



Manual S Compliance Report

Entire House

Strada Services

Job: Lot 13 2169 CR RHG-SW
Date: 4/2/2026
By: MAC
Plan: 2169

531 Codisco Way, Sanford, FL 32771 License: CAC043953

Project Information

For: Adams Homes
149 SW Bellflower Dr, Lake City, FL 32024

Cooling Equipment

Design Conditions

Outdoor design DB:	92.4°F	Sensible gain:	32846	Btuh	Entering coil DB:	79.3°F
Outdoor design WB:	75.8°F	Latent gain:	4209	Btuh	Entering coil WB:	64.3°F
Indoor design DB:	75.0°F	Total gain:	37055	Btuh		
Indoor RH:	50%	Estimated airflow:	1367	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Carrier	Model:	GH5SAN54200AA0+FJ5ANXC42L00
Actual airflow:	1367	cfm	
Sensible capacity:	35304	Btuh	107% of load
Latent capacity:	5003	Btuh	119% of load
Total capacity:	40308	Btuh	109% of load SHR: 88%

Heating Equipment

Design Conditions

Outdoor design DB:	33.3°F	Heat loss:	36133	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:	GH5SAN54200AA0+FJ5ANXC42L00
Actual airflow:	0	cfm	
Output capacity:	39500	Btuh	109% of load
Supplemental heat required:	0	Btuh	
			Capacity balance: 32 °F
			Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:	n/a	Model:	n/a+n/a
Actual airflow:	0	cfm	
Output capacity:	8.9	kW	84% of load Temp. rise: 20 °F

Meets all requirements of ACCA Manual S.



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...Lot 13 2169 CR RHG-SW Lot 13 2169 CR RHG-SW.rup Calc = MJ8 Front Door faces: NW

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Project Summary

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149 SW Bellflower Dr, Lake City, FL 32024

Notes: LS 08/06/2026 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 26985 Btuh
Ducts (R-6.0) 9148 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 36133 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	2151	2151
Volume (ft³)	19328	19328
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	103	52

Heating Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Model GH5SAN54200AA0
AHRI ref 214101864

Efficiency 7.5 HSPF2
Heating input
Heating output 39500 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 32 °F

Backup: n/a n/a
Input = 9 kW, Output = 30528 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 19586 Btuh
Ducts (R-6.0) 13260 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 31992 Btuh

Latent Cooling Equipment Load Sizing

Structure 2317 Btuh
Ducts 1892 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 4209 Btuh

Equipment Total Load (Sen+Lat) 36201 Btuh
Req. total capacity at 0.75 SHR 3.6 ton

Cooling Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Cond GH5SAN54200AA0
Coil FJ5ANXC42L00
AHRI ref 214101864

Efficiency 12.0 EER2, 14.5 SEER2
Sensible cooling 30750 Btuh
Latent cooling 10250 Btuh
Total cooling 41000 Btuh
Actual air flow 1367 cfm
Air flow factor 0.042 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.89

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



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Right-J® Worksheet

Entire House

Strada Services

Job: Lot 13 2169 CR RHG-SW
Date: 4/2/2026
By: MAC
Plan: 2169

531 Codisco Way, Sanford, FL 32771 License: CAC043953

1	Room name					Entire House					MBRM				
2	Exposed wall					234.0 ft					41.0 ft				
3	Room height					8.9 ft					8.0 ft				
4	Room dimensions					d					1.0 x 269.8 ft				
5	Room area					2161.2 ft²					269.8 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	364	346	1156	957	112	112	374	310	
11	G	10D-v	0.340	ne	12.48	13.96	18	0	223	249	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	526	361	1206	998	156	123	412	341	
	G	10D-v	0.340	se	12.48	6.84	18	18	223	122	0	0	0	0	
	G	4A5-2ov	0.340	se	12.48	20.18	65	4	816	1319	33	2	408	659	
	G	4A5-2ov	0.340	se	12.48	9.78	82	82	1020	799	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	464	430	1435	1188	60	42	141	116	
	G	10D-v	0.340	sw	12.48	6.84	18	18	223	122	18	18	223	122	
	G	4A5-2ov	0.340	sw	12.48	20.18	16	1	204	330	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	370	250	836	692	0	0	0	0	
	G	4A5-2ov	0.340	nw	12.48	19.94	16	0	204	326	0	0	0	0	
	G	4A5-2ov	0.340	nw	12.48	19.94	32	0	397	634	0	0	0	0	
	G	4A5-2ov	0.340	nw	12.48	19.94	33	0	408	652	0	0	0	0	
	G	4B5-2fv	0.340	nw	12.48	19.94	12	0	154	246	0	0	0	0	
	G	4B5-2fv	0.340	nw	12.48	21.56	7	0	83	144	0	0	0	0	
	D	11J0	0.600	nw	22.02	17.97	20	20	440	359	0	0	0	0	
	R	12C-0sw	0.091	-	3.34	1.37	284	266	889	365	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	18	18	254	208	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	2161	2161	2538	3697	270	270	317	461	
	F	22A-qpm	1.180	-	43.31	0.00	2161	234	10134	0	270	41	1776	0	

