



Manual S Compliance Report

Entire House

Strada Services

Job: Lot84-2265(Frame)-A LHG-...
Date: 03/29/2022
By: RS
Plan: 2265(Frame)

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

Project Information

For: Adams Homes Gainesville
375 SW Silverpalm Dr, Lake City, FL 32024

Cooling Equipment

Design Conditions

Outdoor design DB:	91.4°F	Sensible gain:	26334	Btuh	Entering coil DB:	76.5°F
Outdoor design WB:	75.7°F	Latent gain:	3841	Btuh	Entering coil WB:	63.2°F
Indoor design DB:	75.0°F	Total gain:	30175	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:	28827	Btuh	109% of load
Latent capacity:	5198	Btuh	135% of load
Total capacity:	34026	Btuh	113% of load SHR: 85%

Heating Equipment

Design Conditions

Outdoor design DB:	34.0°F	Heat loss:	27255	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	131% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	28	°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.





Project Summary

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Project Information

For: Adams Homes Gainesville
 375 SW Silverpalm Dr, Lake City, FL 32024

Notes:

Design Information

Weather: Ocala, FL, US

Winter Design Conditions

Outside db 34 °F
 Inside db 70 °F
 Design TD 36 °F

Ventilation Method MJ8

Heating Summary

Structure 24271 Btuh
 Ducts (R-6.0) 2984 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 27255 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft²)	2185	2185
Volume (ft³)	19665	19665
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	105	52

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 = 28 °F

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

Summer Design Conditions

Outside db 91 °F
 Inside db 75 °F
 Design TD 16 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 19963 Btuh
 Ducts (R-6.0) 6371 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.96
 Equipment sensible load 25386 Btuh

Latent Cooling Equipment Load Sizing

Structure 2579 Btuh
 Ducts 1263 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 3841 Btuh
Equipment Total Load (Sen+Lat) 29227 Btuh
 Req. total capacity at 0.75 SHR 2.8 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 0.87

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



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...(Frame)-A LHG-SWLot84-2265(Frame)-A LHG-SW.rup Calc = MJ8 Front Door faces: SW

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

1	Room name	Entire House				M Bed								
2	Exposed wall	8.9 ft				38.5 ft								
3	Room height	228.2 ft				heat/cool								
4	Room dimensions	2209.5 ft²				8.0 ft 13.5 x 16.0 ft								
5	Room area					216.0 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	3.28	2.70	484	378	1239	1022	108	78	256	211
	G	10D-v	0.330	ne	11.88	14.69	18	0	211	261	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	20.98	30	0	356	629	30	0	356	629
	G	4A4-2ov	0.330	ne	11.88	17.88	15	0	178	268	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	12	0	149	224	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	30	0	356	537	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.70	42	30	98	81	0	0	0	0
	G	4A4-2ov	0.330	e	11.88	8.84	12	12	149	110	0	0	0	0
	W	16B-19ad	0.049	e	1.76	2.58	110	110	194	284	0	0	0	0
	W	12C-0sw	0.091	se	3.28	2.70	426	384	1257	1037	128	128	419	346
	G	10D-v	0.330	se	11.88	7.15	16	16	191	115	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	15.00	10	4	117	148	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	16.39	16	4	192	265	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.70	314	208	680	561	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	16.28	30	7	356	489	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	18.55	36	0	428	668	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	7	7	83	71	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	13	13	158	136	0	0	0	0
	D	11D0	0.390	sw	14.04	11.41	20	20	281	228	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.70	448	400	1311	1081	72	54	178	146
	G	10D-v	0.330	nw	11.88	14.69	18	0	211	261	18	0	211	261
	G	4A4-2ov	0.330	nw	11.88	17.88	30	0	356	537	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.62	216	198	649	320	0	0	0	0
	D	11D0	0.390	n	14.04	11.41	18	18	250	203	0	0	0	0
	C	16B-30ad	0.032	-	1.15	1.69	2041	2041	2351	3445	216	216	249	365
	C	16B-30ad	0.032	-	1.15	1.69	176	176	203	297	0	0	0	0
	F	22A-tpl	0.989	-	35.60	0.00	2210	228	8124	0	216	38	1371	0
6	c) AED excursion									342				-72
	Envelope loss/gain								20131	13620			3040	1886
12	a) Infiltration								4140	943			699	159
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other				230		5			1150 4250	2			460 600
	Subtotal (lines 6 to 13)								24271	19963			3739	3105
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								24271	19963			3739	3105
15	Duct loads						12%	32%	2984	6371	12%	32%	460	991
	Total room load								27255	26334			4199	4096
	Air required (cfm)								0	1167			0	182

