



# Right-J8® Form J1

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

			Entire House			br2							
1	Name of Room		204.0 ft			38.0 ft							
2	Running Feet of Exposed Wall		8.3 ft			8.0 ft							
3	Ceiling Ht (Ft) and Gross Wall Area (SqFt)		6195.7 ft²			480.0 ft²							
4	Room Dimensions (Ft) and Floor Plan Area (SqFt)		2168.0 ft²			1.0 x 193.0 ft							
5	Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)		2240.7 ft²			0 °							
6	Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
				Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	392	1175	513		64	203	89	
	Glaz	10D-v	ne	16.36	20.27	21	343	426		0	0	0	
	Wall	12C-0bw	se	3.17	1.38	320	709	310		104	282	123	
	Glaz	10D-v	se	16.36	20.99	21	343	441		0	0	0	
	Wall	4A5-2ov	se	16.36	20.29	15	245	304		15	245	304	
	Glaz	4A5-2ov	se	16.36	11.41	60	981	685		0	0	0	
	Wall	12C-0bw	sw	3.17	1.38	488	1365	596		136	431	188	
	Glaz	10D-v	sw	16.36	16.53	21	343	347		0	0	0	
	Wall	4A5-2ov	sw	16.36	18.29	6	98	110		0	0	0	
	Glaz	4A5-2ov	sw	16.36	20.29	30	491	609		0	0	0	
	Wall	12C-0bw	nw	3.17	1.38	480	1026	448		0	0	0	
Glaz	10D-v	nw	16.36	15.60	21	343	328		0	0	0		
Glaz	4A5-2ov	nw	16.36	22.29	60	981	1337		0	0	0		
Glaz	4A5-2ov	nw	16.36	22.29	75	1227	1672		0	0	0		
Ceil	16B-30ad	-	-	1.11	1.70	1808	2013	3078		193	215	329	
Ceil	17B-6al	-	-	3.65	4.64	433	1581	2008		0	0	0	
Floor	22A-vpl	-	-	34.42	0.00	2168	7021	0		193	1308	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		WAR 1.00	3672			WAR 0.18	664		
	Sensible Load (Btuh)		0.32		907			164					
	Latent Load (Btuh)		0.16		1428								
13	Internal	a Occupants at 230 and 200 Btuh				6	1380			0	0		
	b Scenario number				3300			0					
	c Default Adjustments				0			0					
	d Custom Appliances				0			0					
	e Plants				0			0					
14	Subtotals	Sum lines 6 through 12					23960	20607	2628		3364	1351	
15	Duct Loads	EHLF & ESGF		0.280	0.408		6714	8410			943	551	
		ELG							1673				149
16	Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0				
17	Winter Humidification Load	Gal/Day		0			0						
18	Piping Load						0						
19	Blower Heat						0						
20	AED Excursion & Latent Moisture Migration Load							1809			130		
21	Total Load	Sum lines 13 through 19					30674	29017	4302		4307	1902	

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





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**Job:** 1  
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**By:** DL Williams Heating & Cooling  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Name of Room				ah		bath						
2 Running Feet of Exposed Wall				0 ft		6.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)				8.0 ft 128.0 ft²		8.0 ft 256.0 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)				4.0 x 4.0 ft 16.0 ft²		10.0 x 6.0 ft 60.0 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)				0 ° 16.0 ft²		0 ° 60.0 ft²						
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	ne	16.36	20.27	0	0	0	0	0	0	0
	Wall	12C-0bw	se	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	se	16.36	20.99	0	0	0	0	0	0	0
11	Wall	4A5-2ov	se	16.36	20.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0	0	0	0	0
	Wall	12C-0bw	sw	3.17	1.38	0	0	0	48	133	58	0
	Glaz	10D-v	sw	16.36	16.53	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0	6	98	110	0
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0	0	0	0	0
	Wall	12C-0bw	nw	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	nw	16.36	15.60	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Ceil	16B-30ad	-	1.11	1.70	16	18	27	60	67	102	0
	Ceil	17B-6al	-	3.65	4.64	0	0	0	0	0	0	0
	Floor	22A-vpl	-	34.42	0.00	16	0	0	60	207	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	0	WAR	105	0	0
		Sensible Load (Btuh)		0.16		0	0	0	0.03	26	0	0
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0	0	0
		b Scenario number						0		0	0	0
		c Default Adjustments						0		0	0	0
		d Custom Appliances						0		0	0	0
		e Plants						0		0	0	0
14	Subtotals	Sum lines 6 through 12						0	0	624	362	0
15	Duct Loads	EHLF & ESGF		0.280	0.408			0	0	175	148	0
		ELG							12			46
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19						0	0	799	510	0

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PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

			br3			br4						
1	Name of Room											
2	Running Feet of Exposed Wall		8.0 ft			11.0 ft						
3	Ceiling Ht (Ft) and Gross Wall Area (SqFt)		1.0 x 161.0 ft			8.0 ft						
4	Room Dimensions (Ft) and Floor Plan Area (SqFt)		0 °			161.0 ft²						
5	Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)		161.0 ft²			190.0 ft²						
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	0	0	0	64	136	59	
	Glaz	10D-v	ne	16.36	20.27	0	0	0	21	343	426	
	Wall	12C-0bw	se	3.17	1.38	0	0	0	0	0	0	
	Glaz	10D-v	se	16.36	20.99	0	0	0	0	0	0	
11	Wall	4A5-2ov	se	16.36	20.29	0	0	0	0	0	0	
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0	0	0	0	
	Wall	12C-0bw	sw	3.17	1.38	88	231	101	128	358	156	
	Glaz	10D-v	sw	16.36	16.53	0	0	0	0	0	0	
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0	0	0	0	
	Glaz	4A5-2ov	sw	16.36	20.29	15	245	304	15	245	304	
	Wall	12C-0bw	nw	3.17	1.38	0	0	0	104	234	102	
	Glaz	10D-v	nw	16.36	15.60	0	0	0	0	0	0	
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	30	491	669	
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	
	Ceiling	16B-30ad	-	1.11	1.70	161	179	274	190	212	323	
	Ceiling	17B-6al	-	3.65	4.64	0	0	0	0	0	0	
	Floor	22A-vpl	-	34.42	0.00	161	379	0	190	1273	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	192	WAR	647		
		Sensible Load (Btuh)		0.16		0.05		48	0.18	160		
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0	0	0
		b Scenario number						0			0	
		c Default Adjustments										
		d Custom Appliances						0			0	0
		e Plants									0	0
14	Subtotals	Sum lines 6 through 12						1231	859		3940	2499
15	Duct Loads	EHLF & ESGF		0.280	0.408			345	350		1104	1020
		ELG							124			147
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load								125			299
21	Total Load	Sum lines 13 through 19						1576	1209		5044	3519

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PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Name of Room			living				great					
2 Running Feet of Exposed Wall			10.0 ft				18.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			8.0 ft 352.0 ft²				9.1 ft 659.6 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			10.0 x 12.0 ft 120.0 ft²				18.0 x 22.0 ft 396.0 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 ° 120.0 ft²				33.7 ° 439.6 ft²					
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	ne	16.36	20.27	0	0	0	0	0	0	0
	Wall	12C-0bw	se	3.17	1.38	80	158	69	0	0	0	0
	Glaz	10D-v	se	16.36	20.99	0	0	0	0	0	0	0
11	Wall	4A5-2ov	se	16.36	20.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	se	16.36	11.41	30	491	342	0	0	0	0
	Wall	12C-0bw	sw	3.17	1.38	0	0	0	24	76	33	0
	Glaz	10D-v	sw	16.36	16.53	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0	0	0	0	0
	Wall	12C-0bw	nw	3.17	1.38	0	0	0	144	247	108	0
	Glaz	10D-v	nw	16.36	15.60	0	0	0	21	343	328	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	45	736	1003	0
	Ceil	16B-30ad	-	1.11	1.70	120	134	204	180	200	306	0
	Ceil	17B-6al	-	3.65	4.64	0	0	0	260	949	1205	0
	Flor	22A-vpl	-	34.42	0.00	120	344	0	396	620	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	175	WAR	367		
		Sensible Load (Btuh)		0.16		0.05		43	0.10	91		
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				2		460	400	2	460	400
		b Scenario number						900			900	
		c Default Adjustments										
		d Custom Appliances						0	0		0	0
		e Plants							0		0	0
14	Subtotals	Sum lines 6 through 12						1665	2216		3749	5217
15	Duct Loads	EHLF & ESGF		0.280	0.408			467	904		1050	2129
		ELG							93			306
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load							-78			625	
21	Total Load	Sum lines 13 through 19						2132	3121		4799	7346

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PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Name of Room			kitchen				breakfast					
2 Running Feet of Exposed Wall			0 ft				9.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			10.0 ft		384.0 ft <sup>2</sup>		8.0 ft		304.0 ft <sup>2</sup>			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			12.0 x 12.0 ft		144.0 ft <sup>2</sup>		9.0 x 10.0 ft		90.0 ft <sup>2</sup>			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			33.7 °		173.1 ft <sup>2</sup>		0 °		90.0 ft <sup>2</sup>			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	24	76	33		0	0	0
	Glaz	10D-v	ne	16.36	20.27	0	0	0		0	0	0
	Wall	12C-0bw	se	3.17	1.38	0	0	0		0	0	0
	Glaz	10D-v	se	16.36	20.99	0	0	0		0	0	0
11	Wall	4A5-2ov	se	16.36	20.29	0	0	0		0	0	0
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0		0	0	0
	Wall	12C-0bw	sw	3.17	1.38	0	0	0		0	0	0
	Glaz	10D-v	sw	16.36	16.53	0	0	0		0	0	0
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0		0	0	0
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0		0	0	0
	Wall	12C-0bw	nw	3.17	1.38	0	0	0	72	133	58	
	Glaz	10D-v	nw	16.36	15.60	0	0	0	0	0	0	
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	30	491	669	
	Ceil	16B-30ad	-	1.11	1.70	0	0	0	90	100	153	
	Ceil	17B-6al	-	3.65	4.64	173	632	803	0	0	0	
	Floir	22A-vpl	-	34.42	0.00	144	0	0	90	310	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	52	WAR	157		
		Sensible Load (Btuh)				0.16	0.01	13	0.04	39		
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				1		230	200	0	0	0
		b Scenario number						1000			0	
		c Default Adjustments									0	0
		d Custom Appliances						0	0		0	0
		e Plants							0		0	0
14	Subtotals	Sum lines 6 through 12						765	2005		1197	1293
15	Duct Loads	EHLF & ESGF		0.280	0.408			215	818		336	528
		ELG							111			69
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load								-81		365	
21	Total Load	Sum lines 13 through 19						980	2824		1533	1820