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



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1	Room name					FAMILY					KIT				
2	Exposed wall					23.5 ft					1.5 ft				
3	Room height					10.0 ft					10.0 ft				
4	Room dimensions					1.0 x 482.2 ft					11.0 x 13.0 ft				
5	Room area					482.2 ft²					143.0 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	10D-v	0.340	ne	12.48	13.96	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	175	108	361	299	0	0	0	0	
	G	10D-v	0.340	se	12.48	6.84	18	18	223	122	0	0	0	0	
	G	4A5-2ov	0.340	se	12.48	20.18	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.340	se	12.48	9.78	49	49	612	479	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	10D-v	0.340	sw	12.48	6.84	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.340	sw	12.48	20.18	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	60	33	111	92	0	0	0	0	
	G	4A5-2ov	0.340	nw	12.48	19.94	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.340	nw	12.48	19.94	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.340	nw	12.48	19.94	0	0	0	0	0	0	0	0	
	G	4B5-2fv	0.340	nw	12.48	19.94	0	0	0	0	0	0	0	0	
	G	4B5-2fv	0.340	nw	12.48	21.56	7	0	83	144	0	0	0	0	
	D	11J0	0.600	nw	22.02	17.97	20	20	440	359	0	0	0	0	
	R	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	15	15	50	21	
	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	482	482	566	825	143	143	168	245	
	F	22A-qpm	1.180	-	43.31	0.00	482	24	1018	0	143	2	65	0	
											</				

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Duct System Summary

Entire House

Strada Services

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By: MAC
Plan: 2169

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Project Information

For: Adams Homes
149 SW Bellflower Dr, Lake City, FL 32024

	Heating	Cooling
External static pressure	0 in H2O	0.50 in H2O
Pressure losses	0.16 in H2O	0.16 in H2O
Available static pressure	-0.2 in H2O	0.34 in H2O
Supply / return available pressure	-0.080 / -0.080 in H2O	0.170 / 0.170 in H2O
Lowest friction rate	-0.09 in/100ft	0.198 in/100ft
Actual air flow	0 cfm	1367 cfm
Total effective length (TEL)	171 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
BRM2	c 3114	0	130	0.294	6.0	0x0	VIFx	15.5	100.0	st1
BRM3	c 2199	0	92	0.285	6.0	0x0	VIFx	19.3	100.0	st1
BTH2	c 548	0	23	0.308	4.0	0x0	VIFx	10.5	100.0	st1
DIN	c 2862	0	119	0.254	6.0	0x0	VIFx	34.0	100.0	st3
FAMILY	c 2624	0	109	0.249	7.0	0x0	VIFx	36.7	100.0	st3
FAMILY-A	c 2624	0	109	0.262	7.0	0x0	VIFx	30.0	100.0	st3
KIT	c 2284	0	95	0.260	6.0	0x0	VIFx	30.7	100.0	st3
LAUN	c 1376	0	57	0.221	5.0	0x0	VIFx	54.0	100.0	st2
LIV	c 3029	0	126	0.253	6.0	0x0	VIFx	34.5	100.0	st3
MBRM	c 2729	0	114	0.208	6.0	0x0	VIFx	58.2	105.0	st2
MBRM-A	c 2729	0	114	0.198	6.0	0x0	VIFx	61.5	110.0	st2
MBTH	c 656	0	27	0.210	4.0	0x0	VIFx	56.7	105.0	st2
MWIC1	c 311	0	13	0.208	4.0	0x0	VIFx	58.3	105.0	st2
MWIC2	c 385	0	16	0.204	4.0	0x0	VIFx	61.5	105.0	st2
NOOK	c 1191	0	50	0.239	6.0	0x0	VIFx	42.2	100.0	st3
SUNROOM	c 3950	0	164	0.267	7.0	0x0	VIFx	27.3	100.0	st1
WIC3	c 237	0	10	0.302	4.0	0x0	VIFx	12.7	100.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st2	Peak AVF	0	341	0.198	625	10.0	0 x 0	VinIFlx	
st3	Peak AVF	0	608	0.239	569	14.0	0 x 0	VinIFlx	
st1	Peak AVF	0	418	0.267	532	12.0	0 x 0	VinIFlx	



