

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Wright remodel-addition Street: 333 Tribble st City, State, Zip: Lake city, FL, Owner: Johnny Mack Wright Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: columbia(Florida Climate Zone 2)
--	--

<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">1. New construction or existing</td> <td style="width:30%;">Existing (Projected)</td> <td style="width:40%;"></td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> <td></td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> <td></td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> <td></td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> <td></td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>1192</td> <td></td> </tr> <tr> <td> Conditioned floor area below grade (ft²)</td> <td>0</td> <td></td> </tr> <tr> <td>7. Windows(105.2 sqft.)</td> <td>Description</td> <td>Area</td> </tr> <tr> <td> a. U-Factor:</td> <td>Sgl, U=0.55</td> <td>105.17 ft²</td> </tr> <tr> <td> SHGC:</td> <td>SHGC=0.26</td> <td></td> </tr> <tr> <td> b. U-Factor:</td> <td>N/A</td> <td>ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> <td></td> </tr> <tr> <td> c. U-Factor:</td> <td>N/A</td> <td>ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.074 ft</td> <td></td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.260</td> <td></td> </tr> <tr> <td>8. Skylights</td> <td>Description</td> <td>Area</td> </tr> <tr> <td> U-Factor:(AVG)</td> <td>N/A</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC(AVG):</td> <td>N/A</td> <td></td> </tr> <tr> <td>9. Floor Types</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td> a. Slab-On-Grade Edge Insulation</td> <td>R= 0.0</td> <td>1192.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td> c. N/A</td> <td>R=</td> <td>ft²</td> </tr> </table>	1. New construction or existing	Existing (Projected)		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)	1192		Conditioned floor area below grade (ft²)	0		7. Windows(105.2 sqft.)	Description	Area	a. U-Factor:	Sgl, U=0.55	105.17 ft²	SHGC:	SHGC=0.26		b. U-Factor:	N/A	ft²	SHGC:			c. U-Factor:	N/A	ft²	SHGC:			Area Weighted Average Overhang Depth:	2.074 ft		Area Weighted Average SHGC:	0.260		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	1192.00 ft²	b. N/A	R=	ft²	c. N/A	R=	ft²	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">10. Wall Types(1224.7 sqft.)</td> <td style="width:30%;">Insulation</td> <td style="width:40%;">Area</td> </tr> <tr> <td> a. Concrete Block - Int Insul, Exterior</td> <td>R=4.1</td> <td>813.33 ft²</td> </tr> <tr> <td> b. Frame - Wood, Exterior</td> <td>R=13.0</td> <td>411.33 ft²</td> </tr> <tr> <td> c. N/A</td> <td></td> <td></td> </tr> <tr> <td> d. N/A</td> <td></td> <td></td> </tr> <tr> <td>11. Ceiling Types(1192.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td> a. Flat ceiling under att (Vented)</td> <td>R=30.0</td> <td>1192.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td></td> <td></td> </tr> <tr> <td> c. N/A</td> <td></td> <td></td> </tr> <tr> <td>12. Roof(Comp. Shingles, Vented)</td> <td>Deck R=0.0</td> <td>1256 ft²</td> </tr> <tr> <td>13. Ducts, location & insulation level</td> <td>R</td> <td>ft²</td> </tr> <tr> <td> a. Sup: Attic, Ret: Attic, AH: addition</td> <td>6</td> <td>150</td> </tr> <tr> <td> b.</td> <td></td> <td></td> </tr> <tr> <td> c.</td> <td></td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td> a. Central Unit</td> <td>23.6</td> <td>SEER2:15.20</td> </tr> <tr> <td>15. Heating Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td> a. Electric Heat Pump</td> <td>22.0</td> <td>HSPF2:7.50</td> </tr> <tr> <td>16. Hot Water Systems</td> <td></td> <td></td> </tr> <tr> <td> a. Electric</td> <td></td> <td>Cap: 50 gallons</td> </tr> <tr> <td></td> <td></td> <td>EF: 0.930</td> </tr> <tr> <td> b. Conservation features</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>None</td> </tr> <tr> <td>17. Credits</td> <td></td> <td>Pstat</td> </tr> </table>	10. Wall Types(1224.7 sqft.)	Insulation	Area	a. Concrete Block - Int Insul, Exterior	R=4.1	813.33 ft²	b. Frame - Wood, Exterior	R=13.0	411.33 ft²	c. N/A			d. N/A			11. Ceiling Types(1192.0 sqft.)	Insulation	Area	a. Flat ceiling under att (Vented)	R=30.0	1192.00 ft²	b. N/A			c. N/A			12. Roof(Comp. Shingles, Vented)	Deck R=0.0	1256 ft²	13. Ducts, location & insulation level	R	ft²	a. Sup: Attic, Ret: Attic, AH: addition	6	150	b.			c.			14. Cooling Systems	kBtu/hr	Efficiency	a. Central Unit	23.6	SEER2:15.20	15. Heating Systems	kBtu/hr	Efficiency	a. Electric Heat Pump	22.0	HSPF2:7.50	16. Hot Water Systems			a. Electric		Cap: 50 gallons			EF: 0.930	b. Conservation features					None	17. Credits		Pstat
1. New construction or existing	Existing (Projected)																																																																																																																																													
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)	1192																																																																																																																																													
Conditioned floor area below grade (ft²)	0																																																																																																																																													
7. Windows(105.2 sqft.)	Description	Area																																																																																																																																												
a. U-Factor:	Sgl, U=0.55	105.17 ft²																																																																																																																																												
