

CECIS UNIDAD SALTILLO

Location	SALTILLO, COAHUILA
Building owner	INFONAVIT
Program user	ING MEZA
Company	INGENOR
Comments	
By	INGENOR MEXICO S.A. DE C.V.
Dataset name	C:\Users\AMH\Documents\TRACE 700 Projects\CECIS-SALTILLO-01-080218.trc
Calculation time	09:28 AM on 03/01/2018
TRACE® 700 version	6.3.3
Location	Saltillo, Mexico
Latitude	25.3 deg
Longitude	101.0 deg
Time Zone	6
Elevation	5,279 ft
Barometric pressure	29.2 in. Hg
Air density	0.0743 lb/cu ft
Air specific heat	0.2444 Btu/lb·°F
Density-specific heat product	1.0900 Btu/h·cfm·°F
Latent heat factor	4,798.2 Btu·min/h·cu ft
Enthalpy factor	4.4593 lb·min/hr·cu ft
Summer design dry bulb	95.0 °F
Summer design wet bulb	71.6 °F
Winter design dry bulb	24.8 °F
Summer clearness number	0.85
Winter clearness number	0.85
Summer ground reflectance	0.20
Winter ground reflectance	0.20
Carbon Dioxide Level	400 ppm
Design simulation period	January - December
Cooling load methodology	CLTD-CLF (ASHRAE TFM)
Heating load methodology	UATD



System Checksums

By INGENOR MEXICO S.A. DE C.V.

UGAR SALTILLO

Variable Temperature Constant Volume

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES																																															
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: Sum of		Mo/Hr: Heating Design			Cooling		Heating																																															
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: Peaks		OADB: 25																																																				
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total (%)																																																		
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens																																																			
Envelope Loads				Envelope Loads							AIRFLOWS <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Cooling</th> <th>Heating</th> </tr> </thead> <tbody> <tr><td>Diffuser</td><td>36,093</td><td>36,093</td></tr> <tr><td>Terminal</td><td>36,093</td><td>36,093</td></tr> <tr><td>Main Fan</td><td>36,093</td><td>36,093</td></tr> <tr><td>Sec Fan</td><td>0</td><td>0</td></tr> <tr><td>Nom Vent</td><td>2,225</td><td>0</td></tr> <tr><td>AHU Vent</td><td>2,225</td><td>0</td></tr> <tr><td>Infil</td><td>0</td><td>0</td></tr> <tr><td>MinStop/Rh</td><td>0</td><td>0</td></tr> <tr><td>Return</td><td>36,093</td><td>36,093</td></tr> <tr><td>Exhaust</td><td>2,225</td><td>0</td></tr> <tr><td>Rm Exh</td><td>0</td><td>0</td></tr> <tr><td>Auxiliary</td><td>0</td><td>0</td></tr> <tr><td>Leakage Dwn</td><td>0</td><td>0</td></tr> <tr><td>Leakage Ups</td><td>0</td><td>0</td></tr> </tbody> </table>				Cooling	Heating	Diffuser	36,093	36,093	Terminal	36,093	36,093	Main Fan	36,093	36,093	Sec Fan	0	0	Nom Vent	2,225	0	AHU Vent	2,225	0	Infil	0	0	MinStop/Rh	0	0	Return	36,093	36,093	Exhaust	2,225	0	Rm Exh	0	0	Auxiliary	0	0	Leakage Dwn	0	0	Leakage Ups	0	0
	Cooling	Heating																																																								
Diffuser	36,093	36,093																																																								
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Rm Exh	0	0																																																								
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Leakage Dwn	0	0																																																								
Leakage Ups	0	0																																																								
Skylite Solar	0	0	0	0	0	0	0	0.00																																																		
Skylite Cond	0	0	0	0	0	0	0	0.00																																																		
Roof Cond	194,819	0	194,819	18	192,577	23	-101,393	-101,393	10.77																																																	
Glass Solar	77,798	0	77,798	7	84,695	10	0	0	0.00																																																	
Glass/Door Cond	32,325	0	32,325	3	31,115	4	-64,785	-64,785	6.88																																																	
Wall Cond	14,074	0	14,074	1	14,371	2	-13,478	-13,478	1.43																																																	
Partition/Door	81,846	0	81,846	8	79,921	9	-160,379	-160,379	17.03																																																	
Floor	0	0	0	0	0	0	0	0	0.00																																																	
Adjacent Floor	0	0	0	0	0	0	0	0	0.00																																																	
Infiltration	0	0	0	0	0	0	0	0	0.00																																																	
Sub Total ==>	400,862	0	400,862	38	402,680	48	-340,035	-340,035	36.11																																																	
Internal Loads				Internal Loads																																																						
Lights	98,705	13,760	112,466	11	98,310	12	0	0	0.00																																																	
People	195,073	0	195,073	18	103,546	12	0	0	0.00																																																	
Misc	240,089	0	240,089	22	239,597	28	0	0	0.00																																																	
Sub Total ==>	533,867	13,760	547,627	51	441,453	52	0	0	0.00																																																	
Ceiling Load	0	0	0	0	0	0	0	0	0.00																																																	
Ventilation Load	0	0	99,650	9	0	0	0	0	0.00																																																	
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0																																																	
Dehumid. Ov Sizing	0	0	0	0	0	0	-492,133	-492,133	52.25																																																	
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0.00																																																	
Exhaust Heat	0	-853	-853	0	0	0	-68,394	-68,394	7.26																																																	
Sup. Fan Heat	0	0	21,388	2	0	0	-41,230	-41,230	4.38																																																	
Ret. Fan Heat	0	0	0	0	0	0	0	0	0.00																																																	
Duct Heat Pkup	0	0	0	0	0	0	0	0	0.00																																																	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00																																																	
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00																																																	
Grand Total ==>	934,729	12,908	1,068,676	100.00	844,133	100.00	-832,168	-941,792	100.00	ENGINEERING CKS <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Cooling</th> <th>Heating</th> </tr> </thead> <tbody> <tr><td>% OA</td><td>6.2</td><td>0.0</td></tr> <tr><td>cfm/ft²</td><td>2.01</td><td>2.01</td></tr> <tr><td>cfm/ton</td><td>405.28</td><td></td></tr> <tr><td>ft²/ton</td><td>201.93</td><td></td></tr> <tr><td>Btu/hr-ft²</td><td>59.43</td><td>0.00</td></tr> <tr><td>No. People</td><td>445</td><td></td></tr> </tbody> </table>				Cooling	Heating	% OA	6.2	0.0	cfm/ft²	2.01	2.01	cfm/ton	405.28		ft²/ton	201.93		Btu/hr-ft²	59.43	0.00	No. People	445																										
	Cooling	Heating																																																								
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No. People	445																																																									

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	89.1	1,068.7	941.5	36,093	77.0	63.4	67.9	53.0	53.0	62.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	89.1	1,068.7								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	17,983		
Part	9,146		
Int Door	0		
ExFlr	0		
Roof	17,983	0	0
Wall	2,143	1,504	70
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	36,093	67.2	91.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Zone Checksums

By INGENOR MEXICO S.A. DE C.V.

SALTILLO CECIS

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 100		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens Btu/h	(%)	75.0	76.7	0.1	0.1	0.4	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	50,521	0	50,521	13	48,753	15	-26,443	9.35						
Glass Solar	72,630	0	72,630	18	78,349	25	0	0.00						
Glass/Door Cond	28,117	0	28,117	7	27,161	8	-56,551	20.00						
Wall Cond	13,286	0	13,286	3	13,522	4	-12,472	4.41						
Partition/Door	23,063	0	23,063	6	21,586	7	-46,893	16.59						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	187,617	0	187,617	47	189,371	59	-142,359	50.36						
Internal Loads				Internal Loads										
Lights	24,124	4,441	28,565	7	23,612	7	0	0.00						
People	66,415	0	66,415	17	34,881	11	0	0.00						
Misc	72,300	0	72,300	18	71,778	22	0	0.00						
Sub Total ==>	162,839	4,441	167,279	42	130,271	41	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	33,947	9	0	0	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	-102,892	36.40						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	-284	-284	0	0	0	-23,362	8.26						
Sup. Fan Heat	0	0	8,099	2	0	0	-14,083	4.98						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	350,455	4,157	396,659	100.00	319,642	100.00	-245,250	100.00						

AIRFLOWS

	Cooling	Heating
Diffuser	13,667	13,667
Terminal	13,667	13,667
Main Fan	13,667	13,667
Sec Fan	0	0
Nom Vent	760	0
AHU Vent	760	0
Infil	0	0
MinStop/Rh	0	0
Return	13,667	13,667
Exhaust	760	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.6	0.0
cfm/ft²	2.91	2.91
cfm/ton	413.46	
ft²/ton	141.88	
Btu/hr-ft²	84.58	0.00
No. People	152	

COOLING COIL SELECTION

	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	33.1	396.7	353.3	13,667	76.7	63.3	67.7	53.0	53.0	63.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	33.1	396.7								

AREAS

	Gross Total	Glass ft²	(%)
Floor	4,690		
Part	2,674		
Int Door	0		
ExFlr	0		
Roof	4,690	0	0
Wall	1,905	1,312	69
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	
			°F	°F
Main Htg	0.0	13,667	67.5	86.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Zone Checksums

By INGENOR MEXICO S.A. DE C.V.

