

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

- ☐ *This checklist*
- ☐ *Form R405-2023 report*
- ☐ *Input summary checklist that can be used for field verification (usually four pages/may be greater)*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☐ *Mandatory Requirements (five pages)*

Required prior to CO:

- ☐ *Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- ☐ *A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5*
- ☐ *If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)*

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 2 1970-C-RHG-NW Street: _____ SW Rosemary Drive City, State, Zip: Lake City, FL, Owner: Design Location: FL, Gainesville	Builder Name: Adams Homes Permit Office: Permit Number: Jurisdiction: 221000 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) 1955 Conditioned floor area below grade (ft²) 0 7. Windows(178.1 sqft.) Description Area a. U-Factor: Dbl, U=0.33 178.06 ft² SHGC: SHGC=0.21 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 2.636 ft Area Weighted Average SHGC: 0.210 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 1955.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1689.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1505.30 ft² b. Frame - Wood, Adjacent R=13.0 184.00 ft² c. N/A d. N/A 11. Ceiling Types(2035.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 1961.00 ft² b. Knee wall to attic (Vented) R=19.0 74.00 ft² c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2186 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Main, AH: Main 6 391 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 35.0 SEER2:14.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 35.6 HSPF2:7.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.950 b. Conservation features None Pstat 17. Credits
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Glass/Floor Area: 0.091	Total Proposed Modified Loads: 43.94	PASS
	Total Baseline Loads: 46.12	
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: <u>Gabriel A Alvelo</u> DATE: <u>5/12/26 Gabriel A Alvelo</u> 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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- 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.
- Default duct leakage does not require a Duct Leakage Test Report.
- 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 6.75 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Lot 2 1970-C-RHG-NW				Address type:		Lot																	
Building Type:	User				Bedrooms:	3		Lot #:	2															
Owner:					Conditioned Area:	1955		Block/SubDivision:	Preserve@Laur															
Builder Home ID:					Total Stories:	1		PlatBook:																
Builder Name:	Adams Homes				Worst Case:	No		Street:	____ SW Rosemary Drive															
Permit Office:					Rotate Angle:	0		County:	Columbia															
Jurisdiction:	221000				Cross Ventilation:	No		City, State, Zip:	Lake City, FL,															
Family Type:	Detached				Whole House Fan:	No																		
New/Existing:	New (From Plans)				Terrain:	Suburban																		
Year Construct:					Shielding:	Suburban																		
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	Entire House		1955		15836 cu ft																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
____ 1	Main		1955		15836		Yes		4		3		Yes		Yes		Yes							
FLOORS (Total Exposed Area = 1955 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		205		1955 sqft		0.0 ---		0.614		2 (ft)/0 (ft)		0.42		0.00		0.58					
ROOF																								
✓ #	Type		Materials		Roof Area		Gable Area		Framing. Fract.		Roof Color		Rad Barr		Solar Absor.		SA Tested		Emitt Tested		Deck Insul.		Pitch (deg)	
____ 1	Gable or Shed		Composition shingles		2186 ft²		488 ft²		0.11		Medium		N		0.85		No		0.85		No		0 26.57	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
____ 1	Full attic		Vented		300		1955 ft²		N		N													
CEILING (Total Exposed Area = 2035 sq.ft.)																								
✓ #	Ceiling Type		Space		R-Value		Ins. Type		Area		U-Factor		Framing Frac.		Truss Type									
____ 1	Flat ceiling under attic(Vented)		Main		30.0		Blown		1961.0ft²		0.053		0.11		Wood									
____ 2	Knee wall to attic(Vented)		Main		19.0		Batt		74.0ft²		0.072		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1689 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	NE	Exterior	Frame - Wood	Main	13.0	58.0	6	8.0	0	468.0	0.094	0	0.23	0.50	0.0 %	
___ 2	NW	Exterior	Frame - Wood	Main	13.0	20.0	10	8.0	0	166.7	0.094	0	0.23	0.50	0.0 %	
___ 3	SW	Exterior	Frame - Wood	Main	13.0	68.0	9	8.0	0	550.0	0.094	0	0.23	0.50	0.0 %	
___ 4	SE	Exterior	Frame - Wood	Main	13.0	17.0	4	8.0	0	138.7	0.094	0	0.23	0.50	0.0 %	
___ 5	SE	Exterior	Frame - Wood	Main	13.0	22.0	9	8.0	0	182.0	0.094	0	0.23	0.50	0.0 %	
___ 6	NW	Garage	Frame - Wood	Main	13.0	19.0	6	8.0	0	156.0	0.094	0	0.23	0.01	0.0 %	
___ 7	SW	Garage	Frame - Wood	Main	13.0	3.0	6	8.0	0	28.0	0.094	0	0.23	0.01	0.0 %	

DOORS (Total Exposed Area = 56 sq.ft.)												
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	NE		Wood	Main	None	0.25	2.00	8	6.00	8	17.8ft²	
___ 2	NW(Front)		Insulated	Main	None	0.25	3.00	0	6.00	8	20.0ft²	
___ 3	SE		Wood	Main	None	0.25	2.00	8	6.00	8	17.8ft²	