SHGC:	SHGC=0.26																																																																																																																																													
b. U-Factor:	N/A	ft²																																																																																																																																												
SHGC:																																																																																																																																														
c. U-Factor:	N/A	ft²																																																																																																																																												
SHGC:																																																																																																																																														
Area Weighted Average Overhang Depth:	2.074 ft																																																																																																																																													
Area Weighted Average SHGC:	0.260																																																																																																																																													
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	1192.00 ft²																																																																																																																																												
b. N/A	R=	ft²																																																																																																																																												
c. N/A	R=	ft²																																																																																																																																												
10. Wall Types(1224.7 sqft.)	Insulation	Area																																																																																																																																												
a. Concrete Block - Int Insul, Exterior	R=4.1	813.33 ft²																																																																																																																																												
b. Frame - Wood, Exterior	R=13.0	411.33 ft²																																																																																																																																												
c. N/A																																																																																																																																														
d. N/A																																																																																																																																														
11. Ceiling Types(1192.0 sqft.)	Insulation	Area																																																																																																																																												
a. Flat ceiling under att (Vented)	R=30.0	1192.00 ft²																																																																																																																																												
b. N/A																																																																																																																																														
c. N/A																																																																																																																																														
12. Roof(Comp. Shingles, Vented)	Deck R=0.0	1256 ft²																																																																																																																																												
13. Ducts, location & insulation level	R	ft²																																																																																																																																												
a. Sup: Attic, Ret: Attic, AH: addition	6	150																																																																																																																																												
b.																																																																																																																																														
c.																																																																																																																																														
14. Cooling Systems	kBtu/hr	Efficiency																																																																																																																																												
a. Central Unit	23.6	SEER2:15.20																																																																																																																																												
15. Heating Systems	kBtu/hr	Efficiency																																																																																																																																												
a. Electric Heat Pump	22.0	HSPF2:7.50																																																																																																																																												
16. Hot Water Systems																																																																																																																																														
a. Electric		Cap: 50 gallons																																																																																																																																												
		EF: 0.930																																																																																																																																												
b. Conservation features																																																																																																																																														
		None																																																																																																																																												
17. Credits		Pstat																																																																																																																																												

