

Street: 1023 SW Comorah Street
City, State, Zip: Ft White, FL, 32024
Owner: James & Tara Gabriel
Design Location: FL, Gainesville

Permit Office: Columbia County
Permit Number:
Jurisdiction: Columbia(Florida Climate Zone 2)
County:

1. New construction or existing	New (From Plans)	Detached
2. Single family or multiple family		1
3. Number of units, if multiple family		3
4. Number of Bedrooms		No
5. Is this a worst case?		2923
6. Conditioned floor area above grade (ft²)		0
7. Conditioned floor area below grade (ft²)		Area
7. Windows(436.5 sqft.)	Description	436.50 ft²
a. U-Factor:	Dbl, U=0.36	
SHGC:	SHGC=0.25	ft²
b. U-Factor:	N/A	ft²
SHGC:	N/A	ft²
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:	3.853 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	2403.00 ft²
b. Floor over Garage	R= 19.0	520.00 ft²
c. N/A	R=	ft²
10. Wall Types (3902.3 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	3593.30 ft²
b. Frame - Wood, Adjacent	R=13.0	309.00 ft²
c. N/A		
d. N/A		
11. Ceiling Types (3215.0 sqft.)	Insulation	Area
a. Flat ceiling under att (Vented)	R=38.0	3215.00 ft²
b. N/A		
c. N/A		
12. Roof (Comp. Shingles, Vented)	Deck R=0.0	3805 ft²
13. Ducts, location & insulation level		R ft²
a. Sup. Attic, Ret. Attic, Attic		6 731
b.		
c.		
14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	44.9	SEER2:15.50
15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	51.1	HSPF2:8.80
16. Hot Water Systems	Cap: 50 gallons	
a. Electric	EF: 0.920	
b. Conservation features		
17. Credits	None	CV, Pstat

Glass/Floor Area: 0.149 Total Proposed Modified Loads: 75.12 **PASS**
Total Baseline Loads: 83.94

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

PREPARED BY: WMLC

DATE: 7 / 11 / 2023

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: _____
Reviewed for _____



- 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.

- Default duct leakage does not require a Duct Leakage Test Report.

- 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 7.00 ACH50 (R402.4.1.2).

Title: Gabriel Residence

Building Type: User

Owner: James & Tara Gabriel

Builder Home ID: Gibraltar Contracting LLC

Permit Office: Columbia County

Jurisdiction: Detached

Family Type: New (From Plans)

New/Existing: 2023

Year Construct: 2023

Comment:

Bedrooms: 3

Conditioned Area: 2923

Total Stories: 2

Worst Case: No

Rotate Angle: 0

Cross Ventilation: Yes

Whole House Fan: No

Terrain: Suburban

Shielding: Suburban

Address type: Street Address

Lot #: ---

Block/SubDivision: ---

PlatBook: ---

Street: 1023 SW Comorah Street

County: Columbia

City, State, Zip: Ft White, FL, 32024

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	2923	25787 cu ft

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	1st Floor	2403	21627	Yes	8	3	Yes	Yes	Yes
2	2nd Floor	520	4160	No	4	0	Yes	Yes	Yes

FLOORS (Total Exposed Area = 2923 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	1st Floor	288	0	2403 ft	0.304	---	0.00	0.00	1.00
2	Floor over Garage	2nd Floor	---	---	520 ft	0.046	19	0.00	0.00	1.00

ROOF

#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Insul.	Deck	Pitch (deg)
1	Gable or shed	Composition shingles	3805 ft²	682 ft²	Medium	Y	0.96	No	0.9	No	0	39.81

ATTIC

#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Partial cathedral ceiling	Vented	300	2923 ft²	Y	N

CEILING (Total Exposed Area = 3215 sq.ft.)

#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
---	--------------	-------	---------	-----------	------	----------	---------------	------------

2	Flat ceiling under attic(Vented)	2nd Floor	38.0	Double Batt	572.0ft²	0.024	0.11	Wood
---	----------------------------------	-----------	------	-------------	----------	-------	------	------

WALLS (Total Exposed Area = 3902 sq.ft.)