WINDOWS (Total Exposed Area = 178 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	NE	1	Vinyl	Low-E Double	Y	0.33	0.21	N	N	16.2	1	3.08	5.25	1.0	1.3	None	Ex. 50%
___ 2	NE	1	Vinyl	Low-E Double	Y	0.33	0.21	N	N	32.4	2	3.08	5.25	1.0	1.3	None	Ex. 50%
___ 3	NW	2	Vinyl	Low-E Double	Y	0.33	0.21	N	N	32.4	2	3.08	5.25	1.0	1.3	None	Ex. 50%
___ 4	SW	3	Vinyl	Low-E Double	Y	0.33	0.21	N	N	32.4	2	3.08	5.25	1.0	1.3	None	Ex. 50%
___ 5	SE	5	Vinyl	Low-E Double	Y	0.33	0.21	N	N	32.4	2	3.08	5.25	1.0	1.3	None	Ex. 50%
___ 6	SE	4	Vinyl	Low-E Double	Y	0.33	0.21	N	N	32.4	2	3.08	5.25	10.0	1.3	None	Ex. 50%

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00035	1781	97.74	183.49	0.1329	6.8	All	15836 cu ft

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	404 ft²	20.0 ft²	20.2 ft²	404 ft²	57 ft	404 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

HEATING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry Power Volt Current	Ducts	Block	
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	35.6	0.00 0.00 0.00	sys#1	1	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 95

The lower the EnergyPerformance Index, the more efficient the home.

____ SW Rosemary Drive,Lake City,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1689.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1505.30 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	184.00 ft ²
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1955	11. Ceiling Types(2035.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	1961.00 ft ²
7. Windows**	Description	b. Knee wall to attic (Vented)	R=19.0	74.00 ft ²
a. U-Factor:	Dbl, U=0.33	c. N/A		
SHGC:	SHGC=0.21	12. Roof(Comp. Shingles, Vented)	Deck R=0.0	2186 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Main, AH: Main	6	391
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	2.636 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.210	a. Central Unit	35.0	SEER2:14.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	35.6	HSPF2:7.50
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric	Cap: 50 gallons	
b. N/A	R=		EF: 0.950	
c. N/A	R=	b. Conservation features		
		17. Credits	None	Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: ____ SW Rosemary Drive City/FL Zip: Lake City,FL,



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Florida Building Code, Energy Conservation, 8th Edition (2023)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: _____ SW Rosemary Drive
Lake City, FL

Permit Number: _____

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

- ☐ **R401.3 Energy Performance Level (EPL) display card - (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

- ☐ **R402.2.10.1 Slab-on-grade floor insulation installation (Mandatory).** Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2, or the distance of the proposed design as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.
- ☐ **R402.2.11.1 Crawl space walls insulation installation (Mandatory).** Where crawl space wall insulation is installed, it shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the Florida Building Code, Building, or Florida Building Code, Residential, as applicable. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.
- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
 - Exception:** Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
- ☐ **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 of 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.
 - Exception:** Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent 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, backdraft 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 air 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 an infiltration volume and calculating the air leakage of the home.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
- Exception:** Site-built windows, skylights and doors.
- ☐ **R402.4.4 Rooms containing fuel - burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.
- Exceptions:**
1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.
- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- ☐ **R402.4.6 Air-sealed electrical and communication boxes.** Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

SECTION R403 SYSTEMS

R403.1 Controls

- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system
- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps with supplementary electric-resistance heaters shall have controls that limit supplemental heat operation to only those times when one of the following applies:
1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
 2. The heat pump is operating in defrost mode.
 3. The vapor compression cycle malfunctions.
 4. The thermostat malfunctions
- ☐ **R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.
- Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 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, to be "substantially leak free" in accordance with Section R403.3.3.
- ☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
- ☐ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:
1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
 2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.
- Exceptions;**
1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
 2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Q_n to the outside of less than 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.
- A written report of the results of the test shall be signed by the party conducting the test and provided to the code official

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums
- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
- ☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
- ☐ **R403.5.2 Demand recirculation water systems (Mandatory).** Where installed, demand recirculation water systems shall have controls that comply with both of the following:
 - 1. The control shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance.
 - 2. The control shall limit the temperature of the water entering the cold water piping to 104°F (40°C).
- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- ☐ **R403.5.6 Water heater efficiencies (Mandatory).**
 - ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
 - ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
 - ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
 - ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
 - 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 - 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)



R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	<90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916



R403.6.2 Ventilation Air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:

1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment.



