



Manual S Compliance Report

Entire House

Strada Services



Job: Lot 37 2117-RHG-NW
Date: 03/30/2022
By: RS
Plan: 2117

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 Web: StradaServices.com License: CAC043953

Project Information

For: Lot 37 Preserve @ Laurel Lake, Adams Homes
569 Bellflower Dr, Lake City, FL 32024

Cooling Equipment

Design Conditions

Outdoor design DB:	92.4°F	Sensible gain:	26940	Btuh	Entering coil DB:	78.3°F
Outdoor design WB:	75.8°F	Latent gain:	4089	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	31028	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:	29235	Btuh	109% of load
Latent capacity:	5063	Btuh	124% of load
Total capacity:	34298	Btuh	111% of load SHR: 85%

Heating Equipment

Design Conditions

Outdoor design DB:	33.3°F	Heat loss:	25725	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	138% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	26	°F	
Economic balance:	-99	°F	

Backup equipment type:	Elec strip		
Manufacturer:		Model:	
Actual airflow:	0	cfm	
Output capacity:	7.4	kW	99% of load Temp. rise: 20 °F

Meets all requirements of ACCA Manual S.



Right-Suite® Universal 2025 25.0.01 RSU57803

...JLake\Lot 37 2117-RHG-NW\Lot 37 2117-RHG-NW.rup Calc = MJ8 Front Door faces: NW

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Project Summary

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Project Information

For: Lot 37 Preserve @ Laurel Lake, Adams Homes
569 Bellflower Dr, Lake City, FL 32024

Notes: LS 8-18-25 MAC

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 22334 Btuh
Ducts (R-6.0) 3391 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 25725 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	2115	2115
Volume (ft³)	17268	17268
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	92	46

Heating Equipment Summary

Make Carrier
Trade 15 SEER2 HP
Model GH5SAN53600AA0
AHRI ref 214101828

Efficiency 7.5 HSPF2
Heating input 35600 Btuh @ 47°F
Heating output 0 °F
Temperature rise 0 cfm
Actual air flow 0 cfm/Btuh
Air flow factor 0.50 in H2O
Static pressure
Space thermostat
Capacity balance point = 26 °F

Backup:
Input = 7 kW, Output = 25354 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 18447 Btuh
Ducts (R-6.0) 8493 Btuh
Central vent (0 cfm) 0 Btuh
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 26239 Btuh

Latent Cooling Equipment Load Sizing

Structure 2355 Btuh
Ducts 1734 Btuh
Central vent (0 cfm) 0 Btuh
Equipment latent load 4089 Btuh
Equipment Total Load (Sen+Lat) 30328 Btuh
Req. total capacity at 0.80 SHR 2.7 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 28000 Btuh
Latent cooling 7000 Btuh
Total cooling 35000 Btuh
Actual air flow 1167 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.87

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



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Right-Suite® Universal 2025 25.0.01 RSU57803

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1	Room name					Entire House				M Bed				
2	Exposed wall					211.0 ft				31.5 ft				
3	Room height					8.0 ft				8.0 ft				
4	Room dimensions					2158.5 ft²				13.5 x 18.0 ft				
5	Room area					2158.5 ft²				243.0 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	404	382	1275	1055	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	6	0	75	165	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	16	0	204	379	0	0	0	0
11	W	12C-0sw	0.091	se	3.34	2.76	440	315	1053	871	108	76	254	211
	G	2A-2ov	0.340	se	12.48	27.24	15	1	193	421	15	1	193	421
	G	2A-2ov	0.340	se	12.48	27.24	16	1	204	445	16	1	204	445
	G	2A-2ov	0.340	se	12.48	22.48	10	1	123	222	0	0	0	0
	G	2A-2ov	0.340	se	12.48	23.21	33	3	408	759	0	0	0	0
	G	2A-2ov	0.340	se	12.48	10.67	33	33	408	349	0	0	0	0
	D	11J0	0.600	se	22.02	17.97	18	18	391	319	0	0	0	0
	W	12C-0sw	0.091	sw	3.34	2.76	344	322	1074	889	144	128	426	353
	G	2A-2ov	0.340	sw	12.48	26.24	6	1	75	157	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	27.24	16	1	204	445	16	1	204	445
	W	12C-0sw	0.091	nw	3.34	2.76	276	204	681	564	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	15	0	193	358	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	33	0	408	757	0	0	0	0
	D	11J0	0.600	nw	22.02	17.97	24	24	528	431	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	224	206	689	282	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	2158	2158	2535	3692	243	243	285	416
	F	22A-tpl	0.989	-	36.30	0.00	2158	211	7659	0	243	32	1143	0