✓ #	Omt	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	W	Exterior	Frame - Wood	1st Floor	13.0	12.0	0	14.0	0	168.0	0.084	0.23	0.75	0 %
2	N	Exterior	Frame - Wood	1st Floor	13.0	11.0	4	12.0	0	136.0	0.084	0.23	0.75	0 %
3	W	Exterior	Frame - Wood	1st Floor	13.0	13.0	0	14.0	0	182.0	0.084	0.23	0.75	0 %
4	S	Exterior	Frame - Wood	1st Floor	13.0	11.0	0	12.0	0	132.0	0.084	0.23	0.75	0 %
5	W	Exterior	Frame - Wood	1st Floor	13.0	16.0	0	9.0	0	144.0	0.084	0.23	0.75	0 %
6	S	Exterior	Frame - Wood	1st Floor	13.0	30.0	4	9.0	0	273.0	0.084	0.23	0.75	0 %
7	E	Exterior	Frame - Wood	1st Floor	13.0	16.0	4	9.0	0	147.0	0.084	0.23	0.75	0 %
8	N	Exterior	Frame - Wood	1st Floor	13.0	9.0	8	9.0	0	87.0	0.084	0.23	0.75	0 %
9	E	Exterior	Frame - Wood	1st Floor	13.0	36.0	0	14.0	0	504.0	0.084	0.23	0.75	0 %
10	S	Exterior	Frame - Wood	1st Floor	13.0	9.0	8	10.0	0	96.7	0.084	0.23	0.75	0 %
11	E	Exterior	Frame - Wood	1st Floor	13.0	14.0	8	10.0	0	146.7	0.084	0.23	0.75	0 %
12	N	Exterior	Frame - Wood	1st Floor	13.0	9.0	8	10.0	0	96.7	0.084	0.23	0.75	0 %
13	E	Exterior	Frame - Wood	1st Floor	13.0	6.0	0	9.0	0	54.0	0.084	0.23	0.75	0 %
14	N	Exterior	Frame - Wood	1st Floor	13.0	40.0	8	9.0	0	366.0	0.084	0.23	0.75	0 %
15	W	Exterior	Frame - Wood	1st Floor	13.0	5.0	0	9.0	0	45.0	0.084	0.23	0.75	0 %
16	W	Garage	Frame - Wood	1st Floor	13.0	17.0	0	9.0	0	153.0	0.084	0.23	0.75	0 %
17	S	Garage	Frame - Wood	1st Floor	13.0	7.0	4	9.0	0	66.0	0.084	0.23	0.75	0 %
18	W	Garage	Frame - Wood	1st Floor	13.0	10.0	0	9.0	0	90.0	0.084	0.23	0.75	0 %
19	S	Exterior	Frame - Wood	1st Floor	13.0	12.0	8	9.0	0	114.0	0.084	0.23	0.75	0 %
20	W	Exterior	Frame - Wood	2nd Floor	13.0	19.0	4	8.0	0	154.7	0.084	0.23	0.75	0 %
21	S	Exterior	Frame - Wood	2nd Floor	13.0	29.0	4	8.0	0	234.7	0.084	0.23	0.75	0 %
22	E	Exterior	Frame - Wood	2nd Floor	13.0	7.0	8	8.0	0	61.3	0.084	0.23	0.75	0 %
23	E	Exterior	Frame - Wood	2nd Floor	13.0	19.0	4	8.0	0	154.7	0.084	0.23	0.75	0 %
24	N	Exterior	Frame - Wood	2nd Floor	13.0	9.0	4	8.0	0	74.7	0.084	0.23	0.75	0 %
25	W	Exterior	Frame - Wood	2nd Floor	13.0	7.0	8	8.0	0	61.3	0.084	0.23	0.75	0 %
26	N	Exterior	Frame - Wood	2nd Floor	13.0	20.0	0	8.0	0	160.0	0.084	0.23	0.75	0 %

DOORS (Total Exposed Area = 20 sq.ft.)

✓ #	Omt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area		
1	W	Garage	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²

WINDOWS (Total Exposed Area = 437 sq.ft.)