Glass/Floor Area: 0.088

Total Proposed Modified Loads: 34.59

Total Baseline Loads: 36.58

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: _____ 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: _____
--	---



- 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT**PROJECT**

Title:	Wright remodel-addition	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	1192	Lot #:	---
Owner:	Johnny Mack Wright	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	Street:	333 Tribble st
Builder Name:		Rotate Angle:	0	County:	columbia
Permit Office:		Cross Ventilation:		City, State, Zip:	Lake city, FL,
Jurisdiction:		Whole House Fan:			
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	Existing (Projected)	Shielding:	Suburban		
Year Construct:	2026				
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	1192	9536 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	existing	912	7296	Yes	3	2	Yes	Yes	Yes
___ 2	addition	280	2240	No	1	1	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1192 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	existing	101.67	912 sqft	0.0	---	0.636	0 (ft)/0 (ft)	0.50	0.00	0.50
___ 2	Slab-On-Grade Edge Ins	addition	51.5	280 sqft	0.0	---	0.608	0 (ft)/0 (ft)	0.40	0.00	0.60

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	Hip	Composition shingles	1256 ft²	0 ft²	0.11	Dark	N	0.85	No	0.9	No	0	18.43

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	1192 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING														(Total Exposed Area = 1192 sq.ft.)	
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type							
___ 1	Flat ceiling under attic(Vented)	existing	30.0	Blown	912.0ft²	0.053	0.11	Wood							
___ 2	Flat ceiling under attic(Vented)	addition	30.0	Blown	280.0ft²	0.053	0.11	Wood							

WALLS														(Total Exposed Area = 1225 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	Conc. Blk - Int Ins	existing	4.1	39.0	8	8.0	0	317.3	0.149		0	0.50	0.0 %
___ 2	S	Exterior	Conc. Blk - Int Ins	existing	4.1	39.0	0	8.0	0	312.0	0.149		0	0.50	0.0 %
___ 3	W	Exterior	Conc. Blk - Int Ins	existing	4.1	23.0	0	8.0	0	184.0	0.149		0	0.50	0.0 %
___ 4	N	Exterior	Frame - Wood	addition	13.0	10.0	4	8.0	0	82.7	0.094		0.23	0.50	0.0 %
___ 5	W	Exterior	Frame - Wood	addition	13.0	26.0	7	8.0	0	212.7	0.094		0.23	0.50	0.0 %
___ 6	S	Exterior	Frame - Wood	addition	13.0	11.0	0	8.0	0	88.0	0.094		0.23	0.50	0.0 %
___ 7	E	Exterior	Frame - Wood	addition	13.0	3.0	6	8.0	0	28.0	0.094		0.23	0.50	0.0 %

DOORS														(Total Exposed Area = 40 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
___ 1	S	Exterior	Insulated	existing	None	0.40	3.00	0	6.00	8	20.0ft²				
___ 2	N	Exterior	Insulated	addition	None	0.40	3.00	0	6.00	8	20.0ft²				

WINDOWS														(Total Exposed Area = 105 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	Metal	Low-E Single	Y	0.55	0.26	N	N	15.0	1	3.00	5.00	1.3	1.0	None	None
___ 2	N	1	Metal	Low-E Single	Y	0.55	0.26	N	N	9.5	2	1.58	3.00	1.3	1.0	None	None
___ 3	N	1	Metal	Low-E Single	Y	0.55	0.26	N	N	9.0	1	3.00	3.00	1.3	1.0	None	None
___ 4	N	4	Metal	Low-E Single	Y	0.55	0.26	N	N	8.0	1	2.00	4.00	1.3	1.0	None	None
___ 5	S	2	Metal	Low-E Single	Y	0.55	0.26	N	N	15.0	1	3.00	5.00	1.3	1.0	None	None
___ 6	S	2	Metal	Low-E Single	Y	0.55	0.26	N	N	18.0	2	3.00	3.00	1.3	1.0	None	None
___ 7	S	2	Metal	Low-E Single	Y	0.55	0.26	N	N	6.7	1	1.00	6.67	14.3	1.0	None	None
___ 8	W	3	Metal	Low-E Single	Y	0.55	0.26	N	N	15.0	1	3.00	5.00	1.3	3.8	None	None
___ 9	W	3	Metal	Low-E Single	Y	0.55	0.26	N	N	9.0	1	3.00	3.00	1.3	3.8	None	None