R403.7.1 Equipment sizing (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
- The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- ☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- ☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
- ☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
- ☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
- ☐ **R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
- ☐ **403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater.
- Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems
3. Where pumps are powered exclusively from on-site renewable generation.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
- Exception:** Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- ☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
- ☐ **R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements:
1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.
 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
 4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
- ☐ **R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.
 2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.
 3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.
 4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

- ☐ **R404.1 Lighting equipment (Mandatory).** All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.
- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

SECTION R405
SIMULATED PERFORMANCE ALTERNATIVE
(PERFORMANCE)

- ☐ **R405.2 Mandatory requirements.** Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6, except site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.
- ☐ **R405.2.1 Ceiling insulation.** Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.
- ☐ **R405.2.2 Building air leakage testing.** Building or dwelling air leakage testing shall be in accordance with Sections R402.4 through R402.4.1.2. If an air leakage rate below seven air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) is specified for the proposed design, testing shall verify the air leakage rate does not exceed the air leakage rate of the proposed design instead of seven air changes per hour.
- ☐ **R405.2.3 Duct air leakage testing.** In cases where duct air leakage lower than the default Q_n to outside of 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is specified for the proposed design, testing in accordance with Section R403.3.2 shall verify a duct air leakage rate not exceeding the leakage rate of the proposed design. Otherwise, in accordance with Section R403.3.3, duct testing is not mandatory for buildings complying by Section R405.

SECTION R406
ENERGY RATING INDEX
COMPLIANCE ALTERNATIVE

- ☐ **R406.2 Mandatory requirements.** Compliance with this section requires that the provisions identified in Sections R401 through R404 labeled as “mandatory” and Section R403.5.3 of the 2015 International Energy Conservation Code be met. For buildings that do not utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. For buildings that utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.

Exception: Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.
- ☐ **R406.2.1 Site-wrapped supply ducts.** Site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.

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

Project Name: Lot 2 1970-C-RHG-NW		Builder Name: Adams Homes	
Street: _____ SW Rosemary Drive		Permit Office:	
City, State, Zip: Lake City, FL,		Permit Number:	
Owner:		Jurisdiction: 221000	
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.	CH
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.

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction: 221000	Permit #:
Job Information	
Builder: Adams Homes Community: Lot: 2	
Address: ____ SW Rosemary Drive	
City: Lake City State: FL Zip:	
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
☐ 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): 6.750	
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{15836}{\text{ACH}(50)} =$ PASS ☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. Method for calculating building volume: ☐ Retrieved from architectural plans ☒ Code software calculated ☐ Field measured and calculated	
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 <i>Florida Building Code, Residential</i>. 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), <i>Florida Statutes</i>, 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 <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>. 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: _____	



Manual S Compliance Report

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes Gainesville
_____ SW Rosemary Drive, Lake City, FL

Cooling Equipment

Design Conditions

Outdoor design DB:	92.4°F	Sensible gain:	26419	Btuh	Entering coil DB:	78.1°F
Outdoor design WB:	75.8°F	Latent gain:	4263	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	30683	Btuh		
Indoor RH:	50%	Estimated airflow:	1167	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	GH5SAN53600AA0+FJ5ANXB36L00	
Actual airflow:	1167	cfm		
Sensible capacity:	29070	Btuh	110% of load	
Latent capacity:	5229	Btuh	123% of load	
Total capacity:	34298	Btuh	112% of load	SHR: 85%

Heating Equipment

Design Conditions

Outdoor design DB:	33.3°F	Heat loss:	26385	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	GH5SAN53600AA0+FJ5ANXB36L00	
Actual airflow:	0	cfm		
Output capacity:	35600	Btuh	135% of load	
Supplemental heat required:	0	Btuh		
			Capacity balance:	27 °F
			Economic balance:	-99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	0	cfm		
Output capacity:	0	kW	0% of load	Temp. rise: 0 °F

Meets all requirements of ACCA Manual S.



Right-Suite® Universal 2025 25.0.01 RSU60609

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Project Summary

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes Gainesville
_____ SW Rosemary Drive, Lake City, FL

Notes: LS 05/12/26 GAA

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

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

Ventilation Method MJ8

Heating Summary

Structure 23167 Btuh
Ducts (R-6.0) 3217 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 26385 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	1955	1955
Volume (ft³)	17415	17415
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	110	58

Heating Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Model GH5SAN53600AA0
AHRI ref 214101828

Efficiency 7.5 HSPF2
Heating input
Heating output 35600 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 27 °F

Backup:
Input = 0 kW, Output = 0 Btuh, 100 AFUE

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

Sensible Cooling Equipment Load Sizing

Structure 18346 Btuh
Ducts (R-6.0) 8074 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 25732 Btuh

Latent Cooling Equipment Load Sizing

Structure 2608 Btuh
Ducts 1655 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 4263 Btuh

Equipment Total Load (Sen+Lat) 29996 Btuh
Req. total capacity at 0.75 SHR 2.9 ton

Cooling Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Cond GH5SAN53600AA0
Coil FJ5ANXB36L00
AHRI ref 214101828

Efficiency 12.0 EER2, 14.5 SEER2
Sensible cooling 26250 Btuh
Latent cooling 8750 Btuh
Total cooling 35000 Btuh
Actual air flow 1167 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.86

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



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Right-Suite® Universal 2025 25.0.01 RSU60609