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1 Name of Room			dining				foyer					
2 Running Feet of Exposed Wall			10.0 ft				7.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			8.0 ft 352.0 ft²				8.0 ft 304.0 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			10.0 x 12.0 ft 120.0 ft²				7.0 x 12.0 ft 84.0 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 ° 120.0 ft²				0 ° 84.0 ft²					
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	ne	16.36	20.27	0	0	0	0	0	0	0
	Wall	12C-0bw	se	3.17	1.38	80	158	69	56	111	48	
	Glaz	10D-v	se	16.36	20.99	0	0	0	21	343	441	
11	Wall	4A5-2ov	se	16.36	20.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	se	16.36	11.41	30	491	342	0	0	0	0
	Wall	12C-0bw	sw	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	sw	16.36	16.53	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0	0	0	0	0
	Wall	12C-0bw	nw	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	nw	16.36	15.60	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Ceiling	16B-30ad	-	1.11	1.70	120	134	204	84	94	143	
	Ceiling	17B-6al	-	3.65	4.64	0	0	0	0	0	0	0
	Floor	22A-vpl	-	34.42	0.00	120	344	0	84	241	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	175	WAR	122		
		Sensible Load (Btuh)		0.16		0.05		43	0.03	30		
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				1		230	200	0	0	0
		b Scenario number						0			0	
		c Default Adjustments									0	0
		d Custom Appliances						0	0		0	0
		e Plants							0		0	0
14	Subtotals	Sum lines 6 through 12						1654	1114		0	0
15	Duct Loads	EHLF & ESGF		0.280	0.408			464	455		0	0
		ELG							93			65
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											9
21	Total Load	Sum lines 13 through 19						2118	1569		0	0

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PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Name of Room			utility			hall						
2 Running Feet of Exposed Wall			0 ft			0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			8.0 ft	288.0 ft <sup>2</sup>	8.0 ft	208.0 ft <sup>2</sup>						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			6.0 x 12.0 ft	72.0 ft <sup>2</sup>	9.0 x 4.0 ft	36.0 ft <sup>2</sup>						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	72.0 ft <sup>2</sup>	0 °	36.0 ft <sup>2</sup>						
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	ne	16.36	20.27	0	0	0	0	0	0	0
	Wall	12C-0bw	se	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	se	16.36	20.99	0	0	0	0	0	0	0
11	Glaz	4A5-2ov	se	16.36	20.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0	0	0	0	0
	Wall	12C-0bw	sw	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	sw	16.36	16.53	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0	0	0	0	0
	Wall	12C-0bw	nw	3.17	1.38	0	0	0	0	0	0	0
	Glaz	10D-v	nw	16.36	15.60	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0	0	0	0	0
	Ceil	16B-30ad	-	1.11	1.70	72	80	123	36	40	61	
	Ceil	17B-6al	-	3.65	4.64	0	0	0	0	0	0	
	Flor	22A-vpl	-	34.42	0.00	72	0	0	36	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	0	WAR	0		
		Sensible Load (Btuh)		0.16			0		0	0		
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0	0	0
		b Scenario number						500		0	0	
		c Default Adjustments										
		d Custom Appliances						0		0	0	
		e Plants						0		0	0	
14	Subtotals	Sum lines 6 through 12						89	612		0	0
15	Duct Loads	EHLF & ESGF		0.280	0.408			25	250		0	0
		ELG							56			28
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19						114	862		0	0

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



# Right-J8® Form J1

## Entire House

### DL Williams Heating & Cooling L.L.C.

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & Cooling  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Name of Room			mbed			mbath							
2 Running Feet of Exposed Wall			42.0 ft			6.0 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			8.0 ft	544.0 ft <sup>2</sup>	8.0 ft	432.0 ft <sup>2</sup>							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			20.0 x 14.0 ft	280.0 ft <sup>2</sup>	1.0 x 116.0 ft	116.0 ft <sup>2</sup>							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	280.0 ft <sup>2</sup>	0 °	116.0 ft <sup>2</sup>							
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12C-0bw	ne	3.17	1.38	112	355	155		48	152	66	
	Glaz	10D-v	ne	16.36	20.27	0	0	0		0	0	0	
	Wall	12C-0bw	se	3.17	1.38	0	0	0		0	0	0	
	Glaz	10D-v	se	16.36	20.99	0	0	0		0	0	0	
11	Glaz	4A5-2ov	se	16.36	20.29	0	0	0		0	0	0	
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0		0	0	0	
	Wall	12C-0bw	sw	3.17	1.38	64	136	59		0	0	0	
	Glaz	10D-v	sw	16.36	16.53	21	343	347		0	0	0	
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0		0	0	0	
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0		0	0	0	
	Wall	12C-0bw	nw	3.17	1.38	160	412	180		0	0	0	
	Glaz	10D-v	nw	16.36	15.60	0	0	0		0	0	0	
	Glaz	4A5-2ov	nw	16.36	22.29	30	491	669		0	0	0	
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0		0	0	0	
	Ceil	16B-30ad	-	1.11	1.70	280	312	477		116	129	197	
	Ceil	17B-6al	-	3.65	4.64	0	0	0		0	0	0	
	Flor	22A-vpl	-	34.42	0.00	280	1446	0		116	207	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	734		WAR	105		
		Sensible Load (Btuh)		0.16								26	
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0	0
		b Scenario number						0				0	
		c Default Adjustments											
		d Custom Appliances						0	0			0	0
		e Plants							0			0	0
14	Subtotals	Sum lines 6 through 12						4242	2545		599	288	
15	Duct Loads	EHLF & ESGF		0.280	0.408			1189	1038		168	117	
		ELG								216		90	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0								
17	Winter Humidification Load	Gal/Day		0									
18	Piping Load												
19	Blower Heat												
20	AED Excursion & Latent Moisture Migration Load								456			-11	
21	Total Load	Sum lines 13 through 19						5431	3583		767	405	

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





# Right-J8® Form J1

## Entire House

### DL Williams Heating & Cooling L.L.C.

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & Cooling  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Name of Room		2 Running Feet of Exposed Wall		3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)		wic2		wic1				
						8.0 ft	5.0 ft	8.0 ft	5.0 ft			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)		6.0 x 5.0 ft		176.0 ft²		30.0 ft²		30.0 ft²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)		0 °		30.0 ft²		0 °		30.0 ft²				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0bw	ne	3.17	1.38	40	127	55		40	127	55
	Glaz	10D-v	ne	16.36	20.27	0	0	0		0	0	0
	Wall	12C-0bw	se	3.17	1.38	0	0	0		0	0	0
	Glaz	10D-v	se	16.36	20.99	0	0	0		0	0	0
11	Wall	4A5-2ov	se	16.36	20.29	0	0	0		0	0	0
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0		0	0	0
	Wall	12C-0bw	sw	3.17	1.38	0	0	0		0	0	0
	Glaz	10D-v	sw	16.36	16.53	0	0	0		0	0	0
	Wall	4A5-2ov	sw	16.36	18.29	0	0	0		0	0	0
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0		0	0	0
	Wall	12C-0bw	nw	3.17	1.38	0	0	0		0	0	0
	Glaz	10D-v	nw	16.36	15.60	0	0	0		0	0	0
	Wall	4A5-2ov	nw	16.36	22.29	0	0	0		0	0	0
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0		0	0	0
	Ceil	16B-30ad	-	1.11	1.70	30	33	51		30	33	51
	Ceil	17B-6al	-	3.65	4.64	0	0	0		0	0	0
	Floor	22A-vpl	-	34.42	0.00	30	172	0		30	172	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR	87		WAR	87	
		Sensible Load (Btuh)				0.16	0.02	22		0.02	22	
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0	0	0
		b Scenario number						0			0	
		c Default Adjustments										
		d Custom Appliances						0	0		0	0
		e Plants							0			0
14	Subtotals	Sum lines 6 through 12						420	123		420	123
15	Duct Loads	EHLF & ESGF		0.280	0.408			118	50		118	50
		ELG							23			23
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19						537	173		537	173

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





# Right-J8® Form J1

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
1	Name of Room					hall2 0 ft						
2	Running Feet of Exposed Wall					8.0 ft				208.0 ft²		
3	Ceiling Ht (Ft) and Gross Wall Area (SqFt)					3.0 x 10.0 ft				30.0 ft²		
4	Room Dimensions (Ft) and Floor Plan Area (SqFt)					0 °				30.0 ft²		
5	Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)											
6	Wall	12C-0bw	ne	3.17	1.38	0	0	0				
	Glaz	10D-v	ne	16.36	20.27	0	0	0				
	Wall	12C-0bw	se	3.17	1.38	0	0	0				
	Glaz	10D-v	se	16.36	20.99	0	0	0				
11	Glaz	4A5-2ov	se	16.36	20.29	0	0	0				
	Glaz	4A5-2ov	se	16.36	11.41	0	0	0				
	Wall	12C-0bw	sw	3.17	1.38	0	0	0				
	Glaz	10D-v	sw	16.36	16.53	0	0	0				
	Glaz	4A5-2ov	sw	16.36	18.29	0	0	0				
	Glaz	4A5-2ov	sw	16.36	20.29	0	0	0				
	Wall	12C-0bw	nw	3.17	1.38	0	0	0				
	Glaz	10D-v	nw	16.36	15.60	0	0	0				
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0				
	Glaz	4A5-2ov	nw	16.36	22.29	0	0	0				
	Ceil	16B-30ad	-	1.11	1.70	30	33	51				
	Ceil	17B-6al	-	3.65	4.64	0	0	0				
	Flor	22A-vpl	-	34.42	0.00	30	0	0				
12	Infiltration	Heating Load (Btuh)		Effect		WAR 0	0					
		Sensible Load (Btuh)		ACH			0.32					
		Latent Load (Btuh)					0.16					
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0			
		b Scenario number						0				
		c Default Adjustments										
		d Custom Appliances						0	0			
		e Plants							0			
14	Subtotals	Sum lines 6 through 12					0	0				
15	Duct Loads	EHLF & ESGF		0.280	0.408		0	0				
		ELG							23			
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19					0	0				

