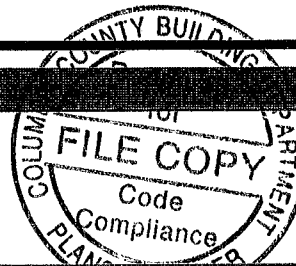


Project Information

For: Roger Whiddon



Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	52		

HEATING EQUIPMENT

Make	
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	14.7 kW
Heating output	50265 Btuh
Temperature rise	28 °F
Actual air flow	1637 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	15 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1637 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Laundry	104	1670	3194	72	132
Master	211	3955	4543	170	187
Mbath	190	2745	1804	118	74
Walk in	80	302	317	13	13
Bath4	72	697	439	30	18
Bed 2	168	3596	2986	154	123
Office	156	3584	2973	154	123
Mechanical	24	0	0	0	0
Hall	122	0	0	0	0
Room15	408	6520	5110	280	211
kitchen Nook	418	7047	9959	302	411
Bath 3	35	490	286	21	12
Hobby	110	2380	2875	102	119
Closet	48	580	348	25	14
Bath2	64	1799	1350	77	56
Bed 3	184	2795	3484	120	144

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

Entire House	d	2394	38160	39668	1637	1637
Other equip loads			0	0		
Equip. @ 0.97 RSM				38478		
Latent cooling				5004		
TOTALS		2394	38160	43482	1637	1637

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

Project Information

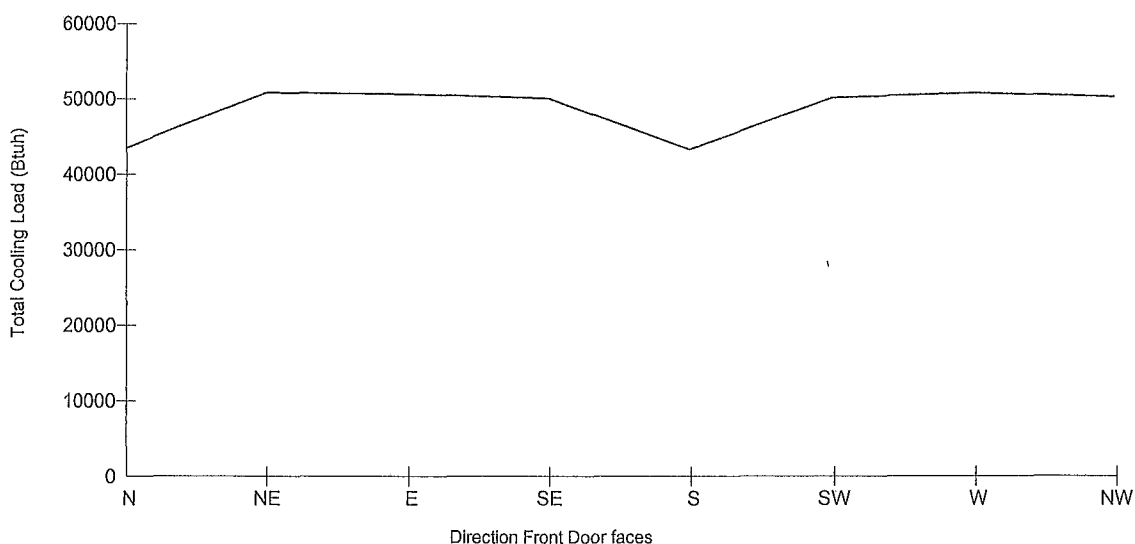
For: Roger Whiddon

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation: 151 ft		Design TD (°F)		37	17
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		32.8	52.0
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)	33	92			
Daily range (°F)	-	19 (M)			
Wet bulb (°F)	-	77			
Wind speed (mph)	15.0	7.5			

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	38478	45235	45003	44496	38314	44567	45149	44640
Latent Load (Btuh)	5004	5601	5599	5594	5002	5594	5599	5594
Total Load (Btuh)	43482	50836	50602	50089	43316	50161	50748	50234
Heating AVF (cfm)	1637	1919	1912	1887	1630	1892	1918	1895
Cooling AVF (cfm)	1637	1919	1912	1887	1630	1892	1918	1895