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531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Entire House					Master				
2	Exposed wall					208.0 ft					58.5 ft				
3	Room height					8.8 ft					8.0 ft				
4	Room dimensions										1.0 x 359.8 ft				
5	Room area					1976.5 ft²					359.8 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	568	552	1843	1526	116	116	387	321	
11	G	2A-2ov	0.330	ne	12.11	19.88	16	0	196	322	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	64	64	115	168	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	364	282	942	780	180	148	493	408	
	G	2A-2ov	0.330	se	12.11	19.98	32	2	392	647	32	2	392	647	
	G	2A-2ov	0.330	se	12.11	10.11	32	32	392	327	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	18	18	391	319	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	32	32	58	84	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	510	444	1482	1227	172	138	461	382	
	G	2A-2ov	0.330	sw	12.11	19.98	49	3	588	970	16	1	196	323	
	D	11J0	0.600	sw	22.02	17.97	18	18	391	319	18	18	391	319	
	W	12C-0sw	0.091	nw	3.34	2.76	186	129	431	357	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	32	0	392	644	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	24	24	344	280	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	211	193	645	265	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	18	18	255	208	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	1982	1982	2328	3390	360	360	422	615	
	F	22A-tpl	0.989	-	36.30	0.00	1976	208	7550	0	360	58	2123	0	
6	c) AED excursion								87				-84		
	Envelope loss/gain							18734	11920			4867	2932		
12	a) Infiltration							4433	1106			1203	300		
	b) Room ventilation							0	0			0	0		
13	Internal gains: Occupants @ 230 Appliances/other					4			920 4400	2			460 900		
	Subtotal (lines 6 to 13)							23167	18346			6070	4592		
14	Less external load							0	0			0	0		
	Less transfer							0	0			0	0		
	Redistribution							0	0			0	0		
	Subtotal							23167	18346			6070	4592		
15	Duct loads					14%	44%	3217	8074	14%	44%	843	2021		
	Total room load							26385	26419			6913	6613		
	Air required (cfm)							0	1167			0	292		

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



Right-J® Worksheet

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Fam/Din					0 ft				
2	Exposed wall					50.5 ft					heat/cool				
3	Room height					10.2 ft					8.0 ft				
4	Room dimensions					1.0 x 670.8 ft					5.0 x 3.5 ft				
5	Room area					670.8 ft²					17.5 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	60	60	200	166	0	0	0	0	
	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	64	64	115	168	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	184	134	449	371	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	32	32	392	327	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	18	18	391	319	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	32	32	58	84	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	130	98	326	270	0	0	0	0	
	G	2A-2ov	0.330	sw	12.11	19.98	32	2	392	647	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	60	36	122	101	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	24	24	344	280	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	135	135	451	185	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	674	674	791	1152	18	18	21	30	
	F	22A-ipl	0.989	-	36.30	0.00	671	50	1833	0	18	0	0	0	

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



Right-Suite® Universal 2025 25.0.01 RSU60609

2026-May-12 08:02:41

...akeLot 2 1970-C-RHG-NW/Lot 2 1970-C-RHG-NW.rup Calc = MJ8 Front Door faces: NW

Page 2

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Bath 2					Bed 3				
2	Exposed wall					6.0 ft					34.0 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					11.0 x 6.0 ft					1.0 x 194.0 ft				
5	Room area					66.0 ft²					194.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	48	48	160	133	116	116	387	321	
11	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	40	40	134	111	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	116	84	279	231	
G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	32	0	392	644		
D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0		
P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0		
D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0		
C	16B-30ad	0.032	-	1.17	1.71	66	66	78	113	194	194	228	332		
F	22A-tpl	0.989	-	36.30	0.00	66	6	218	0	194	34	1234	0		
6	c) AED excursion								-5				179		
	Envelope loss/gain								456	241			2654	1817	
12	a) Infiltration								123	31			699	175	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0		0	0	1		230	300	
	Appliances/other								0	0			0	0	
	Subtotal (lines 6 to 13)								579	271			3354	2522	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								23	33			16	22	
15	Subtotal								602	305			3369	2544	
	Duct loads						14%	44%	84	134	14%	44%	468	1120	
	Total room load								686	439			3837	3663	
	Air required (cfm)								0	19			0	162	

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

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Bed 2					Lau				
2	Exposed wall					15.0 ft					16.0 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					1.0 x 187.8 ft					9.5 x 6.5 ft				
5	Room area					187.8 ft²					61.8 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	120	104	347	287	0	0	0	0	
11	G	2A-2ov	0.330	ne	12.11	19.88	16	0	196	322	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	52	52	174	144	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	76	58	194	80	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	18	18	255	208	
	C	16B-30ad	0.032	-	1.17	1.71	188	188	220	321	62	62	73	106	
	F	22A-tpl	0.989	-	36.30	0.00	188	15	544	0	62	16	581	0	

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

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Kitchen 14.5 ft					Bath 1 13.5 ft				
2	Exposed wall					8.9 ft					8.0 ft				
3	Room height					heat/cool					heat/cool				
4	Room dimensions					9.5 x 14.5 ft					1.0 x 14.2 ft				
5	Room area					137.8 ft²					141.2 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	108	108	361	299	
11	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	116	116	387	321	0	0	0	0	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	9	9	30	25	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	141	141	165	241	141	141	166	242	
	F	22A-tpl	0.989	-	36.30	0.00	138	14	526	0	141	14	490	0	
6	c) AED excursion								-33				-11		
	Envelope loss/gain								1109	553			1017	529	
12	a) Infiltration								321	80			278	69	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0			0	0			0	0
	Appliances/other									1200				0	0
	Subtotal (lines 6 to 13)								1430	1833			1294	599	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								1430	1833			1294	599	
15	Duct loads						14%	44%	199	807		14%	44%	180	263
	Total room load								1629	2640			1474	862	
	Air required (cfm)								0	117			0	38	