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



# Load Short Form

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Information

	Htg	Clg	Method	Infiltration	Simplified Average
Outside db (°F)	33	92			
Inside db (°F)	68	75	Construction quality		
Design TD (°F)	35	17	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	8	44			

### HEATING EQUIPMENT

Make Trane  
 Trade TRANE  
 Model 4TWR6036H1  
 AHRI ref 7562981

Efficiency 9 HSPF  
 Heating input  
 Heating output 33000 Btuh @ 47°F  
 Temperature rise 29 °F  
 Actual air flow 1050 cfm  
 Air flow factor 0.034 cfm/Btuh  
 Static pressure 0.50 in H2O  
 Space thermostat  
 Capacity balance point = 32 °F

### COOLING EQUIPMENT

Make Trane  
 Trade TRANE  
 Cond 4TWR6036H1  
 Coil TEM6A0C36H31  
 AHRI ref 7562981

Efficiency 13.0 EER, 16 SEER  
 Sensible cooling 24360 Btuh  
 Latent cooling 10440 Btuh  
 Total cooling 34800 Btuh  
 Actual air flow 1050 cfm  
 Air flow factor 0.036 cfm/Btuh  
 Static pressure 0.50 in H2O  
 Load sensible heat ratio 0.87

Backup:  
 Input = 9 kW, Output = 29745 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
br2	193	4307	1902	147	69
ah	16	0	0	0	0
bath	60	799	510	27	18
br3	161	1576	1209	54	44
br4	190	5044	3519	173	127
living	120	2132	3121	73	113
great	396	4799	7346	164	266
kitchen	144	980	2824	34	102
breakfast	90	1533	1820	52	66
dining	120	2118	1569	73	57
foyer	84	0	0	0	0
utility	72	114	862	4	31
hall	36	0	0	0	0
mbed	280	5431	3583	186	130

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



mbath	116	767	405	26	15
wic2	30	537	173	18	6
wic1	30	537	173	18	6
hall2	30	0	0	0	0
Entire House	2168	30674	29017	1050	1050
Other equip loads		0	0		
Equip. @ 0.97 RSM			28204		
Latent cooling			4302		
TOTALS	2168	30674	32506	1050	1050

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





# Loads for Multiple Orientations

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

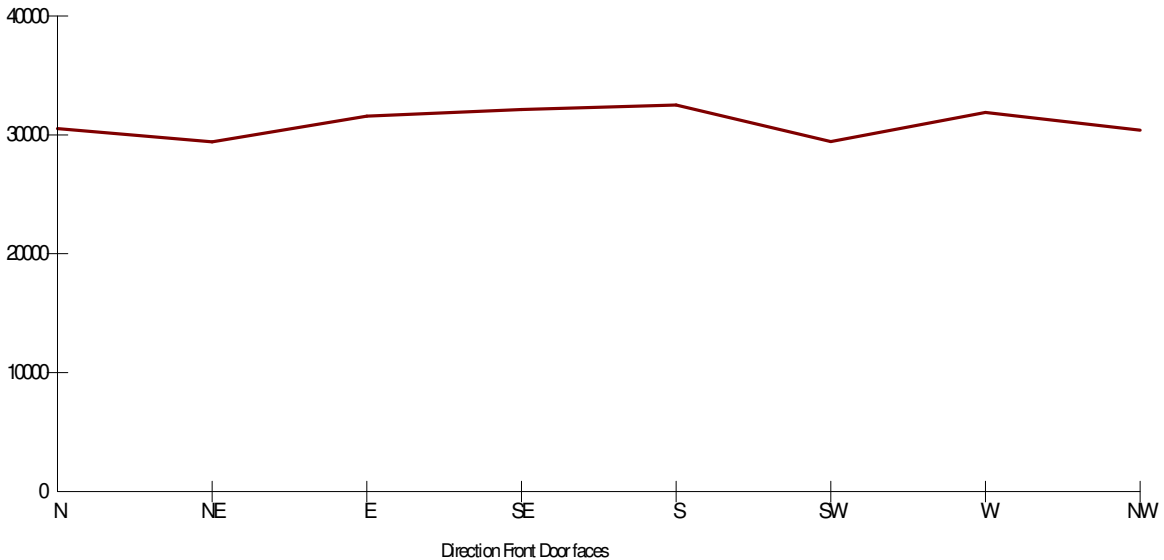
For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>				<b>Indoor:</b>	<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US				Indoor temperature (°F)	68	75
Elevation:	123 ft			Design TD (°F)	35	17
Latitude:	30°N			Relative humidity (%)	30	50
<b>Outdoor:</b>		<b>Heating</b>	<b>Cooling</b>	Moisture difference (gr/lb)	8.2	43.8
Drybulb (°F)		33	92	<b>Infiltration:</b>		
Daily range (°F)		-	18 ( M )			
Wet bulb (°F)		-	76			
Wind speed (mph)		15.0	7.5			

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	26236	25119	27277	27842	28204	25145	27593	26104
Latent Load (Btuh)	4302	4302	4302	4302	4302	4302	4302	4302
Total Load (Btuh)	30538	29420	31579	32144	32506	29446	31895	30406
Heating AVF (cfm)	1050	1050	1050	1050	1050	1050	1050	1050
Cooling AVF (cfm)	1050	1050	1050	1050	1050	1050	1050	1050

Building Orientation Cooling Load



Current Orientation: Front Door faces South  
 Highest Cooling Load: Front Door faces South

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





# Building Analysis

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

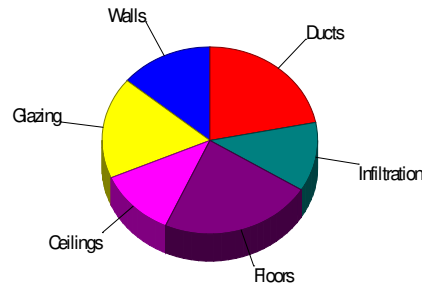
For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>				<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US				Indoor temperature (°F)		68	75
Elevation: 123 ft				Design TD (°F)		35	17
Latitude: 30°N				Relative humidity (%)		30	50
				Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>		<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>			
Drybulb (°F)		33	92	Method		Simplified	
Daily range (°F)		-	18 ( M )	Construction quality		Average	
Wet bulb (°F)		-	76	Fireplaces		0	
Wind speed (mph)		15.0	7.5				

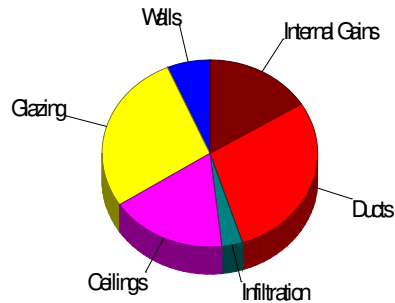
## Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.2	4275	13.9
Glazing	16.4	5397	17.6
Doors	0	0	0
Ceilings	1.6	3594	11.7
Floors	3.2	7021	22.9
Infiltration	2.2	3672	12.0
Ducts		6714	21.9
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
<b>Total</b>		<b>30674</b>	<b>100.0</b>



## Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.4	1867	6.4
Glazing	24.4	8066	27.8
Doors	0	0	0
Ceilings	2.3	5086	17.5
Floors	0	0	0
Infiltration	0.5	907	3.1
Ducts		8410	29.0
Ventilation		0	0
Internal gains		4680	16.1
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>29017</b>	<b>100.0</b>



Latent Cooling Load = 4302 Btuh  
 Overall U-value = 0.096 Btuh/ft²-°F

Data entries checked.



**J1 Form - Worksheet A**  
*Entire House*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

<b>Supporting Detail</b>	
Project Name: Adams Homes plan 2169 Forest Plantation lot 26	Date: May 05, 2022
Address: Lake City, FL 32055	
Phone:	Job ID: 1

<b>Worksheet A</b> <b>Location and Design Conditions</b>		
Weather Location: Gainesville Regional, FL, US	Elevation = 123	Latitude = 30
Indoor Conditions, Heating: DB = 68 °F RH = 30 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 33 °F 1% DB = 92 °F	Grains Difference = 44 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 35 °F	CTD = 17 °F

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



Right-Suite® Universal 2022 22.0.03 RSU02245

...ms Homes plan 2169 Forest Plantation lot 26.rup Calc = MJ8 Front Door faces: S

2022-Jul-22 15:18:18

Page 1



# Component Constructions

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>	Gainesville Regional, FL, US		<b>Indoor:</b>	Indoor temperature (°F)	68	<b>Heating</b>	75
Elevation:	123 ft		Design TD (°F)	35		17	<b>Cooling</b>
Latitude:	30°N		Relative humidity (%)	30		50	
<b>Outdoor:</b>			Moisture difference (gr/lb)	8.2		43.8	
<b>Heating</b>		<b>Cooling</b>	<b>Infiltration:</b>				
Drybulb (°F)	33	92	Method	Simplified			
Daily range (°F)	-	18 ( M )	Construction quality	Average			
Wet bulb (°F)	-	76	Fireplaces	0			
Wind speed (mph)	15.0	7.5					

## Construction descriptions

	Or	Area ft <sup>2</sup>	U-value Btuh/ft <sup>2</sup> -°F	Insul R ft <sup>2</sup> -°F/Btuh	Htg HTM Btuh/ft <sup>2</sup>	Loss Btuh	Clg HTM Btuh/ft <sup>2</sup>	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	371	0.091	13.0	3.17	1175	1.38	513
	se	224	0.091	13.0	3.17	709	1.38	310
	sw	431	0.091	13.0	3.17	1365	1.38	596
	nw	324	0.091	13.0	3.17	1026	1.38	448
	all	1350	0.091	13.0	3.17	4275	1.38	1867

## Partitions

(none)

## Windows

10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 3 ft overhang (7 ft window ht, 2 ft sep.); 6.67 ft head ht	ne	21	0.470	0	16.4	343	20.3	426
	sw	21	0.470	0	16.4	343	16.5	347
	all	42	0.470	0	16.4	687	18.4	773
10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 2 ft overhang (7 ft window ht, 10 ft sep.); 6.67 ft head ht	se	21	0.470	0	16.4	343	21.0	441
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	se	15	0.470	0	16.4	245	20.3	304
	sw	30	0.470	0	16.4	491	20.3	609
	nw	60	0.470	0	16.4	981	22.3	1337
	all	105	0.470	0	16.4	1717	21.4	2250
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 10 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	se	60	0.470	0	16.4	981	11.4	685
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 2 ft sep.); 6.67 ft head ht	sw	6	0.470	0	16.4	98	18.3	110
10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 8 ft overhang (7 ft window ht, 2 ft sep.); 6.67 ft head ht	nw	21	0.470	0	16.4	343	15.6	328

4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, lght; 50% outdoor insect screen; 8 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	nw	75	0.470	0	16.4	1227	22.3	1672
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**Doors**  
(none)

**Ceilings**

16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh	1808	0.032	30.0	1.11	2013	1.70	3078
17B-6al: Rf/clg ceiling, asphalt shingles roof mat, wd cons, r-6 deck ins, 1" thkns	433	0.105	6.0	3.65	1581	4.64	2008

**Floors**

22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh	204	0.989	0	34.4	7021	0	0
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# Component Constructions

br2

DL Williams Heating & Cooling L.L.C.

