

WORKSHEET A: INDOOR & OUTDOOR DESIGN CONDITIONS										
Project:			City, State:	Table 1A Latitude >						
Indoor Design Conditions	Heating Drybulb>		Winter Humidification		Cooling Drybulb>		Cooling RH%>			
Outdoor Design Conditions	99% Drybulb>		1% Drybulb>		Grains Difference>		Daily Range>			
Heating Temperature Difference (HTD) = Indoor Heating Drybulb - Outdoor 99% Drybulb>					Table 1A Elevation>		Refer to Table 1A and see Sections 3-6 and 3-7			
Cooling Temperature Difference (CTD) = Outdoor 1% Drybulb - Indoor Cooling Drybulb>					Table 10A ACF>					

WORKS	SHEET C: S	KYLIGHT	s						
Reference		HTD	CTD	T3 CTD	Line # for J1AE, Item 6B	а	b	С	d
Temperatures					Direction glass faces>				
			as required (16	ookup; use +1 or - = 15; 17 = 15; 18	Number of panes>				
		= 20; 19 = 20)			Glass tilt angle (degrees)>				
					Frame type (w, m, mb, v)>				
					Curb height (Inches)>				
1	Area of roof o	skylight (SqFt)							
2	2 Curb size (See Table 2B-4)								
3	Number of ide	entical skyligh	nt assemblies						
4	Net area (SqFt) of identical skylight assemblies (L1 x L3) To J1AE								
5	Table 2A construction number				To J1AE>				
6	Table 2A Ueff-value								
7	Heating HTM = Ueff x HTD				To J1AE>				
8	Cooling HTM	from Table 3	С		To J1AE>				

WOR	(SHEET E: INFILTRATION											
Input Data		Heating	Cooling	Number	Occupants	Number	Burner	HTD	CTD	T1 Grains	T10 ACF	
	Floor area (SqFt)>	-		Bedrooms	(#BR + 1)	Fireplaces	Btuh					
Conditioned above grade volume (CuFt)>								Note: Buri	ner Btuh = 0	for direct-ver	t appliance	
Table 8	Outdoor Air Requirement									Heating	Cooling	
1	1 Outdoor air Cfm for 0.35 ACH requirement 0.35 x above grade volume / 60 =							ricating	Cooming			
2	Outdoor air Cfm for occupants 20 x number of occupants =											
3	Outdoor air for burners that take combustion air from conditioned space 0.50 x input capacity (Btuh) / 1000 =											
4	Suggest value for fresh air Cfm	Suggest value for fresh air Cfm Maximum value from lines 1, 2 or 3 =										
Envelor	pe Infiltration Rate									•		
5	•			Envelope =			Fireplace =					
6	Table 5A ACH for heating Envelope ACH			H (heating) =		Cfm for o	ne fireplace =					
7	Table 5A ACH for cooling	Table 5A ACH for cooling Envelope ACH							-	Heating	Cooling	
8	Infiltration Cfm for heating	Infiltration Cfm for heating Line 6 ACH x above grade volume for heating / 60 + Line 6 fireplace Cfm x number of fireplaces =										
9	Infiltration Cfm for cooling Line 7 ACH x above grade volume for cooling / 60 =											
Infiltrati	on loads											
10	Infiltration load for heating (Btuh)	oad for heating (Btuh) To J1AE >			< 1.1 x ACF x Line 8 Cfm x HTD							
11	Sensible infiltration load for cooling (Btuh) To J1AE >				< 1.1 x ACF x Line 9 Cfm x CTD							
12	Latent infiltration load for cooling (Btuh) To J1AE >				< 0.68 x ACF x Line 9 Cfm x Grains							
Sugges	ted Value for Engineered Ventilation Cfm											
13	Compare infiltration rate with suggested	Line 4 Cfm -	Line 4 Cfm - line 8 Cfm for heating = Line 4 Cfm - line 9 Cfm for cooling =									
14	Suggest value for engineered ventilation Cfm>			<largest p<="" td=""><td>ositive value</td><td>from line 13</td><td>s (see line 11,</td><td>worksheet H</td><td>)</td><td></td><td></td></largest>	ositive value	from line 13	s (see line 11,	worksheet H)			