SALTILLO DELEGACION

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES					
Peaked at Time:		Mo/Hr: 4 / 16			Mo/Hr: 4 / 16		Mo/Hr: Heating Design						Cooling			Heating				
Outside Air:		OADB/WB/HR: 101 / 75 / 90			OADB: 101		OADB: 25						SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Return			Ret/OA				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD			Fn BldTD				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn Frict							
Envelope Loads					Envelope Loads															
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	144,298	0	144,298	21	143,824	27	-74,950	-74,950	11.37	0	0	0.00								
	5,168	0	5,168	1	6,347	1	0	0	0.00	0	0	0.00								
	4,208	0	4,208	1	3,954	1	-8,234	-8,234	1.25	-8,234	-8,234	1.25								
	789	0	789	0	849	0	-1,006	-1,006	0.15	-1,006	-1,006	0.15								
	58,784	0	58,784	9	58,335	11	-113,486	-113,486	17.22	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	213,245	0	213,245	32	213,309	41	-197,676	-197,676	29.99	0	0	0.00								
Internal Loads					Internal Loads															
	74,581	9,319	83,901	12	74,697	14	0	0	0.00	0	0	0.00								
	128,658	0	128,658	19	68,666	13	0	0	0.00	0	0	0.00								
	167,789	0	167,789	25	167,819	32	0	0	0.00	0	0	0.00								
	371,029	9,319	380,348	57	311,182	59	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	65,703	10	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0	0	0	0								
	0	0	0	0	0	0	-389,242	-389,242	59.06	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	-569	-569	0	0	0	0	0	0.00	0	0	0.00								
	0	0	13,289	2	0	0	-45,032	-45,032	6.83	0	0	0.00								
	0	0	0	0	0	0	-27,147	-27,147	4.12	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	584,274	8,751	672,017	100.00	524,491	100.00	-586,918	-659,098	100.00											

AIRFLOWS

	Cooling	Heating
Diffuser	22,426	22,426
Terminal	22,426	22,426
Main Fan	22,426	22,426
Sec Fan	0	0
Nom Vent	1,465	0
AHU Vent	1,465	0
Infil	0	0
MinStop/Rh	0	0
Return	22,426	22,426
Exhaust	1,465	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	6.5	0.0
cfm/ft²	1.69	1.69
cfm/ton	400.45	
ft²/ton	237.37	
Btu/hr-ft²	50.55	0.00
No. People	293	

COOLING COIL SELECTION

	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	56.0	672.0	588.3	22,426	77.1	63.5	68.0	53.0	53.0	62.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	56.0	672.0								

AREAS

	Gross Total	Glass	
		ft²	(%)
Floor	13,293		
Part	6,472		
Int Door	0		
ExFlr	0		
Roof	13,293	0	0
Wall	239	191	80
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent	
			°F	Lvg °F
Main Htg	0.0	22,426	67.1	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

CECIS GCE

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES					
Peaked at Time:		Mo/Hr: 5 / 17			Mo/Hr: 5 / 17		Mo/Hr: Heating Design						Cooling			Heating				
Outside Air:		OADB/WB/HR: 98 / 74 / 89			OADB: 98		OADB: 25						SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Return			Ret/OA				
	Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Fn MtrTD			Fn BldTD				
													Fn Frict							
Envelope Loads					Envelope Loads															
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	1,870	0	1,870	11	1,870	13	-1,058	-1,058	8.79	0	0	0.00								
	4,470	0	4,470	27	4,470	30	0	0	0.00	0	0	0.00								
	1,145	0	1,145	7	1,145	8	-2,478	-2,478	20.58	0	0	0.00								
	1,275	0	1,275	8	1,275	9	-1,211	-1,211	10.06	0	0	0.00								
	1,669	0	1,669	10	1,669	11	-3,376	-3,376	28.04	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	10,429	0	10,429	64	10,429	71	-8,123	-8,123	67.47	0	0	0.00								
Internal Loads					Internal Loads															
	1,160	0	1,160	7	1,160	8	0	0	0.00	0	0	0.00								
	1,316	0	1,316	8	701	5	0	0	0.00	0	0	0.00								
	2,437	0	2,437	15	2,437	17	0	0	0.00	0	0	0.00								
	4,912	0	4,912	30	4,297	29	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	615	4	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	-3,176	-3,176	26.39	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	-461	-461	3.83	0	0	0.00								
	0	0	373	2	0	0	-278	-278	2.31	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	15,341	0	16,330	100.00	14,726	100.00	-11,299	-12,038	100.00											

AIRFLOWS		
	Cooling	Heating
Diffuser	630	630
Terminal	630	630
Main Fan	630	630
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	630	630
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	2.4	0.0
cfm/ft²	3.35	3.35
cfm/ton	462.70	
ft²/ton	137.92	
Btu/hr-ft²	87.01	0.00
No. People	3.0	16.0/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	1.4	16.3	15.5	630	75.6	62.8	67.0	53.0	53.0	63.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.4	16.3								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	188		
Part	192		
Int Door	0		
ExFlr	0		
Roof	188	0	0
Wall	115	58	50
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			°F	°F
Main Htg	0.0	630	68.9	86.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

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COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 98 / 74 / 89		OADB: 98		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		75.0	75.6	0.1	0.1	0.4	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	1,870	0	1,870	11	1,870	Roof Cond	-1,058	8.79						
Glass Solar	4,470	0	4,470	27	4,470	Glass Solar	0	0.00						
Glass/Door Cond	1,145	0	1,145	7	1,145	Glass/Door Cond	-2,478	20.58						
Wall Cond	1,275	0	1,275	8	1,275	Wall Cond	-1,211	10.06						
Partition/Door	1,669	0	1,669	10	1,669	Partition/Door	-3,376	28.04						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	10,429	0	10,429	64	10,429	Sub Total ==>	-8,123	67.47						
Internal Loads				Internal Loads										
Lights	1,160	0	1,160	7	1,160	Lights	0	0.00						
People	1,316	0	1,316	8	701	People	0	0.00						
Misc	2,437	0	2,437	15	2,437	Misc	0	0.00						
Sub Total ==>	4,912	0	4,912	30	4,297	Sub Total ==>	0	0.00						
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	615	4	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-3,176	26.39						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-461	3.83						
Sup. Fan Heat	0	0	373	2	0	RA Preheat Diff.	-278	2.31						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	15,341	0	16,330	100.00	14,726	Grand Total ==>	-11,299	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	630	630
Terminal	630	630
Main Fan	630	630
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	630	630
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	2.4	0.0
cfm/ft²	3.35	3.35
cfm/ton	462.70	
ft²/ton	137.92	
Btu/hr-ft²	87.01	0.00
No. People	3.0	16.0/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	1.4	16.3	15.5	630	75.6	62.8	67.0	53.0	53.0	63.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.4	16.3								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	188		
Part	192		
Int Door	0		
ExFlr	0		
Roof	188	0	0
Wall	115	58	50
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	630	68.9	86.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

CECIS SJ

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design			Cooling		Heating			
Outside Air:		OADB/WB/HR: 98 / 74 / 89		OADB: 98		OADB: 25			SADB		Ra Plenum			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="2"></td> </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="2"></td> </th></th>	Fn BldTD <th>Fn Frict <td colspan="2"></td> </th>	Fn Frict <td colspan="2"></td>		
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		75.0	0.1	0.1	0.4		
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling		Heating			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Diffuser	2,374	2,374			
Roof Cond	4,558	0	4,558	7	4,558	Roof Cond	-2,562	5.39	Terminal	2,374	2,374			
Glass Solar	14,368	0	14,368	22	14,368	Glass Solar	0	0.00	Main Fan	2,374	2,374			
Glass/Door Cond	3,571	0	3,571	5	3,571	Glass/Door Cond	-7,693	16.19	Sec Fan	0	0			
Wall Cond	3,963	0	3,963	6	3,963	Wall Cond	-3,761	7.91	Nom Vent	100	0			
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	AHU Vent	100	0			
Floor	0	0	0	0	0	Floor	0	0.00	Infil	0	0			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	MinStop/Rh	0	0			
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Return	2,374	2,374			
Sub Total ==>	26,461	0	26,461	41	26,461	Sub Total ==>	-14,015	29.49	Exhaust	100	0			
Internal Loads				Internal Loads							ENGINEERING CKS			
Lights	2,849	0	2,849	4	2,849	Lights	0	0.00	% OA	4.2	0.0			
People	8,802	0	8,802	14	4,702	People	0	0.00	cfm/ft²	5.22	5.22			
Misc	21,505	0	21,505	33	21,505	Misc	0	0.00	cfm/ton	437.38				
Sub Total ==>	33,156	0	33,156	51	29,056	Sub Total ==>	0	0.00	ft²/ton	83.73				
Ceiling Load				Ceiling Load							Btu/hr-ft²			
Ventilation Load	0	0	4,102	6	0	Ventilation Load	0	0.00		143.32	0.00			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	No. People		20.0	44.0/1000 ft²		
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-28,580	60.14						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-3,074	6.47						
Sup. Fan Heat	0	1,407	2	0	0	RA Preheat Diff.	-1,853	3.90						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	59,616	0	65,125	100.00	55,516	Grand Total ==>	-42,596	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	5.4	65.1	59.5	2,374	76.0	63.0	67.4	53.0	53.0	63.4	Floor	454		0.0	2,374	68.1	86.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		0.0	0	0.0	0.0
											ExFlr	0		0.0	0	0.0	0.0
Total	5.4	65.1									Roof	454	0	0.0	0	0.0	0.0
											Wall	357	179	50	0.0	0	0.0
											Ext Door	0	0	0	0.0	0	0.0

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION AS

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling	Heating			
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB	53.5	94.0		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	75.0	70.0		
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Ret/OA	75.0	70.0		
						Btu/h	Btu/h		Fn MtrTD	0.1	0.0		
Envelope Loads				Envelope Loads							AIRFLOWS		
Skylite Solar	0	0	0	0	0	0	0	0.00	Diffuser	316	316		
Skylite Cond	0	0	0	0	0	0	0	0.00	Terminal	316	316		
Roof Cond	2,034	0	2,034	23	2,034	27	-1,058	11.73	Main Fan	316	316		
Glass Solar	0	0	0	0	0	0	0	0.00	Sec Fan	0	0		
Glass/Door Cond	0	0	0	0	0	0	0	0.00	Nom Vent	15	0		
Wall Cond	0	0	0	0	0	0	0	0.00	AHU Vent	15	0		
Partition/Door	1,048	0	1,048	12	1,048	14	-2,017	22.36	Infil	0	0		
Floor	0	0	0	0	0	0	0	0.00	MinStop/Rh	0	0		
Adjacent Floor	0	0	0	0	0	0	0	0.00	Return	316	316		
Infiltration	0	0	0	0	0	0	0	0.00	Exhaust	15	0		
Sub Total ==>	3,083	0	3,083	35	3,083	42	-3,075	34.09	Rm Exh	0	0		
Internal Loads				Internal Loads							ENGINEERING CKS		
Lights	1,170	0	1,170	13	1,170	16	0	0.00	% OA	4.7	0.0		
People	1,318	0	1,318	15	703	10	0	0.00	cfm/ft²	1.69	1.69		
Misc	2,445	0	2,445	28	2,445	33	0	0.00	cfm/ton	427.83			
Sub Total ==>	4,933	0	4,933	56	4,318	58	0	0.00	ft²/ton	253.75			
Ceiling Load	0	0	0	0	0	0	0	0.00	Btu/hr-ft²	47.29	0.00		
Ventilation Load	0	0	672	8	0	0	0	0.00	No. People	3.0	16.0/1000 ft²		
Adj Air Trans Heat	0	0	0	0	0	0	0	0					
Dehumid. Ov Sizing	0	0	0	0	0	0	-5,207	57.72					
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00					
Exhaust Heat	0	0	0	0	0	0	-461	5.11					
Sup. Fan Heat	0	0	188	2	0	0	-278	3.08					
Ret. Fan Heat	0	0	0	0	0	0	0	0.00					
Duct Heat Pkup	0	0	0	0	0	0	0	0.00					
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00					
Supply Air Leakage	0	0	0	0	0	0	0	0.00					
Grand Total ==>	8,016	0	8,876	100.00	7,401	100.00	-8,282	100.00					