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



Right-J® Worksheet

Entire House

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1	Room name					M Bth					Bed 2				
2	Exposed wall					25.0 ft					28.5 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					1.0 x 129.4 ft					15.5 x 13.0 ft				
5	Room area					129.4 ft²					201.5 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	0	0	0	0	104	104	347	288	
11	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	124	108	360	298	
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	22.48	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	23.21	0	0	0	0	16	1	204	379	
	G	2A-2ov	0.340	se	12.48	10.67	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	12C-0sw	0.091	sw	3.34	2.76	120	114	381	315	0	0	0	0	
	G	2A-2ov	0.340	sw	12.48	26.24	6	1	75	157	0	0	0	0	
	G	2A-2ov	0.340	sw	12.48	27.24	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	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	
	D	11J0	0.600	nw	22.02	17.97	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	-	3.34	1.37	80	80	267	110	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	129	129	152	221	202	202	237	345	
F	22A-tpl	0.989	-	-	36.30	0.00	129	25	907	0	202	28	1034	0	
6	c)AED excursion								17				88		
	Envelope loss/gain								1782	821			2182	1397	
12	a) Infiltration								303	72			576	137	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230 Appliances/other						0		0	0	1			230	150
	Subtotal (lines 6 to 13)								2086	893			2758	1914	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			3	4	
14	Subtotal								2086	893			2762	1918	
15	Duct loads						15%	46%	317	411	15%	46%	419	883	
	Total room load								2402	1303			3181	2801	
	Air required (cfm)								0	56			0	121	

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



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1	Room name						Bed 3 12.5 ft 8.0 ft 1.0 x 145.5 ft heat/cool 145.5 ft²				Bed 4 21.5 ft 8.0 ft 1.0 x 153.5 ft heat/cool 153.5 ft²			
2	Exposed wall													
3	Room height													
4	Room dimensions													
5	Room area													
	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	100	84	279	231	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	16	0	204	379	0	0	0	0
11	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	22.48	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	23.21	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	10.67	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	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	80	80	267	221
	G	2A-2ov	0.340	sw	12.48	26.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	27.24	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	92	77	256	212
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	15	0	193	358
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	D	11J0	0.600	nw	22.02	17.97	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	146	146	171	249	154	154	180	263
	F	22A-pl	0.989	-	36.30	0.00	146	12	454	0	154	22	780	0
6	c) AED excursion									-11				99
	Envelope loss/gain								1108	848			1676	1152
12	a) Infiltration								253	60			435	103
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230 Appliances/other						1			230 150	1			230 150
	Subtotal (lines 6 to 13)								1361	1288			2111	1636
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1361	1288			2111	1636
15	Duct loads						15%	46%	207	593	15%	46%	321	753
	Total room load								1567	1880			2432	2388
	Air required (cfm)								0	81			0	103

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

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1	Room name						Laundry				M WIC			
2	Exposed wall						8.0 ft				8.0 ft			
3	Room height						6.5 ft				0 ft			
4	Room dimensions						heat/cool				heat/cool			
5	Room area						58.5 ft²				46.9 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
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	22.48	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	23.21	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	10.67	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	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	26.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	27.24	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	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	D	11J0	0.600	nw	22.02	17.97	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	52	34	114	47	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	58	58	69	100	47	47	55	80
	F	22A-pl	0.989	-	36.30	0.00	58	6	236	0	47	0	0	0
6	c) AED excursion									-52				-5
	Envelope loss/gain								673	303			55	75
12	a) Infiltration								0	0			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230 Appliances/other						0			0	0			0
	Subtotal (lines 6 to 13)								673	803			55	75
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								673	803			55	75
15	Duct loads						15%	46%	102	370	15%	46%	8	35
	Total room load								776	1172			63	110
	Air required (cfm)								0	51			0	5

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1	Room name						Bth 3				Great Room			
2	Exposed wall						8.0 ft				32.0 ft			
3	Room height						5.5 ft				8.0 ft			
4	Room dimensions						heat/cool				heat/cool			
5	Room area						49.5 ft²				811.5 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	44	44	147	122	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	208	131	439	363
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	22.48	0	0	0	0	10	1	123	222
	G	2A-2ov	0.340	se	12.48	23.21	0	0	0	0	16	1	204	379
	G	2A-2ov	0.340	se	12.48	10.67	0	0	0	0	33	33	408	349
	D	11J0	0.600	se	22.02	17.97	0	0	0	0	18	18	391	319
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	26.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	27.24	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	48	24	80	66
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	D	11J0	0.600	nw	22.02	17.97	0	0	0	0	24	24	528	431
	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	50	50	58	85	812	812	953	1388
	F	22A-pl	0.989	-	36.30	0.00	50	6	200	0	812	32	1161	0
6	c) AED excursion									-14				-165
	Envelope loss/gain								405	192			4288	3353
12	a) Infiltration								111	26			647	153
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230						0			0	0			0
	Appliances/other									0				2100
	Subtotal (lines 6 to 13)								516	219			4935	5606
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			16	22
14	Subtotal								516	219			4951	5629
15	Duct loads						15%	46%	78	101	15%	46%	752	2591
	Total room load								594	319			5703	8220
	Air required (cfm)								0	14			0	356

