

Project Information

For: Josh Vida Home, (personal)
 58388 Crossview Lane, Osceola, IN 46561
 Phone: 574-361-3933
 Email: joshvida@gmail.com

Notes: See assumptions page attached. Revisions per customer.

Design Information

Weather: Goshen Municipal, IN, US

Winter Design Conditions

Outside db **1** °F
 Inside db 70 °F
 Design TD 69 °F

Summer Design Conditions

Outside db 90 °F
 Inside db 75 °F
 Design TD 15 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 35 gr/lb

Heating Summary

Structure 12926 Btuh
 Ducts 0 Btuh
 Central vent (SER=50% 88 cfm) 3226 Btuh
 Heat recovery
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 16152 Btuh

Sensible Cooling Equipment Load Sizing

Structure 7212 Btuh
 Ducts 0 Btuh
 Central vent (SER=50% 88 cfm) 720 Btuh
 Heat recovery
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.95
 Equipment sensible load 7568 Btuh

Infiltration

Method Blower door
 Shielding / stories 3 (partial) / 1
 Pressure /ACH /AVF 50 Pa / 2.0 / 1228 cfm

Latent Cooling Equipment Load Sizing

Structure 602 Btuh
 Ducts 0 Btuh
 Central vent (88 cfm) 1997 Btuh
 Heat recovery
 Equipment latent load 2598 Btuh

	Heating	Cooling
Area (ft ²)	2670	2670
Volume (ft ³)	10225	10225
Air changes/hour	0.21	0.10
Equiv. AVF (cfm)	36	18

Equipment Total Load (Sen+Lat) 10166 Btuh
 Req. total capacity at 0.70 SHR 0.9 ton

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 338 cfm
 Air flow factor 0.026 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 338 cfm
 Air flow factor 0.047 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.75

Bold/italic values have been manually overridden

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

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Design Information

	Htg	Clg		Infiltration
Outside db (°F)	1	90	Method	Blower door
Inside db (°F)	70	75	Shielding / stories	3 (partial) / 1
Design TD (°F)	69	15	Pressure /ACH /AVF	50 Pa / 2.0 / 1228 cfm
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	52	35		

HEATING EQUIPMENT

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	338 cfm
Air flow factor	0.026 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	338 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.75

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Exercise	225	506	13	13	1
Recreation	1248	4871	2655	127	124
Office 2	156	1546	1557	40	73
b4 WIC	105	270	8	7	0
Bath 3	107	323	10	8	0
Bedroom 4	242	2289	1370	60	64
Crafts	138	1481	1043	39	49
Unfin Storage	333	1093	36	29	2
Utility	118	548	520	14	24

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Basement	d	2670	12926	7212	338	338
Other equip loads			3226	720		
Equip. @ 0.95 RSM				7568		
Latent cooling				2598		
TOTALS		2670	16152	10166	338	338

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Design Conditions

<p>Location: Goshen Municipal, IN, US Elevation: 830 ft Latitude: 42°N</p>			<p>Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)</p>	<p>Heating 70 69 50 51.7</p>	<p>Cooling 75 15 50 34.5</p>
<p>Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)</p>	<p>Heating 1 - - 15.0</p>	<p>Cooling 90 20 (M) 74 7.5</p>	<p>Infiltration: Method Shielding / stories Pressure /ACH /AVF</p>	<p>Blower door 3 (partial) / 1 50 Pa / 2.0 / 1228 cfm</p>	

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² °F	Insul R ft ² °F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls Bg wall, light dry soil, 2"x4" wood int frm, concrete wall, r-5 ins, r-15 cav ins, 8" thk, 5/8" gypsum board int fnsh	n	137	0.035	20.0	3.52	481	0.42	58
	n	250	0.022	20.0	1.80	450	0.07	18
	e	213	0.035	20.0	3.52	749	0.42	90
	e	18	0.022	20.0	1.80	32	0.07	1
	s	133	0.035	20.0	3.52	469	0.42	57
	s	398	0.022	20.0	1.80	717	0.07	28
Frm wall, vnl ext, 1/2" wood shth, r-23 cav ins, 5/8" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 24" o.c. stud	w	653	0.022	20.0	1.80	1175	0.07	46
	all	1801	0.022	20.0	2.26	4073	0.17	298
	n	201	0.036	30.6	2.48	499	0.42	84
15B15-0wc-8: Bg wall, light dry soil, 2"x4" wood int frm, concrete wall, r-4 ins, r-15 cav ins, 8" thk, 5/8" gypsum board int fnsh	e	264	0.036	30.6	2.48	656	0.42	110
	s	56	0.036	30.6	2.48	138	0.42	23
	all	521	0.036	30.6	2.48	1294	0.42	218
	w	5	0.047	15.0	3.56	16	0.11	0