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

1	Room name					Bed 4 25.5 ft 8.0 ft 1.0 x 148.5 ft heat/cool 148.5 ft²					Bed 2 28.5 ft 8.0 ft 11.5 x 14.5 ft heat/cool 166.8 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	3.28	2.70	92	77	252	208	0	0	0	0	0
	G	10D-v	0.330	ne	11.88	14.69	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	15	0	178	268	0	0	0	0	0
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0	0	0	0	0	0
	W	16B-19ad	0.049	e	1.76	2.58	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	se	3.28	2.70	0	0	0	0	0	0	0	0	0
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	15.00	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.70	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	18.55	0	0	0	0	0	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	0
	D	11D0	0.390	sw	14.04	11.41	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.70	112	112	367	303	116	101	331	273	0
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	nw	11.88	17.88	0	0	0	0	15	0	178	268	0
	P	12C-0sw	0.091	-	3.28	1.62	0	0	0	0	112	112	367	181	0
	D	11D0	0.390	n	14.04	11.41	0	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.15	1.69	148	148	171	251	167	167	192	281	0
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0	0	0	0	0	0
	F	22A-tpl	0.989	-	35.60	0.00	148	26	908	0	167	28	1015	0	0
6	c) AED excursion									-28					112
	Envelope loss/gain								1876	1002			2083	1116	
12	a) Infiltration								463	105			263	60	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ Appliances/other					230	1			230	1			230	150
	Subtotal (lines 6 to 13)								2339	1487			2346	1556	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								2339	1487			2346	1556	
15	Duct loads						12%	32%	238	475	12%	32%	288	496	
	Total room load								2627	1962			2635	2052	
	Air required (cfm)								0	87			0	91	

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

1	Room name					Bed 3 13.5 ft 8.0 ft 1.0 x 145.2 ft heat/cool 145.2 ft²					Laundry 10.0 ft 8.0 ft 7.5 x 11.0 ft heat/cool 82.5 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	3.28	2.70	0	0	0	0	0	0	0	0	0
	G	10D-v	0.330	ne	11.88	14.69	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	0
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0	0	0	0	0	0
	W	16B-19ad	0.049	e	1.76	2.58	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	se	3.28	2.70	0	0	0	0	0	0	0	0	0
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	15.00	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.70	0	0	0	0	16	16	52	43	0
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	18.55	0	0	0	0	0	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	0
	D	11D0	0.390	sw	14.04	11.41	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.70	108	93	305	251	0	0	0	0	0
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	nw	11.88	17.88	15	0	178	268	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.62	0	0	0	0	64	46	151	75	0
	D	11D0	0.390	n	14.04	11.41	0	0	0	0	18	18	250	203	0
	C	16B-30ad	0.032	-	1.15	1.69	145	145	167	245	82	82	95	139	0
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0	0	0	0	0	0
	F	22A-tpi	0.989	-	35.60	0.00	145	14	481	0	82	10	356	0	0
6	c) AED excursion									118				-22	
	Envelope loss/gain								1131	882			905	438	
12	a) Infiltration								245	56			36	8	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ Appliances/other					230	1			230	0			0	
	Subtotal (lines 6 to 13)								1376	1318			941	946	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								1376	1318			941	946	
15	Duct loads						12%	32%	169	421	12%	32%	116	302	
	Total room load								1545	1739			1057	1248	
	Air required (cfm)								0	77			0	55	