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

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1	Room name					Dining					0 ft				
2	Exposed wall					8.0 ft					8.0 ft				
3	Room height					23.0 ft					1.0 ft				
4	Room dimensions					heat/cool					heat/cool				
5	Room area					183.5 ft²					16.5 ft²				
	Ty	Construction number	U-value (Btu/h/ft²·°F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)		
					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	32	32	107	88	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	22.48	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	23.21	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	10.67	0	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	0
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	26.24	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	27.24	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.34	2.76	88	55	185	153	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	33	0	408	757	0	0	0	0	0
	D	11J0	0.600	nw	22.02	17.97	0	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	64	64	214	88	0	0	0	0	0
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.17	1.71	184	184	216	314	16	16	19	28	0
	F	22A-pl	0.989	-	36.30	0.00	184	23	835	0	16	0	0	0	0
6	c) AED excursion									317				-2	
	Envelope loss/gain								1963	1717			19	27	
12	a) Infiltration								303	72			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0			0	0			0	0
	Appliances/other									0				0	0
	Subtotal (lines 6 to 13)								2267	1789			19	27	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			-19	-27	
14	Subtotal								2267	1789			0	0	
15	Duct loads						15%	46%	344	824	15%	46%	0	0	
	Total room load								2611	2613			0	0	
	Air required (cfm)								0	113			0	0	

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1	Room name					M WC					Bth 2				
2	Exposed wall					8.0 ft					10.5 ft				
3	Room height					3.5 ft					6.0 ft				
4	Room dimensions					26.2 ft²					63.0 ft²				
5	Room area					heat/cool					heat/cool				
	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	84	78	260	216	
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	6	0	75	165	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	22.48	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	23.21	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	10.67	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	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	sw	12.48	26.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	sw	12.48	27.24	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	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	
	D	11J0	0.600	nw	22.02	17.97	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	28	28	94	38	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	26	26	31	45	63	63	74	108	
	F	22A-pl	0.989	-	36.30	0.00	26	4	127	0	63	10	381	0	
6	c) AED excursion									-5				-33	
	Envelope loss/gain								251	78			790	455	
12	a) Infiltration								0	0			212	50	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230 Appliances/other						0			0	0			0	
	Subtotal (lines 6 to 13)								251	78			1003	506	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								251	78			1003	506	
15	Duct loads						15%	46%	38	36	15%	46%	152	233	
	Total room load								290	114			1155	739	
	Air required (cfm)								0	5			0	32	

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



Duct System Summary

Entire House

Strada Services

Job: Lot 37 2117-RHG-NW
Date: 03/30/2022
By: RS
Plan: 2117

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Project Information

For: Lot 37 Preserve @ Laurel Lake, Adams Homes
569 Bellflower Dr, Lake City, FL 32024

	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	0.221 in/100ft	0.221 in/100ft
Actual air flow	0 cfm	1167 cfm
Total effective length (TEL)	154 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
Bed 2	c 2801	0	121	0.258	6.0	0x0	VIFx	21.7	110.0	st2
Bed 3	c 1880	0	81	0.270	6.0	0x0	VIFx	15.8	110.0	st2
Bed 4	c 2388	0	103	0.246	6.0	0x0	VIFx	23.2	115.0	st2
Bed 4 WIC	c 476	0	21	0.223	4.0	0x0	VIFx	32.8	120.0	st2
Bth 2	c 739	0	32	0.235	4.0	0x0	VIFx	24.7	120.0	st2
Bth 3	c 319	0	14	0.269	4.0	0x0	VIFx	16.4	110.0	st2
Dining	c 2613	0	113	0.223	6.0	0x0	VIFx	37.4	115.0	st1
Great Room	c 2055	0	89	0.252	6.0	0x0	VIFx	20.0	115.0	st2
Great Room-A	c 2055	0	89	0.223	6.0	0x0	VIFx	37.2	115.0	st1
Great Room-B	c 2055	0	89	0.223	6.0	0x0	VIFx	37.6	115.0	st1
Great Room-C	c 2055	0	89	0.229	6.0	0x0	VIFx	33.2	115.0	st1
Laundry	c 1172	0	51	0.228	4.0	0x0	VIFx	34.1	115.0	st1
M Bed	c 4803	0	208	0.221	8.0	0x0	VIFx	38.8	115.0	st1
M Bth	c 1303	0	56	0.222	5.0	0x0	VIFx	38.2	115.0	st1
M WC	c 114	0	5	0.224	4.0	0x0	VIFx	37.1	115.0	st1
M WIC	c 110	0	5	0.225	4.0	0x0	VIFx	36.1	115.0	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
st1	PeakAVF	0	705	0.221	660	14.0	0 x 0	VinIFix	
st2	PeakAVF	0	462	0.223	588	12.0	0 x 0	VinIFix	



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...LakeLot 37 2117-RHG-NW Lot 37 2117-RHG-NW.rup Calc = MJ8 Front Door faces: NW

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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	1167	0	0	0	0	0x 0		VIFx	

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