Partitions (none)

Windows

4B5-2fc: 2 glazing, clr low-e outr, argon gas, clad wd frm mat, clr innr, 1/2" gap, 1/4" thk; NFRC rated (SHGC=0.28); 50% blinds 45°, medium; 2 ft overhang (4.5 ft window ht, 10 ft sep.); 8 ft head ht	e	14	0.190	0	13.1	177	25.9	349
4B5-2fc: 2 glazing, clr low-e outr, argon gas, clad wd frm mat, clr innr, 1/2" gap, 1/4" thk; NFRC rated (SHGC=0.28); 50% blinds 45°, medium; 12 ft overhang (4.5 ft window ht, 1 ft sep.); 8 ft head ht	e	14	0.190	0	13.1	177	7.00	95
Anderson 400 Clad: 2 glazing, clr low-e outr, argon gas, clad wd frm mat, clr innr, 1/2" gap, 1/4" thk; NFRC rated (SHGC=0.28); 50% blinds 45°, medium; 50% outdoor insect screen; 2 ft overhang (4.5 ft window ht, 10 ft sep.); 8 ft head ht	e	108	0.190	0	13.1	1416	23.3	2515

Anderson 400 Clad: 2 glazing, dr low-e outr, argon gas, clad wd frm mat, e 27 0.190 0 13.1 354 6.30 170
 dr innr, 1/2" gap, 1/4" thk; NFRC rated (SHGC=0.28); 50% blinds 45°,
 medium; 50% outdoor insect screen; 12 ft overhang (4.5 ft window ht, 1 ft
 sep.); 8 ft head ht

Doors
 (none)

Ceilings
 (none)

Floors
 21B-28t: Bg floor, light dry soil, full ext ins cov, 6.5' depth, r-10 ins, tile flr 2670 0.015 3.0 1.03 2764 0 0
 fnsh

Right-J® Worksheet

Basement

HVAC Consulting and Design

Job: Judah2201r1
 Date: Nov 15, 2022
 By: R Streeter
 Plan: Floor Plans on file

855 Orchard Road, Jasper, GA 30143 Phone: 706-669-5374 Fax: 866-266-2768 Email: Ralph@HVACConsultingDesign.com Web: www.HVACConsultingDesign.com

1		Room name				Basement				Exercise				
2		Exposed wall				276.5 ft				14.8 ft		heat/cool		
3		Room height				9.0 ft		d		9.0 ft				
4		Room dimensions								14.8		x 15.3 ft		
5		Room area				2670.3 ft²				224.9 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	Bg wall, light dry s	0.059	n	3.52	0.42	137	137	481	58	0	0	0	0
	W	Bq wall, light dry s	0.059	n	1.80	0.07	250	250	450	18	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	2.48	0.42	201	201	499	84	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	4A5-2ocd	0.190	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	e	3.52	0.42	213	213	749	90	0	0	0	0
	W	Bq wall, light dry s	0.059	e	1.80	0.07	18	18	32	1	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	2.48	0.42	426	264	656	110	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	25.87	14	0	177	349	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	7.00	14	14	177	95	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	23.29	108	0	1416	2515	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	6.30	27	27	354	170	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.280	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	s	3.52	0.42	133	133	469	57	0	0	0	0
	W	Bq wall, light dry s	0.059	s	1.80	0.07	398	398	717	28	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	2.48	0.42	56	56	138	23	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B15-0wc-8	0.088	w	3.56	0.11	5	5	16	0	0	0	0	0
	W	Bq wall, light dry s	0.059	w	1.80	0.07	653	653	1175	46	133	133	239	9
	W	Frm wall, vnl ext, 1	0.036	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	P	Frm wall, 5/8" gyp.b	0.037	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	Attic ceiling, aspha	0.017	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	21B-28t	0.015	-	1.03	0.00	2670	2670	2764	0	225	225	233	0
6	c) AED excursion									1148				0
	Envelope loss/gain								10271	4793			472	9
12	a) Infiltration								2655	290			34	4
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230	1				230	1900	0			0
			Appliances/other											0
	Subtotal (lines 6 to 13)								12926	7212			506	13
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								12926	7212			506	13
15	Duct loads								0%	0%			0	0
	Total room load								12926	7212			506	13
	Air required (cfm)								338	338			13	1

