


**Worksheet: Simulated Form J1AE**

Manual J, 8th Edition - AE

Project:		Location:				1) Room		Block Load / Room Summation			
						L, H & W in decimal feet and		Length	Height	Gross	
						Gross SqFt areas			or Width	Area	
Indoor db Heating		Latitude		DR		2) Exposed Wall					
Indoor db Cooling		99% db		HTD		3) Partition					
Indoor RH Cooling		1% db		CTD		4) Floor					
Elevation		Grains		ACF		5) Ceiling		Slope >			
		Construction Number Direction & Details				Heating HTM	Cooling HTM	Net Area	Btuh Heating	Btuh Cooling	
6A	Windows & Glass Doors Total Area (SqFt) =	a									
		b									
		c									
		d									
		e									
		f									
		g									
		h									
		i									
		j									
		k									
6B	Skylights Total Area (SqFt) =	a									
		b									
		c									
		d									
7	Wood & Metal Doors Total Area (SqFt) =	a									
		b									
		c									
		d									
8	Above Grade Walls Total Area (SqFt) =	a									
		b									
		c									
		d									
		e									
		f									
8	Partition Walls Total Area (SqFt) =	g									
		h									
9	Below Grade Walls Total Area (SqFt) =	a									
		b									
10	Ceilings Total Area (SqFt) =	a									
		b									
		c									
10	Partition Ceilings Total Area (SqFt) =	d									
		e									
		a									
		b									
11A	Passive Floors Total Area (SqFt) = Use feet of exposed edge for slab	c									
		d									
		e									
11A	Partition Floors Total Area (SqFt) =	a									
		b									
12	Infiltration Gross exposed wall area for WAR	a	Envelope Leakage			Infil Cf m for Heating					
		b	No. of Fireplaces			Infil Cf m for Cooling					
13	Internal Gains One occupant = 230 sensible Btuh	a	No. of Bedrooms			# Occupants >					
		b	Appliances (1200 Btuh or 2400 Btuh)								
14	Sub Totals (Sum lines 6A through 13)										
15	Duct Loss / Gain:					Factors >					
16	Ventillation	Maximum ventilation Cf m for MJ8ae is 50				Cf m for this job >					
19	Blower Heat Gain	Manufacturer's performance data has blower heat discount (1,707 if no, 0 if yes)									
20	Total Sensible Loss or Gain	Sum lines 14 through 20									
						21	A.) Latent Infiltration Gain (Btuh)				
							B.) Latent for Occupants (One Occupant = 200 Btuh)				
							C.) Latent for Plants (Small = 10, Med = 20, Large = 30)				
							D.) Latent for Duct in Unconditioned Space				
							E.) Latent Ventilation Gain				
							F.) Total Latent Gain (Btuh)				