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

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

1	Room name					M WIC INT					Kitchen/Nook				
2	Exposed wall					0 ft					9.2 ft				
3	Room height					heat/cool					heat/cool				
4	Room dimensions					8.0 ft 5.0 x 7.0 ft					10.0 ft 1.0 x 294.4 ft				
5	Room area					35.0 ft²					294.4 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	3.28	2.70	0	0	0	0	50	38	123	101	
	G	10D-v	0.330	ne	11.88	14.69	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	12	0	149	224	
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0	42	30	98	81	
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0	12	12	149	110	
	W	16B-19ad	0.049	e	1.76	2.58	0	0	0	0	40	40	71	103	
	W	12C-0sw	0.091	se	3.28	2.70	0	0	0	0	0	0	0	0	
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	se	11.88	15.00	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.28	2.70	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	sw	11.88	18.55	0	0	0	0	0	0	0	0	
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	
	D	11D0	0.390	sw	14.04	11.41	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.28	2.70	0	0	0	0	0	0	0	0	
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	nw	11.88	17.88	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.28	1.62	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	14.04	11.41	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.15	1.69	35	35	40	59	294	294	339	497	
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0	0	0	0	0	
	F	22A-tpl	0.989	-	35.60	0.00	35	0	0	0	294	9	326	0	
6	c) AED excursion									-1				-54	
	Envelope loss/gain								40	58			1254	1062	
12	a) Infiltration								0	0			301	68	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ Appliances/other					230	0		0	0	0			0	
	Subtotal (lines 6 to 13)								40	58			1555	2331	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								40	58			1555	2331	
15	Duct loads						12%	32%	5	18	12%	32%	191	744	
	Total room load								45	76			1746	3074	
	Air required (cfm)								0	3			0	136	

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

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

1	Room name				Fam/Din/Foy				MWC					
2	Exposed wall				36.0 ft				0 ft					
3	Room height				10.0 ft				8.0 ft					
4	Room dimensions				1.0 x 631.4 ft				1.0 x 20.9 ft					
5	Room area				631.4 ft²				20.9 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	3.28	2.70	160	112	368	303	0	0	0	0
	G	10D-v	0.330	ne	11.88	14.69	18	0	211	261	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0	0	0	0	0
	W	16B-19ad	0.049	e	1.76	2.58	70	70	123	181	0	0	0	0
	W	12C-0sw	0.091	se	3.28	2.70	10	10	33	27	0	0	0	0
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	15.00	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.70	190	114	372	307	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	18.55	36	0	428	668	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	7	7	83	71	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	13	13	158	136	0	0	0	0
	D	11D0	0.390	sw	14.04	11.41	20	20	281	228	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.70	0	0	0	0	0	0	0	0
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	nw	11.88	17.88	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.62	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	14.04	11.41	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.15	1.69	631	631	727	1066	21	21	24	35
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0	0	0	0	0
	F	22A-tpi	0.989	-	35.60	0.00	631	36	1282	0	21	0	0	0
6	c) AED excursion								192				-1	
	Envelope loss/gain								4423	3978			24	34
12	a) Infiltration								976	222			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other				230		0		0	900	0		0	0
	Subtotal (lines 6 to 13)								5399	5100			24	34
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								5399	5100			24	34
15	Duct loads						12%	32%	664	1628	12%	32%	3	11
	Total room load								6063	6728			27	45
	Air required (cfm)								0	298			0	2