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

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Wic 0 ft					TO 0 ft				
2	Exposed wall					8.0 ft					8.0 ft				
3	Room height					1.0					6.0				
4	Room dimensions					72.5 ft					18.0 ft				
5	Room area					72.5 ft²					18.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	0	0	0	0	
11	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	72	72	85	124	18	18	21	31	
	F	22A-tpl	0.989	-	36.30	0.00	72	0	0	0	18	0	0	0	
	6	c) AED excursion								-2				-1	
	Envelope loss/gain								85	122			21	30	
12	a) Infiltration								0	0			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0		0	0		0	0	0	
	Appliances/other								0				0	0	
	Subtotal (lines 6 to 13)								85	122			21	30	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								85	122			21	30	
15	Duct loads						14%	44%	12	54		14%	44%	3	13
	Total room load								97	175			24	44	
	Air required (cfm)								0	8			0	2	

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



Duct System Summary

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes Gainesville
_____ SW Rosemary Drive, Lake City, FL

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.16 in H2O	0.16 in H2O
Available static pressure	0.34 in H2O	0.34 in H2O
Supply / return available pressure	0.170 / 0.170 in H2O	0.170 / 0.170 in H2O
Lowest friction rate	0.258 in/100ft	0.258 in/100ft
Actual air flow	0 cfm	1167 cfm
Total effective length (TEL)	132 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 1	c 862	0	38	0.269	5.0	0x0	VIFx	26.2	100.0	st2
Bath 2	c 439	0	19	0.288	4.0	0x0	VIFx	18.0	100.0	st1
Bed 2	c 2213	0	98	0.281	6.0	0x0	VIFx	20.9	100.0	st2
Bed 3	c 3663	0	162	0.270	7.0	0x0	VIFx	26.1	100.0	st1
Fam/Din-E	c 2752	0	122	0.297	6.0	0x0	VIFx	14.3	100.0	st1
Fam/Din-F	c 2752	0	122	0.262	6.0	0x0	VIFx	29.6	100.0	st1
Fam/Din-G	c 2752	0	122	0.287	6.0	0x0	VIFx	18.7	100.0	st1
Kitchen-A	c 2640	0	117	0.258	6.0	0x0	VIFx	31.9	100.0	st1
Lau-A	c 1514	0	67	0.263	5.0	0x0	VIFx	29.3	100.0	st1
Master	c 3307	0	146	0.263	7.0	0x0	VIFx	29.4	100.0	st2
Master-B	c 3307	0	146	0.259	7.0	0x0	VIFx	31.1	100.0	st2
TO-A	c 44	0	2	0.278	4.0	0x0	VIFx	22.4	100.0	st2
Wic-A	c 175	0	8	0.275	4.0	0x0	VIFx	23.5	100.0	st2

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	0	729	0.258	682	14.0	0 x 0	VinIFlx	
st2	Peak AVF	0	438	0.259	557	12.0	0 x 0	VinIFlx	





Manual S Compliance Report

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes Gainesville
_____ SW Rosemary Drive, Lake City, FL

Cooling Equipment

Design Conditions

Outdoor design DB:	92.4°F	Sensible gain:	26419	Btuh	Entering coil DB:	78.1°F
Outdoor design WB:	75.8°F	Latent gain:	4263	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	30683	Btuh		
Indoor RH:	50%	Estimated airflow:	1167	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Carrier	Model:	GH5SAN53600AA0+FJ5ANXB36L00
Actual airflow:	1167	cfm	
Sensible capacity:	29070	Btuh	110% of load
Latent capacity:	5229	Btuh	123% of load
Total capacity:	34298	Btuh	112% of load SHR: 85%

Heating Equipment

Design Conditions

Outdoor design DB:	33.3°F	Heat loss:	26385	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Carrier	Model:	GH5SAN53600AA0+FJ5ANXB36L00
Actual airflow:	0	cfm	
Output capacity:	35600	Btuh	135% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	27	°F	
Economic balance:	-99	°F	

Backup equipment type:	Elec strip		
Manufacturer:		Model:	
Actual airflow:	0	cfm	
Output capacity:	0	kW	0% of load Temp. rise: 0 °F

Meets all requirements of ACCA Manual S.



