

Project Summary

Entire House

GREENS SALES AND SERVICE

Job:
Date: Aug 19, 2021
By: Greens Sales and Service

5593 SW 28TH LANE, JASPER, FL 32052 Phone: 386-792-1179 Email: greensales2@windstream.net

Project Information

For: Brain and Heather Trujillo
Lake City, FL

Notes: For ChrisMills Homes

Design Information

Weather: Tallahassee Regional AP, FL, US

Winter Design Conditions

Outside db	29 °F
Inside db	70 °F
Design TD	41 °F

Summer Design Conditions

Outside db	94 °F
Inside db	75 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	42 gr/lb

Heating Summary

Structure	20952 Btuh
Ducts	10801 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	31754 Btuh

Sensible Cooling Equipment Load Sizing

Structure	28973 Btuh
Ducts	12727 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.99
Equipment sensible load	41282 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2357 Btuh
Ducts	2431 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Equipment latent load	4788 Btuh
Equipment Total Load (Sen+Lat)	46071 Btuh
Req. total capacity at 0.70 SHR	4.9 ton

	Heating	Cooling
Area (ft²)	2009	2009
Volume (ft³)	17899	17899
Air changes/hour	0.32	0.16
Equiv. A/VF (cfm)	95	48

Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	1725 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1725 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.90

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



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1 Name of Room					Bath 2					Bed2				
2 Running Feet of Exposed Wall					18.0 ft					23.0 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)					9.0 ft 360.0 ft²					9.0 ft 414.0 ft²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					11.0 x 9.0 ft 99.0 ft²					7.0 x 16.0 ft 112.0 ft²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)					0 ° 99.0 ft²					0 ° 112.0 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-0sw	n	3.73	2.32	81	280	174		144	537	334			
Wall	1D-c2ow	n	23.37	22.47	6	140	135		0	0	0			
Wall	12C-0sw	e	3.73	2.32	0	0	0		63	168	104			
Wall	1D-c2ow	e	23.37	64.56	0	0	0		18	421	1162			
Door	11D0	e	15.99	11.89	0	0	0		0	0	0			
Wall	12C-0sw	s	3.73	2.32	81	302	188		0	0	0			
Wall	1D-c2ow	s	23.37	26.43	0	0	0		0	0	0			
Wall	12C-0sw	w	3.73	2.32	0	0	0		0	0	0			
Wall	1D-c2ow	w	23.37	64.56	0	0	0		0	0	0			
Door	11D0	w	15.99	11.89	0	0	0		0	0	0			
Ceil	16B-30ad	-	1.31	1.73	99	130	171		112	147	194			
Flor	19C-19cscp	-	0.70	0.32	99	69	32		112	78	36			
12 Infiltration	Heating Load (Btuh)		Effect ACH		WAR 0.09	367			WAR 0.11	469				
	Sensible Load (Btuh)		0.16				85				109			
	Latent Load (Btuh)													
13 Internal	a Occupants at 230 and 200 Btuh b Scenario number c Default Adjustments d Custom Appliances e Plants				1	230	200	1	230	200				
14 Subtotals	Sum lines 6 through 12					1288	874			1819	2012			
15 Duct Loads	EHLF & ESGF		0.516	0.439		664	384			938	884			
	ELG							120				136		
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							-141				-156			
21 Total Load	Sum lines 13 through 19					1952	1257			2757	2896			

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



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5563 SW 28TH LANE, JASPER, FL 32052 Phone: 386-792-1179 Email: greensales2@windstream.net