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

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

1	Room name					Bth 2					Living				
2	Exposed wall					5.0 ft					31.0 ft				
3	Room height					heat/cool					heat/cool				
4	Room dimensions					8.0 ft 5.0 x 8.5 ft					8.8 ft 13.5 x 12.5 ft				
5	Room area					42.5 ft²					168.8 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	3.28	2.70	0	0	0	0	14	14	44	36	
	G	10D-v	0.330	ne	11.88	14.69	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0	0	0	0	0	
	W	16B-19ad	0.049	e	1.76	2.58	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.28	2.70	0	0	0	0	100	84	275	226	
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	se	11.88	15.00	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0	16	4	192	265	
	W	12C-0sw	0.091	sw	3.28	2.70	0	0	0	0	108	78	256	211	
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0	30	7	356	489	
	G	4A4-2ov	0.330	sw	11.88	18.55	0	0	0	0	0	0	0	0	
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0	
	D	11D0	0.390	sw	14.04	11.41	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.28	2.70	0	0	0	0	40	40	131	108	
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.330	nw	11.88	17.88	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.28	1.62	40	40	131	65	0	0	0	0	
	D	11D0	0.390	n	14.04	11.41	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.15	1.69	42	42	49	72	0	0	0	0	
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0	176	176	203	297	
	F	22A-tpl	0.989	-	35.60	0.00	42	5	178	0	169	31	1104	0	
6	c) AED excursion								-3					52	
	Envelope loss/gain								358	133			2560	1684	
12	a) Infiltration								0	0			594	135	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ Appliances/other					230	0		0	0	0			0	
	Subtotal (lines 6 to 13)								358	133			3154	2419	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								358	133			3154	2419	
15	Duct loads						12%	32%	44	43	12%	32%	388	772	
	Total room load								402	176			3542	3191	
	Air required (cfm)								0	8			0	141	

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

1	Room name				M WIC EXT				Bath 3					
2	Exposed wall				7.0 ft				13.5 ft					
3	Room height				8.0 ft				8.0 ft					
4	Room dimensions				5.5 x 7.0 ft				1.0 x 7.2 ft					
5	Room area				38.5 ft²				77.2 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	3.28	2.70	0	0	0	0	60	60	197	162
	G	10D-v	0.330	ne	11.88	14.69	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0	0	0	0	0
	W	16B-19ad	0.049	e	1.76	2.58	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	se	3.28	2.70	56	56	183	151	48	32	104	86
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0	16	16	191	115
	G	4A4-2ov	0.330	se	11.88	15.00	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.70	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	sw	11.88	18.55	0	0	0	0	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0	0	0	0	0
	D	11D0	0.390	sw	14.04	11.41	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.70	0	0	0	0	0	0	0	0
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.330	nw	11.88	17.88	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.62	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	14.04	11.41	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.15	1.69	38	38	44	65	77	77	89	130
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0	0	0	0	0
	F	22A-tpl	0.989	-	35.60	0.00	38	7	249	0	77	14	481	0
6	c) AED excursion								-6				-13	
	Envelope loss/gain								477	211			1062	481
12	a) Infiltration								127	29			245	56
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other				230		0		0	0	0		0	0
	Subtotal (lines 6 to 13)								604	240			1307	537
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								604	240			1307	537
15	Duct loads						12%	32%	74	76	12%	32%	161	171
	Total room load								678	316			1468	708
	Air required (cfm)								0	14			0	31

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

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

1	Room name				M Bath									
2	Exposed wall				8.0 ft				10.5 ft					
3	Room height				1.0				heat/cool					
4	Room dimensions				141.9 ft				x 141.9 ft					
5	Room area				141.9 ft²									
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.28	2.70	0	0	0	0				
	G	10D-v	0.330	ne	11.88	14.69	0	0	0	0				
	G	4A4-2ov	0.330	ne	11.88	20.98	0	0	0	0				
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0				
11	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0				
	G	4A4-2ov	0.330	ne	11.88	17.88	0	0	0	0				
	W	12C-0sw	0.091	e	3.28	2.70	0	0	0	0				
	G	4A4-2ov	0.330	e	11.88	8.84	0	0	0	0				
	W	16B-19ad	0.049	e	1.76	2.58	0	0	0	0				
	W	12C-0sw	0.091	se	3.28	2.70	84	74	243	200				
	G	10D-v	0.330	se	11.88	7.15	0	0	0	0				
	G	4A4-2ov	0.330	se	11.88	15.00	10	4	117	148				
	G	4A4-2ov	0.330	se	11.88	16.39	0	0	0	0				
	W	12C-0sw	0.091	sw	3.28	2.70	0	0	0	0				
	G	4A4-2ov	0.330	sw	11.88	16.28	0	0	0	0				
	G	4A4-2ov	0.330	sw	11.88	18.55	0	0	0	0				
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0				
	G	4B4-2fv	0.330	sw	11.88	10.21	0	0	0	0				
	D	11D0	0.390	sw	14.04	11.41	0	0	0	0				
	W	12C-0sw	0.091	nw	3.28	2.70	0	0	0	0				
	G	10D-v	0.330	nw	11.88	14.69	0	0	0	0				
	G	4A4-2ov	0.330	nw	11.88	17.88	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.62	0	0	0	0				
	D	11D0	0.390	n	14.04	11.41	0	0	0	0				
	C	16B-30ad	0.032	-	1.15	1.69	142	142	163	239				
	C	16B-30ad	0.032	-	1.15	1.69	0	0	0	0				
	F	22A-tpl	0.989	-	35.60	0.00	142	10	374	0				
6	c) AED excursion									68				
	Envelope loss/gain								897	655				
12	a) Infiltration								191	43				
	b) Room ventilation								0	0				
13	Internal gains:				Occupants @	230	0			0				
					Appliances/other					0				
	Subtotal (lines 6 to 13)								1088	699				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								1088	699				
15	Duct loads						12%	32%	134	223				
	Total room load								1222	922				
	Air required (cfm)								0	41				