Right-Suite® Universal 2025 25.0.01 RSU60609

...ake\Lot 2 1970-C-RHG-NW\Lot 2 1970-C-RHG-NW.rup Calc = MJ8 Front Door faces: NW

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Project Summary

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes Gainesville
_____ SW Rosemary Drive, Lake City, FL

Notes: LS 05/12/26 GAA

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

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

Ventilation Method MJ8

Heating Summary

Structure 23167 Btuh
Ducts (R-6.0) 3217 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 26385 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	1955	1955
Volume (ft³)	17415	17415
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	110	58

Heating Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Model GH5SAN53600AA0
AHRI ref 214101828

Efficiency 7.5 HSPF2
Heating input
Heating output 35600 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 27 °F

Backup:
Input = 0 kW, Output = 0 Btuh, 100 AFUE

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

Sensible Cooling Equipment Load Sizing

Structure 18346 Btuh
Ducts (R-6.0) 8074 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 25732 Btuh

Latent Cooling Equipment Load Sizing

Structure 2608 Btuh
Ducts 1655 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 4263 Btuh

Equipment Total Load (Sen+Lat) 29996 Btuh
Req. total capacity at 0.75 SHR 2.9 ton

Cooling Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Cond GH5SAN53600AA0
Coil FJ5ANXB36L00
AHRI ref 214101828

Efficiency 12.0 EER2, 14.5 SEER2
Sensible cooling 26250 Btuh
Latent cooling 8750 Btuh
Total cooling 35000 Btuh
Actual air flow 1167 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.86

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



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Right-Suite® Universal 2025 25.0.01 RSU60609

...akeLot 2 1970-C-RHG-NW\Lot 2 1970-C-RHG-NW.rup Calc = MJ8 Front Door faces: NW

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531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name						Entire House				Master			
2	Exposed wall						8.8 ft				58.5 ft			
3	Room height						1976.5 ft²				8.0 ft			
4	Room dimensions										1.0 x 359.8 ft			
5	Room area										359.8 ft²			
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.34	2.76	568	552	1843	1526	116	116	387	321
	G	2A-2ov	0.330	ne	12.11	19.88	16	0	196	322	0	0	0	0
	W	16B-19ad	0.049	ne	1.80	2.62	64	64	115	168	0	0	0	0
11	W	12C-0sw	0.091	se	3.34	2.76	364	282	942	780	180	148	493	408
	G	2A-2ov	0.330	se	12.11	19.98	32	2	392	647	32	2	392	647
	G	2A-2ov	0.330	se	12.11	10.11	32	32	392	327	0	0	0	0
	D	11J0	0.600	se	22.02	17.97	18	18	391	319	0	0	0	0
	W	16B-19ad	0.049	se	1.80	2.62	32	32	58	84	0	0	0	0
	W	12C-0sw	0.091	sw	3.34	2.76	510	444	1482	1227	172	138	461	382
	G	2A-2ov	0.330	sw	12.11	19.98	49	3	588	970	16	1	196	323
	D	11J0	0.600	sw	22.02	17.97	18	18	391	319	18	18	391	319
	W	12C-0sw	0.091	nw	3.34	2.76	186	129	431	357	0	0	0	0
	G	2A-2ov	0.330	nw	12.11	19.88	32	0	392	644	0	0	0	0
	D	11D0	0.390	nw	14.31	11.68	24	24	344	280	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	211	193	645	265	0	0	0	0
	D	11D0	0.390	n	14.31	11.68	18	18	255	208	0	0	0	0
	C	16B-30ad	0.032	-	1.17	1.71	1982	1982	2328	3390	360	360	422	615
	F	22A-ipl	0.989	-	36.30	0.00	1976	208	7550	0	360	58	2123	0
6	c) AED excursion									87				-84
	Envelope loss/gain								18734	11920			4867	2932
12	a) Infiltration								4433	1106			1203	300
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230 Appliances/other						4			920 4400	2			460 900
	Subtotal (lines 6 to 13)								23167	18346			6070	4592
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								23167	18346			6070	4592
15	Duct loads						14%	44%	3217	8074	14%	44%	843	2021
	Total room load								26385	26419			6913	6613
	Air required (cfm)								0	1167			0	292

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



Right-J® Worksheet

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Fam/Din					0 ft				
2	Exposed wall					50.5 ft					heat/cool				
3	Room height					10.2 ft					8.0 ft				
4	Room dimensions					1.0 x 670.8 ft					5.0 x 3.5 ft				
5	Room area					670.8 ft²					17.5 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6 . . . 11	W	12C-0sw	0.091	ne	3.34	2.76	60	60	200	166	0	0	0	0	
	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	64	64	115	168	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	184	134	449	371	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	32	32	392	327	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	18	18	391	319	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	32	32	58	84	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	130	98	326	270	0	0	0	0	
	G	2A-2ov	0.330	sw	12.11	19.98	32	2	392	647	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	60	36	122	101	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	24	24	344	280	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	135	135	451	185	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	674	674	791	1152	18	18	21	30	
	F	22A-ipl	0.989	-	36.30	0.00	671	50	1833	0	18	0	0	0	

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



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531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Bath 2					Bed 3				
2	Exposed wall					6.0 ft					34.0 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					11.0 x 6.0 ft					1.0 x 194.0 ft				
5	Room area					66.0 ft²					194.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	48	48	160	133	116	116	387	321	
11	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	40	40	134	111	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	116	84	279	231	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	32	0	392	644	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	66	66	78	113	194	194	228	332	
	F	22A-tpl	0.989	-	36.30	0.00	66	6	218	0	194	34	1234	0	
6	c) AED excursion								-5				179		
	Envelope loss/gain							456	241			2654	1817		
12	a) Infiltration							123	31			699	175		
	b) Room ventilation							0	0			0	0		
13	Internal gains: Occupants @ 230						0		0	1			230		
	Appliances/other								0				300		
	Subtotal (lines 6 to 13)							579	271			3354	2522		
14	Less external load							0	0			0	0		
	Less transfer							0	0			0	0		
	Redistribution							23	33			16	22		
15	Subtotal							602	305			3369	2544		
	Duct loads						14% 44%	84	134	14% 44%		468	1120		
	Total room load							686	439			3837	3663		
	Air required (cfm)							0	19			0	162		

