

DEAD SEA COMPLEX

MECHANICAL CALCULATIONS REPORT

WEATHER DATA

WEATHER PARAMETERS

City Name : MAI'N

11-03-00

Location : Jordan

Block Load v2.00

Prepared By: / ENGINEERS

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TABLE 1. DESIGN PARAMETERS

 City Name.....: MAI'N
 Location.....: Jordan

 Latitude.....: 32.0 deg
 Elevation.....: 107.0 m
 Summer Design Dry Bulb Temp.....: 40.0 C
 Summer Coincident Wet Bulb Temp.....: 21.1 C
 Daily Temperature Range.....: 14.0 K
 Winter Design Dry Bulb Temp.....: 10.0 C
 Atmospheric Clearness Number.....: 1.00

TABLE 2. MAXIMUM DAILY SOLAR HEAT GAINS (W/sqm)

Month	NE	E	SE	S	SW	W	NW	N	Hor
Jan	92.7	553.0	783.9	777.3	783.9	553.0	92.7	74.1	556.2
Feb	203.5	646.1	782.7	695.9	782.7	646.1	203.5	86.4	684.2
Mar	338.5	716.7	716.4	553.9	716.4	716.7	338.5	99.4	795.3
Apr	462.1	715.1	590.5	362.8	590.5	715.1	462.1	112.0	854.3
May	535.0	694.0	487.7	232.8	487.7	694.0	535.0	120.8	872.6
Jun	556.2	676.7	439.8	190.5	439.8	676.7	556.2	147.6	871.0
Jul	526.2	679.5	474.5	226.2	474.5	679.5	526.2	126.2	860.9
Aug	446.1	690.2	569.7	350.2	569.7	690.2	446.1	117.4	836.6
Sep	324.3	678.6	688.3	540.1	688.3	678.6	324.3	102.8	769.1
Oct	200.0	616.4	755.2	676.7	755.2	616.4	200.0	89.0	671.6
Nov	93.1	544.5	772.2	766.3	772.2	544.5	93.1	75.4	552.7
Dec	68.8	512.3	777.3	794.3	777.3	512.3	68.8	68.8	499.7

WEATHER PARAMETERS

City Name : MAI'N

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TABLE 3. COOLING DESIGN TEMPERATURE PROFILES (DB/WB in C)

Hr	January	February	March	April	May	June
000	22.5/ 13.1	23.6/ 13.8	25.3/ 15.6	25.8/ 15.7	26.8/ 16.3	27.9/ 17.5
100	21.8/ 12.8	22.9/ 13.5	24.6/ 15.3	25.2/ 15.4	26.2/ 16.1	27.3/ 17.3
200	21.1/ 12.6	22.2/ 13.2	23.9/ 15.1	24.4/ 15.2	25.4/ 15.8	26.6/ 17.0
300	20.6/ 12.3	21.7/ 13.0	23.3/ 14.8	23.9/ 15.0	24.9/ 15.7	26.0/ 16.8
400	20.2/ 12.2	21.3/ 12.8	22.9/ 14.7	23.5/ 14.8	24.5/ 15.5	25.6/ 16.7
500	20.0/ 12.1	21.1/ 12.8	22.8/ 14.7	23.3/ 14.8	24.3/ 15.4	25.4/ 16.6
600	20.3/ 12.2	21.4/ 12.9	23.1/ 14.8	23.6/ 14.9	24.6/ 15.6	25.7/ 16.7
700	21.0/ 12.5	22.1/ 13.2	23.8/ 15.0	24.3/ 15.2	25.3/ 15.8	26.4/ 16.9
800	22.2/ 13.0	23.3/ 13.7	25.0/ 15.5	25.6/ 15.6	26.6/ 16.3	27.7/ 17.4
900	24.1/ 13.7	25.2/ 14.4	26.8/ 16.1	27.4/ 16.3	28.4/ 16.9	29.5/ 18.0
1000	26.2/ 14.6	27.3/ 15.2	28.9/ 16.9	29.5/ 17.0	30.5/ 17.6	31.6/ 18.7
1100	28.6/ 15.4	29.7/ 16.0	31.3/ 17.7	31.9/ 17.8	32.9/ 18.4	34.0/ 19.4
1200	30.8/ 16.2	31.9/ 16.8	33.6/ 18.4	34.1/ 18.6	35.1/ 19.1	36.2/ 20.2
1300	32.4/ 16.8	33.6/ 17.4	35.2/ 18.9	35.8/ 19.1	36.8/ 19.7	37.9/ 20.7
1400	33.6/ 17.2	34.7/ 17.8	36.3/ 19.3	36.9/ 19.4	37.9/ 20.0	39.0/ 21.0
1500	34.0/ 17.3	35.1/ 17.9	36.8/ 19.4	37.3/ 19.6	38.3/ 20.1	39.4/ 21.1
1600	33.6/ 17.2	34.7/ 17.8	36.3/ 19.3	36.9/ 19.4	37.9/ 20.0	39.0/ 21.0
1700	32.6/ 16.8	33.7/ 17.4	35.4/ 19.0	35.9/ 19.1	36.9/ 19.7	38.1/ 20.7
1800	31.1/ 16.3	32.2/ 16.9	33.8/ 18.5	34.4/ 18.6	35.4/ 19.2	36.5/ 20.2
1900	29.2/ 15.7	30.3/ 16.3	32.0/ 17.9	32.6/ 18.0	33.6/ 18.6	34.7/ 19.7
2000	27.4/ 15.0	28.6/ 15.6	30.2/ 17.3	30.8/ 17.4	31.8/ 18.0	32.9/ 19.1
2100	25.9/ 14.4	27.0/ 15.1	28.7/ 16.8	29.2/ 16.9	30.2/ 17.5	31.3/ 18.6
2200	24.5/ 13.9	25.6/ 14.6	27.3/ 16.3	27.8/ 16.4	28.8/ 17.0	29.9/ 18.2
2300	23.3/ 13.4	24.4/ 14.1	26.1/ 15.9	26.7/ 16.0	27.7/ 16.7	28.8/ 17.8