1 Name of Room					Bed3 15.0 ft			Broom1 29.0 ft				
2 Running Feet of Exposed Wall					9.0 ft			8.0 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)					9.0 x 18.0 ft			13.0 x 14.0 ft				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					486.0 ft²			432.0 ft²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)					162.0 ft²			182.0 ft²				
					0 °			0 °				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Cig.		Heating	S-Cig	L-Cig		Heating	S-Cig	L-Cig
6 Wall	12C-0sw	n	3.73	2.32	18	67	42		112	418	260	
Wall	1D-c2ow	n	23.37	22.47	0	0	0		0	0	0	
Wall	12C-0sw	e	3.73	2.32	81	168	104		16	60	37	
Wall	1D-c2ow	e	23.37	64.56	36	841	2324		0	0	0	
Door	11D0	e	15.99	11.89	0	0	0		0	0	0	
Wall	12C-0sw	s	3.73	2.32	9	34	21		0	0	0	
Wall	1D-c2ow	s	23.37	26.43	0	0	0		0	0	0	
Wall	12C-0sw	w	3.73	2.32	27	101	63		104	272	169	
Wall	1D-c2ow	w	23.37	64.56	0	0	0		31	729	2014	
Door	11D0	w	15.99	11.89	0	0	0		0	0	0	
Ceil	16B-30ad	-	1.31	1.73	162	213	280		182	239	314	
Floor	19C-19cscp	-	0.70	0.32	162	113	52		182	127	59	
12 Infiltration	Heating Load (Btuh)		Effect ACH		0.32	306			WAR 0.12	525		
	Sensible Load (Btuh)				0.16		71			122		
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh b Scenario number c Default Adjustments d Custom Appliances e Plants				1		230	200	0		0	0
							0				0	
							0	0			0	0
								0				0
14 Subtotals	Sum lines 6 through 12					1842	3034			2369	3411	
15 Duct Loads	EHLF & ESGF		0.516	0.439		949	1333			1221	1498	
	ELG							196				220
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							-153				436	
21 Total Load	Sum lines 13 through 19					2791	4367			3590	4909	

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Job:
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5563 SW 28TH LANE, JASPER, FL 32052 Phone: 386-792-1179 Email: greensales2@windstream.net

1 Name of Room					great/kitchen					Office				
2 Running Feet of Exposed Wall					41.0 ft					17.0 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)					9.0 ft 1170.0 ft²					9.0 ft 540.0 ft²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					1.0 x 645.0 ft 645.0 ft²					12.0 x 18.0 ft 216.0 ft²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)					0 ° 645.0 ft²					0 ° 216.0 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 11	Wall	12C-0sw	n	3.73	2.32	81	302	188		18	67	42		
	Glaz	1D-c2ow	n	23.37	22.47	0	0	0		0	0	0		
	Wall	12C-0sw	e	3.73	2.32	63	157	97		108	269	167		
	Glaz	1D-c2ow	e	23.37	64.56	0	0	0		36	841	2324		
	Door	11D0	e	15.99	11.89	21	336	250		0	0	0		
	Wall	12C-0sw	s	3.73	2.32	0	0	0		27	101	63		
	Glaz	1D-c2ow	s	23.37	26.43	0	0	0		0	0	0		
	Wall	12C-0sw	w	3.73	2.32	225	497	309		0	0	0		
	Glaz	1D-c2ow	w	23.37	64.56	71	1655	4573		0	0	0		
	Door	11D0	w	15.99	11.89	21	336	250		0	0	0		
	Ceill	16B-30ad	-	1.31	1.73	645	846	1115		216	283	373		
Flor	19C-19cscp	-	0.70	0.32	645	449	208		216	150	70			
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.32	WAR 0.19	835			WAR 0.08	346			
		Sensible Load (Btuh)						194			80			
		Latent Load (Btuh)												
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0	0	
		b Scenario number						2000				0		
		c Default Adjustments												
		d Custom Appliances						900	0			0	0	
		e Plants							0				0	
14	Subtotals	Sum lines 6 through 12					5414	10610			2058	2975		
15	Duct Loads	EHLF & ESGF		0.516	0.439		2791	4660			1061	1307		
		ELG							780				261	
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							526				-143		
21	Total Load		Sum lines 13 through 19					8204	15270			3119	4282	