Job: 1  
Date: May 05, 2022  
By: DL Williams Heating & C...  
Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

## Design Conditions

<b>Location:</b> Gainesville Regional, FL, US Elevation: 123 ft Latitude: 30°N			<b>Indoor:</b> Indoor temperature (°F) 68 Design TD (°F) 35 Relative humidity (%) 30 Moisture difference (gr/lb) 8.2	<b>Heating</b> 68 35 30 8.2	<b>Cooling</b> 75 17 50 43.8
<b>Outdoor:</b> Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	<b>Heating</b> 33 - - 15.0	<b>Cooling</b> 92 18 ( M ) 76 7.5	<b>Infiltration:</b> Method Construction quality Fireplaces	Simplified Average 0	

## Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	64	0.091	13.0	3.17	203	1.38	89
	se	89	0.091	13.0	3.17	282	1.38	123
	sw	136	0.091	13.0	3.17	431	1.38	188
	all	289	0.091	13.0	3.17	915	1.38	400
<b>Partitions</b> (none)								
<b>Windows</b>								
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	se	15	0.470	0	16.4	245	20.3	304
<b>Doors</b> (none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		193	0.032	30.0	1.11	215	1.70	329
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		38	0.989	0	34.4	1308	0	0



# Component Constructions

ah

DL Williams Heating & Cooling L.L.C.

Job: 1  
Date: May 05, 2022  
By: DL Williams Heating & C...  
Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

## Design Conditions

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method		
Daily range (°F)	-	18 ( M )	Construction quality		
Wet bulb (°F)	-	76	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Average		
			0		

## Construction descriptions

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft <sup>2</sup>	Btuh/ft <sup>2</sup> -°F	ft <sup>2</sup> -°F/Btuh	Btuh/ft <sup>2</sup>	Btuh	Btuh/ft <sup>2</sup>	Btuh
<b>Walls</b> (none)								
<b>Partitions</b> (none)								
<b>Windows</b> (none)								
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		16	0.032	30.0	1.11	18	1.70	27
<b>Floors</b> (none)								



# Component Constructions

bath

DL Williams Heating & Cooling L.L.C.

Job: 1  
Date: May 05, 2022  
By: DL Williams Heating & C...  
Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

## Design Conditions

<b>Location:</b>	Gainesville Regional, FL, US		<b>Indoor:</b>	Indoor temperature (°F)	68	75
Elevation:	123 ft		Design TD (°F)	35	17	
Latitude:	30°N		Relative humidity (%)	30	50	
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	Moisture difference (gr/lb)	8.2	43.8	
Drybulb (°F)	33	92	<b>Infiltration:</b>			
Daily range (°F)	-	18 ( M )	Method	Simplified		
Wet bulb (°F)	-	76	Construction quality	Average		
Wind speed (mph)	15.0	7.5	Fireplaces	0		

## Construction descriptions

	Or	Area ft <sup>2</sup>	U-value Btuh/ft <sup>2</sup> -°F	Insul R ft <sup>2</sup> -°F/Btuh	Htg HTM Btuh/ft <sup>2</sup>	Loss Btuh	Clg HTM Btuh/ft <sup>2</sup>	Gain Btuh
<b>Walls</b> 12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	sw	42	0.091	13.0	3.17	133	1.38	58
<b>Partitions</b> (none)								
<b>Windows</b> 4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 2 ft sep.); 6.67 ft head ht	sw	6	0.470	0	16.4	98	18.3	110
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		60	0.032	30.0	1.11	67	1.70	102
<b>Floors</b> 22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		6	0.989	0	34.4	207	0	0



# Component Constructions

br3

DL Williams Heating & Cooling L.L.C.

Job: 1  
Date: May 05, 2022  
By: DL Williams Heating & C...  
Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

## Design Conditions

<b>Location:</b> Gainesville Regional, FL, US Elevation: 123 ft Latitude: 30°N			<b>Indoor:</b> Indoor temperature (°F) 68 Design TD (°F) 35 Relative humidity (%) 30 Moisture difference (gr/lb) 8.2	<b>Heating</b> 68 35 30 8.2	<b>Cooling</b> 75 17 50 43.8
<b>Outdoor:</b> Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	<b>Heating</b> 33 - - 15.0	<b>Cooling</b> 92 18 ( M ) 76 7.5	<b>Infiltration:</b> Method Construction quality Fireplaces	Simplified Average 0	

## Construction descriptions

	Or	Area ft <sup>2</sup>	U-value Btuh/ft <sup>2</sup> -°F	Insul R ft <sup>2</sup> -°F/Btuh	Htg HTM Btuh/ft <sup>2</sup>	Loss Btuh	Clg HTM Btuh/ft <sup>2</sup>	Gain Btuh
<b>Walls</b> 12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	sw	73	0.091	13.0	3.17	231	1.38	101
<b>Partitions</b> (none)								
<b>Windows</b> 4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	sw	15	0.470	0	16.4	245	20.3	304
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		161	0.032	30.0	1.11	179	1.70	274
<b>Floors</b> 22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		11	0.989	0	34.4	379	0	0



# Component Constructions

br4

DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>	Gainesville Regional, FL, US		<b>Indoor:</b>	Indoor temperature (°F)	68	75
	Elevation:	123 ft		Design TD (°F)	35	17
	Latitude:	30°N		Relative humidity (%)	30	50
<b>Outdoor:</b>				Moisture difference (gr/lb)	8.2	43.8
	<b>Heating</b>	<b>Cooling</b>		<b>Infiltration:</b>		
	Drybulb (°F)	33	92	Method	Simplified	
	Daily range (°F)	-	18 ( M )	Construction quality	Average	
	Wet bulb (°F)	-	76	Fireplaces	0	
	Wind speed (mph)	15.0	7.5			

## Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	43	0.091	13.0	3.17	136	1.38	59
	sw	113	0.091	13.0	3.17	358	1.38	156
	nw	74	0.091	13.0	3.17	234	1.38	102
	all	230	0.091	13.0	3.17	728	1.38	318
<b>Partitions</b> (none)								
<b>Windows</b>								
10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 3 ft overhang (7 ft window ht, 2 ft sep.); 6.67 ft head ht	ne	21	0.470	0	16.4	343	20.3	426
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	sw	15	0.470	0	16.4	245	20.3	304
	nw	30	0.470	0	16.4	491	22.3	669
	all	45	0.470	0	16.4	736	21.6	973
<b>Doors</b> (none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		190	0.032	30.0	1.11	212	1.70	323
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		37	0.989	0	34.4	1273	0	0



PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

## Construction descriptions

	Or	Area ft <sup>2</sup>	U-value Btuh/ft <sup>2</sup> -°F	Insul R ft <sup>2</sup> -°F/Btuh	Htg HTM Btuh/ft <sup>2</sup>	Loss Btuh	Clg HTM Btuh/ft <sup>2</sup>	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	se	50	0.091	13.0	3.17	158	1.38	69
<b>Partitions</b>								
(none)								
<b>Windows</b>								
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 10 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	se	30	0.470	0	16.4	491	11.4	342
<b>Doors</b>								
(none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		120	0.032	30.0	1.11	134	1.70	204
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		10	0.989	0	34.4	344	0	0



**Component Constructions**  
*great*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b> Gainesville Regional, FL, US Elevation: 123 ft Latitude: 30°N			<b>Indoor:</b> Indoor temperature (°F) 68 Design TD (°F) 35 Relative humidity (%) 30 Moisture difference (gr/lb) 8.2	<b>Heating</b> 68 35 30 8.2	<b>Cooling</b> 75 17 50 43.8
<b>Outdoor:</b> Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	<b>Heating</b> 33 - - 15.0	<b>Cooling</b> 92 18 ( M ) 76 7.5	<b>Infiltration:</b> Method Construction quality Fireplaces	Simplified Average 0	

**Construction descriptions**

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	sw	24	0.091	13.0	3.17	76	1.38	33
	nw	78	0.091	13.0	3.17	247	1.38	108
	all	102	0.091	13.0	3.17	323	1.38	141
<b>Partitions</b> (none)								
<b>Windows</b>								
10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 8 ft overhang (7 ft window ht, 2 ft sep.); 6.67 ft head ht	nw	21	0.470	0	16.4	343	15.6	328
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 8 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	nw	45	0.470	0	16.4	736	22.3	1003
<b>Doors</b> (none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		180	0.032	30.0	1.11	200	1.70	306
17B-6al: Rf/clg ceiling, asphalt shingles roof mat, wd cons, r-6 deck ins, 1" thkns		260	0.105	6.0	3.65	949	4.64	1205
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		18	0.989	0	34.4	620	0	0



**Component Constructions**  
*kitchen*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

**Construction descriptions**

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft²	Btuh/ft²-°F	ft²-°F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	24	0.091	13.0	3.17	76	1.38	33
<b>Partitions</b>								
(none)								
<b>Windows</b>								
(none)								
<b>Doors</b>								
(none)								
<b>Ceilings</b>								
17B-6al: Rf/clg ceiling, asphalt shingles roof mat, wd cons, r-6 deck ins, 1" thkns		173	0.105	6.0	3.65	632	4.64	803
<b>Floors</b>								
(none)								