Hr	July	August	September	October	November	December
000	28.5/ 17.5	28.5/ 17.5	27.4/ 16.9	26.3/ 16.2	24.2/ 15.1	23.1/ 13.8
100	27.8/ 17.3	27.8/ 17.3	26.7/ 16.6	25.6/ 15.9	23.5/ 14.8	22.4/ 13.5
200	27.1/ 17.0	27.1/ 17.0	26.0/ 16.4	24.9/ 15.7	22.8/ 14.6	21.7/ 13.2
300	26.6/ 16.8	26.6/ 16.8	25.4/ 16.2	24.3/ 15.5	22.2/ 14.3	21.1/ 13.0
400	26.2/ 16.7	26.2/ 16.7	25.1/ 16.0	23.9/ 15.4	21.8/ 14.2	20.7/ 12.8
500	26.0/ 16.6	26.0/ 16.6	24.9/ 16.0	23.8/ 15.3	21.7/ 14.1	20.6/ 12.8
600	26.3/ 16.7	26.3/ 16.7	25.2/ 16.1	24.1/ 15.4	21.9/ 14.2	20.8/ 12.9
700	27.0/ 17.0	27.0/ 17.0	25.9/ 16.3	24.8/ 15.7	22.7/ 14.5	21.6/ 13.2
800	28.2/ 17.4	28.2/ 17.4	27.1/ 16.8	26.0/ 16.1	23.9/ 14.9	22.8/ 13.7
900	30.1/ 18.0	30.1/ 18.0	28.9/ 17.4	27.8/ 16.8	25.7/ 15.6	24.6/ 14.4
1000	32.2/ 18.7	32.2/ 18.7	31.1/ 18.1	29.9/ 17.5	27.8/ 16.4	26.7/ 15.2
1100	34.6/ 19.4	34.6/ 19.4	33.4/ 18.8	32.3/ 18.3	30.2/ 17.2	29.1/ 16.0
1200	36.8/ 20.2	36.8/ 20.2	35.7/ 19.6	34.6/ 19.0	32.4/ 17.9	31.3/ 16.8
1300	38.4/ 20.7	38.4/ 20.7	37.3/ 20.1	36.2/ 19.5	34.1/ 18.5	33.0/ 17.4
1400	39.6/ 21.0	39.6/ 21.0	38.4/ 20.4	37.3/ 19.9	35.2/ 18.9	34.1/ 17.8
1500	40.0/ 21.1	40.0/ 21.1	38.9/ 20.6	37.8/ 20.0	35.7/ 19.0	34.6/ 17.9
1600	39.6/ 21.0	39.6/ 21.0	38.4/ 20.4	37.3/ 19.9	35.2/ 18.9	34.1/ 17.8
1700	38.6/ 20.7	38.6/ 20.7	37.5/ 20.1	36.4/ 19.6	34.3/ 18.6	33.2/ 17.4
1800	37.1/ 20.2	37.1/ 20.2	35.9/ 19.7	34.8/ 19.1	32.7/ 18.1	31.6/ 16.9
1900	35.2/ 19.7	35.2/ 19.7	34.1/ 19.1	33.0/ 18.5	30.9/ 17.4	29.8/ 16.3
2000	33.4/ 19.1	33.4/ 19.1	32.3/ 18.5	31.2/ 17.9	29.1/ 16.8	28.0/ 15.6
2100	31.9/ 18.6	31.9/ 18.6	30.8/ 18.0	29.7/ 17.4	27.6/ 16.3	26.4/ 15.1
2200	30.5/ 18.2	30.5/ 18.2	29.4/ 17.5	28.3/ 16.9	26.2/ 15.8	25.1/ 14.6
2300	29.3/ 17.8	29.3/ 17.8	28.2/ 17.2	27.1/ 16.5	25.0/ 15.4	23.9/ 14.1