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



Right-J® Worksheet

Basement

HVAC Consulting and Design

Job: Judah2201r1
 Date: Nov 15, 2022
 By: R Streeter
 Plan: Floor Plans on file

855 Orchard Road, Jasper, GA 30143 Phone: 706-669-5374 Fax: 866-266-2768 Email: Ralph@HVACConsultingDesign.com Web: www.HVACConsultingDesign.com

1	Room name				Recreation 90.3 ft 9.0 ft heat/cool				Office 2 25.0 ft 9.0 ft heat/cool					
	Exposed wall				1.0 x 1248.1 ft				13.3 x 11.8 ft					
	Room height				1248.1 ft²				155.7 ft²					
2	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)	
3					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
4														
5														
6	W	Bg wall, light dry s	0.059	n	3.52	0.42	28	28	98	12	35	35	124	15
	W	Bq wall, light dry s	0.059	n	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	2.48	0.42	56	56	138	23	71	71	175	29
	W	Frm wall, vnl ext, 1	0.036	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	4A5-2ocd	0.190	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	e	3.52	0.42	96	96	337	41	40	40	140	17
	W	Bq wall, light dry s	0.059	e	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	2.48	0.42	192	111	276	46	80	53	130	22
	G	4B5-2fc	0.190	e	13.11	25.87	14	0	177	349	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	7.00	14	14	177	95	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	23.29	27	0	354	629	27	0	354	629
	G	Anderson 400 Clad	0.190	e	13.11	6.30	27	27	354	170	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.280	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	s	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	s	1.80	0.07	216	216	389	15	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	2.48	0.42	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B15-0wc-8	0.088	w	3.56	0.11	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	w	1.80	0.07	225	225	405	16	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	P	Frm wall, 5/8" gyp.b	0.037	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	Attic ceiling, aspha	0.017	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	21B-28t	0.015	-	1.03	0.00	1248	1248	1292	0	156	156	161	0
6	c) AED excursion									264				295
	Envelope loss/gain								3997	1660			1085	1007
12	a) Infiltration								874	95			461	50
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ 230						0			0	0			0
	Appliances/other									900				500
	Subtotal (lines 6 to 13)								4871	2655			1546	1557
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								4871	2655			1546	1557
15	Duct loads						-0%	0%	0	0	-0%	0%	0	0
	Total room load								4871	2655			1546	1557
	Air required (cfm)								127	124			40	73

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



Right-J® Worksheet

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1		Room name				b4 WIC				Bath 3				
2		Exposed wall				9.0 ft		8.8 ft		9.0 ft		11.5 ft		
3		Room height				1.0		x		104.5 ft		heat/cool		
4		Room dimensions				104.5 ft²				106.5 ft²				
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	Bg wall, light dry s	0.059	n	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	n	1.80	0.07	61	61	109	4	86	86	154	6
	W	Frm wall, vnl ext, 1	0.036	n	2.48	0.42	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	4A5-2ocd	0.190	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	e	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	e	1.80	0.07	0	0	0	0	18	18	32	1
	W	Frm wall, vnl ext, 1	0.036	e	2.48	0.42	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	25.87	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	7.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	23.29	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	6.30	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.280	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	s	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	s	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	2.48	0.42	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B15-0wc-8	0.088	w	3.56	0.11	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	w	1.80	0.07	18	18	32	1	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	P	Frm wall, 5/8" gyp.b	0.037	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	Attic ceiling, aspha	0.017	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	21B-28t	0.015	-	1.03	0.00	105	105	108	0	107	107	110	0
6	c) AED excursion									0				0
	Envelope loss/gain									250	6		297	7
12	a) Infiltration									20	2		27	3
	b) Room ventilation									0	0		0	0
13	Internal gains:		Occupants @		230		0			0	0		0	0
			Appliances/other							0			0	0
	Subtotal (lines 6 to 13)									270	8		323	10
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									0	0		0	0
14	Subtotal									270	8		323	10
15	Duct loads									0	0		0	0
	Total room load									270	8		323	10
	Air required (cfm)									7	0		8	0