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00036	1113	61.04	114.59	0.1372	7.0	All	9536 cu ft	

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	existing
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	addition

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	22.0		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	Split/Single		SEER2:15.2	23.6	708	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	None	addition	0.93 (0.92)	50.0 gal	60 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 SEALED	AHU RLF	HVAC # Heat Cool
___ 1	Attic 6.0 150 ft²	Attic 6.0 60 ft²	Prop. Leak Free	addition	--- ---	0.030	Yes	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	Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12		
___ Cooling (WD)	AM 78 PM 80	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78		
___ Cooling (WEH)	AM 78 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 78		
___ Heating (WD)	AM 66 PM 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68	68 66		
___ Heating (WEH)	AM 66 PM 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68	68 66		

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1^a

Project Name: Wright remodel-addition		Builder Name:	
Street: 333 Tribble st		Permit Office:	
City, State, Zip: Lake city, FL,		Permit Number:	
Owner: Johnny Mack Wright		Jurisdiction:	
Design Location: FL, Gainesville		County: columbia(Florida Climate Zone 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHECK
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance 2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:
---------------	-----------

Job Information

Builder:	Community:	Lot: NA
Address: 333 Tribble st		
City: Lake city	State: FL	Zip:

Duct Leakage Test Results

System 1	_____ cfm25
System 2	_____ cfm25
System 3	_____ cfm25
Sum of others	_____ cfm25
Total of all	_____ cfm25

Prescriptive Method cfm25 (Total)

To qualify as "substantially leak free" Qn Total must be less than or equal to 0.04 if air handler unit is installed. If air handler unit is not installed, Qn Total must be less than or equal to 0.03. This testing method meets the requirements in accordance with Section R403.3.3.

Is the air handler unit installed during testing? YES (^{=.04}/_{Qn}) NO (^{=.03}/_{Qn})

_____ ÷ 1192 = _____ Qn

Total of all systems Total Conditioned Square Footage

PASS **FAIL**

Performance/ERI Method cfm25 (Out or Total)

To qualify using this method, Qn must not be greater than the proposed duct leakage Qn specified on Form R405-2023 or R406-2023.

<i>Leakage Type selected on Form R405-2023 (EnergyCalc) or R406-2023</i>	<i>Qn specified on Form R405-2023 (EnergyCalc) or R406-2023</i>
Proposed Leak Free	0.030

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above duct leakage testing results are in accordance with the Florida Building Code requirements with the selected compliance path as stated above, either the Prescriptive Method or Performance Method.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:
---------------	-----------

Job Information

Builder:	Community:	Lot: NA
Address: 333 Tribble st		
City: Lake city	State: FL	Zip:

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000

$\frac{\text{CFM}(50) \times 60}{\text{Building Volume}} = \text{ACH}(50)$ <div style="text-align: center; margin-top: 10px;"> <input type="checkbox"/> PASS </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p><u>Method for calculating building volume:</u></p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
--	---

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the *Florida Building Code, Residential*. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Project Information

For: Wright
333 Tribble st, Lake city, FL

Cooling Equipment

Design Conditions

Outdoor design DB:	92.4°F	Sensible gain:	17719 Btuh	Entering coil DB:	76.3°F
Outdoor design WB:	75.8°F	Latent gain:	2651 Btuh	Entering coil WB:	63.1°F
Indoor design DB:	75.0°F	Total gain:	20371 Btuh		
Indoor RH:	50%	Estimated airflow:	787 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA2410A+AMST24BU1300A		
Actual airflow:	787 cfm				
Sensible capacity:	19575 Btuh		110% of load		
Latent capacity:	3526 Btuh		133% of load		
Total capacity:	23100 Btuh		113% of load	SHR:	85%