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5563 SW 28TH LANE, JASPER, FL 32052 Phone: 386-792-1179 Email: greensales2@windstream.net

1 Name of Room					mbed				Mbed			
2 Running Feet of Exposed Wall					13.0 ft				28.0 ft			
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)					9.0 ft				9.0 ft			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					16.0 x 13.0 ft				16.1 x 12.0 ft			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)					0 °				0 °			
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-0sw	n	3.73	2.32	0	0	0		0	0	0	
Wall	1D-c2ow	n	23.37	22.47	0	0	0		0	0	0	
Wall	12C-0sw	e	3.73	2.32	0	0	0		144	470	292	
Wall	1D-c2ow	e	23.37	64.56	0	0	0		18	421	1162	
Door	11D0	e	15.99	11.89	0	0	0		0	0	0	
Wall	12C-0sw	s	3.73	2.32	117	320	199		108	403	251	
Wall	1D-c2ow	s	23.37	26.43	31	729	825		0	0	0	
Wall	12C-0sw	w	3.73	2.32	0	0	0		0	0	0	
Wall	1D-c2ow	w	23.37	64.56	0	0	0		0	0	0	
Door	11D0	w	15.99	11.89	0	0	0		0	0	0	
Ceil	16B-30ad	-	1.31	1.73	208	273	359		192	252	332	
Flor	19C-19cscop	-	0.70	0.32	208	145	67		192	134	62	
12 Infiltration	Heating Load (Btuh)		Effect ACH		0.32	265			WAR 0.13	570		
	Sensible Load (Btuh)				0.16		61			132		
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				2	460	400	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					1732	1833			2250	2066	
15 Duct Loads	EHLF & ESGF		0.516	0.439		893	805			1160	907	
	ELG							252				234
16 Ventilation Loads	Vent Cf	0	E Cf	0								
17 Winter Humidification Load	Gal/Day		0									
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							-139				-165	
21 Total Load	Sum lines 13 through 19					2625	2638			3410	2973	

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

5593 SW 28TH LANE, JASPER, FL 32062 Phone: 386-792-1179 Email: greensales2@windstream.net

1 Name of Room 2 Running Feet of Exposed Wall 3 Ceiling Ht (ft) and Gross Wall Area (Sqft) 4 Room Dimensions (ft) and Floor Plan Area (Sqft) 5 Ceiling Slope (Deg.) and Gross Ceiling Area (Sqft)						Closet 8.0 ft 288.0 ft² 8.0 x 8.0 ft 64.0 ft² 0 °			Bathroom 0 ft 216.0 ft² 4.0 x 8.0 ft 32.0 ft² 0 °			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Ctg.		Heating	S-Ctg	L-Ctg		Heating	S-Ctg	L-Ctg
6 Wall └─ Glaz 11 Wall └─ Glaz └─ Door Wall └─ Glaz Wall └─ Glaz └─ Door Ceil Flor	12C-0sw 1D-c2ow 12C-0sw 1D-c2ow 11D0 12C-0sw 1D-c2ow 12C-0sw 1D-c2ow 11D0 16B-30ad 19C-19cscop	n n e e e s s w w w - -	3.73 23.37 3.73 23.37 15.99 3.73 23.37 3.73 23.37 15.99 1.31 0.70	2.32 22.47 2.32 64.56 11.89 2.32 26.43 2.32 64.56 11.89 1.73 0.32	0 0 0 0 0 72 0 0 0 0 64 64	0 0 0 0 0 269 0 0 0 0 84 45	0 0 0 0 0 167 0 0 0 0 111 21	0 0 0 0 0 0 0 0 0 0 32 32	0 0 0 0 0 0 0 0 0 0 42 22	0 0 0 0 0 0 0 0 0 0 55 10		
12 Infiltration	Heating Load (Btuh)		Effect ACH	0.32	WAR 0.04	163			WAR 0	0		
	Sensible Load (Btuh)					38				0		
	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					560	289			64	56	
15 Duct Loads	EHLF & ESGF		0.516	0.439		289	127			33	25	
	ELG							77				39
16 Ventilation Loads	Vent Cf m	0	E Cf m	0								
17 Winter Humidification Load	Gal/Day			0								
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							-47				-9	
21 Total Load	Sum lines 13 through 19					849	416			97	81	