Building Orientation Cooling Load



Current Orientation: Front Door faces North
Highest Cooling Load: Front Door faces Northeast

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

Project Information

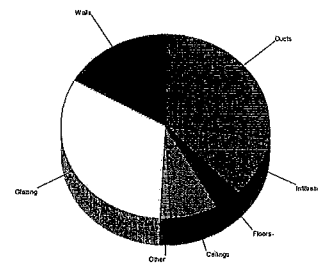
For Roger Whiddon

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation: 151 ft		Design TD (°F)		37	17
Latitude: 30°N		Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb) <td>32.8</td> <td>52.0</td>		32.8	52.0
		Heating	Cooling		
Dry bulb (°F)		33	92		
Daily range (°F)		-	19 (M)		
Wet bulb (°F)		-	77		
Wind speed (mph)		15.0	7.5		
		Infiltration:			
		Method		Simplified	
		Construction quality		Average	
		Fireplaces		0	

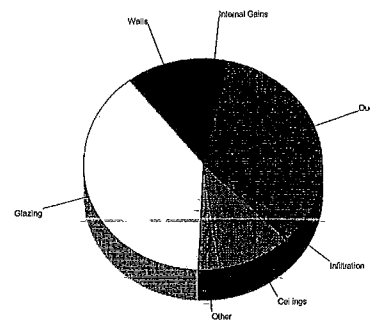
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	6350	16.6
Glazing	47.0	12405	32.5
Doors	14.4	606	1.6
Ceilings	1.2	2834	7.4
Floors	0.6	1505	3.9
Infiltration	1.9	4135	10.8
Ducts		10325	27.1
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		38160	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.2	4145	10.4
Glazing	58.3	15399	38.8
Doors	11.4	477	1.2
Ceilings	1.7	4033	10.2
Floors	0.3	691	1.7
Infiltration	0.4	950	2.4
Ducts		12742	32.1
Ventilation		0	0
Internal gains		1230	3.1
Blower		0	0
Adjustments		0	0
Total		39668	100.0



Latent Cooling Load = 5004 Btuh
Overall U-value = 0.103 Btuh/ft²·°F

Data entries checked.

Project Information

For: Roger Whiddon

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation: 151 ft		Design TD (°F)		37	17
Latitude 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		32.8	52.0
Outdoor:		Heating	Cooling		
Dry bulb (°F)		33	92		
Daily range (°F)		-	19 (M)		
Wet bulb (°F)		-	77		
Wind speed (mph)		15.0	7.5		
		Infiltration:			
		Method		Simplified	
		Construction quality		Average	
		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
Walls								
12C-0swr Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm								
	n	539	0.091	13.0	3.37	1815	2.20	1185
	e	434	0.091	13.0	3.37	1461	2.20	954
	s	509	0.091	13.0	3.37	1714	2.20	1119
	w	404	0.091	13.0	3.37	1360	2.20	888
	all	1886	0.091	13.0	3.37	6350	2.20	4145

Partitions

(none)

Windows

1A-c1om 1 glazing, dr glz, mtl no brk frm mat, 1/8" thk								
	n	72	1.270	0	47.0	3383	37.2	2678
	e	30	1.270	0	47.0	1410	93.6	2807
	s	102	1.270	0	47.0	4793	42.2	4300
	w	60	1.270	0	47.0	2819	93.6	5614
	all	264	1.270	0	47.0	12405	58.3	15399

Doors

11D0 Door, wd sc type								
	n	21	0.390	0	14.4	303	11.4	239
	s	21	0.390	0	14.4	303	11.4	239
	all	42	0.390	0	14.4	606	11.4	477

Ceilings

16B-30ad Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 cell ins								
		2394	0.032	30.0	1.18	2834	1.68	4033

Floors

19C-19cscp Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul								
		2394	0.049	30.0	0.63	1505	0.29	691

Project Information

For: Roger Whiddon

Notes

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	27835 Btuh
Ducts	10325 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	38160 Btuh