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

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1	Room name					Bed 2					Lau				
2	Exposed wall					15.0 ft					16.0 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					1.0 x 187.8 ft					9.5 x 6.5 ft				
5	Room area					187.8 ft²					61.8 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	120	104	347	287	0	0	0	0	
11	G	2A-2ov	0.330	ne	12.11	19.88	16	0	196	322	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	52	52	174	144	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	76	58	194	80	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	18	18	255	208	
	C	16B-30ad	0.032	-	1.17	1.71	188	188	220	321	62	62	73	106	
	F	22A-tpl	0.989	-	36.30	0.00	188	15	544	0	62	16	581	0	

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1	Room name					Kitchen 14.5 ft					Bath 1 13.5 ft				
2	Exposed wall					8.9 ft					8.0 ft				
3	Room height					heat/cool					heat/cool				
4	Room dimensions					9.5 x 14.5 ft					1.0 x 14.2 ft				
5	Room area					137.8 ft²					141.2 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	108	108	361	299	
11	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	116	116	387	321	0	0	0	0	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	9	9	30	25	0	0	0	0	
P	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	D	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0	
C	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	141	141	165	241	141	141	166	242	
F	D	22A-tpl	0.989	-	36.30	0.00	138	14	526	0	141	14	490	0	
6	c) AED excursion									-33				-11	
	Envelope loss/gain								1109	553			1017	529	
12	a) Infiltration								321	80			278	69	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0			0	0			0	0
	Appliances/other									1200				0	0
	Subtotal (lines 6 to 13)								1430	1833			1294	599	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								1430	1833			1294	599	
15	Duct loads						14%	44%	199	807		14%	44%	180	263
	Total room load								1629	2640			1474	862	
	Air required (cfm)								0	117			0	38	

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

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Wic 0 ft					TO 0 ft				
2	Exposed wall					8.0 ft					8.0 ft				
3	Room height					1.0					6.0				
4	Room dimensions					72.5 ft					18.0 ft				
5	Room area					72.5 ft²					18.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	0	0	0	0	
11	G	2A-2ov	0.330	ne	12.11	19.88	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	ne	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	19.98	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	se	12.11	10.11	0	0	0	0	0	0	0	0	
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	se	1.80	2.62	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	sw	12.11	19.98	0	0	0	0	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.330	nw	12.11	19.88	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.31	11.68	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	72	72	85	124	18	18	21	31	
	F	22A-tpl	0.989	-	36.30	0.00	72	0	0	0	18	0	0	0	
6	c) AED excursion								-2				-1		
	Envelope loss/gain								85	122			21	30	
12	a) Infiltration								0	0			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0		0	0	0		0	0	
	Appliances/other								0				0	0	
	Subtotal (lines 6 to 13)								85	122			21	30	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								85	122			21	30	
15	Duct loads						14%	44%	12	54	14%	44%	3	13	
	Total room load								97	175			24	44	
	Air required (cfm)								0	8			0	2	

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



Duct System Summary

Entire House

Strada Services

Job: Lot 2 1970-C-RHG-NW
Date: 03/10/2022
By: RS
Plan: 1970

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes Gainesville
_____ SW Rosemary Drive, Lake City, FL

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0.16 in H ₂ O	0.16 in H ₂ O
Available static pressure	0.34 in H ₂ O	0.34 in H ₂ O
Supply / return available pressure	0.170 / 0.170 in H ₂ O	0.170 / 0.170 in H ₂ O
Lowest friction rate	0.258 in/100ft	0.258 in/100ft
Actual air flow	0 cfm	1167 cfm
Total effective length (TEL)	132 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 1	c 862	0	38	0.269	5.0	0x0	VIFx	26.2	100.0	st2
Bath 2	c 439	0	19	0.288	4.0	0x0	VIFx	18.0	100.0	st1
Bed 2	c 2213	0	98	0.281	6.0	0x0	VIFx	20.9	100.0	st2
Bed 3	c 3663	0	162	0.270	7.0	0x0	VIFx	26.1	100.0	st1
Fam/Din-E	c 2752	0	122	0.297	6.0	0x0	VIFx	14.3	100.0	st1
Fam/Din-F	c 2752	0	122	0.262	6.0	0x0	VIFx	29.6	100.0	st1
Fam/Din-G	c 2752	0	122	0.287	6.0	0x0	VIFx	18.7	100.0	st1
Kitchen-A	c 2640	0	117	0.258	6.0	0x0	VIFx	31.9	100.0	st1
Lau-A	c 1514	0	67	0.263	5.0	0x0	VIFx	29.3	100.0	st1
Master	c 3307	0	146	0.263	7.0	0x0	VIFx	29.4	100.0	st2
Master-B	c 3307	0	146	0.259	7.0	0x0	VIFx	31.1	100.0	st2
TO-A	c 44	0	2	0.278	4.0	0x0	VIFx	22.4	100.0	st2
Wic-A	c 175	0	8	0.275	4.0	0x0	VIFx	23.5	100.0	st2