**Component Constructions**  
*breakfast*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

### Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

### Design Conditions

<b>Location:</b>			<b>Indoor:</b>	<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US			Indoor temperature (°F)	68	75
Elevation: 123 ft			Design TD (°F)	35	17
Latitude: 30°N			Relative humidity (%)	30	50
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	Moisture difference (gr/lb)	8.2	43.8
Drybulb (°F)	33	92	<b>Infiltration:</b>		
Daily range (°F)	-	18 ( M )	Method	Simplified	
Wet bulb (°F)	-	76	Construction quality	Average	
Wind speed (mph)	15.0	7.5	Fireplaces	0	

### Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	nw	42	0.091	13.0	3.17	133	1.38	58
<b>Partitions</b>								
(none)								
<b>Windows</b>								
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 8 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	nw	30	0.470	0	16.4	491	22.3	669
<b>Doors</b>								
(none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		90	0.032	30.0	1.11	100	1.70	153
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		9	0.989	0	34.4	310	0	0



**Component Constructions**  
*dining*  
**DL Williams Heating & Cooling L.L.C.**

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**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

**Construction descriptions**

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b> 12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	se	50	0.091	13.0	3.17	158	1.38	69
<b>Partitions</b> (none)								
<b>Windows</b> 4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 10 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	se	30	0.470	0	16.4	491	11.4	342
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		120	0.032	30.0	1.11	134	1.70	204
<b>Floors</b> 22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		10	0.989	0	34.4	344	0	0



**Component Constructions**  
*foyer*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

### Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

### Design Conditions

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

### Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	se	35	0.091	13.0	3.17	111	1.38	48
<b>Partitions</b>								
(none)								
<b>Windows</b>								
10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 2 ft overhang (7 ft window ht, 10 ft sep.); 6.67 ft head ht	se	21	0.470	0	16.4	343	21.0	441
<b>Doors</b>								
(none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		84	0.032	30.0	1.11	94	1.70	143
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		7	0.989	0	34.4	241	0	0



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## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

## Construction descriptions

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft <sup>2</sup>	Btuh/ft <sup>2</sup> -°F	ft <sup>2</sup> -°F/Btuh	Btuh/ft <sup>2</sup>	Btuh	Btuh/ft <sup>2</sup>	Btuh
<b>Walls</b> (none)								
<b>Partitions</b> (none)								
<b>Windows</b> (none)								
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		72	0.032	30.0	1.11	80	1.70	123
<b>Floors</b> (none)								





**Component Constructions**  
*hall*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

**Construction descriptions**

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft²	Btuh/ft²-°F	ft²-°F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
<b>Walls</b> (none)								
<b>Partitions</b> (none)								
<b>Windows</b> (none)								
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		36	0.032	30.0	1.11	40	1.70	61
<b>Floors</b> (none)								



**Component Constructions**  
*mbed*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
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**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b> Gainesville Regional, FL, US Elevation: 123 ft Latitude: 30°N			<b>Indoor:</b> Indoor temperature (°F) 68 Design TD (°F) 35 Relative humidity (%) 30 Moisture difference (gr/lb) 8.2	<b>Heating</b> 68 35 30 8.2	<b>Cooling</b> 75 17 50 43.8
<b>Outdoor:</b> Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	<b>Heating</b> 33 - - 15.0	<b>Cooling</b> 92 18 ( M ) 76 7.5	<b>Infiltration:</b> Method Construction quality Fireplaces	Simplified Average 0	

**Construction descriptions**

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	112	0.091	13.0	3.17	355	1.38	155
	sw	43	0.091	13.0	3.17	136	1.38	59
	nw	130	0.091	13.0	3.17	412	1.38	180
	all	285	0.091	13.0	3.17	903	1.38	394
<b>Partitions</b> (none)								
<b>Windows</b>								
10D-v: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 3 ft overhang (7 ft window ht, 2 ft sep.); 6.67 ft head ht	sw	21	0.470	0	16.4	343	16.5	347
4A5-2ov: 2 glazing, clr low-e outr, air gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.31); 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 2 ft sep.); 6.67 ft head ht	nw	30	0.470	0	16.4	491	22.3	669
<b>Doors</b> (none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		280	0.032	30.0	1.11	312	1.70	477
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		42	0.989	0	34.4	1446	0	0



**Component Constructions**  
*mbath*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method		
Daily range (°F)	-	18 ( M )	Simplified		
Wet bulb (°F)	-	76	Construction quality		
Wind speed (mph)	15.0	7.5	Average		
			Fireplaces		
			0		

**Construction descriptions**

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft²	Btuh/ft²-°F	ft²-°F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	48	0.091	13.0	3.17	152	1.38	66
<b>Partitions</b>								
(none)								
<b>Windows</b>								
(none)								
<b>Doors</b>								
(none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		116	0.032	30.0	1.11	129	1.70	197
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		6	0.989	0	34.4	207	0	0



**Component Constructions**  
*wic2*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
**By:** DL Williams Heating & C...  
**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

**Construction descriptions**

	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
<b>Walls</b> 12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	40	0.091	13.0	3.17	127	1.38	55
<b>Partitions</b> (none)								
<b>Windows</b> (none)								
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		30	0.032	30.0	1.11	33	1.70	51
<b>Floors</b> 22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		5	0.989	0	34.4	172	0	0



**Component Constructions**  
*wic1*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
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**Plan:** 2169

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**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

**Construction descriptions**

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft²	Btuh/ft²-°F	ft²-°F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
<b>Walls</b>								
12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	40	0.091	13.0	3.17	127	1.38	55
<b>Partitions</b>								
(none)								
<b>Windows</b>								
(none)								
<b>Doors</b>								
(none)								
<b>Ceilings</b>								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		30	0.032	30.0	1.11	33	1.70	51
<b>Floors</b>								
22A-vpl: Bg floor, light dry soil, on grade depth, vinyl flr fnsh		5	0.989	0	34.4	172	0	0



**Component Constructions**  
*hall2*  
**DL Williams Heating & Cooling L.L.C.**

**Job:** 1  
**Date:** May 05, 2022  
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**Plan:** 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Design Conditions**

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75
Elevation: 123 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		8.2	43.8
<b>Outdoor:</b>	<b>Heating</b>	<b>Cooling</b>	<b>Infiltration:</b>		
Drybulb (°F)	33	92	Method	Simplified	
Daily range (°F)	-	18 ( M )	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

**Construction descriptions**

	Or	Area	U-value	Insul R	Htg HTM	Loss	Clg HTM	Gain
		ft²	Btuh/ft²-°F	ft²-°F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
<b>Walls</b> (none)								
<b>Partitions</b> (none)								
<b>Windows</b> (none)								
<b>Doors</b> (none)								
<b>Ceilings</b> 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		30	0.032	30.0	1.11	33	1.70	51
<b>Floors</b> (none)								



# Project Summary

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

Notes:

## Design Information

Weather: Gainesville Regional, FL, US

### Winter Design Conditions

Outside db 33 °F  
 Inside db 68 °F  
 Design TD 35 °F

### Summer Design Conditions

Outside db 92 °F  
 Inside db 75 °F  
 Design TD 17 °F  
 Daily range M  
 Relative humidity 50 %  
 Moisture difference 44 gr/lb

### Heating Summary

Structure 23960 Btuh  
 Ducts 6714 Btuh  
 Central vent (0 cfm)  
 (none) 0 Btuh  
 Humidification 0 Btuh  
 Piping 0 Btuh  
 Equipment load 30674 Btuh

### Sensible Cooling Equipment Load Sizing

Structure 20607 Btuh  
 Ducts 8410 Btuh  
 Central vent (0 cfm)  
 (none) 0 Btuh  
 Blower 0 Btuh  
 Use manufacturer's data n  
 Rate/swing multiplier 0.97  
 Equipment sensible load 28204 Btuh

### Infiltration

Method Simplified  
 Construction quality Average  
 Fireplaces 0

### Latent Cooling Equipment Load Sizing

Structure 2628 Btuh  
 Ducts 1673 Btuh  
 Central vent (0 cfm)  
 (none) 0 Btuh  
 Equipment latent load 4302 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	2168	2168
Volume (ft <sup>3</sup> )	18064	18064
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	96	48

**Equipment Total Load (Sen+Lat)** 32506 Btuh  
 Req. total capacity at 0.70 SHR 3.4 ton

### Heating Equipment Summary

Make Trane  
 Trade TRANE  
 Model 4TWR6036H1  
 AHRI ref 7562981

Efficiency 9 HSPF  
 Heating input  
 Heating output 33000 Btuh @ 47°F  
 Temperature rise 29 °F  
 Actual air flow 1050 cfm  
 Air flow factor 0.034 cfm/Btuh  
 Static pressure 0.50 in H2O  
 Space thermostat  
 Capacity balance point = 32 °F

### Cooling Equipment Summary

Make Trane  
 Trade TRANE  
 Cond 4TWR6036H1  
 Coil TEM6A0C36H31  
 AHRI ref 7562981

Efficiency 13.0 EER, 16 SEER  
 Sensible cooling 24360 Btuh  
 Latent cooling 10440 Btuh  
 Total cooling 34800 Btuh  
 Actual air flow 1050 cfm  
 Air flow factor 0.036 cfm/Btuh  
 Static pressure 0.50 in H2O  
 Load sensible heat ratio 0.87