Sensible Cooling Equipment Load Sizing

Structure	26926 Btuh
Ducts	12742 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	38478 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2394	2394
Volume (ft ³)	19152	19152
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	102	51

Latent Cooling Equipment Load Sizing

Structure	1996 Btuh
Ducts	3009 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	5004 Btuh
Equipment total load	43482 Btuh
Req total capacity at 0.70 SHR	4.6 ton

Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	14.7 kW
Heating output	50265 Btuh
Temperature rise	28 °F
Actual air flow	1637 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Cooling Equipment Summary

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	15 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1637 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.89

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

Project Information

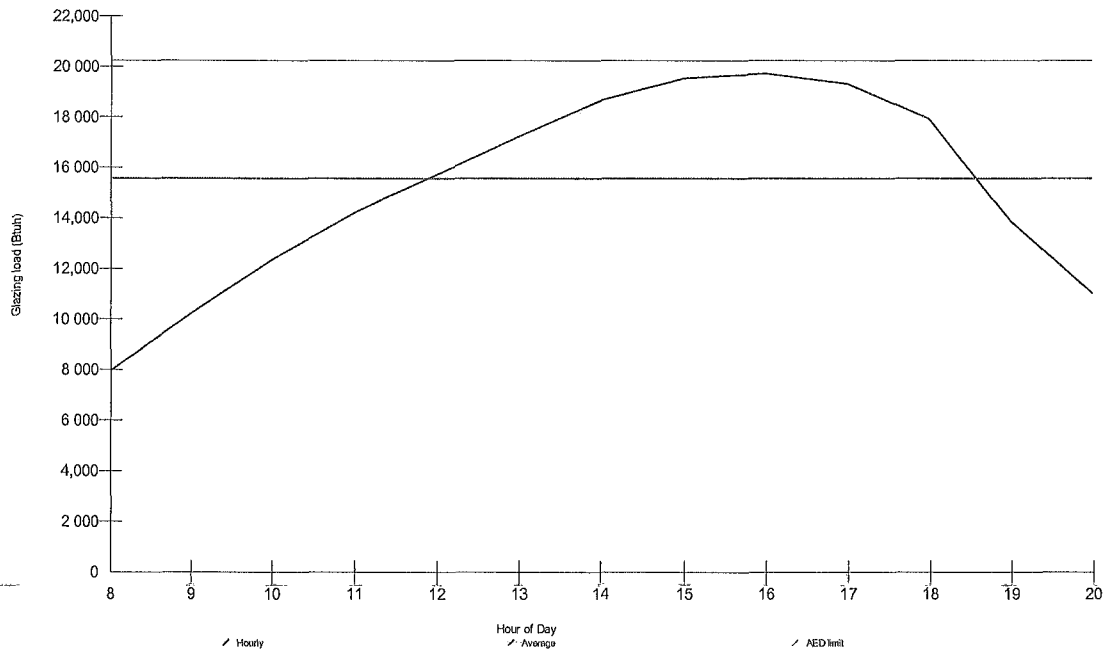
For: Roger Whiddon

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation: 151 ft		Design TD (°F)		37	17
Latitude 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		32.8	52.0
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)		33	92		
Daily range (°F)		-	19 (M)		
Wet bulb (°F)		-	77		
Wind speed (mph)		15.0	7.5		

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 26.7%.