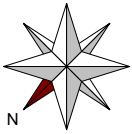
Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	0	729	0.258	682	14.0	0 x 0	VinIFlx	
st2	Peak AVF	0	438	0.259	557	12.0	0 x 0	VinIFlx	



Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	0	1167	0	0	0	0	0x 0		VIFx	



Sheet 1

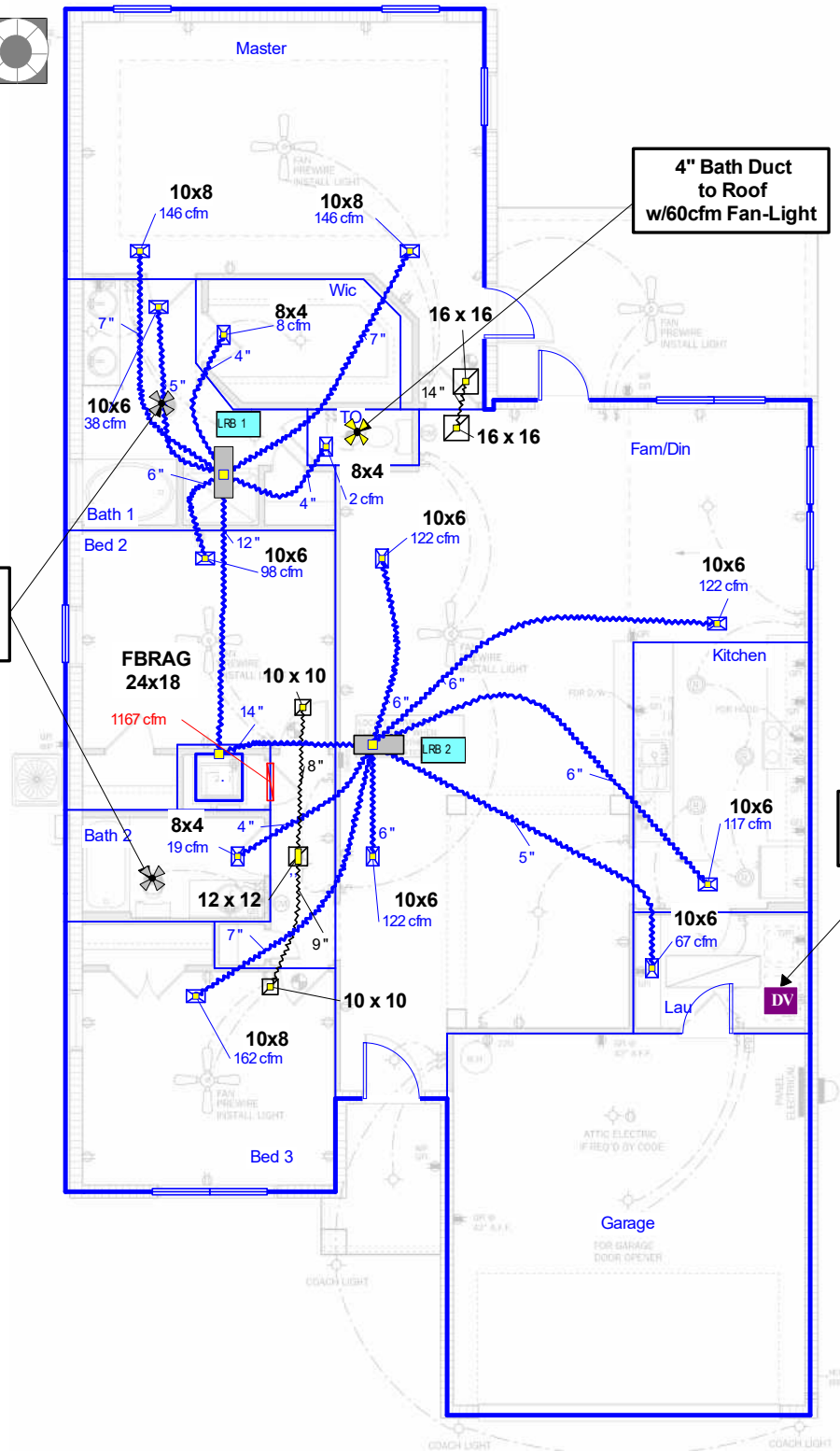
3.0 Ton
14.5 SEER2



4" Bath Duct
to Roof
w/60cfm Fan

4" Bath Duct
to Roof
w/60cfm Fan-Light

4" Dryer Vent
to Roof



Job #: Lot 2 1970-C-RHG-NW
Performed by RS for:
Adams Homes Gainesville
SW Rosemary Drive
Lake City, FL

Strada Services

531 Codisco Way
Sanford, FL 32771
License: CAC043953

Scale: 1 : 116

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