Backup:  
 Input = 9 kW, Output = 29745 Btuh, 100 AFUE

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





# AED Assessment

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

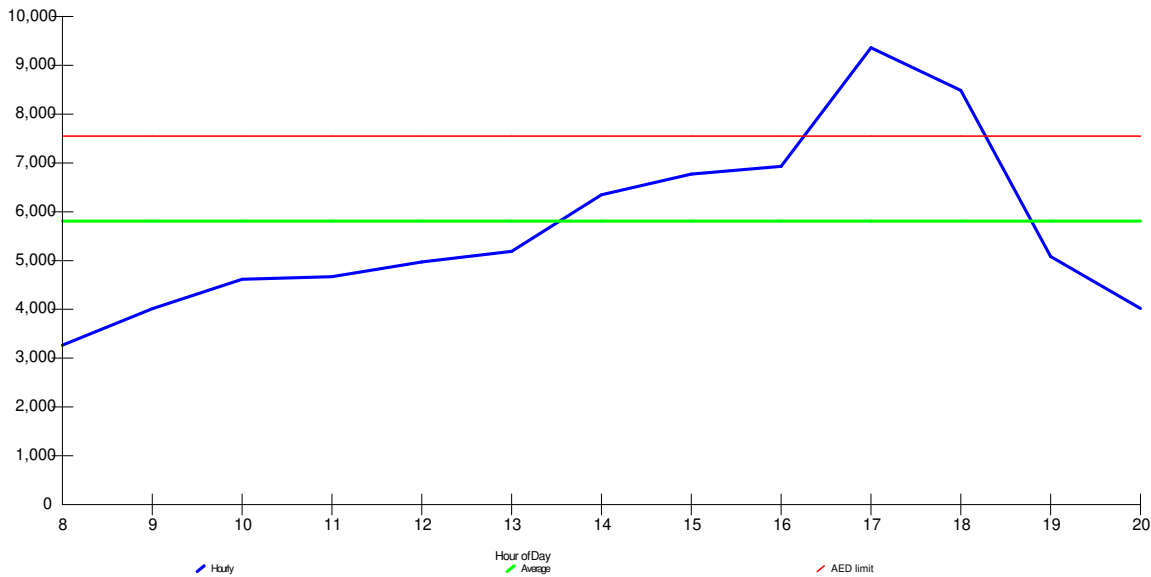
For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

## Design Conditions

<b>Location:</b>		<b>Indoor:</b>		<b>Heating</b>	<b>Cooling</b>	
Gainesville Regional, FL, US		Indoor temperature (°F)		68	75	
Elevation:	123 ft	Design TD (°F)		35	17	
Latitude:	30°N	Relative humidity (%)		30	50	
<b>Outdoor:</b>		<b>Heating</b>	<b>Cooling</b>	Moisture difference (gr/lb)	8.2	43.8
Drybulb (°F)		33	92	<b>Infiltration:</b>		
Daily range (°F)		-	18 ( M )			
Wet bulb (°F)		-	76			
Wind speed (mph)		15.0	7.5			

## Test for Adequate Exposure Diversity

Hourly Glazing Load



**Maximum hourly glazing load exceeds average by 61.1%.**

**House does not have adequate exposure diversity (AED), based on AED limit of 30%.**

**AED excursion: 1809 Btuh (PFG - 1.3\*AFG)**



# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

		Entire House							br2						
		204.0 ft							38.0 ft						
		8.3 ft							8.0 ft						
		2168.0 ft²							193.0 ft²						
		heat/cool							1.0 x 193.0 ft						
1	Room name														
	Exposed wall														
2	Room height														
3	Room dimensions														
4	Room area														
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-0bw	0.091	ne	3.17	1.38	392	371	1175	513	64	64	203	89	
	G	10D-v	0.470	ne	16.36	20.27	21	0	343	426	0	0	0	0	
	W	12C-0bw	0.091	se	3.17	1.38	320	224	709	310	104	89	282	123	
	G	10D-v	0.470	se	16.36	20.99	21	0	343	441	0	0	0	0	
	G	4A5-2ov	0.470	se	16.36	20.29	15	4	245	304	15	4	245	304	
	G	4A5-2ov	0.470	se	16.36	11.41	60	60	981	685	0	0	0	0	
	W	12C-0bw	0.091	sw	3.17	1.38	488	431	1365	596	136	136	431	188	
	G	10D-v	0.470	sw	16.36	16.53	21	9	343	347	0	0	0	0	
	G	4A5-2ov	0.470	sw	16.36	18.29	6	3	98	110	0	0	0	0	
	G	4A5-2ov	0.470	sw	16.36	20.29	30	8	491	609	0	0	0	0	
	W	12C-0bw	0.091	nw	3.17	1.38	480	324	1026	448	0	0	0	0	
	G	10D-v	0.470	nw	16.36	15.60	21	0	343	328	0	0	0	0	
	G	4A5-2ov	0.470	nw	16.36	22.29	60	0	981	1337	0	0	0	0	
	G	4A5-2ov	0.470	nw	16.36	22.29	75	0	1227	1672	0	0	0	0	
	C	16B-30ad	0.032	-	1.11	1.70	1808	1808	2013	3078	193	193	215	329	
	C	17B-6al	0.105	-	3.65	4.64	433	433	1581	2008	0	0	0	0	
	F	22A-vpl	0.989	-	34.42	0.00	2168	204	7021	0	193	38	1308	0	
6	c) AED excursion									1809				130	
	Envelope loss/gain								20288	15020			2683	1162	
12	a) Infiltration								3672	907			664	164	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230		6			1380	0			0	0	
			Appliances/other						3300				0	0	
	Subtotal (lines 6 to 13)								23960	20607			3348	1327	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			16	24	
14	Subtotal								23960	20607			3364	1351	
15	Duct loads						28%	41%	6714	8410	28%	41%	943	551	
	Total room load								30674	29017			4307	1902	
	Air required (cfm)								1050	1050			147	69	

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Room name				ah		bath								
2 Exposed wall				0 ft		6.0 ft								
3 Room height				8.0 ft		8.0 ft								
4 Room dimensions				4.0 x 4.0 ft		10.0 x 6.0 ft								
5 Room area				16.0 ft²		60.0 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-0bw	0.091	ne	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0	48	42	133	58
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	6	3	98	110
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.70	16	16	18	27	60	60	67	102
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	16	0	0	0	60	6	207	0
6	c) AED excursion													44
	Envelope loss/gain								18	26			504	314
12	a) Infiltration								0	0			105	26
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0			0	0			0	0
			Appliances/other						0	0			0	0
	Subtotal (lines 6 to 13)								18	26			609	340
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-18	-26			15	22
14	Subtotal								0	0			624	362
15	Duct loads						28%	41%	0	0	28%	41%	175	148
	Total room load								0	0			799	510
	Air required (cfm)								0	0			27	18

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Room name				br3				br4						
2 Exposed wall				11.0 ft				37.0 ft						
3 Room height				8.0 ft				8.0 ft						
4 Room dimensions				1.0 x 161.0 ft				1.0 x 190.0 ft						
5 Room area				161.0 ft <sup>2</sup>				190.0 ft <sup>2</sup>						
	Ty	Construction number	U-value (Btuh/ft <sup>2</sup> -°F)	Or	HTM (Btuh/ft <sup>2</sup> )		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0bw	0.091	ne	3.17	1.38	0	0	0	0	64	43	136	59
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	21	0	343	426
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	88	73	231	101	128	113	358	156
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	15	4	245	304	15	4	245	304
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	104	74	234	102
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	30	0	491	669
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.70	161	161	179	274	190	190	212	323
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	161	11	379	0	190	37	1273	0
6	c) AED excursion									125				299
	Envelope loss/gain								1034	804			3293	2339
12	a) Infiltration								192	48			647	160
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0			0	0			0	0
			Appliances/other						0	0			0	0
	Subtotal (lines 6 to 13)								1227	852			3940	2499
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								5	7			0	0
14	Subtotal								1231	859			3940	2499
15	Duct loads						28%	41%	345	350	28%	41%	1104	1020
	Total room load								1576	1209			5044	3519
	Air required (cfm)								54	44			173	127

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1	Room name				living				great					
	Exposed wall				10.0 ft				18.0 ft					
	Room height				8.0 ft				9.1 ft					
2	Room dimensions				10.0 x 12.0 ft				18.0 x 22.0 ft					
3	Room area				120.0 ft²				396.0 ft²					
4	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)	
5					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0bw	0.091	ne	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	80	50	158	69	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	30	30	491	342	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0	24	24	76	33
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	144	78	247	108
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	21	0	343	328
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	45	0	736	1003
	C	16B-30ad	0.032	-	1.11	1.70	120	120	134	204	180	180	200	306
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	260	260	949	1205
	F	22A-vpl	0.989	-	34.42	0.00	120	10	344	0	396	18	620	0
6	c) AED excursion													625
	Envelope loss/gain								1127	537			3171	3608
12	a) Infiltration								175	43			367	91
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230						2				460	2		460
	Appliances/other										900			900
	Subtotal (lines 6 to 13)								1302	1940			3538	5059
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								363	276			210	158
14	Subtotal								1665	2216			3749	5217
15	Duct loads						28%	41%	467	904	28%	41%	1050	2129
	Total room load								2132	3121			4799	7346
	Air required (cfm)								73	113			164	266

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1	Room name				kitchen				breakfast					
	Exposed wall				0 ft				9.0 ft					
	Room height				10.0 ft				8.0 ft					
3	Room dimensions				12.0 x 12.0 ft				9.0 x 10.0 ft					
5	Room area				144.0 ft²				90.0 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-0bw	0.091	ne	3.17	1.38	24	24	76	33	0	0	0	0
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	72	42	133	58
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	30	0	491	669
	C	16B-30ad	0.032	-	1.11	1.70	0	0	0	0	90	90	100	153
	C	17B-6al	0.105	-	3.65	4.64	173	173	632	803	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	144	0	0	0	90	9	310	0
6	c) AED excursion													365
	Envelope loss/gain								708	756			1034	1245
12	a) Infiltration								52	13			157	39
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other				230		1				230	0		0
										1000				0
	Subtotal (lines 6 to 13)								761	1999			1191	1284
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								5	7			6	9
14	Subtotal								765	2005			1197	1293
15	Duct loads						28%	41%	215	818	28%	41%	336	528
	Total room load								980	2824			1533	1820
	Air required (cfm)								34	102			52	66