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



Duct System Summary

Entire House

Strada Services

Job: Lot84-2265(Frame)-A LHG-...
Date: 03/29/2022
By: RS
Plan: 2265(Frame)

531 Codisoo Way, Sanford, FL 32771 Phone: 877-906-1113 License: CAC043953

Project Information

For: Adams Homes Gainesville
375 SW Silverpalm Dr, Lake City, FL 32024

	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	0.199 in/100ft	0.199 in/100ft
Actual air flow	0 cfm	1167 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
Bath 3	c 708	0	31	0.199	4.0	0x0	VIFx	35.5	135.0	st2
Bed 2	c 2052	0	91	0.240	6.0	0x0	VIFx	21.7	120.0	st2
Bed 3	c 1739	0	77	0.238	6.0	0x0	VIFx	22.8	120.0	st2
Bed 4	c 1962	0	87	0.205	6.0	0x0	VIFx	35.7	130.0	st2
Bth 2	c 176	0	8	0.236	4.0	0x0	VIFx	18.9	125.0	st2
Fam/Din/Foy	c 2243	0	99	0.423	6.0	0x0	VIFx	5.3	75.0	
Fam/Din/Foy-A	c 2243	0	99	0.225	6.0	0x0	VIFx	26.2	125.0	st2
Fam/Din/Foy-B	c 2243	0	99	0.205	6.0	0x0	VIFx	36.0	130.0	st2
Kitchen/Nook-A	c 1537	0	68	0.246	6.0	0x0	VIFx	18.3	120.0	st2
Kitchen/Nook-B	c 1537	0	68	0.209	6.0	0x0	VIFx	32.9	130.0	st2
Laundry	c 1248	0	55	0.247	5.0	0x0	VIFx	17.5	120.0	st2
Living	c 3191	0	141	0.205	7.0	0x0	VIFx	35.6	130.0	st1
M Bath	c 922	0	41	0.232	4.0	0x0	VIFx	26.4	120.0	st1
M Bed	c 4096	0	182	0.211	8.0	0x0	VIFx	36.2	125.0	st1
M WC	c 45	0	2	0.223	4.0	0x0	VIFx	27.7	125.0	st1
M WIC EXT	c 316	0	14	0.205	4.0	0x0	VIFx	35.8	130.0	st1
M WIC INT	c 76	0	3	0.230	4.0	0x0	VIFx	28.0	120.0	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	383	0.205	488	12.0	0 x 0	VinIFlx	
st2	PeakAVF	0	684	0.199	640	14.0	0 x 0	VinIFlx	



Right-Suite® Universal 2025 25.0.01 RSU57999

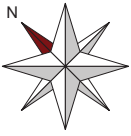
... (Frame)-A LHG-SWLot84-2265 (Frame)-A LHG-SW.rup Calc = MJ8 Front Door faces: SW