Heating Equipment

Design Conditions

Outdoor design DB:	33.3°F	Heat loss:	23785 Btuh	Entering coil DB:	69.4°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA2410A+AMST24BU1300A		
Actual airflow:	787 cfm				
Output capacity:	16570 Btuh		70% of load	Capacity balance:	36 °F
Supplemental heat required:	7215 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.

Project Information

For: Wright
 333 Tribble st, Lake city, FL

Design Information

	Htg	Clg	Infiltration	Simplified Average
Outside db (°F)	33	92	Method	0
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	43		

HEATING EQUIPMENT

Make Goodman Mfg.
 Trade GOODMAN
 Model GLZS4BA2410A
 AHRI ref 215213871

Efficiency 7.5 HSPF2
 Heating input
 Heating output 22000 Btuh @ 47°F
 Temperature rise 26 °F
 Actual air flow 787 cfm
 Air flow factor 0.033 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 36 °F

COOLING EQUIPMENT

Make Goodman Mfg.
 Trade GOODMAN
 Cond GLZS4BA2410A
 Coil AMST24BU1300A
 AHRI ref 215213871

Efficiency 12.5 EER2, 15.2 SEER2
 Sensible cooling 16520 Btuh
 Latent cooling 7080 Btuh
 Total cooling 23600 Btuh
 Actual air flow 787 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bed2	148	4405	2704	146	120
P bed	152	4336	3351	143	149
bath2	45	798	409	26	18
bath1	50	880	450	29	20
P wic	62	1170	712	39	32
kitchen-living	452	6394	6292	212	279
bed3	163	3252	2182	108	97
utility	117	2551	1618	84	72

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Entire House	1188	23785	17719	787	787
Other equip loads		0	0		
Equip. @ 0.97 RSM			17259		
Latent cooling			2651		
TOTALS	1188	23785	19910	787	787

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Project Information

For: Wright
 333 Tribble st, Lake city, FL

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 70 °F
 Design TD 37 °F

Ventilation Method MJ8

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 43 gr/lb

Heating Summary

Structure 20719 Btuh
 Ducts (R-6.0) 3066 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 23785 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft ²)	1188	1188
Volume (ft ³)	9508	9508
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	71	36

Heating Equipment Summary

Make Goodman Mfg.
 Trade GOODMAN
 Model GLZS4BA2410A
 AHRI ref 215213871

Efficiency 7.5 HSPF2
 Heating input
 Heating output 22000 Btuh @ 47°F
 Temperature rise 26 °F
 Actual air flow 787 cfm
 Air flow factor 0.033 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 36 °F

Sensible Cooling Equipment Load Sizing

Structure 13872 Btuh
 Ducts (R-6.0) 3847 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.97
 Equipment sensible load 17259 Btuh

Latent Cooling Equipment Load Sizing

Structure 2073 Btuh
 Ducts 579 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 2651 Btuh
Equipment Total Load (Sen+Lat) 19910 Btuh
 Req. total capacity at 0.70 SHR 2.1 ton