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Ent	Lvg					
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F					°F	gr/lb	ft²	(%)	°F
Main Clg	0.7	8.9	8.0	316	76.3	63.1	67.5	53.0	53.0	63.4	Floor	188		Main Htg	0.0	316	67.9	94.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0	
											ExFlr	0							
Total	0.7	8.9									Roof	188	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

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COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling	Heating			
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB	53.5	94.0		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	75.0	70.0		
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Ret/OA	76.4	70.0		
Envelope Loads				Envelope Loads				AIRFLOWS					
Skylite Solar	0	0	0	0	0	0	0	0.00	Diffuser	279	279		
Skylite Cond	0	0	0	0	0	0	0	0.00	Terminal	279	279		
Roof Cond	1,542	0	1,542	19	1,542	24	-804	9.99	Main Fan	279	279		
Glass Solar	0	0	0	0	0	0	0	0.00	Sec Fan	0	0		
Glass/Door Cond	0	0	0	0	0	0	0	0.00	Nom Vent	15	0		
Wall Cond	0	0	0	0	0	0	0	0.00	AHU Vent	15	0		
Partition/Door	1,047	0	1,047	13	1,047	16	-2,017	25.08	Infil	0	0		
Floor	0	0	0	0	0	0	0	0.00	MinStop/Rh	0	0		
Adjacent Floor	0	0	0	0	0	0	0	0.00	Return	279	279		
Infiltration	0	0	0	0	0	0	0	0.00	Exhaust	15	0		
Sub Total ==>	2,590	0	2,590	32	2,590	40	-2,820	35.07	Rm Exh	0	0		
Internal Loads				Internal Loads				ENGINEERING CKS					
Lights	878	0	878	11	878	13	0	0.00	% OA	5.4	0.0		
People	1,314	0	1,314	16	699	11	0	0.00	cfm/ft²	1.96	1.96		
Misc	2,360	0	2,360	30	2,360	36	0	0.00	cfm/ton	419.68			
Sub Total ==>	4,552	0	4,552	57	3,937	60	0	0.00	ft²/ton	214.37			
Ceiling Load	0	0	0	0	0	0	0	0.00	Btu/hr-ft²	55.98	0.00		
Ventilation Load	0	0	672	8	0	0	0	0.00	No. People	3.0	21.0/1000 ft²		
Adj Air Trans Heat	0	0	0	0	0	0	0	0					
Dehumid. Ov Sizing	0	0	0	0	0	0	-4,483	55.74					
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00					
Exhaust Heat	0	0	0	0	0	0	-461	5.73					
Sup. Fan Heat	0	0	165	2	0	0	-278	3.46					
Ret. Fan Heat	0	0	0	0	0	0	0	0.00					
Duct Heat Pkup	0	0	0	0	0	0	0	0.00					
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00					
Supply Air Leakage	0	0	0	0	0	0	0	0.00					
Grand Total ==>	7,142	0	7,979	100.00	6,527	100.00	-7,304	-8,043	100.00				

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION			
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Capacity	Coil Airflow	Ent	Lvg		
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft² (%)	MBh	cfm	°F	°F		
Main Clg	0.7	8.0	7.1	279	76.4	63.2	67.7	53.0	53.0	63.2	Floor	143	0.0	279	67.6	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0	0.0	0	0.0	0.0
											ExFlr	0	0.0	0	0.0	0.0
Total	0.7	8.0									Roof	143	0	0	0.0	0.0
											Wall	0	0	0	0.0	0.0
											Ext Door	0	0	0	0.0	0.0

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION CC

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25						SADB	53.5	94.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	77.1	70.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.1	0.0
Roof Cond	1,542	0	1,542	27	1,542	35	-804	14.20	-804	-804	14.20	Fn Frict	0.4	0.0
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00			
Wall Cond	0	0	0	0	0	0	0	0.00	0	0	0.00			
Partition/Door	1,043	0	1,043	18	1,043	24	-2,008	35.49	-2,008	-2,008	35.49			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	2,585	0	2,585	45	2,585	59	-2,812	49.69	-2,812	-2,812	49.69			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	878	0	878	15	878	20	0	0.00	0	0	0.00	Cooling	Heating	
People	1,314	0	1,314	23	699	16	0	0.00	0	0	0.00	Diffuser	188	188
Misc	233	0	233	4	233	5	0	0.00	0	0	0.00	Terminal	188	188
<i>Sub Total ==></i>	2,426	0	2,426	42	1,811	41	0	0.00	0	0	0.00	Main Fan	188	188
												Sec Fan	0	0
Ceiling Load	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	15	0
Ventilation Load	0	0	672	12	0	0	0	0.00	0	0	0.00	AHU Vent	15	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Infil	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	-2,107	37.24	-2,107	-2,107	37.24	MinStop/Rh	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	Return	188	188
Exhaust Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Exhaust	15	0
Sup. Fan Heat	0	111	111	2	0	0	-461	8.15	-461	-461	8.15	Rm Exh	0	0
Ret. Fan Heat	0	0	0	0	0	0	-278	4.91	-278	-278	4.91	Auxiliary	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Dwn	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Ups	0	0
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00	ENGINEERING CKS		
<i>Grand Total ==></i>	5,011	0	5,794	100.00	4,396	100.00	-4,919	100.00	-4,919	-5,658	100.00	% OA	8.0	0.0
												cfm/ft²	1.32	1.32
												cfm/ton	389.24	
												ft²/ton	295.20	
												Btu/hr-ft²	40.65	0.00
												No. People	3.0	21.0/1000 ft²

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	%	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.5	5.8	4.9	188	77.1	63.6	68.3	53.0	53.0	61.7	Floor	143			Main Htg	0.0	188	66.4	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0			Preheat	0.0	0	0.0	0.0
											ExFlr	0							
Total	0.5	5.8									Roof	143	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION CO

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 100		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		75.0	79.1	0.1	0.1	0.4	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Skylite Cond	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Roof Cond	1,628	0	1,628	6	1,489	8	-878	3.39	75.0	79.1	0.1	0.1	0.4	
Glass Solar	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Glass/Door Cond	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Wall Cond	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Partition/Door	9,824	0	9,824	34	9,925	55	-19,142	73.82	75.0	79.1	0.1	0.1	0.4	
Floor	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Adjacent Floor	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Infiltration	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
<i>Sub Total ==></i>	11,452	0	11,452	40	11,414	64	-20,020	77.20	75.0	79.1	0.1	0.1	0.4	
Internal Loads				Internal Loads										
Lights	853	0	853	3	871	5	0	0.00	75.0	79.1	0.1	0.1	0.4	
People	10,233	0	10,233	36	5,361	30	0	0.00	75.0	79.1	0.1	0.1	0.4	
Misc	244	0	244	1	246	1	0	0.00	75.0	79.1	0.1	0.1	0.4	
<i>Sub Total ==></i>	11,330	0	11,330	40	6,477	36	0	0.00	75.0	79.1	0.1	0.1	0.4	
Ceiling Load	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Ventilation Load	0	0	5,378	19	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Adj Air Trans Heat	0	0	0	0	0	0	0	0	75.0	79.1	0.1	0.1	0.4	
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Exhaust Heat	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Sup. Fan Heat	0	0	453	2	0	0	-3,689	14.22	75.0	79.1	0.1	0.1	0.4	
Ret. Fan Heat	0	0	0	0	0	0	-2,224	8.57	75.0	79.1	0.1	0.1	0.4	
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Supply Air Leakage	0	0	0	0	0	0	0	0.00	75.0	79.1	0.1	0.1	0.4	
Grand Total ==>	22,781	0	28,612	100.00	17,891	100.00	-20,020	100.00	75.0	79.1	0.1	0.1	0.4	

AIRFLOWS		
	Cooling	Heating
Diffuser	765	765
Terminal	765	765
Main Fan	765	765
Sec Fan	0	0
Nom Vent	120	0
AHU Vent	120	0
Infil	0	0
MinStop/Rh	0	0
Return	765	765
Exhaust	120	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	15.7	0.0
cfm/ft²	4.91	4.91
cfm/ton	320.82	
ft²/ton	65.32	
Btu/hr-ft²	183.72	0.00
No. People	24.0	154.1/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	2.4	28.6	21.8	765	79.1	64.6	70.1	53.0	51.9	57.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.4	28.6								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	156		
Part	1,092		
Int Door	0		
ExFlr	0		
Roof	156	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	765	62.9	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION DE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	3,563	0	3,563	24	3,563	27	Roof Cond	-1,865	-1,865	11.89				
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00						
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00						
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00						
Partition/Door	4,440	0	4,440	30	4,440	33	Partition/Door	-8,569	-8,569	54.60				
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
<i>Sub Total ==></i>	8,003	0	8,003	53	8,003	60	<i>Sub Total ==></i>	-10,435	-10,435	66.48				
Internal Loads				Internal Loads										
Lights	2,013	0	2,013	13	2,013	15	Lights	0	0	0.00				
People	1,310	0	1,310	9	695	5	People	0	0	0.00				
Misc	2,655	0	2,655	18	2,655	20	Misc	0	0	0.00				
<i>Sub Total ==></i>	5,978	0	5,978	40	5,363	40	<i>Sub Total ==></i>	0	0	0.00				
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	672	4	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,521	-4,521	28.81					
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-461	2.94						
Sup. Fan Heat	0	0	339	2	0	RA Preheat Diff.	-278	1.77						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	13,980	0	14,991	100.00	13,365	100.00	Grand Total ==>	-14,956	-15,695	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	571	571
Terminal	571	571
Main Fan	571	571
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	571	571
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	2.6	0.0
cfm/ft²	1.73	1.73
cfm/ton	457.44	
ft²/ton	264.84	
Btu/hr-ft²	45.31	0.00
No. People	3.0	9.1/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	1.3	15.0	14.1	571	75.7	62.8	67.0	53.0	53.0	63.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.3	15.0								

