

Project Name: Leech Residence			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)	
2. Single family or multiple family	Detached	
3. Number of units, if multiple family	1	
4. Number of Bedrooms	4	
5. Is this a worst case?	No	
6. Conditioned floor area above grade (ft²)	3480	
Conditioned floor area below grade (ft²)	0	
7. Windows(436.1 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.26	436.11 ft²
SHGC:	SHGC=0.20	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:	5.288 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	2896.00 ft²
b. Floor over Garage	R= 30.0	584.00 ft²
c. N/A	R=	ft²
10. Wall Types(4399.8 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	3715.80 ft²
b. Frame - Wood, Adjacent	R=13.0	684.00 ft²
c. N/A		
d. N/A		
11. Ceiling Types(3480.0 sqft.)	Insulation	Area
a. Single assembly, no ai (Unvented)	R=30.0	3480.00 ft²
b. N/A		
c. N/A		
12. Roof(Comp. Shingles, Unvent) Deck	R=30.0	4182 ft²
13. Ducts, location & insulation level	R	ft²
a. Sup: Main, Ret: Main, AH: Main		6 348
b.		
c.		
14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	48.0	SEER:18.00
b. PTAC and Room Unit	24.0	EER:21.00
15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	48.0	HSPF:8.50
b. Electric Heat Pump	24.0	HSPF:8.50
16. Hot Water Systems		
a. ElectricTankless		Cap: 1 gallons
		EF: 0.920
b. Conservation features		
		None
17. Credits		CF, Pstat

PASS

- 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.
- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- 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 4.16 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title: Leech Residence		Bedrooms: 4		Address type: Street Address								
Building Type: User		Conditioned Area: 3480		Lot #: ---								
Owner:		Total Stories: 1		Block/SubDivision: ---								
Builder Name:		Worst Case: No		PlatBook: ---								
Permit Office:		Rotate Angle: 0		Street:								
Jurisdiction:		Cross Ventilation:		County: Columbia								
Family Type: Detached		Whole House Fan:		City, State, Zip: , FL,								
New/Existing: New (From Plans)		Terrain: Rural										
Year Construct: 2023		Shielding: Moderate/Rural										
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	2896	34752 cu ft									
___ 2	Block2	584	4672 cu ft									
SPACES												
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
___ 1	Main	2896	34752	Yes	6	3	Yes	Yes	Yes			
___ 2	Bonus Room	584	4672	No	2	1	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 3480 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	Main	340	0	2896 ft	0.563	---	0.20	0.60	0.20		
___ 2	Floor over Garage	Bonus Room	---	---	584 ft	0.038	30	0.20	0.00	0.80		
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	4182 ft²	1160 ft²	Dark	N	0.92	No	0.9	No	30	33.69
ATTIC												
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC					
___ 1	No attic	Unvented	0		3480 ft²	N	N					

INPUT SUMMARY CHECKLIST REPORT

CEILING													(Total Exposed Area = 3480 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	2896.0ft²	0.032	0.11	Wood							
___ 2	Single assembly, no airspace(Unvented)	Bonus Room	30.0	Blown	584.0ft²	0.032	0.11	Wood							