HVAC ZONE DATA

ZONE DESCRIPTION FOR DSC SECURITY

Prepared By : / ENGINEERS

11-03-00

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TABLE 1. GENERAL ZONE DATA

GENERAL ZONE DATA		PEOPLE	
Floor Area :	17.1 sqm	Total People :	2 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	200 W
No. Partitions :	2	Latent :	200 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	38.00 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
HER ELECTRIC		Area :	14 sqm
al Watts :	200.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS
U-Value (W/sqm/K)	0.800	0.580	U-Value 6.700
Weight (kg/sqm)	391	H	Glass Factor 0.80
Color	M	M	Int. Shades ? N
EXTERNAL SHADING DATA			
Window Height =	1.8 m	Overhang Height =	0.0 mm
Window Width =	0.5 m	Overhang Extension =	0.0 mm
Reveal Depth =	0.8 mm	Fin Separation =	0.0 mm
		Fin Extension =	0.0 mm

Enclosure	Gross Area (sqm)	Glass Area (sqm)	Exposure	Gross Area (sqm)	Glass Area (sqm)
NE Wall	18.2	1.1	W Wall	0.0	0.0
E Wall	0.0	0.0	NW Wall	9.1	1.1
SE Wall	15.1	0.0	N Wall	0.0	0.0
S Wall	0.0	0.0	Roof (Hor)	17.1	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	23.8	0.0	NA
U-Value (W/sqm/K)	2.300	2.600	NA
Adj. Region Temp (Cooling)	28.0 C	28.0 C	NA
Adj. Region Temp (Heating)	11.0 C	11.0 C	NA

ZONE DESCRIPTION FOR DSC OFFICE

Prepared By : / ENGINEERS 11-03-00
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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC OFFICE

GENERAL ZONE DATA		PEOPLE	
Floor Area :	43.3 sqm	Total People :	8 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	18.50 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Free-Hanging	SLAB	
CHER ELECTRIC		Area :	43 sqm
il Watts :	1000.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS	
U-Value (W/sqm/K)	0.800	0.580	U-Value	6.700
Weight (kg/sqm)	391	H	Glass Factor	0.80
Color	M	M	Int. Shades ?	N
EXTERNAL SHADING DATA		Overhang Height = 0.0 mm		
Window Height =	1.8 m	Overhang Extension =	0.0 mm	
Window Width =	0.5 m	Fin Separation =	0.0 mm	
Reveal Depth =	0.8 mm	Fin Extension =	0.0 mm	