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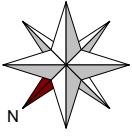
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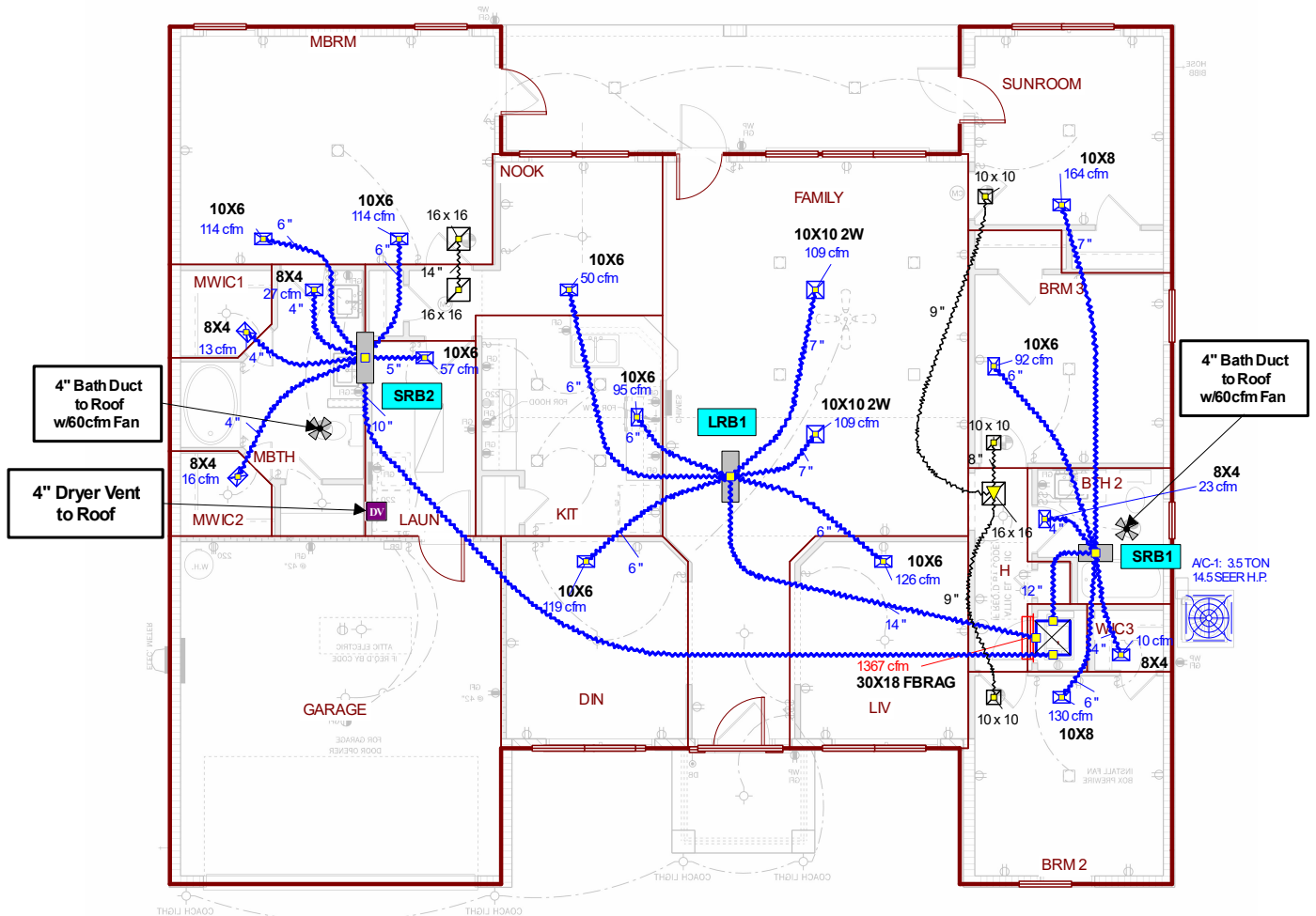
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Return Branch Detail Table

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	1367	0	0	0	0	0x 0		VIFx	



Level 1



Job #: Lot 13 2169 CR RHG-SW
Performed by MAC for:
Adams Homes
149 SW Bellflower Dr
Lake City, FL 32024

Strada Services

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Sanford, FL 32771
License: CAC043953

Scale: 1 : 128

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