House has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh

1	Room name					Entire House					Laundry				
2	Exposed wall					274.0 ft					8 0 ft				
3	Room height					8 0 ft					8 0 ft				
4	Room dimensions					d					13 0 x 8 0 ft				
5	Room area					2394.0 ft²					104.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0 091	n	3 37	2.20	632	539	1815	1185	0	0	0	0	
	G	1A-c1om	1 270	n	46.99	37 20	72	0	3383	2678	0	0	0	0	
	D	11D0	0 390	n	14.43	11 37	21	21	303	239	0	0	0	0	
11	W	12C-0sw	0 091	e	3 37	2.20	464	434	1461	954	0	0	0	0	
	G	1A-c1om	1 270	e	46.99	93 57	30	0	1410	2807	0	0	0	0	
	W	12C-0sw	0 091	s	3.37	2.20	632	509	1714	1119	0	0	0	0	
	G	1A-c1om	1 270	s	46.99	42 16	102	0	4793	4300	0	0	0	0	
	D	11D0	0 390	s	14.43	11 37	21	21	303	239	0	0	0	0	
	W	12C-0sw	0 091	w	3 37	2 20	464	404	1360	888	64	49	165	108	
	G	1A-c1om	1 270	w	46 99	93 57	60	0	2819	5614	15	0	705	1404	
	C	16B-30ad	0 032	-	1 18	1 68	2394	2394	2834	4033	104	104	123	175	
	F	19C-19cscp	0 049	-	0 63	0 29	2394	2394	1505	691	104	104	65	30	
6	c) AED excursion									0				386	
	Envelope loss/gain								23701	24746			1058	2102	
12	a) Infiltration								4135	950			121	28	
	b) Room ventilation								0	0			0	0	
13	Internal gains						Occupants @ 230	1		230	0			0	
	Appliances/other								1000				0		
	Subtotal (lines 6 to 13)								27835	26926			1179	2130	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			39	38	
14	Subtotal								27835	26926			1218	2168	
15	Duct loads						37%	47%	10325	12742	37%	47%	452	1026	
	Total room load								38160	39668			1670	3194	
	Air required (cfm)								1637	1637			72	132	

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

Right-J® Worksheet

Entire House

Job:
Date: Oct 30, 2013
By:

1	Room name				Master 28.0 ft						Mbath 27.0 ft			
2	Exposed wall				8.0 ft						8.0 ft			
3	Room height				10 x 211.0 ft						10 x 190.0 ft			
4	Room dimensions				211.0 ft²						190.0 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	12C-0sw	0.091	n	3.37	2.20	104	89	300	196	112	100	337	220
	G	1A-c10m	1.270	n	46.99	37.20	15	0	705	558	12	0	564	446
	D	11D0	0.390	n	14.43	11.37	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	e	3.37	2.20	0	0	0	0	104	104	350	229
	G	1A-c10m	1.270	e	46.99	93.57	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.37	2.20	0	0	0	0	0	0	0	0
	G	1A-c10m	1.270	s	46.99	42.16	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	14.43	11.37	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.37	2.20	120	105	354	231	0	0	0	0
	G	1A-c10m	1.270	w	46.99	93.57	15	0	705	1404	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	211	211	250	355	190	190	225	320
	F	19C-19cscp	0.049	-	0.63	0.29	211	211	133	61	190	190	119	55
6	c) AED excursion									165				-139
	Envelope loss/gain								2445	2970			1595	1131
12	a) Infiltration								423	97			407	94
	b) Room ventilation								0	0			0	0
13	Internal gains		Occupants @ 230		Appliances/other		0			0	0			0
	Subtotal (lines 6 to 13)								2868	3067			2003	1224
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								17	17			0	0
14	Subtotal								2885	3084			2003	1224
15	Duct loads						37%	47%	1070	1459	37%	47%	743	579
	Total room load								3955	4543			2745	1804
	Air required (cfm)								170	187			118	74