	Gross Area	Glass Area		Gross Area	Glass Area
Exposure	(sqm)	(sqm)	Exposure	(sqm)	(sqm)
NE Wall	0.0	0.0	W Wall	0.0	0.0
E Wall	0.0	0.0	NW Wall	0.0	0.0
SE Wall	29.8	4.7	N Wall	0.0	0.0
S Wall	0.0	0.0	Roof (Hor)	43.3	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

	Partition	Partition	Partition
PARTITIONS	Type 1	Type 2	Type 3
Net Area (sqm)	19.3	49.0	0.0
U-Value (W/sqm/K)	2.300	2.600	2.600
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC CONTROL

Prepared By :

ENGINEERS

11-03-00

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TABLE 1. GENERAL ZONE DATA

GENERAL ZONE DATA		PEOPLE	
Floor Area :	10.4 sqm	Total People :	2 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	28.80 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Free-Hanging	SLAB	
OTHER ELECTRIC		Area :	10 sqm
Total Watts :	497.6 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS
U-Value (W/sqm/K)	0.800	0.580	U-Value 6.700
Weight (kg/sqm)	391	H	Glass Factor 0.80
Color	M	M	Int. Shades ? N

EXTERNAL SHADING DATA		Overhang Height = 0.0 mm	
Window Height =	1.8 m	Overhang Extension =	0.0 mm
Window Width =	0.5 m	Fin Separation =	0.0 mm
Reveal Depth =	0.8 mm	Fin Extension =	0.0 mm

Exposure	Gross Area (sqm)	Glass Area (sqm)	Exposure	Gross Area (sqm)	Glass Area (sqm)
NE Wall	0.0	0.0	W Wall	0.0	0.0
E Wall	12.0	0.0	NW Wall	0.0	0.0
SE Wall	0.0	0.0	N Wall	0.0	0.0
S Wall	12.0	0.0	Roof (Hor)	10.4	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	36.0	0.0
U-Value (W/sqm/K)	2.300	2.600	2.600
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC CONFERENCE

Prepared By : / ENGINEERS 11-03-00

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TABLE 1. GENERAL ZONE DATA

GENERAL ZONE DATA		PEOPLE	
Floor Area :	131.8 sqm	Total People :	136 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
		Unocc Diversity:	0 %
LIGHTING		INFILTRATION	
W/sqm :	37.20 W/sqm	Cooling :	0.56 L/s/sqm
Unocc Diversity:	5 %	Heating :	1.11 L/s/sqm
Wattage Mult. :	1.20	Fixture Type :	Rec., Not Vented
SLAB		Area :	132 sqm
CHER ELECTRIC		Perimeter :	0 m
al Watts :	1500.0 Watts	Depth :	0.00 m
Unocc Diversity:	0 %		

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS
U-Value (W/sqm/K)	0.800	0.580	U-Value 6.700
Weight (kg/sqm)	391	H	Glass Factor 0.80
Color	M	M	Int. Shades ? N
EXTERNAL SHADING DATA		Overhang Height	= 0.0 mm
Window Height	= 1.8 m	Overhang Extension	= 0.0 mm
Window Width	= 0.5 m	Fin Separation	= 0.0 mm
Reveal Depth	= 0.8 mm	Fin Extension	= 0.0 mm

Exposure	Gross Area (sqm)	Glass Area (sqm)	Exposure	Gross Area (sqm)	Glass Area (sqm)
NE Wall	0.0	0.0	W Wall	28.6	0.0
E Wall	36.8	5.7	NW Wall	0.0	0.0
SE Wall	0.0	0.0	N Wall	36.8	5.7
S Wall	28.6	0.0	Roof (Hor)	131.8	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	45.5	9.7
U-Value (W/sqm/K)	2.300	2.600	6.700
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC LABORATORY

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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC LABORATORY

GENERAL ZONE DATA		PEOPLE	
Floor Area :	25.4 sqm	Total People :	2 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	15.75 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
CIRCUITRY		Area :	25 sqm
Panel Watts :	500.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS	
U-Value (W/sqm/K)	0.800	0.580	U-Value	6.700
Weight (kg/sqm)	391	H	Glass Factor	0.80
Color	M	M	Int. Shades ?	N

EXTERNAL SHADING DATA		Overhang Height	=	0.0 mm	
Window Height	=	1.8 m	Overhang Extension	=	0.0 mm
Window Width	=	0.5 m	Fin Separation	=	0.0 mm
Reveal Depth	=	0.8 mm	Fin Extension	=	0.0 mm