Wall	#	Omt	ID	Frame	Panels	NFRC U-Factor	SHGC	Imp Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Interior Shade	Screen			
	1	W	1	TIM	Low-E Double	Y	0.36	0.25	N	N	48.0	2	3.00	8.00	7.5	1.0	None	None
	2	W	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	63.0	3	3.00	7.00	1.0	2.0	None	None
	3	W	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	3.00	2.00	1.0	1.0	None	None
	4	W	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.0	2.0	None	None
	5	S	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	20.0	2	2.00	5.00	1.5	1.0	None	None
	6	S	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	1.0	None	None
	7	E	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.5	1.0	None	None
	8	E	9	TIM	Low-E Double	Y	0.36	0.25	N	N	100.0	6	2.50	6.67	7.5	1.0	None	None
	9	E	9	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	5.00	3.00	7.5	1.0	None	None
	10	S	10	TIM	Low-E Double	Y	0.36	0.25	N	N	20.0	1	3.00	6.67	7.5	1.0	None	None
	11	E	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.0	2.0	None	None
	12	N	14	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	1.0	None	None

14W	20	Vinyl	Low-E Double	Y	0.36	0.25	N	N	12.5	1	2.50	5.00	1.0	3.0	None	None
15S	21	Vinyl	Low-E Double	Y	0.36	0.25	N	N	27.0	2	3.00	4.50	1.5	1.0	None	None
16N	24	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqlA	ACH	ACH50	Space(s)	Infiltration Test Volume
1	Wholehouse	Proposed ACH(50)	0.00039	3008	165.05	309.87	0.1882	7.0	All	25787 cu ft

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	621 ft²	621 ft²	82 ft	9 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
1	Default(8 lbs/sq. ft.)	0 ft²	0 ft	0.30	1st Floor
2	Default(8 lbs/sq. ft.)	0 ft²	0 ft	0.30	2nd Floor

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		HSPF2: 8.80	51.1	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	44.9	1350	0.70	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SelfPnt	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
1	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

✓ #	Supply-----				Return-----				Air		HVAC #		
	Location	R-Value	Area	Location	R-Value	Area	Leakage Type	Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	Heat Cool
1	Attic	6.0	731 ft²	Attic	6.0	146 ft²	Default Leakage	Attic	(Default)	(Default)			1 1

The lower the Energy/Performance Index, the more efficient the home.

1023 SW Comorah Street, Ft White, FL, 32024

New (From Plans)		Detached	
1. New construction or existing			
2. Single family or multiple family		1	
3. Number of units, if multiple family		3	
4. Number of Bedrooms		No	
5. Is this a worst case?		2923	
6. Conditioned floor area above grade (ft ²)		0	
7. Windows**			
a. U-Factor:	Description	Area	
SHGC:	Dbl, U=0.36	436.50 ft ²	
b. U-Factor:	SHGC=0.25	ft ²	
SHGC:	N/A		
c. U-Factor:	N/A	ft ²	
SHGC:			
Area Weighted Average Overhang Depth:		3.853 ft	
Area Weighted Average SHGC:		0.250	
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	2403.00 ft ²	
b. Floor over Garage	R= 19.0	520.00 ft ²	
c. N/A	R=	ft ²	
10. Wall Types (3902.3 sqft.)	Insulation	Area	
a. Frame - Wood, Exterior	R=13.0	3593.30 ft ²	
b. Frame - Wood, Adjacent	R=13.0	309.00 ft ²	
c. N/A			
d. N/A			
11. Ceiling Types (3215.0 sqft.)	Insulation	Area	
a. Flat ceiling under att (Vented)	R=38.0	3215.00 ft ²	
b. N/A			
c. N/A			
12. Roof (Comp. Shingles, Vented)	Deck R=0.0	3805 ft ²	
13. Ducts, location & insulation level		R ft ²	
a. Sup. Attic, Ret. Attic, AH: Attic		6 731	
b.			
c.			
14. Cooling Systems	kBtu/hr	Efficiency	
a. Central Unit	44.9	SEER2:15.50	
15. Heating Systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	51.1	HSPF2:8.80	
16. Hot Water Systems	Cap: 50 gallons		
a. Electric	EF: 0.920		
b. Conservation features			
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: _____ Date: _____

Address of New Home: 1023 SW Comorah Street

City/FL Zip: Ft White, FL, 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.