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

1	Room name					Walk in 0 ft					Bath4 9 0 ft				
2	Exposed wall					8.0 ft 8 0 x 10 0 ft heat/cool					8 0 ft 8 0 x 9 0 ft heat/cool				
3	Room height														
4	Room dimensions														
5	Room area					80 0 ft²					72 0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0 091	n	3 37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c1om	1 270	n	46.99	37 20	0	0	0	0	0	0	0	0	
	D	11D0	0 390	n	14.43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	e	3 37	2.20	0	0	0	0	0	0	0	0	
11	G	1A-c1om	1 270	e	46 99	93 57	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	s	3 37	2.20	0	0	0	0	0	0	0	0	
	G	1A-c1om	1 270	s	46.99	42.16	0	0	0	0	0	0	0	0	
	D	11D0	0 390	s	14.43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	w	3 37	2 20	0	0	0	0	72	72	242	158	
	G	1A-c1om	1 270	w	46 99	93.57	0	0	0	0	0	0	0	0	
	C	16B-30ad	0 032	-	1 18	1 68	80	80	95	135	72	72	85	121	
	F	19C-19cscp	0 049	-	0 63	0 29	80	80	50	23	72	72	45	21	
6	c) AED excursion									-16				-34	
	Envelope loss/gain								145	142			373	267	
12	a) Infiltration								0	0			136	31	
	b) Room ventilation								0	0			0	0	
13	Internal gains Occupants @ 230						0			0	0	0		0	0
	Appliances/other									0			0		
	Subtotal (lInes 6 to 13)								145	142			509	298	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								75	73			0	0	
14	Subtotal								220	215			509	298	
15	Duct loads						37%	47%	82	102	37%	47%	189	141	
	Total room load								302	317			697	439	
	Air required (cfm)								13	13			30	18	

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

1	Room name					Bed 2					Office				
2	Exposed wall					23.0 ft					23 0 ft				
3	Room height					8 0 ft					8 0 ft				
4	Room dimensions					1 0 x 168.0 ft					13 0 x 12.0 ft				
5	Room area					168 0 ft ²					156 0 ft ²				
	Ty	Construction number	U-value (Btuh/ft ² ·°F)	Or	HTM (Btuh/ft ²)		Area (ft ²) or perimeter (ft)		Load (Btuh)		Area (ft ²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0 091	n	3 37	2 20	0	0	0	0	0	0	0	0	
11	G	1A-c10m	1 270	n	46 99	37 20	0	0	0	0	0	0	0	0	
	D	11D0	0 390	n	14.43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	e	3 37	2 20	0	0	0	0	64	64	215	141	
	G	1A-c10m	1 270	e	46 99	93 57	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	s	3 37	2.20	96	66	222	145	104	74	249	163	
	G	1A-c10m	1 270	s	46 99	42 16	30	0	1410	1265	30	0	1410	1265	
	D	11D0	0 390	s	14.43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	w	3.37	2.20	88	88	296	193	16	16	54	35	
	G	1A-c10m	1 270	w	46.99	93 57	0	0	0	0	0	0	0	0	
	C	16B-30ad	0 032	-	1 18	1 68	168	168	199	283	156	156	185	263	
	F	19C-19cscp	0 049	-	0 63	0 29	168	168	106	49	156	156	98	45	
6	c) AED excursion									-30				-28	
	Envelope loss/gain								2233	1905			2211	1883	
12	a) Infiltration								347	80			347	80	
	b) Room ventilation								0	0			0	0	
13	Internal gains Occupants @ 230 Appliances/other						0			0	0		0		0
	Subtotal (lines 6 to 13)								2580	1984			2558	1963	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								43	42			56	55	
	Subtotal								2623	2027			2614	2018	
15	Duct loads						37%	47%	973	959		37%	47%	970	955
	Total room load								3596	2986			3584	2973	
	Air required (cfm)								154	123			154	123	

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

Right-J® Worksheet
Entire House

Job:
Date: Oct 30, 2013
By:

1	Room name					Mechanical					Hall				
2	Exposed wall					0 ft					0 ft				
3	Room height					8 0 ft					8 0 ft				
4	Room dimensions					8 0 x 3 0 ft					1 0 x 122 0 ft				
5	Room area					24 0 ft²					122 0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0 091	n	3 37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c10m	1 270	n	46 99	37 20	0	0	0	0	0	0	0	0	
	D	11D0	0 390	n	14 43	11 37	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0 091	e	3 37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c10m	1 270	e	46 99	93 57	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	s	3 37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c10m	1 270	s	46 99	42 16	0	0	0	0	0	0	0	0	
	D	11D0	0 390	s	14 43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	w	3 37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c10m	1 270	w	46 99	93 57	0	0	0	0	0	0	0	0	
	C	16B-30ad	0 032	-	1 18	1 68	24	24	28	40	122	122	144	206	
	F	19C-19cscp	0 049	-	0 63	0 29	24	24	15	7	122	122	77	35	
6	c) AED excursion									-5				-25	
	Envelope loss/gain								44	43			221	216	
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							0				0	
	Subtotal (lines 6 to 13)								44	43			221	216	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								-44	-43			-221	-216	
14	Subtotal								0	0			0	0	
15	Duct loads						37%	47%	0	0	37%	47%	0	0	
	Total room load								0	0			0	0	
	Air required (cfm)								0	0			0	0	