WALLS													(Total Exposed Area = 4400 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	0	12.0	0	192.0	0.094		0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	13.0	13.0	10	12.0	0	166.0	0.094		0.23	0.75	0 %
___ 3	N	Exterior	Frame - Wood	Main	13.0	28.0	6	12.0	0	342.0	0.094		0.23	0.75	0 %
___ 4	W	Exterior	Frame - Wood	Main	13.0	13.0	10	12.0	0	166.0	0.094		0.23	0.75	0 %
___ 5	S	Exterior	Frame - Wood	Main	13.0	2.0	8	12.0	0	32.0	0.094		0.23	0.75	0 %
___ 6	W	Exterior	Frame - Wood	Main	13.0	16.0	10	12.0	0	202.0	0.094		0.23	0.75	0 %
___ 7	N	Exterior	Frame - Wood	Main	13.0	17.0	4	12.0	0	208.0	0.094		0.23	0.75	0 %
___ 8	E	Garage	Frame - Wood	Main	13.0	22.0	0	12.0	0	264.0	0.094		0.23	0.75	0 %
___ 9	W	Exterior	Frame - Wood	Main	13.0	48.0	0	12.0	0	576.0	0.094		0.23	0.75	0 %
___ 10	S	Exterior	Frame - Wood	Main	13.0	15.0	0	11.0	0	165.0	0.094		0.23	0.75	0 %
___ 11	W	Exterior	Frame - Wood	Main	13.0	6.0	0	11.0	0	66.0	0.094		0.23	0.75	0 %
___ 12	S	Exterior	Frame - Wood	Main	13.0	12.0	0	12.0	0	144.0	0.094		0.23	0.75	0 %
___ 13	W	Exterior	Frame - Wood	Main	13.0	4.0	6	12.0	0	54.0	0.094		0.23	0.75	0 %
___ 14	S	Exterior	Frame - Wood	Main	13.0	8.0	0	12.0	0	96.0	0.094		0.23	0.75	0 %
___ 15	E	Exterior	Frame - Wood	Main	13.0	4.0	6	12.0	0	54.0	0.094		0.23	0.75	0 %
___ 16	S	Exterior	Frame - Wood	Main	13.0	12.0	0	12.0	0	144.0	0.094		0.23	0.75	0 %
___ 17	E	Exterior	Frame - Wood	Main	13.0	4.0	0	11.0	0	44.0	0.094		0.23	0.75	0 %
___ 18	N	Exterior	Frame - Wood	Main	13.0	14.0	6	11.0	0	159.5	0.094		0.23	0.75	0 %
___ 19	W	Exterior	Frame - Wood	Main	13.0	32.0	0	11.0	0	352.0	0.094		0.23	0.75	0 %
___ 20	N	Exterior	Frame - Wood	Main	13.0	2.0	0	11.0	0	22.0	0.094		0.23	0.75	0 %
___ 21	W	Exterior	Frame - Wood	Main	13.0	19.0	2	12.0	0	230.0	0.094		0.23	0.75	0 %
___ 22	N	Garage	Frame - Wood	Bonus Room	13.0	35.0	0	6.0	0	210.0	0.094		0.23	0.75	0 %
___ 23	W	Exterior	Frame - Wood	Bonus Room	13.0	7.0	6	8.0	0	60.0	0.094		0.23	0.75	0 %
___ 24	N	Exterior	Frame - Wood	Bonus Room	13.0	7.0	4	8.0	0	58.7	0.094		0.23	0.75	0 %
___ 25	E	Exterior	Frame - Wood	Bonus Room	13.0	7.0	6	8.0	0	60.0	0.094		0.23	0.75	0 %
___ 26	E	Exterior	Frame - Wood	Bonus Room	13.0	15.0	4	8.0	0	122.7	0.094		0.23	0.75	0 %
___ 27	S	Garage	Frame - Wood	Bonus Room	13.0	35.0	0	6.0	0	210.0	0.094		0.23	0.75	0 %

DOORS													(Total Exposed Area = 189 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
___ 1	N	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²				
___ 2	W	Exterior	Insulated	Main	None	0.40	3.00	0	8.00	0	24.0ft²				
___ 3	E	Garage	Wood	Main	None	0.40	3.00	0	8.00	0	24.0ft²				
___ 4	W	Exterior	Insulated	Main	None	0.40	2.00	8	8.00	0	21.3ft²				
___ 5	W	Exterior	Insulated	Main	None	0.40	3.00	0	8.00	0	24.0ft²				
___ 6	S	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²				

INPUT SUMMARY CHECKLIST REPORT

WINDOWS																		(Total Exposed Area = 436 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	36.0	2	3.00	6.00	1.5	2.3	None	None				
___ 2	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	112.0	4	4.00	7.00	15.5	2.3	None	None				
___ 3	W	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	12.0	1	6.00	2.00	8.5	2.3	None	None				
___ 4	N	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	48.0	1	6.00	8.00	1.5	2.3	Draperes/blinds	None				
___ 5	N	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	1	4.00	6.00	1.5	2.3	None	None				
___ 6	S	10	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None				
___ 7	S	12	Vinyl	Low-E Double	Y	0.26	0.20	N	N	35.0	2	2.50	7.00	1.5	2.3	None	None				
___ 8	S	16	Vinyl	Low-E Double	Y	0.26	0.20	N	N	35.0	2	2.50	7.00	1.5	2.3	None	None				
___ 9	N	18	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None				
___ 10W		19	Vinyl	Low-E Double	Y	0.26	0.20	N	N	7.1	4	1.33	1.33	1.5	2.3	None	None				
___ 11W		21	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	2.3	None	None				
___ 12N		24	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None				
___ 13E		26	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.0	1	4.00	4.00	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	2736	150.08	281.76	0.0938	4.2	All	39424 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	1180 ft²	1180 ft²	116 ft	10 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		HSPF: 8.50	48.0		0.00	0.00	0.00	sys#1
___ 2	Electric Heat Pump	None/Single		HSPF: 8.50	24.0		0.00	0.00	0.00	sys#0

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBTu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:18.0	48.0	1440	0.85	sys#1	1
___ 2	PTAC and Room Unit	None/Single		EER:21	24.0	720	0.85	Ductless	2

INPUT SUMMARY CHECKLIST REPORT

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	70 gal	120 deg	Standard	None	200
	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	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Main	6.0	348 ft²	Main	6.0	87 ft²	Prop. Leak Free	Main	---	---	0.03	0.50	1 1

TEMPERATURES

Programable Thermostat: Y				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 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