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Entire House

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Date: Aug 19, 2021
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5583 SW 28TH LANE, JASPER, FL 32052 Phone: 386-792-1179 Email: greensales2@windstream.net

1 Name of Room						Entire House				Laundry			
2 Running Feet of Exposed Wall						214.0 ft				22.0 ft			
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)						8.9 ft 5301.6 ft²				9.0 ft 360.0 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						2009.0 ft²				12.0 x 8.0 ft 96.0 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)						0 ° 2008.0 ft²				0 ° 96.0 ft²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Cig.		Heating	S-Cig	L-Cig		Heating	S-Cig	L-Cig	
6 Wall	12C-0sw	n	3.73	2.32	472	1739	1081		18	67	42		
Wall	1D-c2ow	n	23.37	22.47	6	140	135		0	0	0		
Wall	12C-0sw	e	3.73	2.32	475	1291	803		0	0	0		
Wall	1D-c2ow	e	23.37	64.56	108	2524	6972		0	0	0		
11 Door	11D0	e	15.99	11.89	21	336	250		0	0	0		
Wall	12C-0sw	s	3.73	2.32	486	1697	1055		72	269	167		
Wall	1D-c2ow	s	23.37	26.43	31	729	825		0	0	0		
Wall	12C-0sw	w	3.73	2.32	464	1239	770		108	369	230		
Wall	1D-c2ow	w	23.37	64.56	111	2595	7168		9	210	581		
Door	11D0	w	15.99	11.89	21	336	250		0	0	0		
Ceiling	16B-30ad	-	1.31	1.73	2008	2634	3470		96	126	166		
Floor	19C-19cscop	-	0.70	0.32	2008	1398	648		96	67	31		
12 Infiltration	Heating Load (Btuh)		Effect ACH		0.32	WAR 1.00	4295		WAR 0.10	448			
	Sensible Load (Btuh)				0.16			995			104		
	Latent Load (Btuh)											1357	
13 Internal	a Occupants at 230 and 200 Btuh				5		1150	1000	0		0	0	
	b Scenario number						2500				500	0	
	c Default Adjustments												
	d Custom Appliances						900	0			0	0	
	e Plants							0				0	
14 Subtotals	Sum lines 6 through 12						20952	28973	2357		1557	1812	
15 Duct Loads	EHLF & ESGF		0.516	0.439			10801	12727			802	796	
	ELG							2431				116	
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							0				-8		
21 Total Load	Sum lines 13 through 19						31754	41699	4788		2359	2608	

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Project Information

For: Brain and Heather Trujillo
Lake City, FL

Notes: For ChrisMills Homes

Design Information

Weather: Tallahassee Regional AP, FL, US

Winter Design Conditions

Outside db	29 °F
Inside db	70 °F
Design TD	41 °F

Summer Design Conditions

Outside db	94 °F
Inside db	75 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	42 gr/lb

Heating Summary

Structure	20952 Btuh
Ducts	10801 Btuh
Central vent (0 cfm) (none)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	31754 Btuh

Sensible Cooling Equipment Load Sizing

Structure	28973 Btuh
Ducts	12727 Btuh
Central vent (0 cfm) (none)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.99
Equipment sensible load	41282 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2357 Btuh
Ducts	2431 Btuh
Central vent (0 cfm) (none)	0 Btuh
Equipment latent load	4788 Btuh
Equipment Total Load (Sen+Lat)	46071 Btuh
Req. total capacity at 0.70 SHR	4.9 ton

	Heating	Cooling
Area (ft²)	2009	2009
Volume (ft³)	17899	17899
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	95	48

Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	1725 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1725 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.90

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