	Gross Area	Glass Area		Gross Area	Glass Area
Exposure	(sqm)	(sqm)	Exposure	(sqm)	(sqm)
NE Wall	0.0	0.0	W Wall	0.0	0.0
E Wall	0.0	0.0	NW Wall	19.6	5.7
SE Wall	0.0	0.0	N Wall	0.0	0.0
S Wall	0.0	0.0	Roof (Hor)	25.4	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

	Partition	Partition	Partition
PARTITIONS	Type 1	Type 2	Type 3
Net Area (sqm)	0.0	56.0	0.0
U-Value (W/sqm/K)	2.300	2.600	2.600
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC CONFERENCE FOYER

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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC CONFERENCE FOYER

GENERAL ZONE DATA		PEOPLE	
Floor Area :	24.9 sqm	Total People :	6 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
		Unocc Diversity:	0 %
LIGHTING		INFILTRATION	
W/sqm :	24.10 W/sqm	Cooling :	0.56 L/s/sqm
Unocc Diversity:	5 %	Heating :	1.11 L/s/sqm
Wattage Mult. :	1.20	SLAB	
Fixture Type :	Rec., Not Vented	Area :	25 sqm
OTHER ELECTRIC		Perimeter :	0 m
al Watts :	0.0 Watts	Depth :	0.00 m
Unocc Diversity:	0 %		

TABLE 2. WALL, ROOF AND GLASS DATA

		WALL		ROOF		GLASS	
U-Value (W/sqm/K)		0.800		0.580		U-Value	6.700
Weight (kg/sqm)		391		H		Glass Factor	0.80
Color		M		M		Int. Shades ?	N
EXTERNAL SHADING DATA							Overhang Height = 0.0 mm
Window Height	=	1.8 m		Overhang Extension	=	0.0 mm	
Window Width	=	0.5 m		Fin Separation	=	0.0 mm	
Reveal Depth	=	0.8 mm		Fin Extension	=	0.0 mm	

Exposure	Gross Area (sqm)	Glass Area (sqm)	Exposure	Gross Area (sqm)	Glass Area (sqm)
NE Wall	0.0	0.0	W Wall	0.0	0.0
E Wall	0.0	0.0	NW Wall	23.5	2.8
SE Wall	0.0	0.0	N Wall	0.0	0.0
S Wall	0.0	0.0	Roof (Hor)	24.9	0.0
SW Wall	15.8	0.0			

TABLE 3. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	24.0	0.0
U-Value (W/sqm/K)	2.300	2.600	2.600
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC SHOP

Prepared By :

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11-03-00

Block Load Program v2.00

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TABLE 1. GENERAL ZONE DATA

GENERAL ZONE DATA		PEOPLE	
Floor Area :	24.9 sqm	Total People :	3 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	N	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
		Unocc Diversity:	0 %
LIGHTING		INFILTRATION	
W/sqm :	24.10 W/sqm	Cooling :	0.56 L/s/sqm
Unocc Diversity:	5 %	Heating :	1.11 L/s/sqm
Wattage Mult. :	1.20	Fixture Type :	Rec., Not Vented
		SLAB	
IER ELECTRIC		Area :	25 sqm
al Watts :	0.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS
U-Value (W/sqm/K)	0.800	0.580	U-Value 6.700
Weight (kg/sqm)	391	H	Glass Factor 0.80
Color	M	M	Int. Shades ? N

EXTERNAL SHADING DATA		Overhang Height = 0.0 mm	
Window Height =	1.8 m	Overhang Extension =	0.0 mm
Window Width =	0.5 m	Fin Separation =	0.0 mm
Reveal Depth =	0.8 mm	Fin Extension =	0.0 mm

Exposure	Gross Area (sqm)	Glass Area (sqm)	Exposure	Gross Area (sqm)	Glass Area (sqm)
NE Wall	15.8	0.0	W Wall	0.0	0.0
E Wall	0.0	0.0	NW Wall	23.5	2.8
SE Wall	0.0	0.0	N Wall	0.0	0.0
S Wall	0.0	0.0	Roof (Hor)	24.9	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	24.0	29.9
U-Value (W/sqm/K)	2.300	2.600	6.700
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC TICKET