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

1	Room name					Room15					Kitchen Nook				
2	Exposed wall					37 0 ft					42 0 ft				
3	Room height					8 0 ft					8 0 ft				
4	Room dimensions					17 0 x 24.0 ft					1 0 x 418 0 ft				
5	Room area					408 0 ft²					418.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0 091	n	3.37	2.20	120	84	283	185	184	154	519	338	
11	G	1A-c1om	1 270	n	46.99	37 20	15	0	705	558	30	0	1410	1116	
	D	11D0	0 390	n	14.43	11 37	21	21	303	239	0	0	0	0	
	W	12C-0sw	0 091	e	3 37	2 20	40	40	135	88	0	0	0	0	
	G	1A-c1om	1 270	e	46.99	93.57	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	s	3 37	2.20	136	85	286	187	48	48	162	105	
	G	1A-c1om	1 270	s	46 99	42.16	30	0	1410	1265	0	0	0	0	
	D	11D0	0 390	s	14.43	11 37	21	21	303	239	0	0	0	0	
	W	12C-0sw	0 091	w	3 37	2.20	0	0	0	0	104	74	249	163	
	G	1A-c1om	1 270	w	46 99	93.57	0	0	0	0	30	0	1410	2807	
	C	16B-30ad	0 032	-	1 18	1 68	408	408	483	687	418	418	495	704	
	F	19C-19cscp	0 049	-	0 63	0 29	408	408	256	118	418	418	263	121	
6	c) AED excursion								-257				260		
	Envelope loss/gain							4164	3307			4506	5614		
12	a) Infiltration							558	128			634	146		
	b) Room ventilation							0	0			0	0		
13	Internal gains					Occupants @ 230	0		0	0	0		0	1000	
	Appliances/other														
	Subtotal (lines 6 to 13)							4722	3436			5140	6760		
	Less external load							0	0			0	0		
	Less transfer							0	0			0	0		
	Redistribution							34	33			0	0		
14	Subtotal							4756	3468			5140	6760		
15	Duct loads						37% 47%	1764	1641		37% 47%	1907	3199		
	Total room load							6520	5110			7047	9959		
	Air required (cfm)							280	211			302	411		

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1	Room name					Bath 3					Hobby				
2	Exposed wall					7 0 ft					21 0 ft				
3	Room height					8.0 ft					8 0 ft				
4	Room dimensions					7 0 x 5.0 ft					10 0 x 11 0 ft				
5	Room area					35.0 ft²					110 0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0 091	n	3.37	2.20	0	0	0	0	0	0	0	0	
	G	1A-c1om	1 270	n	46.99	37 20	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	14.43	11 37	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0 091	e	3.37	2.20	0	0	0	0	88	73	246	160	
	G	1A-c1om	1 270	e	46 99	93 57	0	0	0	0	15	0	705	1404	
	W	12C-0sw	0 091	s	3.37	2 20	56	56	189	123	80	80	269	176	
	G	1A-c1om	1 270	s	46 99	42.16	0	0	0	0	0	0	0	0	
	D	11D0	0 390	s	14.43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	w	3 37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c1om	1 270	w	46 99	93 57	0	0	0	0	0	0	0	0	
	C	16B-30ad	0 032	-	1 18	1 68	35	35	41	59	110	110	130	185	
	F	19C-19cscp	0 049	-	0 63	0 29	35	35	22	10	110	110	69	32	
6	c) AED excursion									-22				-78	
	Envelope loss/gain								252	170			1419	1879	
12	a) Infiltration								106	24			317	73	
	b) Room ventilation								0	0			0	0	
13	Internal gains Occupants @ 230 Appliances/other						0			0	0			0	0
	Subtotal (lines 6 to 13)								358	194			1736	1952	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								358	194			1736	1952	
15	Duct loads						37%	47%	133	92	37%	47%	644	924	
	Total room load								490	286			2380	2875	
	Air required (cfm)								21	12			102	119	

