

Project Name: Gianoulis Residence 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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Glass/Floor Area: 0.029	Total Proposed Modified Loads: 30.65	
	Total Baseline Loads: 33.56	

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. PREPARED BY: DATE: 9-16-24 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: _____
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- 9/16/2024 11:00:52 AM EnergyGauge® USA 8.0.00 - FlaRes2023 FBC 8th Edition (2023) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:Gianoulis Residence

Building Type:User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type:Detached

New/Existing:New (From Plans)

Year Construct:2024

Comment:

Bedrooms:2

Conditioned Area:1205

Total Stories:1

Worst Case:No

Rotate Angle:0

Cross Ventilation:

Whole House Fan:

Terrain:Rural

Shielding:Moderate/Rural

Address type:Street Address

Lot #:---

Block/SubDivision:---

PlatBook:---

Street:

County:Columbia

City, State, Zip: , FL,

CLIMATE

✓

Design Location

Tmy Site

Design Temp

97.5%2.5%

Int Design Temp

WinterSummer

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

1205

10845 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

1

Main

1205

10845

Yes

4

2

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 1205 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

Main

1401205 sqft

0---

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

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

1270 ft²200 ft²

Unf, Gal.

N

0.7

No

0.7

No

30

18.43

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

No attic

Unvented

0

1205 ft²

N

N

CEILING

(Total Exposed Area = 1205 sq.ft.)

✓

#

Ceiling Type

Space

R-Value

Ins. Type

Area

U-Factor

Framing Frac.

Truss Type

1

Single assembly, no airspace(Unvented)

Main

30.0

Blown

1205.0ft²

0.018

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 1260 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	13.0	30.0	0	9.0	0	270.0	0.205		0.23	0.75	0 %					
___ 2	E	Exterior	Frame - Steel	Main	19.0	40.0	0	9.0	0	360.0	0.163		0.23	0.75	0 %					
___ 3	S	Garage	Frame - Wood	Main	13.0	30.0	0	9.0	0	270.0	0.084		0.23	0.75	0 %					
___ 4	W	Exterior	Frame - Steel	Main	19.0	40.0	0	9.0	0	360.0	0.163		0.23	0.75	0 %					

DOORS																	(Total Exposed Area = 176 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area									
___ 1	E	Exterior	Insulated	Main	None	0.46	5.00	4	6.00	8	35.6ft²									
___ 2	S	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²									
___ 3	W	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²									
___ 4	W	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²									
___ 5	W	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²									

WINDOWS																	(Total Exposed Area = 35 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	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.5	1	3.00	1.50	1.5	1.3	None	None			
___ 2	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None			

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00030	947	51.97	97.56	0.1076	5.2	All	10845 cu ft	

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	900 ft²	900 ft²	90 ft	9 ft	1

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 HeatPump----	Ducts	Block			
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF2: 16.00	24.0		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				SEER2:16.0	24.0		720	0.75	sys#1	1		
HOT WATER SYSTEM														
✓ #	System Type	Subtype	Location		EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length			
___ 1	Electric	Tankless	Exterior		0.92 (0.92)	1.00 gal	50 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 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	HVAC # Cool
___ 1	Main	6.0	241 ft²	Main	6.0	60 ft²	Prop. Leak Free	Garage	---	---	0.030	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				Hours									
	Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12	
___	Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___	Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___	Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	
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