Prepared By :
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TABLE 1. GENERAL ZONE DATA

ZONE NAME = DSC TICKET	
GENERAL ZONE DATA	
Floor Area : 16.3 sqm	PEOPLE
Building Weight: H	Total People : 2 People
Exposures : All 8 Exposures	Unocc Diversity: 0 %
Are Multiple	Activity Level : Seated at Rest
Wall, Roof,	Sensible Gain : 67.4 W/per
or Glass	Latent Gain : 35.2 W/per
Types Used ? N	MISCELLANEOUS LOADS
No. Partitions : 3	Sensible : 0 W
LIGHTING	Latent : 0 W
W/sqm : 18.40 W/sqm	Unocc Diversity: 0 %
Unocc Diversity: 5 %	INFILTRATION
Wattage Mult. : 1.20	Cooling : 0.56 L/s/sqm
Fixture Type : Rec., Not Vented	Heating : 1.11 L/s/sqm
OTHER ELECTRIC	SLAB
1 Watts : 200.0 Watts	Area : 16 sqm
Unocc Diversity: 0 %	Perimeter : 0 m
	Depth : 0.00 m

TABLE 2. WALL, ROOF AND GLASS DATA

	WALL	ROOF	GLASS
U-Value (W/sqm/K)	0.800	0.580	U-Value 6.700
Weight (kg/sqm)	391	H	Glass Factor 0.80
Color	M	M	Int. Shades ? N
EXTERNAL SHADING DATA			
Window Height = 1.8 m	Overhang Height = 0.0 mm	Overhang Extension = 0.0 mm	
Window Width = 0.5 m	Fin Separation = 0.0 mm	Fin Extension = 0.0 mm	
Reveal Depth = 0.8 mm			

Exposure	Gross Area (sqm)	Glass Area (sqm)	Exposure	Gross Area (sqm)	Glass Area (sqm)
NE Wall	8.1	0.0	W Wall	0.0	0.0
E Wall	0.0	0.0	NW Wall	0.0	0.0
SE Wall	15.4	0.0	N Wall	0.0	0.0
S Wall	0.0	0.0	Roof (Hor)	16.3	0.0
SW Wall	0.0	0.0			

TABLE 3. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	34.6	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC CORRIDOR

Prepared By :
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TABLE 1. GENERAL ZONE DATA

ZONE NAME = DSC CORRIDOR

GENERAL ZONE DATA		PEOPLE	
Floor Area :	143.4 sqm	Total People :	0 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	16.40 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
OTHER ELECTRIC		Area :	143 sqm
al Watts :	0.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1	Type 2	Type 3
	Net Area (sqm)	Net Area (sqm)	Net Area (sqm)
NE Wall	8.1	0.0	NA
E Wall	0.0	0.0	NA
SE Wall	15.6	0.0	NA
S Wall	0.0	0.0	NA
SW Wall	0.0	0.0	NA
W Wall	0.0	0.0	NA
NW Wall	15.5	0.0	NA
N Wall	0.0	0.0	NA
Roof	143.4	0.0	NA

NOTES: U-Values have units of W/sqm/K.

Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC CORRIDOR

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3	
U-Value	6.700	6.700	NA	Window Ht.	2.8	2.4	2.4
Glass Factor	0.80	0.20	NA	Window Width	6.0	1.2	1.2
Int. Shades?	N	N	NA	Reveal Depth	3.3	0.0	0.0
				Overhang Ht.	0.0	0.0	0.0
				Overhang Ext.	0.0	0.0	0.0
				Fin Sep.	0.0	0.0	0.0
				Fin Extension	0.0	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	5.7	0	46.7	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	6.3	1	59.9	0	NA	NA
	0.0	0	0.0	0	NA	NA
SW	5.7	0	46.7	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	6.3	1	59.9	0	NA	NA
N	0.0	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.
Window height and width have units of m.
Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	0.0	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC EXHIBITION

Prepared By : / ENGINEERS
 Block Load Program v2.00

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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC EXHIBITION