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



Right-J® Worksheet
Basement
HVAC Consulting and Design

Job: Judah2201r1
Date: Nov 15, 2022
By: R Streeter
Plan: Floor Plans on file

855 Orchard Road, Jasper, GA 30143 Phone: 706-669-5374 Fax: 866-266-2768 Email: Ralph@HVACConsultingDesign.com Web: www.HVACConsultingDesign.com

1		Room name				Bedroom 4				Crafts				
2		Exposed wall				39.8 ft				23.5 ft				
3		Room height				9.0 ft		heat/cool		9.0 ft		heat/cool		
4		Room dimensions				14.0 x 17.3 ft				11.8 x 11.8 ft				
5		Room area				241.5 ft²				138.1 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	Bg wall, light dry s	0.059	n	3.52	0.42	74	74	259	31	0	0	0	0
	W	Bq wall, light dry s	0.059	n	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	2.48	0.42	75	75	186	31	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	4A5-2ocd	0.190	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	e	3.52	0.42	42	42	148	18	35	35	124	15
	W	Bq wall, light dry s	0.059	e	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	2.48	0.42	84	57	142	24	71	44	108	18
	G	4B5-2fc	0.190	e	13.11	25.87	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	7.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	23.29	27	0	354	629	27	0	354	629
	G	Anderson 400 Clad	0.190	e	13.11	6.30	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.280	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	s	3.52	0.42	28	28	97	12	106	106	372	45
	W	Bq wall, light dry s	0.059	s	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	2.48	0.42	56	56	138	23	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B15-0wc-8	0.088	w	3.56	0.11	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	w	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	P	Frm wall, 5/8" gyp.b	0.037	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	Attic ceiling, aspha	0.017	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	21B-28t	0.015	-	1.03	0.00	242	242	250	0	138	138	143	0
6	c) AED excursion									295				295
	Envelope loss/gain								1574	1062			1101	1001
12	a) Infiltration								715	78			379	41
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230	1				230	0			0	0
			Appliances/other						0				0	0
	Subtotal (lines 6 to 13)								2289	1370			1481	1043
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2289	1370			1481	1043
15	Duct loads								0	0	-0%	0%	0	0
	Total room load								2289	1370			1481	1043
	Air required (cfm)								60	64			39	49

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



Right-J® Worksheet

Basement

HVAC Consulting and Design

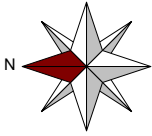
Job: Judah2201r1
 Date: Nov 15, 2022
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855 Orchard Road, Jasper, GA30143 Phone: 706-669-5374 Fax: 866-266-2768 Email: Ralph@HVACConsultingDesign.com Web: www.HVACConsultingDesign.com