Cooling Equipment Summary

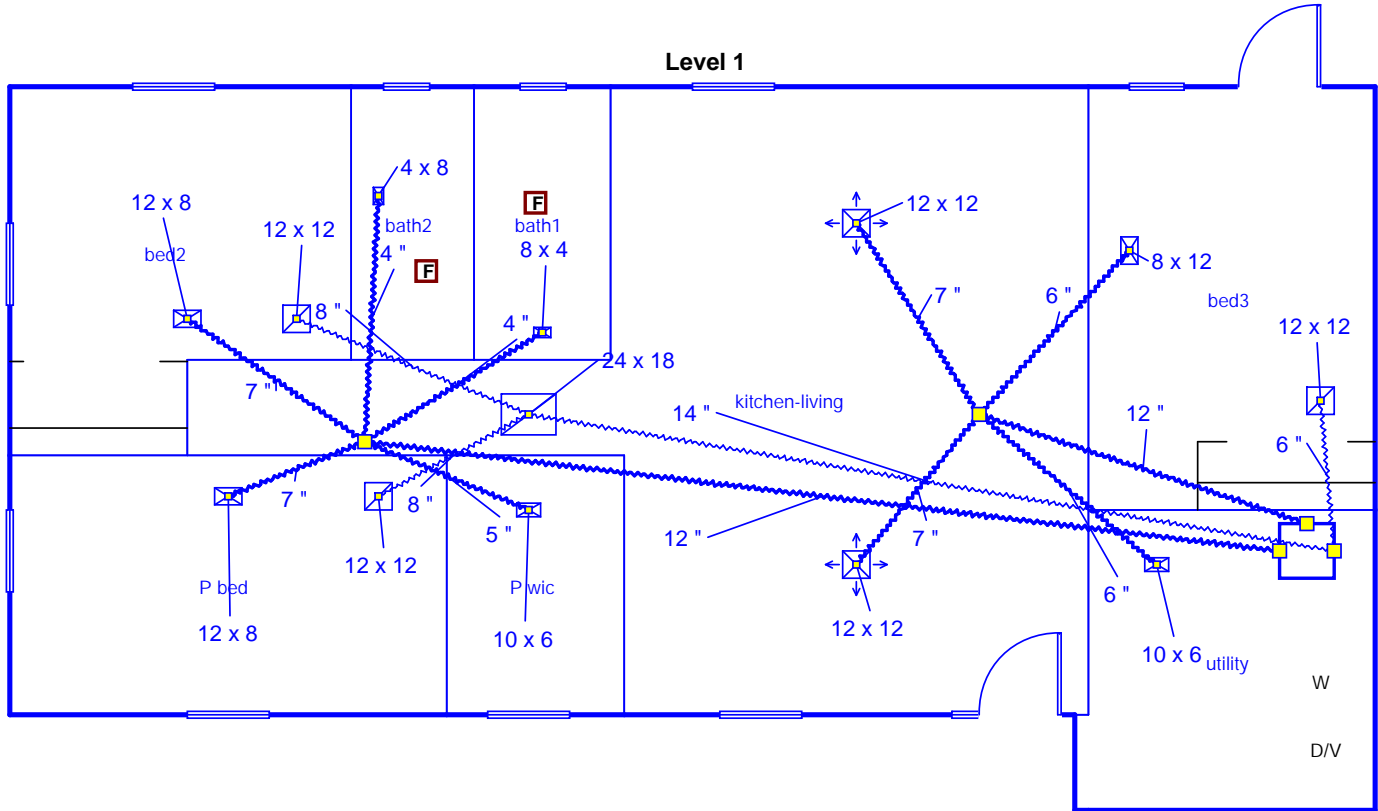
Make Goodman Mfg.
 Trade GOODMAN
 Cond GLZS4BA2410A
 Coil AMST24BU1300A
 AHRI ref 215213871

Efficiency 12.5 EER2, 15.2 SEER2
 Sensible cooling 16520 Btuh
 Latent cooling 7080 Btuh
 Total cooling 23600 Btuh
 Actual air flow 787 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.87

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Level 1



Job #:
Performed for:
Wright
333 Tribble st
Lake city, FL

Blairs air conditioning & heating

License: CAC1815307

Scale: 1 : 84
Page 1
Right-Suite® Universal 2025
25.0.05 RSU25882
2026-Mar-06 12:24:00
...ices\Wright remodel-addition.rup