AREAS			
	Gross Total	Glass	(%)
		ft²	
Floor	331		
Part	489		
Int Door	0		
ExFlr	0		
Roof	331	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	571	68.8	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION EN

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES								
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling		Heating	SADB	53.5	94.0					
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			Ra Plenum		75.0	70.0	Return	75.0	70.0				
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA <td colspan="1">76.0</td> <td colspan="1">70.0</td> <td colspan="1">Fn MtrTD</td> <td colspan="1">0.1</td> <td colspan="1">0.0</td>	76.0	70.0	Fn MtrTD	0.1	0.0					
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn BldTD	0.1	0.0	Fn Frict	0.4	0.0					
Envelope Loads				Envelope Loads							AIRFLOWS								
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling					Heating	Diffuser	406	406		
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Terminal					406	406	Main Fan	406	406	
Roof Cond	2,015	0	2,015	18	2,015	21	Roof Cond	-1,058	-1,058	Sec Fan				0	0	Nom Vent	15	0	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	AHU Vent				15	0	Infil	0	0	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	MinStop/Rh				0	0	Return	406	406	
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	Exhaust				15	0	Rm Exh	0	0	
Partition/Door	3,233	0	3,233	29	3,233	34	Partition/Door	-6,248	-6,248	Auxiliary				0	0	Leakage Dwn	0	0	
Floor	0	0	0	0	0	0	Floor	0	0	Leakage Ups				0	0				
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0										
Infiltration	0	0	0	0	0	0	Infiltration	0	0										
Sub Total ==>	5,248	0	5,248	48	5,248	55	Sub Total ==>	-7,307	-7,307										
Internal Loads				Internal Loads										ENGINEERING CKS					
Lights	1,133	0	1,133	10	1,133	12	Lights	0	0	Cooling		Heating	% OA				3.7	0.0	
People	1,308	0	1,308	12	693	7	People	0	0	cfm/ft²		2.16	2.16						
Misc	2,415	0	2,415	22	2,415	25	Misc	0	0	cfm/ton		441.93							
Sub Total ==>	4,856	0	4,856	44	4,241	45	Sub Total ==>	0	0	ft²/ton		204.44							
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0	Btu/hr-ft²		58.70	0.00						
Ventilation Load	0	0	672	6	0	0	Ventilation Load	0	0				No. People				3.0	16.0/1000 ft²	
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0										
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-3,311	-3,311										
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0										
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	-461	4.06										
Sup. Fan Heat	0	240	2	0	0	0	RA Preheat Diff.	-278	2.45										
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0.00										
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	0	0.00										
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00										
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0.00										
Grand Total ==>	10,103	0	11,016	100.00	9,488	100.00	Grand Total ==>	-10,618	-11,357										

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	%	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.9	11.0	10.2	406	76.0	63.0	67.3	53.0	53.0	63.4	Floor	188			Main Htg	0.0	406	68.3	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	356			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0			Preheat	0.0	0	0.0	0.0
											ExFlr	0							
Total	0.9	11.0									Roof	188	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION ET

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 100		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens		75.0	77.4	0.1	0.1	0.4	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	79,040	0	79,040	25	78,842	Roof Cond	-41,001	13.20						
Glass Solar	5,168	0	5,168	2	6,347	Glass Solar	0	0.00						
Glass/Door Cond	4,208	0	4,208	1	3,954	Glass/Door Cond	-8,234	2.65						
Wall Cond	789	0	789	0	849	Wall Cond	-1,006	0.32						
Partition/Door	8,877	0	8,877	3	8,328	Partition/Door	-17,054	5.49						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	98,082	0	98,082	31	98,319	Sub Total ==>	-67,296	21.66						
Internal Loads				Internal Loads										
Lights	37,278	9,319	46,597	15	37,278	Lights	0	0.00						
People	57,520	0	57,520	18	30,870	People	0	0.00						
Misc	82,531	0	82,531	26	82,531	Misc	0	0.00						
Sub Total ==>	177,329	9,319	186,648	58	150,679	Sub Total ==>	0	0.00						
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	29,130	9	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-211,338	68.03						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	-569	-569	0	0	OA Preheat Diff.	-19,980	6.43						
Sup. Fan Heat	0	0	6,309	2	0	RA Preheat Diff.	-12,045	3.88						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	275,410	8,750	319,599	100.00	248,997	Grand Total ==>	-278,634	310,659	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	10,646	10,646
Terminal	10,646	10,646
Main Fan	10,646	10,646
Sec Fan	0	0
Nom Vent	650	0
AHU Vent	650	0
Infil	0	0
MinStop/Rh	0	0
Return	10,646	10,646
Exhaust	650	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.1	0.0
cfm/ft²	1.46	1.46
cfm/ton	399.74	
ft²/ton	273.04	
Btu/hr-ft²	43.95	0.00
No. People	130.0	17.9/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	26.6	319.6	282.4	10,646	77.4	63.6	67.9	53.0	53.0	62.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	26.6	319.6								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	7,272		
Part	973		
Int Door	0		
ExFlr	0		
Roof	7,272	0	0
Wall	239	191	80
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	10,646	67.2	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GAD

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling	Heating					
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB	53.5	94.0				
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	75.0	70.0				
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Ret/OA	75.0	70.0				
Envelope Loads				Envelope Loads							AIRFLOWS				
Skylite Solar	0	0	0	0	0	0	0	0.00	Skylite Solar	0	0	0.00	Diffuser	279	279
Skylite Cond	0	0	0	0	0	0	0	0.00	Skylite Cond	0	0	0.00	Terminal	279	279
Roof Cond	1,542	0	1,542	19	1,542	24	-804	9.99	Roof Cond	-804	-804	9.99	Main Fan	279	279
Glass Solar	0	0	0	0	0	0	0	0.00	Glass Solar	0	0	0.00	Sec Fan	0	0
Glass/Door Cond	0	0	0	0	0	0	0	0.00	Glass/Door Cond	0	0	0.00	Nom Vent	15	0
Wall Cond	0	0	0	0	0	0	0	0.00	Wall Cond	0	0	0.00	AHU Vent	15	0
Partition/Door	1,047	0	1,047	13	1,047	16	-2,017	25.08	Partition/Door	-2,017	-2,017	25.08	Infil	0	0
Floor	0	0	0	0	0	0	0	0.00	Floor	0	0	0.00	MinStop/Rh	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	Adjacent Floor	0	0	0.00	Return	279	279
Infiltration	0	0	0	0	0	0	0	0.00	Infiltration	0	0	0.00	Exhaust	15	0
Sub Total ==>	2,590	0	2,590	32	2,590	40	-2,820	35.07	Sub Total ==>	-2,820	-2,820	35.07	Rm Exh	0	0
Internal Loads				Internal Loads							ENGINEERING CKS				
Lights	878	0	878	11	878	13	0	0.00	Lights	0	0	0.00	% OA	5.4	0.0
People	1,314	0	1,314	16	699	11	0	0.00	People	0	0	0.00	cfm/ft²	1.96	1.96
Misc	2,360	0	2,360	30	2,360	36	0	0.00	Misc	0	0	0.00	cfm/ton	419.68	
Sub Total ==>	4,552	0	4,552	57	3,937	60	0	0.00	Sub Total ==>	0	0	0.00	ft²/ton	214.37	
Ceiling Load	0	0	0	0	0	0	0	0.00	Ceiling Load	0	0	0.00	Btu/hr-ft²	55.98	0.00
Ventilation Load	0	0	672	8	0	0	0	0.00	Ventilation Load	0	0	0.00	No. People	3.0	21.0/1000 ft²
Adj Air Trans Heat	0	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	-4,483	55.74	Ov/Undr Sizing	-4,483	-4,483	55.74			
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	Exhaust Heat	0	0	0.00			
Exhaust Heat	0	0	0	0	0	0	-461	5.73	OA Preheat Diff.	-461	-461	5.73			
Sup. Fan Heat	0	165	165	2	0	0	-278	3.46	RA Preheat Diff.	-278	-278	3.46			
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	Additional Reheat	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	System Plenum Heat	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	Underflr Sup Ht Pkup	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	Supply Air Leakage	0	0	0.00			
Grand Total ==>	7,142	0	7,979	100.00	6,527	100.00	-7,304	100.00	Grand Total ==>	-7,304	-8,043	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft² (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F	
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	0.7	8.0	7.1	279	76.4	63.2	67.7	53.0	53.0	63.2	Floor	143	0.0	279	67.6	94.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0	0.0	0	0.0	0.0	
											ExFlr	0	0.0	0	0.0	0.0	
Total	0.7	8.0									Roof	143	0	0	0.0	0.0	
											Wall	0	0	0	0.0	0.0	
											Ext Door	0	0	0	0.0	0.0	
											Total	0.0	0.0	0.0	0.0	0.0	