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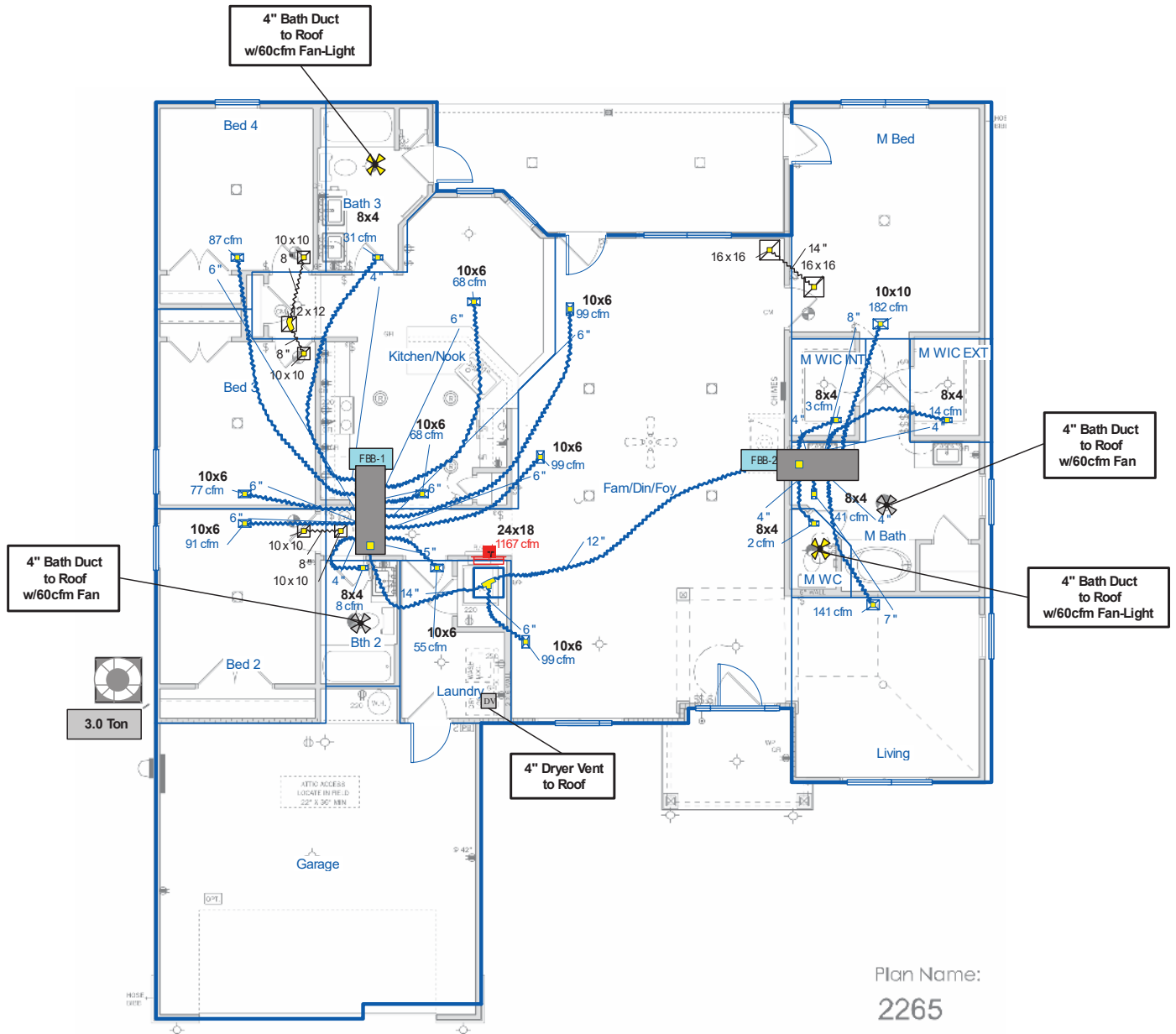
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Return Branch Detail Table

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	1167	0	0	0	0	0x 0		VIFx	



Main



Job #: Lot84-2265(Frame)-A LHG-SW
Performed by RS for:
Adams Homes Gainesville
375 SW Silverpalm Dr
Lake City, FL 32024

Strada Services
531 Codisco Way
Sanford, FL 32771
Phone: 877-906-1113 License: CAC043953

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...WLot84-2265(Frame)-A LHG-SW.rup