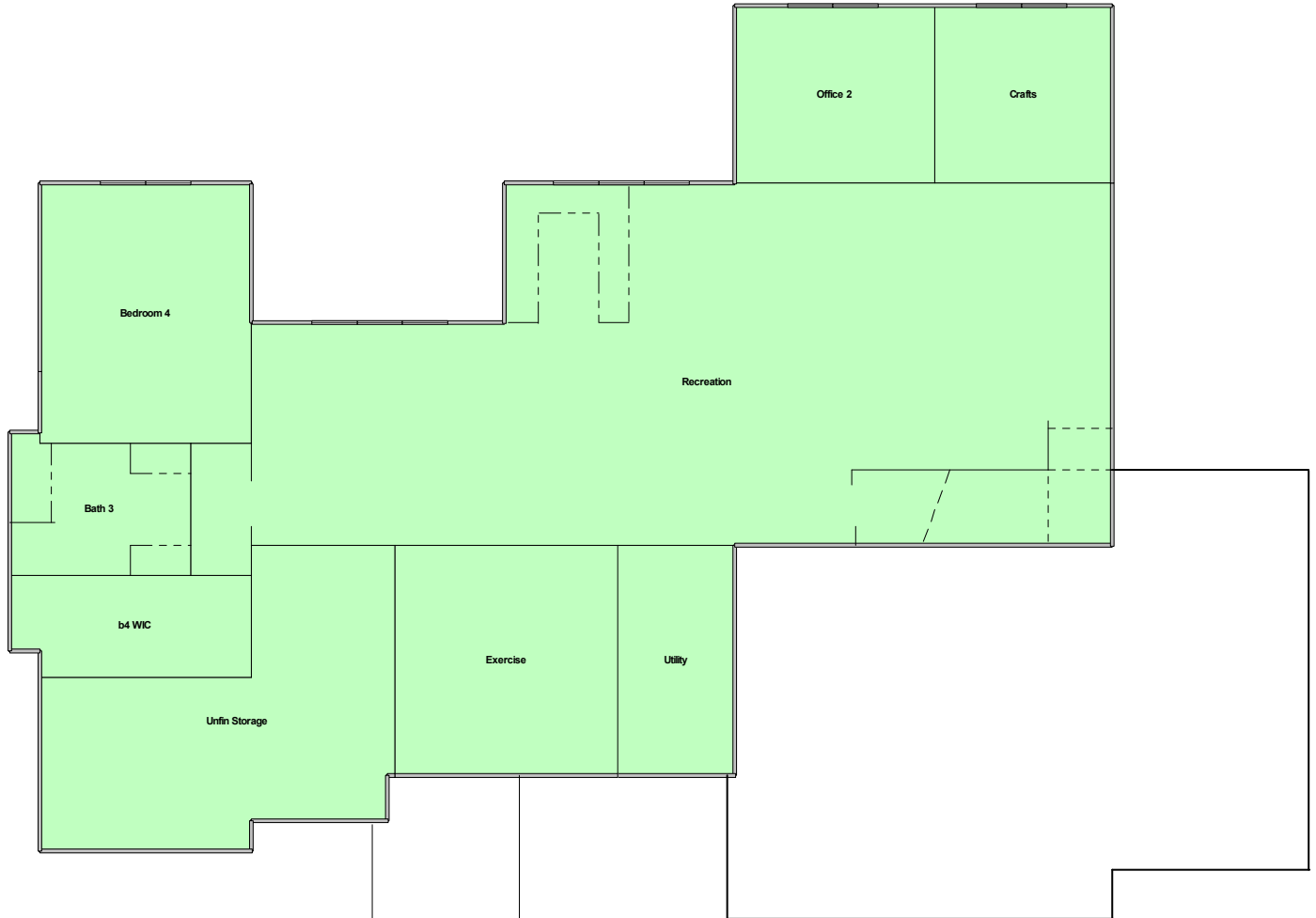
1		Room name				Unfin Storage				Utility				
2		Exposed wall				40.0 ft				23.0 ft				
3		Room height				9.0 ft		heat/cool		9.0 ft		heat/cool		
4		Room dimensions				1.0 x 332.9 ft				7.8 x 15.3 ft				
5		Room area				332.9 ft²				118.2 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	Bg wall, light dry s	0.059	n	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	n	1.80	0.07	104	104	186	7	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	2.48	0.42	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	4A5-2ocd	0.190	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	e	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	e	1.80	0.07	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	2.48	0.42	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	25.87	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	13.11	7.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	23.29	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	13.11	6.30	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.280	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	Bg wall, light dry s	0.059	s	3.52	0.42	0	0	0	0	0	0	0	0
	W	Bq wall, light dry s	0.059	s	1.80	0.07	45	45	81	3	137	137	247	10
	W	Frm wall, vnl ext, 1	0.036	s	2.48	0.42	0	0	0	0	0	0	0	0
	W	Frm wall, vnl ext, 1	0.036	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B15-0wc-8	0.088	w	3.56	0.11	5	5	16	0	0	0	0	0
	W	Bq wall, light dry s	0.059	w	1.80	0.07	207	207	373	15	70	70	126	5
	W	Frm wall, vnl ext, 1	0.036	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	4B5-2fc	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	Anderson 400 Clad	0.190	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	P	Frm wall, 5/8" gyp.b	0.037	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	Attic ceiling, aspha	0.017	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	21B-28t	0.015	-	1.03	0.00	333	333	345	0	118	118	122	0
6	c) AED excursion									0				0
	Envelope loss/gain									1001	26		495	15
12	a) Infiltration									92	10		53	6
	b) Room ventilation									0	0		0	0
13	Internal gains:		Occupants @	230		0				0	0			0
			Appliances/other							0				500
	Subtotal (lines 6 to 13)									1093	36		548	520
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									0	0		0	0
14	Subtotal									1093	36		548	520
15	Duct loads									0	0		0	0
	Total room load									1093	36		548	520
	Air required (cfm)									29	2		14	24

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





Basement



Job #: Judah2201r1
Performed by R Streeter for:

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