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

Right-J® Worksheet

Entire House

Job:
Date: Oct 30, 2013
By:

1	Room name						Closet 8 0 ft				Bath2 16.0 ft				
2	Exposed wall						8 0 ft				8 0 ft				
3	Room height						10 x 48 0 ft				8 0 x 8 0 ft				
4	Room dimensions						48 0 ft²				64.0 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	12C-0sw	0 091	n	3 37	2.20	0	0	0	0	0	0	0	0	
	G	1A-c1om	1 270	n	46.99	37 20	0	0	0	0	0	0	0	0	
	D	11D0	0 390	n	14.43	11 37	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0 091	e	3 37	2.20	16	16	54	35	64	64	215	141	
	G	1A-c1om	1 270	e	46 99	93 57	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	s	3.37	2.20	48	48	162	105	64	52	175	114	
	G	1A-c1om	1 270	s	46 99	42.16	0	0	0	0	12	0	564	506	
	D	11D0	0 390	s	14.43	11 37	0	0	0	0	0	0	0	0	
	W	12C-0sw	0 091	w	3.37	2 20	0	0	0	0	0	0	0	0	
	G	1A-c1om	1 270	w	46 99	93.57	0	0	0	0	0	0	0	0	
	C	16B-30ad	0 032	-	1 18	1 68	48	48	57	81	64	64	76	108	
	F	19C-19cscp	0 049	-	0 63	0 29	48	48	30	14	64	64	40	18	
6	c) AED excursion									-27				-26	
	Envelope loss/gain								302	209			1070	861	
12	a) Infiltration								121	28			241	55	
	b) Room ventilation								0	0			0	0	
13	Internal gains						Occupants @ 230	0		0	0	0		0	0
	Appliances/other									0				0	0
	Subtotal (lines 6 to 13)								423	236			1312	917	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								423	236			1312	917	
15	Duct loads						37%	47%	157	112	37%	47%	487	434	
	Total room load								580	348			1799	1350	
	Air required (cfm)								25	14			77	56	

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1	Room name					Bed 3									
2	Exposed wall					25.0 ft									
3	Room height					8.0 ft					heat/cool				
4	Room dimensions					10 x 184.0 ft									
5	Room area					184.0 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-0sw	0.091	n	3.37	2.20	112	112	377	246					
	G	1A-c1om	1.270	n	46.99	37.20	0	0	0	0					
	D	11D0	0.390	n	14.43	11.37	0	0	0	0					
11	W	12C-0sw	0.091	e	3.37	2.20	88	73	246	160					
	G	1A-c1om	1.270	e	46.99	93.57	15	0	705	1404					
	W	12C-0sw	0.091	s	3.37	2.20	0	0	0	0					
	G	1A-c1om	1.270	s	46.99	42.16	0	0	0	0					
	D	11D0	0.390	s	14.43	11.37	0	0	0	0					
	W	12C-0sw	0.091	w	3.37	2.20	0	0	0	0					
	G	1A-c1om	1.270	w	46.99	93.57	0	0	0	0					
	C	16B-30ad	0.032	-	1.18	1.68	184	184	218	310					
	F	19C-19cscp	0.049	-	0.63	0.29	184	184	116	53					
6	c) AED excursion									-125					
	Envelope loss/gain								1661	2048					
12	a) Infiltration								377	87					
	b) Room ventilation								0	0					
13	Internal gains					Occupants @ 230	1			230	0				
						Appliances/other									
	Subtotal (lines 6 to 13)								2038	2365					
	Less external load								0	0					
	Less transfer								0	0					
	Redistribution								0	0					
14	Subtotal								2038	2365					
15	Duct loads						37%	47%	756	1119					
	Total room load								2795	3484					
	Air required (cfm)								120	144					

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