

Project Name: Ryan 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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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) 2239 Conditioned floor area below grade (ft²) 0 7. Windows(295.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 295.00 ft² SHGC: SHGC=0.20 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: 0.200 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 1706.00 ft² b. Floor Over Other Space R= 0.0 533.00 ft² c. N/A R= ft²	10. Wall Types(2347.7 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2347.70 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2239.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=0.0 2239.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Unvent) Deck R=40.0 2221 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Loft 6 384 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 30.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 30.0 HSPF2:12.00 16. Hot Water Systems a. ElectricTankless Cap: 1 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.132	Total Proposed Modified Loads: 44.81	
	Total Baseline Loads: 59.79	PASS

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: 9-12-24 _____ 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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- Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title: Ryan 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: 3

Conditioned Area: 2239

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

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

2239

19618 cu ft

SPACES

✓ Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

___ 1

Main

1706

15354

Yes

6

3

Yes

Yes

Yes

___ 2

Loft

533

4264

No

0

0

Yes

Yes

Yes

FLOORS (Total Exposed Area = 1706 sq.ft.)

✓ #

Floor Type

Space

Exposed Perim(ft)

Area

R-Value Perim. Joist

U-Factor

Slab Insul. Vert/Horiz

Tile

Wood

Carpet

___ 1

Slab-On-Grade Edge Ins

Main

222

1706 sqft

0 ---

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

___ 2

Floor Over Other Space

Loft

533 sqft

--- 0

0.173

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

Composition shingles

2221 ft²

710 ft²

Dark

N

0.92

No

0.9

No

40

39.81

ATTIC

✓ #

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

___ 1

No attic

Unvented

0

1706 ft²

N

N

INPUT SUMMARY CHECKLIST REPORT

CEILING														(Total Exposed Area = 2239 sq.ft.)			
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type									
___ 1	Single assembly, no airspace(Unvented)	Main	0.0	Blown	1706.0ft²	0.024	0.11	Wood									
___ 2	Single assembly, no airspace(Unvented)	Loft	0.0	Blown	533.0ft²	0.024	0.11	Wood									

WALLS														(Total Exposed Area = 2348 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 - Wood	Main	13.0	26.0	0	9.0	0	234.0	0.084		0.23	0.75	0 %		
___ 2	E	Exterior	Frame - Wood	Main	13.0	36.0	2	9.0	0	325.5	0.084		0.23	0.75	0 %		
___ 3	S	Exterior	Frame - Wood	Main	13.0	26.0	0	9.0	0	234.0	0.084		0.23	0.75	0 %		
___ 4	W	Exterior	Frame - Wood	Main	13.0	36.0	2	9.0	0	325.5	0.084		0.23	0.75	0 %		
___ 5	N	Exterior	Frame - Wood	Main	13.0	12.0	8	9.0	0	114.0	0.084		0.23	0.75	0 %		
___ 6	E	Exterior	Frame - Wood	Main	13.0	34.0	4	9.0	0	309.0	0.084		0.23	0.75	0 %		
___ 7	S	Exterior	Frame - Wood	Main	13.0	12.0	8	9.0	0	114.0	0.084		0.23	0.75	0 %		
___ 8	W	Exterior	Frame - Wood	Main	13.0	34.0	4	9.0	0	309.0	0.084		0.23	0.75	0 %		
___ 9	N	Exterior	Frame - Wood	Loft	13.0	16.0	4	8.0	0	130.7	0.084		0.23	0.75	0 %		
___ 10	N	Exterior	Frame - Wood	Main	13.0	14.0	0	9.0	0	126.0	0.084		0.23	0.75	0 %		
___ 11	S	Exterior	Frame - Wood	Main	13.0	14.0	0	9.0	0	126.0	0.084		0.23	0.75	0 %		

DOORS														(Total Exposed Area = 156 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area						
___ 1	S	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²						
___ 2	W	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²						
___ 3	E	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²						
___ 4	E	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²						
___ 5	N	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²						
___ 6	S	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²						

WINDOWS														(Total Exposed Area = 295 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	18.0	3	4.00	1.50	1.5	1.3	None	None
___ 2	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.5	1	3.00	1.50	1.5	1.3	None	None
___ 3	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	2	3.00	3.00	1.5	1.3	None	None
___ 4	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	1.3	None	None
___ 5	N	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None
___ 6	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None
___ 7	W	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	12.0	2	4.00	1.50	1.5	1.3	None	None
___ 8	W	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.5	1	3.00	1.50	1.5	1.3	None	None
___ 9	N	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None
___ 10	N	10	Vinyl	Low-E Double	Y	0.26	0.20	N	N	56.0	4	2.00	7.00	1.5	1.3	None	None
___ 11	S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	56.0	4	2.00	7.00	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	1768	97.00	182.11	0.1099	5.4	All	19618 cu ft	

INPUT SUMMARY CHECKLIST REPORT

MASS														
✓	#	Mass Type	Area		Thickness		Furniture Fraction			Space				
	1	Default(8 lbs/sq.ft.)	0 ft²		0 ft		0.30			Main				
	2	Default(8 lbs/sq.ft.)	0 ft²		0 ft		0.30			Loft				
HEATING SYSTEM														
✓	#	System Type	Subtype/Speed		AHRI #		Efficiency		Capacity kBtu/hr	----Geothermal HeatPump----			Ducts	Block
	1	Electric Heat Pump	None/Single		HSPF2: 12.00		30.0			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		SEER2:15.0		30.0			900	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	60 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 #	-----Supply-----		-----Return-----			Leakage Type		Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
	1	Main	6.0	384 ft²	Main	6.0	96 ft²	Prop. Leak Free	Loft	---	---	0.030	0.50	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 80	78 80	78 78	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	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	68 68
	Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68