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GAU

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens						
Envelope Loads							Envelope Loads							
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0.00					
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0.00					
Roof Cond	3,311	0	3,311	30	3,311	34	Roof Cond	-1,719	14.89					
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0.00					
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0.00					
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0.00					
Partition/Door	1,049		1,049	9	1,049	11	Partition/Door	-2,017	17.47					
Floor	0		0	0	0	0	Floor	0	0.00					
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0.00					
Infiltration	0		0	0	0	0	Infiltration	0	0.00					
<i>Sub Total ==></i>	4,360	0	4,360	39	4,360	45	<i>Sub Total ==></i>	-3,736	32.36					
Internal Loads							Internal Loads							
Lights	1,932	0	1,932	17	1,932	20	Lights	0	0.00					
People	1,324	0	1,324	12	709	7	People	0	0.00					
Misc	2,655	0	2,655	24	2,655	27	Misc	0	0.00					
<i>Sub Total ==></i>	5,911	0	5,911	53	5,296	55	<i>Sub Total ==></i>	0	0.00					
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0.00					
Ventilation Load	0	0	672	6	0	0	Ventilation Load	0	0.00					
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0					
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-7,069	61.23					
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat	0	0.00					
Exhaust Heat		0	0	0			OA Preheat Diff.	-461	3.99					
Sup. Fan Heat			245	2			RA Preheat Diff.	-278	2.41					
Ret. Fan Heat		0	0	0			Additional Reheat	0	0.00					
Duct Heat Pkup		0	0	0			System Plenum Heat	0	0.00					
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup	0	0.00					
Supply Air Leakage		0	0	0			Supply Air Leakage	0	0.00					
Grand Total ==>	10,271	0	11,188	100.00	9,656	100.00	Grand Total ==>	-10,805	-11,544	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	413	413
Terminal	413	413
Main Fan	413	413
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	413	413
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	3.6	0.0
cfm/ft²	1.35	1.35
cfm/ton	442.83	
ft²/ton	327.08	
Btu/hr-ft²	36.69	0.00
No. People	3.0	9.8/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.9	11.2	10.3	413	76.0	63.0	67.3	53.0	53.0	63.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.9	11.2								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	305		
Part	115		
Int Door	0		
ExFlr	0		
Roof	305	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			°F	°F
Main Htg	0.0	413	68.4	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GCC

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling		Heating	SADB	53.5	94.0
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			Ra Plenum		70.0	Return	75.0	70.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict		
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	(%)	76.4	0.1	0.0	0.4		
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling		Heating			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Diffuser		Terminal			
Roof Cond	1,542	0	1,542	19	24	Roof Cond	-804	9.99	Main Fan		Sec Fan			
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00	Nom Vent		AHU Vent			
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00	Infil		MinStop/Rh			
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00	Return		Exhaust			
Partition/Door	1,047	0	1,047	13	16	Partition/Door	-2,017	25.08	Rm Exh		Auxiliary			
Floor	0	0	0	0	0	Floor	0	0.00	Leakage Dwn		Leakage Ups			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	2,590	0	2,590	32	40	Sub Total ==>	-2,820	35.07						
Internal Loads				Internal Loads							ENGINEERING CKS			
Lights	878	0	878	11	13	Lights	0	0.00	% OA		5.4		0.0	
People	1,314	0	1,314	16	11	People	0	0.00	cfm/ft²		1.96		1.96	
Misc	2,360	0	2,360	30	36	Misc	0	0.00	cfm/ton		419.68			
Sub Total ==>	4,552	0	4,552	57	60	Sub Total ==>	0	0.00	ft²/ton		214.37			
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00	Btu/hr-ft²		55.98		0.00	
Ventilation Load	0	0	672	8	0	Ventilation Load	0	0.00	No. People		3.0		21.0/1000 ft²	
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,483	55.74						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-461	5.73						
Sup. Fan Heat	0	165	165	2	2	RA Preheat Diff.	-278	3.46						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	7,142	0	7,979	100.00	6,527	100.00	Grand Total ==>	-7,304	-8,043	100.00				

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Ent	Lvg				
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F					°F	gr/lb	ft²	(%)
Main Clg	0.7	8.0	7.1	279	76.4	63.2	67.7	53.0	53.0	63.2	Floor	143		Main Htg	0.0	279	67.6	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.7	8.0									Roof	143	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GGE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		75.0	76.4	0.1	0.1	0.4	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Roof Cond	1,542	0	1,542	19	1,542	24	-804	9.99	-804	-804	0	0	0	
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Wall Cond	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Partition/Door	1,047	0	1,047	13	1,047	16	-2,017	25.08	-2,017	-2,017	0	0	0	
Floor	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Sub Total ==>	2,590	0	2,590	32	2,590	40	-2,820	35.07	-2,820	-2,820	0	0	0	
Internal Loads				Internal Loads										
Lights	878	0	878	11	878	13	0	0.00	0	0	0	0	0	
People	1,314	0	1,314	16	699	11	0	0.00	0	0	0	0	0	
Misc	2,360	0	2,360	30	2,360	36	0	0.00	0	0	0	0	0	
Sub Total ==>	4,552	0	4,552	57	3,937	60	0	0.00	0	0	0	0	0	
Ceiling Load	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Ventilation Load	0	0	672	8	0	0	0	0.00	0	0	0	0	0	
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dehumid. Ov Sizing	0	0	0	0	0	0	-4,483	55.74	-4,483	-4,483	0	0	0	
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Exhaust Heat	0	0	0	0	0	0	-461	5.73	-461	-461	0	0	0	
Sup. Fan Heat	0	0	165	2	0	0	-278	3.46	-278	-278	0	0	0	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Grand Total ==>	7,142	0	7,979	100.00	6,527	100.00	-7,304	100.00	-8,043	-8,043	0	0	0	

AIRFLOWS		
	Cooling	Heating
Diffuser	279	279
Terminal	279	279
Main Fan	279	279
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	279	279
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	5.4	0.0
cfm/ft²	1.96	1.96
cfm/ton	419.68	
ft²/ton	214.37	
Btu/hr-ft²	55.98	0.00
No. People	3.0	21.0/1000 ft²

COOLING COIL SELECTION									
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.7	8.0	279	76.4	63.2	67.7	53.0	53.0	63.2
Aux Clg	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.7	8.0							

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	143		
Part	115		
Int Door	0		
ExFlr	0		
Roof	143	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	279	67.6	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GJU

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES						
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling		Heating	SADB	53.5	94.0			
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			Ra Plenum		70.0	Ra Plenum	75.0	70.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <td colspan="1">75.0</td> <td colspan="1">70.0</td> <td colspan="1">Ret/OA</td> <td colspan="1">76.4</td> <td colspan="1">70.0</td>	75.0	70.0	Ret/OA	76.4	70.0			
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD	0.1	0.0	Fn BldTD	0.1	0.0			
						Btu/h	Btu/h		Fn Frict	0.4	0.0						
Envelope Loads				Envelope Loads							AIRFLOWS						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling					Heating	Diffuser	279	279
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Terminal					279	279	279	
Roof Cond	1,542	0	1,542	19	1,542	Roof Cond	-804	9.99	Main Fan					279	279	279	
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00	Sec Fan					0	0	0	
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00	Nom Vent					15	0	0	
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00	AHU Vent					15	0	0	
Partition/Door	1,047	0	1,047	13	1,047	Partition/Door	-2,017	25.08	Infil					0	0	0	
Floor	0	0	0	0	0	Floor	0	0.00	MinStop/Rh					0	0	0	
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	Return					279	279	279	
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Exhaust					15	0	0	
<i>Sub Total ==></i>	2,590	0	2,590	32	2,590	<i>Sub Total ==></i>	-2,820	35.07	Rm Exh					0	0	0	
Internal Loads				Internal Loads							ENGINEERING CKS						
Lights	878	0	878	11	878	Lights	0	0.00	Cooling					Heating	% OA	5.4	0.0
People	1,314	0	1,314	16	699	People	0	0.00	cfm/ft²					1.96	1.96		
Misc	2,360	0	2,360	30	2,360	Misc	0	0.00	cfm/ton					419.68			
<i>Sub Total ==></i>	4,552	0	4,552	57	3,937	<i>Sub Total ==></i>	0	0.00	ft²/ton					214.37			
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00	Btu/hr-ft²					55.98	0.00		
Ventilation Load	0	0	672	8	0	Ventilation Load	0	0.00	No. People					3.0	21.0/1000 ft²		
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0									
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,483	55.74									
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00									
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-461	5.73									
Sup. Fan Heat	0	0	165	2	0	RA Preheat Diff.	-278	3.46									
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00									
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00									
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00									
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00									
Grand Total ==>	7,142	0	7,979	100.00	6,527	Grand Total ==>	-7,304	100.00									

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	%	Capacity	Coil Airflow	Ent	Lvq	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.7	8.0	7.1	279	76.4	63.2	67.7	53.0	53.0	63.2	Floor	143		Main Htg	0.0	279	67.6	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.7	8.0									Roof	143	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GSU

