

Project Name: IC Construction - Star Lake Spec			Builder Name:		
Street:			Permit Office:		
City, State, Zip: , FL,			Permit Number:		
Owner:			Jurisdiction:		
Design Location: FL, Gainesville			County: Columbia(Florida Climate Zone 2)		

1. New construction or existing New (From Plans)			10. Wall Types(2480.8 sqft.) Insulation Area		
2. Single family or multiple family Detached			a. Frame - Wood, Exterior R=13.0 2230.30 ft ²		
3. Number of units, if multiple family 1			b. Frame - Wood, Adjacent R=13.0 250.50 ft ²		
4. Number of Bedrooms 5			c. N/A		
5. Is this a worst case? No			d. N/A		
6. Conditioned floor area above grade (ft ²) 3026			11. Ceiling Types(3026.0 sqft.) Insulation Area		
Conditioned floor area below grade (ft ²) 0			a. Single assembly, no ai (Vented) R=0.0 3026.00 ft ²		
7. Windows(235.0 sqft.) Description Area			b. N/A		
a. U-Factor: DbI, U=0.26 235.00 ft ²			c. N/A		
SHGC: SHGC=0.33			12. Roof(Comp. Shingles, Unvent) Deck R=40.0 3783 ft ²		
b. U-Factor: N/A ft ²			13. Ducts, location & insulation level R ft ²		
SHGC:			a. Sup: Main, Ret: Main, AH: Garage 6 605		
c. U-Factor: N/A ft ²			b.		
SHGC:			c.		
Area Weighted Average Overhang Depth: 1.500 ft			14. Cooling Systems kBtu/hr Efficiency		
Area Weighted Average SHGC: 0.330			a. Central Unit 48.0 SEER2:16.00		
8. Skylights Description Area			15. Heating Systems kBtu/hr Efficiency		
U-Factor:(AVG) N/A N/A ft ²			a. Electric Heat Pump 48.0 HSPF2:8.50		
SHGC(AVG): N/A			16. Hot Water Systems		
9. Floor Types Insulation Area			a. ElectricTankless Cap: 1 gallons		
a. Slab-On-Grade Edge Insulation R= 0.0 2541.00 ft ²			EF: 0.920		
b. Floor over Garage R= 0.0 485.00 ft ²			b. Conservation features		
c. N/A R= ft ²			17. Credits		

Glass/Floor Area: 0.078	Total Proposed Modified Loads: 62.82
	Total Baseline Loads: 72.83

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.	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.
PREPARED BY:	
DATE: 7/18/24	
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.	
OWNER/AGENT:	BUILDING OFFICIAL:
DATE:	DATE:

- Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:IC Construction - Star Lake Spec

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:5

Conditioned Area:3026

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 Temp97.5%2.5%

Int Design TempWinterSummer

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

3026

26749 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

1

Main

2541

22869

Yes

8

4

Yes

Yes

Yes

2

bonus Room

485

3880

No

2

1

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 3026 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

260

2541 sqft

0.0

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

2

Floor over Garage

Main

485 sqft

0.0

0.173

0.00

0.00

1.00

ROOF

✓

#

Type

Materials

Roof Area

Gable Area

Framing. Fract.

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

1

Gable or shed

Composition shingles

3783 ft²

1134 ft²

0.11

Dark

N

0.85

No

0.9

No

40

36.87

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

No attic

Unvented

0

3026 ft²

N

N

INPUT SUMMARY CHECKLIST REPORT

CEILING														(Total Exposed Area = 3026 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	2541.0ft²	0.024	0.11	Wood									
___ 2	Single assembly, no airspace(Unvented)	bonus Room	0.0	Blown	485.0ft²	0.024	0.11	Wood									