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1	Room name				dining				foyer					
	Exposed wall				10.0 ft				7.0 ft					
	Room height				8.0 ft				8.0 ft					
2	Room dimensions				10.0 x 12.0 ft				7.0 x 12.0 ft					
3	Room area				120.0 ft²				84.0 ft²					
4	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-0bw	0.091	ne	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	80	50	158	69	56	35	111	48
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	21	0	343	441
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	30	30	491	342	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.70	120	120	134	204	84	84	94	143
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	120	10	344	0	84	7	241	0
6	c) AED excursion													9
	Envelope loss/gain								1127	581			789	642
12	a) Infiltration								175	43			122	30
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230						1				230	0		0
	Appliances/other										0			0
	Subtotal (lines 6 to 13)								1302	854			911	672
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								353	260			-911	-672
14	Subtotal								1654	1114			0	0
15	Duct loads						28%	41%	464	455	28%	41%	0	0
	Total room load								2118	1569			0	0
	Air required (cfm)								73	57			0	0

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1	Room name				utility				hall					
2	Exposed wall				0 ft				0 ft					
3	Room height				8.0 ft				8.0 ft					
4	Room dimensions				6.0 x 12.0 ft				9.0 x 4.0 ft					
5	Room area				72.0 ft²				36.0 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-0bw	0.091	ne	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.70	72	72	80	123	36	36	40	61
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	72	0	0	0	36	0	0	0
6	c) AED excursion									-24				-2
	Envelope loss/gain								80	98			40	59
12	a) Infiltration								0	0			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:				Occupants @	230	0			0	0			0
					Appliances/other					500				0
	Subtotal (lines 6 to 13)								80	598			40	59
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								9	14			-40	-59
14	Subtotal								89	612			0	0
15	Duct loads						28%	41%	25	250	28%	41%	0	0
	Total room load								114	862			0	0
	Air required (cfm)								4	31			0	0

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Room name				mbed		mbath								
2 Exposed wall				42.0 ft		6.0 ft								
3 Room height				8.0 ft		8.0 ft								
4 Room dimensions				20.0 x 14.0 ft		1.0 x 116.0 ft								
5 Room area				280.0 ft²		116.0 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-0bw	0.091	ne	3.17	1.38	112	112	355	155	48	48	152	66
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	64	43	136	59	0	0	0	0
	G	10D-v	0.470	sw	16.36	16.53	21	9	343	347	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	160	130	412	180	0	0	0	0
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	30	0	491	669	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.70	280	280	312	477	116	116	129	197
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	280	42	1446	0	116	6	207	0
6	c) AED excursion									456				-11
	Envelope loss/gain								3494	2343			488	253
12	a) Infiltration								734	181			105	26
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								4228	2524			593	279
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								14	20			6	9
14	Subtotal								4242	2545			599	288
15	Duct loads						28%	41%	1189	1038	28%	41%	168	117
	Total room load								5431	3583			767	405
	Air required (cfm)								186	130			26	15

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1	Room name				wic2				wic1					
	Exposed wall				5.0 ft				5.0 ft					
	Room height				8.0 ft				8.0 ft					
3	Room dimensions				6.0 x 5.0 ft				6.0 x 5.0 ft					
4	Room area				30.0 ft²				30.0 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-0bw	0.091	ne	3.17	1.38	40	40	127	55	40	40	127	55
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0	0	0	0	0
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.70	30	30	33	51	30	30	33	51
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0	0	0	0	0
	F	22A-vpl	0.989	-	34.42	0.00	30	5	172	0	30	5	172	0
6	c) AED excursion									-5				-5
	Envelope loss/gain								332	101			332	101
12	a) Infiltration								87	22			87	22
	b) Room ventilation								0	0			0	0
13	Internal gains:				Occupants @	230	0		0	0	0		0	0
					Appliances/other				0	0			0	0
	Subtotal (lines 6 to 13)								420	123			420	123
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								420	123			420	123
15	Duct loads						28%	41%	118	50	28%	41%	118	50
	Total room load								537	173			537	173
	Air required (cfm)								18	6			18	6

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





# Right-J® Worksheet

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & Cooling  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

1 Room name				hall2										
2 Exposed wall				0 ft										
3 Room height				8.0 ft				heat/cool						
4 Room dimensions				3.0		x		10.0 ft						
5 Room area				30.0 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-0bw	0.091	ne	3.17	1.38	0	0	0	0				
	G	10D-v	0.470	ne	16.36	20.27	0	0	0	0				
	W	12C-0bw	0.091	se	3.17	1.38	0	0	0	0				
	G	10D-v	0.470	se	16.36	20.99	0	0	0	0				
11	G	4A5-2ov	0.470	se	16.36	20.29	0	0	0	0				
	G	4A5-2ov	0.470	se	16.36	11.41	0	0	0	0				
	W	12C-0bw	0.091	sw	3.17	1.38	0	0	0	0				
	G	10D-v	0.470	sw	16.36	16.53	0	0	0	0				
	G	4A5-2ov	0.470	sw	16.36	18.29	0	0	0	0				
	G	4A5-2ov	0.470	sw	16.36	20.29	0	0	0	0				
	W	12C-0bw	0.091	nw	3.17	1.38	0	0	0	0				
	G	10D-v	0.470	nw	16.36	15.60	0	0	0	0				
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0				
	G	4A5-2ov	0.470	nw	16.36	22.29	0	0	0	0				
	C	16B-30ad	0.032	-	1.11	1.70	30	30	33	51				
	C	17B-6al	0.105	-	3.65	4.64	0	0	0	0				
	F	22A-vpl	0.989	-	34.42	0.00	30	0	0	0				
6	c) AED excursion													
	Envelope loss/gain								33	49				
12	a) Infiltration								0	0				
	b) Room ventilation								0	0				
13	Internal gains:		Occupants @	230			0			0				
			Appliances/other							0				
	Subtotal (lines 6 to 13)								33	49				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								-33	-49				
14	Subtotal								0	0				
15	Duct loads						28%	41%	0	0				
	Total room load								0	0				
	Air required (cfm)								0	0				

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





# Duct system multi orientation report

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

Group 1: ( N, S) Group 2: (NE, E) Group 3: (SE) Group 4: (SW, W) Group 5: (NW)

Duct Name	(N)			(NE)			(E)			(SE)		
	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size
Supply Branches												
bath	28 c	10x6	4	27 h	10x6	4	27 h	10x6	4	27 h	10x6	4
br2	147 h	10x6	6	147 h	10x6	6	147 h	10x6	6	147 h	10x6	6
br3	64 c	10x6	5	54 h	10x6	5	54 h	10x6	5	54 h	10x6	5
br4	173 h	10x6	7	173 h	10x6	7	173 h	10x6	7	173 h	10x6	7
breakfast	52 h	10x6	5	66 c	10x6	5	68 c	10x6	5	57 c	10x6	5
dining	73 h	10x6	5	73 h	10x6	5	73 h	10x6	5	75 c	10x6	6
great	114 c	10x6	6	133 c	10x6	7	138 c	10x6	7	126 c	10x6	7
great-A	114 c	10x6	6	133 c	10x6	7	138 c	10x6	7	126 c	10x6	7
kitchen	122 c	10x6	7	102 c	10x6	6	103 c	10x6	6	106 c	10x6	6
living	130 c	10x6	6	113 c	10x6	6	117 c	10x6	6	133 c	10x6	6
mbath	26 h	10x6	4	26 h	10x6	4	26 h	10x6	4	26 h	10x6	4
mbed	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6
mbed-A	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6
utility	37 c	10x6	5	31 c	10x6	4	31 c	10x6	4	32 c	10x6	4
wic1	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4
wic2	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4
Supply Trunks												
st1	309 h		9	309 h		9	309 h		9	309 h		9
st5	253 h		9	253 h		9	253 h		9	253 h		9
st4	253 h		9	253 h		9	253 h		9	253 h		9
st3	527 c		12	546 c		12	557 c		12	537 c		12
st2	527 c		12	546 c		12	557 c		12	537 c		12
Return Branches												
rb1	1050 c	30x20	0x0	1050 c	30x20	0x0	1050 c	30x20	0x0	1050 c	30x20	0x0
Friction Rates												
Heating FR	0.178			0.178			0.178			0.178		
Cooling FR	0.178			0.178			0.178			0.178		

# Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

Duct Name	(S)			(SW)			(W)			(NW)		
	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size
<b>Supply Branches</b>												
bath	27 h	10x6	4	27 h	10x6	4	27 h	10x6	4	27 h	10x6	4
br2	147 h	10x6	6	147 h	10x6	6	147 h	10x6	6	147 h	10x6	6
br3	60 c	10x6	5	54 h	10x6	5	54 h	10x6	5	54 h	10x6	5
br4	173 h	10x6	7	173 h	10x6	7	173 h	10x6	7	173 h	10x6	7
breakfast	52 h	10x6	5	52 h	10x6	5	52 h	10x6	5	52 h	10x6	5
dining	73 h	10x6	5	102 c	10x6	6	106 c	10x6	6	88 c	10x6	6
great	116 c	10x6	6	105 c	10x6	6	109 c	10x6	6	119 c	10x6	6
great-A	116 c	10x6	6	105 c	10x6	6	109 c	10x6	6	119 c	10x6	6
kitchen	124 c	10x6	7	110 c	10x6	6	109 c	10x6	6	107 c	10x6	6
living	131 c	10x6	6	163 c	10x6	7	165 c	10x6	7	147 c	10x6	6
mbath	26 h	10x6	4	26 h	10x6	4	26 h	10x6	4	26 h	10x6	4
mbed	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6
mbed-A	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6	93 h	10x6	6
utility	38 c	10x6	5	34 c	10x6	4	33 c	10x6	4	33 c	10x6	4
wic1	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4
wic2	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4	18 h	10x6	4
<b>Supply Trunks</b>												
st1	309 h		9	309 h		9	309 h		9	309 h		9
st5	253 h		9	253 h		9	253 h		9	253 h		9
st4	253 h		9	253 h		9	253 h		9	253 h		9
st3	526 c		12	538 c		12	538 c		12	533 c		12
st2	526 c		12	538 c		12	538 c		12	533 c		12
<b>Return Branches</b>												
rb1	1050 c	30x20	0x0	1050 c	30x20	0x0	1050 c	30x20	0x0	1050 c	30x20	0x0
<b>Friction Rates</b>												
Heating FR	0.178			0.178			0.178			0.178		
Cooling FR	0.178			0.178			0.178			0.178		



## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

Duct Name	Largest			Smallest		
	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size
<b>Supply Branches</b>						
bath	28 c	10x6	4	27 h	10x6	4
br2	147 h	10x6	6	147 h	10x6	6
br3	64 c	10x6	5	54 h	10x6	5
br4	173 h	10x6	7	173 h	10x6	7
breakfast	68 c	10x6	5	52 h	10x6	5
dining	106 c	10x6	6	73 h	10x6	5
great	138 c	10x6	7	105 c	10x6	6
great-A	138 c	10x6	7	105 c	10x6	6
kitchen	124 c	10x6	7	102 c	10x6	6
living	165 c	10x6	7	113 c	10x6	6
mbath	26 h	10x6	4	26 h	10x6	4
mbed	93 h	10x6	6	93 h	10x6	6
mbed-A	93 h	10x6	6	93 h	10x6	6
utility	38 c	10x6	5	31 c	10x6	4
wic1	18 h	10x6	4	18 h	10x6	4
wic2	18 h	10x6	4	18 h	10x6	4
<b>Supply Trunks</b>						
st1	309 h		9	309 h		9
st5	253 h		9	253 h		9
st4	253 h		9	253 h		9
st3	557 c		12	526 c		12
st2	557 c		12	526 c		12
<b>Return Branches</b>						
rb1	1050 c	30x20	0x0	1050 c	30x20	0x0
<b>Friction Rates</b>						
Heating FR	0.178			0.178		
Cooling FR	0.178			0.178		



## Background Color Legend

### Yellow background

Duct Size - duct size is smaller than the largest duct size in the row

Reg Size - register size is smaller than the largest register size in the row

Reg CFM - register design cfm is larger than 150 CFM

Friction Rate - friction rate is outside ACCA Manual-D recommended range (0.06 - 0.18)

### Pink background column header

Largest cooling load orientation



**Static Pressure and Friction Rate**  
*Entire House*  
**DL Williams Heating & Cooling L.L.C.**

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

**Project Information**

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

**Available Static Pressure**

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0.50	0.50
Pressure losses		
Coil	0	0
Heat exchanger	0	0
Supply diffusers	0	0
Return grilles	0	0
Filter	0	0
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0.50	0.50

**Total Effective Length**

	Supply (ft)	Return (ft)
Measured length of run-out	13	4
Measured length of trunk	39	0
Equivalent length of fittings	155	70
Total length	207	74
Total effective length		281

**Friction Rate**

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0.178	OK	0.178	OK
Return Ducts	0.178	OK	0.178	OK

**Fitting Equivalent Length Details**

Supply 4AD=60, 11A=20, 11I=10, 11A=20, 11I=10, 1A=35: TotalEL=155  
 Return 6M=20, 11I=10, 5A=40: TotalEL=70



# Duct System Summary

## Entire House

### DL Williams Heating & Cooling L.L.C.

Job: 1  
 Date: May 05, 2022  
 By: DL Williams Heating & C...  
 Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
 Lake City, FL 32055

	<b>Heating</b>	<b>Cooling</b>
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.50 in H2O	0.50 in H2O
Supply / return available pressure	0.368 / 0.132 in H2O	0.368 / 0.132 in H2O
Lowest friction rate	0.178 in/100ft	0.178 in/100ft
Actual air flow	1050 cfm	1050 cfm
Total effective length (TEL)		281 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	h 799	27	18	0.438	4.0	0x0	VIFx	4.1	80.0	
br2	h 4307	147	69	0.371	6.0	0x0	VIFx	4.2	95.0	
br3	h 1576	54	44	0.245	5.0	0x0	VIFx	15.4	135.0	st1
br4	h 5044	173	127	0.231	7.0	0x0	VIFx	24.3	135.0	st1
breakfast	c 1820	52	66	0.230	5.0	0x0	VIFx	35.1	125.0	st3
dining	h 2118	73	57	0.239	5.0	0x0	VIFx	29.0	125.0	st3
great	c 3673	82	133	0.239	7.0	0x0	VIFx	19.1	135.0	st1
great-A	c 3673	82	133	0.244	7.0	0x0	VIFx	26.2	125.0	st3
kitchen	c 2824	34	102	0.235	6.0	0x0	VIFx	31.8	125.0	st3
living	c 3121	73	113	0.351	6.0	0x0	VIFx	9.8	95.0	
mbath	h 767	26	15	0.183	4.0	0x0	VIFx	46.0	155.0	st5
mbed	h 2716	93	65	0.182	6.0	0x0	VIFx	47.3	155.0	st5
mbed-A	h 2716	93	65	0.178	6.0	0x0	VIFx	52.1	155.0	st5
utility	c 862	4	31	0.188	4.0	0x0	VIFx	41.3	155.0	st5
wic1	h 537	18	6	0.180	4.0	0x0	VIFx	50.0	155.0	st5
wic2	h 537	18	6	0.178	4.0	0x0	VIFx	52.1	155.0	st5

## 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	309	304	0.231	699	9.0	0 x 0	VinIFlx	
st5	Peak AVF	253	188	0.178	572	9.0	0 x 0	VinIFlx	st4
st4	Peak AVF	253	188	0.178	572	9.0	0 x 0	VinIFlx	st3
st3	Peak AVF	493	546	0.178	695	12.0	0 x 0	VinIFlx	st2
st2	Peak AVF	493	546	0.178	695	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	1050	1050	74.0	0.178	540	12.5	20.00x14	10x56	SJSp	





# Manual S Compliance Report

Entire House

DL Williams Heating & Cooling L.L.C.

Job: 1  
Date: May 05, 2022  
By: DL Williams Heating & C...  
Plan: 2169

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Email: williamscoolingllc@gmail.com

## Project Information

For: Forest plantation Lot 26, Adams Homes plan 2169  
Lake City, FL 32055

## Cooling Equipment

### Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	29017 Btuh	Entering coil DB:	77.5°F
Outdoor design WB:	75.8°F	Latent gain:	4302 Btuh	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	33318 Btuh		
Indoor RH:	50%	Estimated airflow:	1050 cfm		

### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Trane	Model:	4TWR6036H1+TEM6A0C36H31	
Actual airflow:	1050 cfm			
Sensible capacity:	28952 Btuh	100% of load		
Latent capacity:	4514 Btuh	105% of load		
Total capacity:	33466 Btuh	100% of load	SHR:	87%

## Heating Equipment

### Design Conditions

Outdoor design DB:	33.2°F	Heat loss:	30674 Btuh	Entering coil DB:	66.9°F
Indoor design DB:	68.0°F				

### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Trane	Model:	4TWR6036H1+TEM6A0C36H31	
Actual airflow:	1050 cfm			
Output capacity:	25379 Btuh	83% of load		Capacity balance: 32 °F
Supplemental heat required:	5296 Btuh			Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	1050 cfm			
Output capacity:	8.7 kW	97% of load	Temp. rise:	50 °F

Meets all requirements of ACCA Manual S.





# Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form  
RPER 1  
15 Mar 09

## Columbia Header Information

Contractor: DL Williams Heating & Cooling L.L.C.  
Derrick Williams  
Mechanical license:  
Building plan #: 2169  
Home address (Street or Lot#, Block, Subdivision): , Entire House

REQUIRED ATTACHMENTS  
Manual J1 Form (and supporting worksheets): Yes  No   
or MJ1AE Form\* (and supporting worksheets): Yes  No   
OEM performance data (heating, cooling, blower): Yes  No   
Manual D Friction Rate Worksheet: Yes  No   
Duct distribution sketch: Yes  No

## HVAC LOAD CALCULATION (IRC M1401.3)

### Design Conditions

#### Winter Design Conditions

Outdoor temperature: 33 °F  
Indoor temperature: 68 °F  
Total heat loss: 30674 Btuh

#### Summer Design Conditions

Outdoor temperature: 92 °F  
Indoor temperature: 75 °F  
Grains difference: 44 gr/lb @50% RH  
Sensible heat gain: 29852 Btuh  
Latent heat gain: 4426 Btuh  
Total heat gain: 34278 Btuh

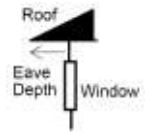
### Building Construction Information

#### Building

Orientation: Front Door faces South  
North, East, West, South, Northeast, Northwest, Southeast, Southwest  
Number of bedrooms: 0  
Conditioned floor area: 2168 ft<sup>2</sup>  
Number of occupants: 6

#### Windows

Eave overhang depth: 10.0 ft  
Internal shade: blinds  
Blinds, drapes, etc.  
Number of skylights: 0



## HVAC EQUIPMENT SELECTION (IRC M1401.3)

### Heating Equipment Data

Equipment type: Split ASHP  
Furnace, Heat pump, Boiler, etc.  
Model: Trane  
4TWR6036H1+TEM6A0C36H31  
Heating output capacity: 25379 Btuh  
Heat pumps - capacity at winter design outdoor conditions  
Aux. heating output capacity: 29745 Btuh

### Cooling Equipment Data

Equipment type: Split ASHP  
Air Conditioner, Heat pump, etc.  
Model: Trane  
4TWR6036H1+TEM6A0C36H31  
Total cooling capacity: 33466 Btuh  
Sensible cooling capacity: 28952 Btuh  
Latent cooling capacity: 4514 Btuh

### Blower Data

Heating cfm: 1050  
Cooling cfm: 1050  
Static pressure: 0.50 in H<sub>2</sub>O  
Fan's rated external static pressure for design airflow

## HVAC DUCT DISTRIBUTION SYSTEM DESIGN (IRC M1601.1)

Design airflow: 1050 cfm  
Equipment design ESP: 0.50 in H<sub>2</sub>O  
Total device pressure losses: 0 in H<sub>2</sub>O  
Available static pressure (ASP): 0.50 in H<sub>2</sub>O  
Longest supply duct: 207 ft  
Longest return duct: 74 ft  
Total effective length (TEL): 281 ft  
Friction rate: 0.178 in/100ft  
Friction Rate = ASP ÷ (TEL × 100)  
Duct Materials Used  
Trunk duct: Round flex vinyl  
Branch duct: Round flex vinyl, Stud/joist space

I declare the load calculation, equipment, equipment selection and duct design were rigorously performed based on the building plan listed above. I understand the claims made on these forms will be subject to review and verification.

Contractor's printed name: \_\_\_\_\_

Contractor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Reserved for County, Town Municipality or Authority having jurisdiction use.

\*Home qualifies for MJ1AE Form based on Abridged Edition Checklist