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	3,311	0	3,311	30	3,311	34	-1,719	14.89						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	1,049		1,049	9	1,049	11	-2,017	17.47						
Floor	0		0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0		0	0	0	0	0	0.00						
<i>Sub Total ==></i>	4,360	0	4,360	39	4,360	45	-3,736	32.36						
Internal Loads				Internal Loads										
Lights	1,932	0	1,932	17	1,932	20	0	0.00						
People	1,324	0	1,324	12	709	7	0	0.00						
Misc	2,655	0	2,655	24	2,655	27	0	0.00						
<i>Sub Total ==></i>	5,911	0	5,911	53	5,296	55	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	672	6	0	0	0	0.00						
Adj Air Trans Heat	0		0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			-7,069	61.23						
Ov/Undr Sizing	0		0	0	0	0	0	0.00						
Exhaust Heat		0	0	0			-461	3.99						
Sup. Fan Heat			245	2			-278	2.41						
Ret. Fan Heat		0	0	0			0	0.00						
Duct Heat Pkup		0	0	0			0	0.00						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage		0	0	0			0	0.00						
Grand Total ==>	10,271	0	11,188	100.00	9,656	100.00	-10,805	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	413	413
Terminal	413	413
Main Fan	413	413
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	413	413
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	3.6	0.0
cfm/ft²	1.35	1.35
cfm/ton	442.83	
ft²/ton	327.08	
Btu/hr-ft²	36.69	0.00
No. People	3.0	9.8/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.9	11.2	10.3	413	76.0	63.0	67.3	53.0	53.0	63.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.9	11.2								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	305		
Part	115		
Int Door	0		
ExFlr	0		
Roof	305	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	413	68.4	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION GTE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	1,542	0	1,542	19	1,542	24	-804	9.99						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	1,047		1,047	13	1,047	16	-2,017	25.08						
Floor	0		0	0	0	0	0	0.00						
Adjacent Floor	0		0	0	0	0	0	0.00						
Infiltration	0		0	0	0	0	0	0.00						
<i>Sub Total ==></i>	2,590	0	2,590	32	2,590	40	-2,820	35.07						
Internal Loads				Internal Loads										
Lights	878	0	878	11	878	13	0	0.00						
People	1,314	0	1,314	16	699	11	0	0.00						
Misc	2,360	0	2,360	30	2,360	36	0	0.00						
<i>Sub Total ==></i>	4,552	0	4,552	57	3,937	60	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	672	8	0	0	0	0.00						
Adj Air Trans Heat	0		0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			-4,483	55.74						
Ov/Undr Sizing	0		0	0	0	0	0	0.00						
Exhaust Heat		0	0	0			-461	5.73						
Sup. Fan Heat			165	2			-278	3.46						
Ret. Fan Heat		0	0	0			0	0.00						
Duct Heat Pkup		0	0	0			0	0.00						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage		0	0	0			0	0.00						
Grand Total ==>	7,142	0	7,979	100.00	6,527	100.00	-7,304	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	279	279
Terminal	279	279
Main Fan	279	279
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	279	279
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	5.4	0.0
cfm/ft²	1.96	1.96
cfm/ton	419.68	
ft²/ton	214.37	
Btu/hr-ft²	55.98	0.00
No. People	3.0	21.0/1000 ft²

COOLING COIL SELECTION									
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.7	8.0	279	76.4	63.2	67.7	53.0	53.0	63.2
Aux Clg	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.7	8.0							

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	143		
Part	115		
Int Door	0		
ExFlr	0		
Roof	143	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	279	67.6	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 15		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling	Heating			
Outside Air:		OADB/WB/HR: 102 / 75 / 90		OADB: 101		OADB: 25			SADB	53.5	94.0		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	75.0	70.0		
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Ret/OA	75.0	70.0		
						Btu/h	Btu/h		Fn MtrTD	0.1	0.0		
Envelope Loads				Envelope Loads							AIRFLOWS		
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Diffuser	928	928		
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Terminal	928	928		
Roof Cond	9,568	0	9,568	35	9,433	43	Roof Cond	-4,888	17.95	Main Fan	928	928	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0.00	Sec Fan	0	0	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0.00	Nom Vent	60	0	
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0.00	AHU Vent	60	0	
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0.00	Infil	0	0	
Floor	0	0	0	0	0	0	Floor	0	0.00	MinStop/Rh	0	0	
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0.00	Return	928	928	
Infiltration	0	0	0	0	0	0	Infiltration	0	0.00	Exhaust	60	0	
Sub Total ==>	9,568	0	9,568	35	9,433	43	Sub Total ==>	-4,888	-4,888	17.95	Rm Exh	0	0
Internal Loads				Internal Loads							ENGINEERING CKS		
Lights	5,519	0	5,519	20	5,617	26	Lights	0	0.00	% OA	6.5	0.0	
People	5,300	0	5,300	19	2,865	13	People	0	0.00	cfm/ft²	1.07	1.07	
Misc	3,756	0	3,756	14	3,784	17	Misc	0	0.00	cfm/ton	405.85		
Sub Total ==>	14,575	0	14,575	53	12,266	57	Sub Total ==>	0	0.00	ft²/ton	379.24		
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0.00	Btu/hr-ft²	31.64	0.00	
Ventilation Load	0	0	2,738	10	0	0	Ventilation Load	0	0.00	No. People	12.0	13.8/1000 ft²	
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-19,393	-19,393	71.20			
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0.00				
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	-1,844	6.77				
Sup. Fan Heat	0	550	550	2	2	2	RA Preheat Diff.	-1,112	4.08				
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0.00				
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	0	0.00				
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00				
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0.00				
Grand Total ==>	24,143	0	27,431	100.00	21,698	100.00	Grand Total ==>	-24,281	-27,237	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Ent	Lvg				
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F					°F	gr/lb	ft²	(%)
Main Clg	2.3	27.4	24.0	928	76.8	63.4	68.0	53.0	53.0	62.6	Floor	867		Main Htg	0.0	928	67.1	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	2.3	27.4									Roof	867	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SJ1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling		Heating	SADB	53.5	94.0	
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			Ra Plenum		75.0	70.0	Return	75.0	70.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="3"></td> </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="3"></td> </th></th>	Fn BldTD <th>Fn Frict <td colspan="3"></td> </th>	Fn Frict <td colspan="3"></td>			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens Btu/h	(%)	76.7	0.1	0.0	0.0			
Envelope Loads				Envelope Loads											
Skylite Solar	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Roof Cond	3,167	0	3,167	11	14	-1,650	-1,650	6.02	0.1	0.0	0.0	0.0			
Glass Solar	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Wall Cond	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Partition/Door	2,149	0	2,149	8	10	-4,139	-4,139	15.11	0.1	0.0	0.0	0.0			
Floor	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Infiltration	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
<i>Sub Total ==></i>	5,316	0	5,316	19	24	-5,789	-5,789	21.13	0.1	0.0	0.0	0.0			
Internal Loads				Internal Loads											
Lights	1,803	0	1,803	7	8	0	0	0.00	0.1	0.0	0.0	0.0			
People	5,258	0	5,258	19	13	0	0	0.00	0.1	0.0	0.0	0.0			
Misc	11,929	0	11,929	43	55	0	0	0.00	0.1	0.0	0.0	0.0			
<i>Sub Total ==></i>	18,989	0	18,989	69	76	0	0	0.00	0.1	0.0	0.0	0.0			
Ceiling Load	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Ventilation Load	0	0	2,689	10	0	0	0	0.00	0.1	0.0	0.0	0.0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0.1	0.0	0.0	0.0			
Dehumid. Ov Sizing	0	0	0	0	0	-18,656	-18,656	68.08	0.1	0.0	0.0	0.0			
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Exhaust Heat	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Sup. Fan Heat	0	0	554	2	0	0	0	0.00	0.1	0.0	0.0	0.0			
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0.1	0.0	0.0	0.0			
Grand Total ==>	24,305	0	27,548	100.00	21,845	100.00	-24,446	-27,402	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	934	934
Terminal	934	934
Main Fan	934	934
Sec Fan	0	0
Nom Vent	60	0
AHU Vent	60	0
Infil	0	0
MinStop/Rh	0	0
Return	934	934
Exhaust	60	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.4	0.0
cfm/ft²	3.19	3.19
cfm/ton	406.88	
ft²/ton	127.49	
Btu/hr-ft²	94.13	0.00
No. People	12.0	41.0/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	2.3	27.6	24.1	934	76.7	63.4	67.9	53.0	53.0	62.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.3	27.6								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	293		
Part	236		
Int Door	0		
ExFlr	0		
Roof	293	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	934	67.1	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SJ3

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25						SADB	53.5	94.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	77.1	70.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.1	0.0
Roof Cond	1,542	0	1,542	20	1,542	27	-804	10.78	-804	-804	10.78	Fn Frict	0.4	0.0
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00			
Wall Cond	0	0	0	0	0	0	0	0.00	0	0	0.00			
Partition/Door	1,047	0	1,047	14	1,047	18	-2,017	27.07	-2,017	-2,017	27.07			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	2,589	0	2,589	34	2,589	45	-2,820	37.85	-2,820	-2,820	37.85			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	878	0	878	11	878	15	0	0.00	0	0	0.00	Cooling	Heating	
People	1,753	0	1,753	23	933	16	0	0.00	0	0	0.00	Diffuser	247	247
Misc	1,378	0	1,378	18	1,378	24	0	0.00	0	0	0.00	Terminal	247	247
<i>Sub Total ==></i>	4,009	0	4,009	52	3,189	55	0	0.00	0	0	0.00	Main Fan	247	247
Lighting	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Ventilation	0	0	896	12	0	0	0	0.00	0	0	0.00	Nom Vent	20	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	20	0
Dehumid. Ov Sizing	0	0	0	0	0	0	-3,646	48.93	-3,646	-3,646	48.93	Infil	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	MinStop/Rh	0	0
Exhaust Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Return	247	247
Sup. Fan Heat	0	146	146	2	0	0	-615	8.25	-615	-615	8.25	Exhaust	20	0
Ret. Fan Heat	0	0	0	0	0	0	-371	4.97	-371	-371	4.97	Rm Exh	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Auxiliary	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Dwn	0	0
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Ups	0	0
<i>Grand Total ==></i>	6,598	0	7,641	100.00	5,778	100.00	-6,466	100.00	-6,466	-7,451	100.00	ENGINEERING CKS		

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	%	Capacity	Coil Airflow	Ent	Lvq
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F							
Main Clg	0.6	7.6	6.5	247	77.1	63.6	68.3	53.0	53.0	61.6	Floor	143		0.0	247	66.3	94.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115		0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		0.0	0	0.0	0.0
											ExFlr	0		0.0	0	0.0	0.0
Total	0.6	7.6									Roof	143	0	0.0	0	0.0	0.0
											Wall	0	0	0	0.0	0	0.0
											Ext Door	0	0	0	0.0	0	0.0

