

Project Name: Alexis Norris Residence Street: SW Charles Terrace City, State, Zip: Lake City, 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) 2880 Conditioned floor area below grade (ft²) 0 7. Windows(494.0 sqft.) Description Area a. U-Factor: Dbl, U=0.36 494.00 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 2880.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2320.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 2320.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(3168.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 3168.00 ft² b. N/A c. N/A 12. Roof(Metal, Vented) Deck R=0.0 3036 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 720 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.6 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 40.2 HSPF2:8.80 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None CV, Pstat 17. Credits
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Glass/Floor Area:0.172	Total Proposed Modified Loads: 68.19	PASS
	Total Baseline Loads: 72.12	

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. <div style="text-align: right; margin-right: 50px;"> </div> PREPARED BY: _____ DATE: <u>2 / 16 / 2024</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Alexis Norris</u> DATE: <u>2/16/24</u>	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. <div style="text-align: right;"> </div> BUILDING OFFICIAL: _____ DATE: _____
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- 2/16/2024 4:38:56 PM EnergyGauge® USA 8.0.00 - FlaRes2023 FBC 8th Edition (2023) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Alexis Norris Residence			Bedrooms:	3	Address type:	Street Address						
Building Type:	User			Conditioned Area:	2880	Lot #:	---						
Owner:				Total Stories:	1	Block/SubDivision:	---						
Builder Home ID:				Worst Case:	No	PlatBook:	---						
Builder Name:				Rotate Angle:	0	Street:	SW Charles Terrace						
Permit Office:	Columbia County			Cross Ventilation:	Yes	County:	Columbia						
Jurisdiction:				Whole House Fan:	No	City, State, Zip:	Lake City, FL,						
Family Type:	Detached			Terrain:	Suburban								
New/Existing:	New (From Plans)			Shielding:	Suburban								
Year Construct:	2024												
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	2880	28800 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	1st Floor	2880	28800	Yes	8	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2880 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	1st Floor	216	2880 sqft	0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00		
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	3036 ft²	268 ft²	Medium	Y	0.96	No	0.9	No	0	18.43	
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC						
___ 1	Partial cathedral ceiling	Vented	300		2880 ft²	Y	N						
CEILING (Total Exposed Area = 3168 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
___ 1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	3168.0ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2320 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	S	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0 %				
___ 2	S	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	14.0	0	280.0	0.061		0.23	0.75	0 %				
___ 3	S	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0 %				
___ 4	E	Exterior	Frame - Wood	1st Floor	19.0	48.0	0	10.0	0	480.0	0.061		0.23	0.75	0 %				
___ 5	N	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0 %				
___ 6	N	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	14.0	0	280.0	0.061		0.23	0.75	0 %				
___ 7	N	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0 %				
___ 8	W	Exterior	Frame - Wood	1st Floor	19.0	48.0	0	10.0	0	480.0	0.061		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 20 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N	Exterior	Insulated	1st Floor	None	0.46	2.00	6	8.00	0	20.0ft²			

WINDOWS																	(Total Exposed Area = 494 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	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.0	1	3.00	6.00	1.5	2.0	None	None		
___ 2	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	42.0	2	3.50	6.00	1.5	6.0	None	None		
___ 3	S	2	TIM	Low-E Double	Y	0.36	0.25	N	N	48.0	2	3.00	8.00	1.5	6.0	None	None		
___ 4	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	24.0	2	3.00	4.00	1.5	1.0	None	None		
___ 5	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	1	6.00	5.00	1.5	1.0	None	None		
___ 6	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	1.5	2.0	None	None		
___ 7	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	20.0	2	2.00	5.00	1.5	3.0	None	None		
___ 8	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	4.0	None	None		
___ 9	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	5.0	None	None		
___ 10	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	1	2.00	4.00	1.5	5.0	None	None		
___ 11	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	20.0	2	2.50	4.00	1.5	3.0	None	None		
___ 12	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	42.0	2	3.50	6.00	1.5	6.0	None	None		
___ 13	N	6	TIM	Low-E Double	Y	0.36	0.25	N	N	48.0	2	3.00	8.00	1.5	6.0	None	None		
___ 14	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	24.0	2	3.00	4.00	1.5	1.0	None	None		
___ 15	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	1	6.00	5.00	1.5	1.0	None	None		
___ 16	N	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	2.0	None	None		
___ 17	N	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.0	1	3.00	6.00	1.5	2.0	None	None		
___ 18	W	8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	54.0	3	3.00	6.00	1.5	4.0	None	None		
___ 19	W	8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	1	2.00	4.00	1.5	4.0	None	None		

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00044	3360	184.34	346.08	0.1500	7.0	All	28800 cu ft

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

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal Entry	HeatPump--- Power	Volts	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	40.2		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		SEER2:15.5	36.6	1110	0.70	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	1st Floor	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	None	12
	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----- Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	720 ft²	Attic	6.0	144 ft²	Default Leakage	1st Floor	(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	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* = 95

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

SW Charles Terrace,Lake City,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(2320.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	2320.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	2880	11. Ceiling Types(3168.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	3168.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Metal, Vented)	Deck R=0.0	3036 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	720
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	36.6	SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	40.2	HSPF2:8.80
SHGC:(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 50 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0		EF: 0.920	
b. N/A	R=	b. Conservation features		
c. N/A	R=			
		17. Credits	None	
			CV, 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: Alexis Norris Date: 2/16/24

Address of New Home: SW Charles Terrace City/FL Zip: Lake City,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.