445.3	79.3	148.87	.098	5

**HEATING SYSTEM**

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	None	Singl	HSPF:8.5	42 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	42 kBtu/hr	1260 cfm	0.85	1	sys#1

**HOT WATER SYSTEM**

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Natural Gas	Tankless	Exterior	0.59	1 gal	70 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**

✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	433.6 ft	Attic	108.4 ft	Default Leakage	Garage	(Default)	(Default)			1	1

**INPUT SUMMARY CHECKLIST REPORT****TEMPERATURES**

Programable Thermostat: Y

Ceiling Fans:

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 checked="" type="checkbox"/>	Apr	<input checked="" 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 checked="" 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

Thermostat Schedule: HERS 2006 Reference

Hours

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	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\* = 93

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

, Lake City, FL, 32055

1. New construction or existing	New (From Plans)	10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	2013.80 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	352.50 ft²
4. Number of Bedrooms	4	c. N/A	R=	ft²
5. Is this a worst case?	No	d. N/A	R=	ft²
6. Conditioned floor area (ft²)	2168	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Cathedral/Single Assembly (Unvented)	R=45.0	2168.00 ft²
a. U-Factor:	Dbl, U=0.33	b. N/A	R=	ft²
SHGC:	SHGC=0.22	c. N/A	R=	ft²
b. U-Factor:	N/A	12. Ducts, location & insulation level	R	ft²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	433.6
c. U-Factor:	N/A	13. Cooling systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	42.0	SEER:14.00
d. U-Factor:	N/A	14. Heating systems	kBtu/hr	Efficiency
SHGC:		a. Electric Heat Pump	42.0	HSPF:8.50
Area Weighted Average Overhang Depth:	5.515 ft.	15. Hot water systems		
Area Weighted Average SHGC:	0.220	a. Natural Gas	Cap: 1 gallons	
8. Skylights	Description		EF: 0.59	
a. U-Factor(AVG):	N/A	b. Conservation features		
SHGC(AVG):	N/A	None		
9. Floor Types	Insulation	Credits (Performance method)		CF, Pstat
a. Slab-On-Grade Edge Insulation	R=0.0			
b. N/A	R=			
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.