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SJ4

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	4,190	0	4,190	13	4,190	16	-2,179	6.61						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	2,077	0	2,077	6	2,077	8	-3,997	12.11						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
<i>Sub Total ==></i>	6,267	0	6,267	19	6,267	24	-6,176	18.72						
Internal Loads				Internal Loads										
Lights	2,410	0	2,410	7	2,410	9	0	0.00						
People	6,152	0	6,152	19	3,282	12	0	0.00						
Misc	14,440	0	14,440	44	14,440	55	0	0.00						
<i>Sub Total ==></i>	23,002	0	23,002	70	20,132	76	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	3,137	9	0	0	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	-23,365	70.82						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-2,152	6.52						
Sup. Fan Heat	0	0	669	2	0	0	-1,297	3.93						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	29,269	0	33,075	100.00	26,399	100.00	-29,541	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	1,129	1,129
Terminal	1,129	1,129
Main Fan	1,129	1,129
Sec Fan	0	0
Nom Vent	70	0
AHU Vent	70	0
Infil	0	0
MinStop/Rh	0	0
Return	1,129	1,129
Exhaust	70	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.2	0.0
cfm/ft²	2.92	2.92
cfm/ton	409.52	
ft²/ton	140.23	
Btu/hr-ft²	85.57	0.00
No. People	14.0	36.2/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	2.8	33.1	29.1	1,129	76.6	63.3	67.9	53.0	53.0	62.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.8	33.1								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	387		
Part	228		
Int Door	0		
ExFlr	0		
Roof	387	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	1,129	67.2	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SL

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25						SADB	53.5	94.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	77.1	70.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.1	0.0
Roof Cond	1,542	0	1,542	27	1,542	35	Roof Cond	-804	-804	14.19		Fn Frict	0.4	0.0
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00						
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00						
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00						
Partition/Door	1,047	0	1,047	18	1,047	24	Partition/Door	-2,017	-2,017	35.61				
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
<i>Sub Total ==></i>	2,590	0	2,590	45	2,590	59	<i>Sub Total ==></i>	-2,820	-2,820	49.80				
Internal Loads				Internal Loads										
Lights	878	0	878	15	878	20	Lights	0	0	0.00				
People	1,314	0	1,314	23	699	16	People	0	0	0.00				
Misc	233	0	233	4	233	5	Misc	0	0	0.00				
<i>Sub Total ==></i>	2,426	0	2,426	42	1,811	41	<i>Sub Total ==></i>	0	0	0.00				
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0	0.00				
Ventilation Load	0	0	672	12	0	0	Ventilation Load	0	0	0.00				
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-2,104	-2,104	37.15				
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0	0.00				
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	-461	-461	8.14				
Sup. Fan Heat	0	0	111	2	0	0	RA Preheat Diff.	-278	-278	4.91				
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00				
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	0	0	0.00				
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00				
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00				
Grand Total ==>	5,015	0	5,799	100.00	4,400	100.00	Grand Total ==>	-4,924	-5,663	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	188	188
Terminal	188	188
Main Fan	188	188
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	188	188
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	8.0	0.0
cfm/ft²	1.32	1.32
cfm/ton	389.33	
ft²/ton	294.96	
Btu/hr-ft²	40.68	0.00
No. People	3.0	21.0/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.5	5.8	4.9	188	77.1	63.6	68.3	53.0	53.0	61.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.5	5.8								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	143		
Part	115		
Int Door	0		
ExFlr	0		
Roof	143	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	188	66.4	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SM

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	3,311	0	3,311	30	3,311	34	-1,719	14.89						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	1,049		1,049	9	1,049	11	-2,017	17.47						
Floor	0		0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0		0	0	0	0	0	0.00						
<i>Sub Total ==></i>	4,360	0	4,360	39	4,360	45	-3,736	32.36						
Internal Loads				Internal Loads										
Lights	1,932	0	1,932	17	1,932	20	0	0.00						
People	1,324	0	1,324	12	709	7	0	0.00						
Misc	2,655	0	2,655	24	2,655	27	0	0.00						
<i>Sub Total ==></i>	5,911	0	5,911	53	5,296	55	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	672	6	0	0	0	0.00						
Adj Air Trans Heat	0		0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			-7,069	61.23						
Ov/Undr Sizing	0		0	0	0	0	0	0.00						
Exhaust Heat		0	0	0			-461	3.99						
Sup. Fan Heat			245	2			-278	2.41						
Ret. Fan Heat		0	0	0			0	0.00						
Duct Heat Pkup		0	0	0			0	0.00						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage		0	0	0			0	0.00						
Grand Total ==>	10,271	0	11,188	100.00	9,656	100.00	-10,805	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	413	413
Terminal	413	413
Main Fan	413	413
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	413	413
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	3.6	0.0
cfm/ft²	1.35	1.35
cfm/ton	442.83	
ft²/ton	327.08	
Btu/hr-ft²	36.69	0.00
No. People	3.0	9.8/1000 ft²

COOLING COIL SELECTION									
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.9	11.2	413	76.0	63.0	67.3	53.0	53.0	63.4
Aux Clg	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.9	11.2							

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	305		
Part	115		
Int Door	0		
ExFlr	0		
Roof	305	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	413	68.4	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION SME

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling		Heating	SADB	53.5	94.0
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			Ra Plenum		70.0	Return	75.0	70.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="2"></td> </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="2"></td> </th></th>	Fn BldTD <th>Fn Frict <td colspan="2"></td> </th>	Fn Frict <td colspan="2"></td>		
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		76.0	0.1	0.0	0.4		
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling		Heating			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Diffuser	413	413			
Roof Cond	3,311	0	3,311	30	3,311	Roof Cond	-1,719	14.89	Terminal	413	413			
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00	Main Fan	413	413			
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00	Sec Fan	0	0			
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00	Nom Vent	15	0			
Partition/Door	1,049	0	1,049	9	1,049	Partition/Door	-2,017	17.47	AHU Vent	15	0			
Floor	0	0	0	0	0	Floor	0	0.00	Infil	0	0			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	MinStop/Rh	0	0			
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Return	413	413			
Sub Total ==>	4,360	0	4,360	39	4,360	Sub Total ==>	-3,736	32.36	Exhaust	15	0			
Internal Loads				Internal Loads							ENGINEERING CKS			
Lights	1,932	0	1,932	17	1,932	Lights	0	0.00	% OA	3.6	0.0			
People	1,324	0	1,324	12	709	People	0	0.00	cfm/ft²	1.35	1.35			
Misc	2,655	0	2,655	24	2,655	Misc	0	0.00	cfm/ton	442.83				
Sub Total ==>	5,911	0	5,911	53	5,296	Sub Total ==>	0	0.00	ft²/ton	327.08				
Ceiling Load				Ceiling Load							Btu/hr-ft²			
Ventilation Load	0	0	672	6	0	Ventilation Load	0	0.00		36.69	0.00			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	No. People		3.0	9.8/1000 ft²		
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-7,069	61.23						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-461	3.99						
Sup. Fan Heat	0	0	245	2	0	RA Preheat Diff.	-278	2.41						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	10,271	0	11,188	100.00	9,656	100.00	Grand Total ==>	-10,805	-11,544	100.00				

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Ent	Lvg					
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F					°F	gr/lb	ft²	(%)	MBh
Main Clg	0.9	11.2	10.3	413	76.0	63.0	67.3	53.0	53.0	63.4	Floor	305		Main Htg	0.0	413	68.4	94.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	115		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0	
											ExFlr	0							
Total	0.9	11.2									Roof	305	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION UM

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	4,037	0	4,037	11	4,037	17	-2,127	6.29						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	7,678		7,678	21	7,678	33	-14,861	43.97						
Floor	0		0	0	0	0	0	0.00						
Adjacent Floor	0		0	0	0	0	0	0.00						
Infiltration	0		0	0	0	0	0	0.00						
<i>Sub Total ==></i>	11,715	0	11,715	32	11,715	50	-16,988	50.26						
Internal Loads				Internal Loads										
Lights	2,261	0	2,261	6	2,261	10	0	0.00						
People	13,059	0	13,059	35	6,909	29	0	0.00						
Misc	2,715	0	2,715	7	2,715	12	0	0.00						
<i>Sub Total ==></i>	18,035	0	18,035	49	11,885	50	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	6,722	18	0	0	0	0.00						
Adj Air Trans Heat	0		0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			-9,421	27.87						
Ov/Undr Sizing	0		0	0	0	0	0	0.00						
Exhaust Heat		0	0	0			-4,611	13.64						
Sup. Fan Heat			598	2			-2,780	8.22						
Ret. Fan Heat		0	0	0			0	0.00						
Duct Heat Pkup		0	0	0			0	0.00						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage		0	0	0			0	0.00						
Grand Total ==>	29,750	0	37,070	100.00	23,600	100.00	-26,409	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	1,009	1,009
Terminal	1,009	1,009
Main Fan	1,009	1,009
Sec Fan	0	0
Nom Vent	150	0
AHU Vent	150	0
Infil	0	0
MinStop/Rh	0	0
Return	1,009	1,009
Exhaust	150	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	14.9	0.0
cfm/ft²	2.67	2.67
cfm/ton	326.64	
ft²/ton	122.11	
Btu/hr-ft²	98.27	0.00
No. People	30.0	79.5/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	3.1	37.1	28.5	1,009	78.9	64.5	69.9	53.0	52.0	57.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	3.1	37.1								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	377		
Part	847		
Int Door	0		
ExFlr	0		
Roof	377	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	1,009	63.3	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Room Checksums

By INGENOR MEXICO S.A. DE C.V.