WALLS														(Total Exposed Area = 2481 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	16.0	10	9.0	0	151.5	0.084		0.23	0.75	0 %		
___ 2	E	Exterior	Frame - Wood	Main	13.0	7.0	0	9.0	0	63.0	0.084		0.23	0.75	0 %		
___ 3	N	Exterior	Frame - Wood	Main	13.0	18.0	8	10.0	0	186.7	0.084		0.23	0.75	0 %		
___ 4	W	Exterior	Frame - Wood	Main	13.0	7.0	0	9.0	0	63.0	0.084		0.23	0.75	0 %		
___ 5	N	Exterior	Frame - Wood	Main	13.0	11.0	4	9.0	0	102.0	0.084		0.23	0.75	0 %		
___ 6	W	Exterior	Frame - Wood	Main	13.0	3.0	0	9.0	0	27.0	0.084		0.23	0.75	0 %		
___ 7	N	Exterior	Frame - Wood	Main	13.0	16.0	0	9.0	0	144.0	0.084		0.23	0.75	0 %		
___ 8	E	Exterior	Frame - Wood	Main	13.0	15.0	0	9.0	0	135.0	0.084		0.23	0.75	0 %		
___ 9	N	Exterior	Frame - Wood	Main	13.0	7.0	0	9.0	0	63.0	0.084		0.23	0.75	0 %		
___ 10	E	Exterior	Frame - Wood	Main	13.0	16.0	0	9.0	0	144.0	0.084		0.23	0.75	0 %		
___ 11	S	Exterior	Frame - Wood	Main	13.0	7.0	0	9.0	0	63.0	0.084		0.23	0.75	0 %		
___ 12	E	Exterior	Frame - Wood	Main	13.0	14.0	2	9.0	0	127.5	0.084		0.23	0.75	0 %		
___ 13	S	Garage	Frame - Wood	Main	13.0	27.0	10	9.0	0	250.5	0.084		0.23	0.75	0 %		
___ 14	S	Exterior	Frame - Wood	Main	13.0	17.0	10	10.0	0	178.3	0.084		0.23	0.75	0 %		
___ 15	E	Exterior	Frame - Wood	Main	13.0	6.0	0	9.0	0	54.0	0.084		0.23	0.75	0 %		
___ 16	S	Exterior	Frame - Wood	Main	13.0	12.0	0	9.0	0	108.0	0.084		0.23	0.75	0 %		
___ 17	W	Exterior	Frame - Wood	Main	13.0	10.0	8	9.0	0	96.0	0.084		0.23	0.75	0 %		
___ 18	S	Exterior	Frame - Wood	Main	13.0	9.0	0	9.0	0	81.0	0.084		0.23	0.75	0 %		
___ 19	W	Exterior	Frame - Wood	Main	13.0	14.0	4	9.0	0	129.0	0.084		0.23	0.75	0 %		
___ 20	S	Exterior	Frame - Wood	Main	13.0	2.0	0	9.0	0	18.0	0.084		0.23	0.75	0 %		
___ 21	W	Exterior	Frame - Wood	Main	13.0	7.0	4	9.0	0	66.0	0.084		0.23	0.75	0 %		
___ 22	N	Exterior	Frame - Wood	Main	13.0	2.0	0	9.0	0	18.0	0.084		0.23	0.75	0 %		
___ 23	W	Exterior	Frame - Wood	Main	13.0	12.0	4	9.0	0	111.0	0.084		0.23	0.75	0 %		
___ 24	S	Exterior	Frame - Wood	Main	13.0	12.0	8	8.0	0	101.3	0.084		0.23	0.75	0 %		

DOORS														(Total Exposed Area = 144 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area						
___ 1	N	Exterior	Insulated	Main	None	0.46	12.00	0	8.00	0	96.0ft²						
___ 2	S	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²						
___ 3	S	Exterior	Insulated	Main	None	0.46	3.00	6	8.00	0	28.0ft²						

WINDOWS														(Total Exposed Area = 235 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	0.33	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None
___ 2	N	5	Vinyl	Low-E Double	Y	0.26	0.33	N	N	52.0	2	4.00	6.50	1.5	2.3	None	None
___ 3	N	7	Vinyl	Low-E Double	Y	0.26	0.33	N	N	52.0	2	4.00	6.50	1.5	2.3	None	None
___ 4	E	8	Vinyl	Low-E Double	Y	0.26	0.33	N	N	20.0	2	2.00	5.00	1.5	2.3	None	None
___ 5	E	10	Vinyl	Low-E Double	Y	0.26	0.33	N	N	8.0	2	2.00	2.00	1.5	2.3	None	None
___ 6	E	10	Vinyl	Low-E Double	Y	0.26	0.33	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None
___ 7	E	12	Vinyl	Low-E Double	Y	0.26	0.33	N	N	9.0	1	3.00	3.00	1.5	2.3	None	None
___ 8	S	14	Vinyl	Low-E Double	Y	0.26	0.33	N	N	12.0	1	3.00	4.00	1.5	2.3	None	None
___ 9	S	16	Vinyl	Low-E Double	Y	0.26	0.33	N	N	25.0	2	2.50	5.00	1.5	2.3	None	None
___ 10	S	18	Vinyl	Low-E Double	Y	0.26	0.33	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None

INPUT SUMMARY CHECKLIST REPORT

WINDOWS(Continued)																	
__	11W	21	Vinyl	Low-E Double	Y	0.26	0.33	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None
INFILTRATION																	
✓	#	Scope	Method		SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume					
__	1	Wholehouse	Proposed ACH(50)		0.00030	2379	130.50	245.00	0.1088	5.3	All	26749 cu ft					
GARAGE																	
✓	#	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.		Avg. Wall Height	Exposed Wall Insulation							
__	1	636 ft²	26.5 ft²	24.0 ft²	636 ft²	83 ft	151 ft		8 ft	1							
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		bonus Room							
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: 8.50	48.0	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	48.0	1440	0.75	sys#1	1					
HOT WATER SYSTEM																	
✓	#	System Type	Subtype	Location		EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length				
__	1	Electric	Tankless	Exterior		0.92 (0.92)	1.0 gal	80 gal	120 deg	Standard	Yes	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----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool			
__	1	Main	6.0	605 ft²	Main	6.0	151 ft²	Prop. Leak Free	Garage	--- ---	0.030	Yes	0.50	1 1			

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES														
Programable Thermostat: N				Ceiling Fans: N										
Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec		
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec		
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ 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 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 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	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
___	Heating (WEH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68