DELEGACION VU

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 4 / 16		Mo/Hr: 4 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 101 / 75 / 90		OADB: 101		OADB: 25						SADB	53.5	94.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	76.3	70.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.1	0.0
Roof Cond	1,676	0	1,676	19	1,676	23	Roof Cond	-876	-876	9.83		Fn Frict	0.4	0.0
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00				
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00				
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00				
Partition/Door	1,596	0	1,596	18	1,596	22	Partition/Door	-3,078	-3,078	34.57				
Floor	0	0	0	0	0	0	Floor	0	0	0.00				
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00				
Infiltration	0	0	0	0	0	0	Infiltration	0	0	0.00				
<i>Sub Total ==></i>	3,273	0	3,273	37	3,273	45	<i>Sub Total ==></i>	-3,953	-3,953	44.41				
Internal Loads				Internal Loads										
Lights	950	0	950	11	950	13	Lights	0	0	0.00				
People	1,312	0	1,312	15	697	10	People	0	0	0.00				
Misc	2,375	0	2,375	27	2,375	33	Misc	0	0	0.00				
<i>Sub Total ==></i>	4,637	0	4,637	53	4,022	55	<i>Sub Total ==></i>	0	0	0.00				
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0	0.00				
Ventilation Load	0	0	672	8	0	0	Ventilation Load	0	0	0.00				
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-4,210	-4,210	47.29				
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0	0.00				
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	-461	-461	5.18				
Sup. Fan Heat	0	0	185	2	0	0	RA Preheat Diff.	-278	-278	3.12				
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00				
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	0	0	0.00				
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00				
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00				
Grand Total ==>	7,910	0	8,767	100.00	7,295	100.00	Grand Total ==>	-8,164	-8,903	100.00				

AIRFLOWS

	Cooling	Heating
Diffuser	312	312
Terminal	312	312
Main Fan	312	312
Sec Fan	0	0
Nom Vent	15	0
AHU Vent	15	0
Infil	0	0
MinStop/Rh	0	0
Return	312	312
Exhaust	15	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	4.8	0.0
cfm/ft²	2.01	2.01
cfm/ton	426.94	
ft²/ton	212.55	
Btu/hr-ft²	56.46	0.00
No. People	3.0	19.3/1000 ft²

COOLING COIL SELECTION

	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.7	8.8	7.9	312	76.3	63.1	67.6	53.0	53.0	63.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.7	8.8								

AREAS

	Gross Total	Glass ft²	(%)
Floor	155		
Part	176		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			°F	°F
Main Htg	0.0	312	67.8	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	0.0			

Design Cooling Load Summary

By INGENOR MEXICO S.A. DE C.V.
 CECIS UNIDAD SALTILLO
 SALTILLO, COAHUILA

System - UGAR SALTILLO

Zone - SALTILLO CECIS

Coil Location - Zone

Coil Peak Calculation Time: April, hour 16

Ambient DB/WB/HR: 101 / 75 / 90

COOLING COIL LOAD INFORMATION

COOLING COIL SELECTION

Load Component	Sensible Btu/h	Latent Btu/h	Total Btu/h	Percent of Total
Solar Gain	72,630		72,630	18.3%
Glass Transmission	28,117		28,117	7.1%
Wall Transmission	13,286		13,286	3.3%
Roof Transmission	50,521		50,521	12.7%
Floor Transmission	0		0	0.0%
Adj Floor Transmission	0		0.00	0.0%
Partition Transmission	23,063		23,063	5.8%
Net Ceiling Load	0		0	0.0%
Lighting	24,124		24,124	6.1%
People	35,255	31,160	66,415	16.7%
Misc. Equipment Loads	72,300	0	72,300	18.2%
Cooling Infiltration	0	0	0	0.0%
Sub-Total ==>	319,295	31,160	350,455	88.4%
Ventilation Load	21,705	12,242	33,947	8.6%
Exhaust Heat	-284	0	-284	-0.1%
Supply Fan Load	8,099		8,099	2.0%
Return Fan Load	0		0	0.0%
Net Duct Heat Pickup	0		0	0.0%
Wall Load to Plenum	0		0	0.0%
Roof Load to Plenum	0		0	0.0%
Adj Floor to Plenum	0		0	0.0%
Lighting Load to Plenum	4,441		4,441	1.1%
Misc. Equip. Load to Plenum	0	0	0	0.0%
Glass Transmission to Plenum	0		0	0.0%
Glass Solar to Plenum	0		0	0.0%
Over/Under Sizing	0		0	0.0%
Reheat at Design	0	0	0	0.0%
Underfloor Sup Heat Pickup	0		0	0.0%
Supply Air Leakage	0	0	0	0.0%
Total Cooling Loads	353,257	43,402	396,659	100.0 %

Coil Selection Parameters	
Coil Entering Air (DB / WB)	76.7 / 63.3 °F
Coil Entering Humidity Ratio	67.72 gr/lb
Coil Leaving Air (DB / WB)	53.0 / 53.0 °F
Coil Leaving Humidity Ratio	63.14 gr/lb
Coil Sensible Load	353.26 MBh
Coil Total Load	396.66 MBh
Cooling Supply Air Temperature	53.54 °F
Total Cooling Airflow	13,666.92 cfm
Resulting Room Relative Humidity	50.00 %

General Engineering Checks

Total Cooling Load	33.1 ton
Area / Load	141.88 ft²/ton
Total Floor Area	4,690 ft²
Cooling Airflow	2.91 cfm/ft²
Airflow / Load	413.46 cfm/ton
Percent Outdoor Air	5.6 %
Cooling Load Methodology	CLTD-CLF (ASHRAE TFM)

Design Cooling Load Summary

By INGENOR MEXICO S.A. DE C.V.
 CECIS UNIDAD SALTILLO
 SALTILLO, COAHUILA

System - UGAR SALTILLO

Zone - SALTILLO DELEGACION

Coil Location - Zone

Coil Peak Calculation Time: April, hour 16
 Ambient DB/WB/HR: 101 / 75 / 90

COOLING COIL LOAD INFORMATION

COOLING COIL SELECTION

Load Component	Sensible Btu/h	Latent Btu/h	Total Btu/h	Percent of Total
Solar Gain	5,168		5,168	0.8%
Glass Transmission	4,208		4,208	0.6%
Wall Transmission	789		789	0.1%
Roof Transmission	144,298		144,298	21.5%
Floor Transmission	0		0	0.0%
Adj Floor Transmission	0		0.00	0.0%
Partition Transmission	58,784		58,784	8.7%
Net Ceiling Load	0		0	0.0%
Lighting	74,581		74,581	11.1%
People	68,593	60,065	128,658	19.1%
Misc. Equipment Loads	167,789	0	167,789	25.0%
Cooling Infiltration	0	0	0	0.0%
Sub-Total ==>	524,209	60,065	584,274	86.9%
Ventilation Load	41,997	23,706	65,703	9.8%
Exhaust Heat	-569	0	-569	-0.1%
Supply Fan Load	13,289		13,289	2.0%
Return Fan Load	0		0	0.0%
Net Duct Heat Pickup	0		0	0.0%
Wall Load to Plenum	0		0	0.0%
Roof Load to Plenum	0		0	0.0%
Adj Floor to Plenum	0		0	0.0%
Lighting Load to Plenum	9,319		9,319	1.4%
Misc. Equip. Load to Plenum	0	0	0	0.0%
Glass Transmission to Plenum	0		0	0.0%
Glass Solar to Plenum	0		0	0.0%
Over/Under Sizing	0		0	0.0%
Reheat at Design	0	0	0	0.0%
Underfloor Sup Heat Pickup	0		0	0.0%
Supply Air Leakage	0	0	0	0.0%
Total Cooling Loads	588,246	83,771	672,017	100.0 %

Coil Selection Parameters	
Coil Entering Air (DB / WB)	77.1 / 63.5 °F
Coil Entering Humidity Ratio	67.96 gr/lb
Coil Leaving Air (DB / WB)	53.0 / 53.0 °F
Coil Leaving Humidity Ratio	62.55 gr/lb
Coil Sensible Load	588.25 MBh
Coil Total Load	672.02 MBh
Cooling Supply Air Temperature	53.54 °F
Total Cooling Airflow	22,425.63 cfm
Resulting Room Relative Humidity	50.00 %

General Engineering Checks

Total Cooling Load	56.0 ton
Area / Load	237.37 ft ² /ton
Total Floor Area	13,293 ft ²
Cooling Airflow	1.69 cfm/ft ²
Airflow / Load	400.45 cfm/ton
Percent Outdoor Air	6.5 %
Cooling Load Methodology	CLTD-CLF (ASHRAE TFM)

ZONE PSYCHROMETRIC STATE POINTS

By INGENOR MEXICO S.A. DE C.V.

SALTILLO CECIS

	Dry Bulb °F	Wet Bulb °F	Relative Humidity %	Humidity Ratio gr/lb	Enthalpy Btu/lb	Temperature Difference °F
Space	75.0	62.5	50.0	66.4	28.4	
Main System						
Return Fan						0.0
Return Air	75.3	62.6	49.5	66.4	28.5	
Return Air Heat Pickup						0.3
Outdoor Air	99.8	74.3	30.6	89.9	38.2	
Entering OA preconditioning	99.8	74.3	30.6	89.9	38.2	
Leaving OA preconditioning	99.8	74.3	30.6	89.9	38.2	
Return/Outdoor Air Mix	76.7	63.3	48.2	67.7	29.0	
Blow Through Fan						0.0
Entering Coil	76.7	63.3	48.2	67.7	29.0	
Leaving Coil	53.0	51.6	91.3	56.0	21.4	
Draw Through Fan						0.2
Fan Frictional Heat						0.4
Supply Duct Heat Gain						0.0
Reheat Device						0.0
Cold Deck Supply Air	53.5	51.8	89.5	56.0	21.5	
Supply Air	53.5	51.8	89.5	56.0	21.5	
Percent Outside Air	5.56					
Sensible Heat Ratio (SHR)	0.91	%				
Coil Airflow	13,667	cfm				

ZONE PSYCHROMETRIC STATE POINTS

By INGENOR MEXICO S.A. DE C.V.

SALTILLO DELEGACION

	Dry Bulb °F	Wet Bulb °F	Relative Humidity %	Humidity Ratio gr/lb	Enthalpy Btu/lb	Temperature Difference °F
Space	75.0	62.5	50.0	66.4	28.4	
Main System						
Return Fan						0.0
Return Air	75.4	62.6	49.4	66.4	28.5	
Return Air Heat Pickup						0.4
Outdoor Air	101.3	74.7	29.4	90.0	38.5	
Entering OA preconditioning	101.3	74.7	29.4	90.0	38.5	
Leaving OA preconditioning	101.3	74.7	29.4	90.0	38.5	
Return/Outdoor Air Mix	77.1	63.5	47.7	68.0	29.1	
Blow Through Fan						0.0
Entering Coil	77.1	63.5	47.7	68.0	29.1	
Leaving Coil	53.0	51.6	91.4	56.0	21.4	
Draw Through Fan						0.2
Fan Frictional Heat						0.4
Supply Duct Heat Gain						0.0
Reheat Device						0.0
Cold Deck Supply Air	53.5	51.8	89.6	56.0	21.5	
Supply Air	53.5	51.8	89.6	56.0	21.5	
Percent Outside Air	6.53					
Sensible Heat Ratio (SHR)	0.90	%				
Coil Airflow	22,426	cfm				