GENERAL ZONE DATA		PEOPLE	
Floor Area :	707.6 sqm	Total People :	130 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Office Work
Are Multiple		Sensible Gain :	71.8 W/per
Wall, Roof,		Latent Gain :	60.1 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	20.00 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
OTHER ELECTRIC		Area :	708 sqm
Watts :	0.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1 Net Area (sqm)	Type 2 Net Area (sqm)	Type 3 Net Area (sqm)
NE Wall	60.6	0.0	NA
E Wall	32.5	0.0	NA
SE Wall	123.6	0.0	NA
S Wall	32.5	0.0	NA
SW Wall	123.6	0.0	NA
W Wall	32.5	0.0	NA
NW Wall	123.6	0.0	NA
N Wall	32.5	0.0	NA
Roof	707.6	0.0	NA

NOTES: U-Values have units of W/sqm/K.

Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC EXHIBITION

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3	
U-Value	6.700	2.900	NA	Window Ht.	2.8	2.4	2.4
Glass Factor	0.80	0.10	NA	Window Width	2.0	1.2	1.2
Int. Shades?	N	N	NA	Reveal Depth	1.3	0.0	0.0
				Overhang Ht.	0.0	0.0	0.0
				Overhang Ext.	0.0	0.0	0.0
				Fin Sep.	0.0	0.0	0.0
				Fin Extension	0.0	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	6.2	0	0.0	0	NA	NA
E	7.9	1	0.0	0	NA	NA
SE	6.2	0	0.0	0	NA	NA
	15.8	1	0.0	0	NA	NA
SW	6.2	0	0.0	0	NA	NA
W	15.8	1	0.0	0	NA	NA
NW	6.2	0	0.0	0	NA	NA
N	7.9	1	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.

Window height and width have units of m.

Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	97.2	0.0	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC RESTURANT

Prepared By :

/ ENGINEERS

11-03-00

Block Load Program v2.00

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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC RESTURANT

GENERAL ZONE DATA		PEOPLE	
Floor Area :	242.6 sqm	Total People :	152 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
		Unocc Diversity:	0 %
LIGHTING		INFILTRATION	
W/sqm :	17.72 W/sqm	Cooling :	0.56 L/s/sqm
Unocc Diversity:	5 %	Heating :	1.11 L/s/sqm
Wattage Mult. :	1.20	SLAB	
Fixture Type :	Rec., Not Vented	Area :	243 sqm
OTHER ELECTRIC		Perimeter :	0 m
al Watts :	800.0 Watts	Depth :	0.00 m
Unocc Diversity:	0 %		

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1	Type 2	Type 3
	Net Area (sqm)	Net Area (sqm)	Net Area (sqm)
NE Wall	18.8	0.0	NA
E Wall	37.5	0.0	NA
SE Wall	29.5	0.0	NA
S Wall	81.0	0.0	NA
SW Wall	18.8	0.0	NA
W Wall	80.0	0.0	NA
NW Wall	29.5	0.0	NA
N Wall	70.0	0.0	NA
Roof	242.6	0.0	NA

NOTES: U-Values have units of W/sqm/K.

Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC RESTURANT

Prepared By :

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	10.0	0	0.0	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	19.8	0	0.0	0	NA	NA
SW	32.4	1	0.0	0	NA	NA
W	10.0	0	0.0	0	NA	NA
NW	32.4	1	0.0	0	NA	NA
N	19.8	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.

Window height and width have units of m.

Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	60.5	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC RES. L. KITCHEN

Prepared By : / ENGINEERS 11-03-00
 Block Load Program v2.00 Page 1 of 2

TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC RES. L. KITCHEN

GENERAL ZONE DATA		PEOPLE	
Floor Area :	57.6 sqm	Total People :	3 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Sedentary Work
Are Multiple		Sensible Gain :	82.1 W/per
Wall, Roof,		Latent Gain :	79.1 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	26300 W
No. Partitions :	3	Latent :	1000 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	24.60 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
OTHER ELECTRIC		Area :	58 sqm
al Watts :	0.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1	Type 2	Type 3
	Net Area (sqm)	Net Area (sqm)	Net Area (sqm)
NE Wall	28.0	0.0	NA
E Wall	0.0	0.0	NA
SE Wall	0.0	0.0	NA
S Wall	0.0	0.0	NA
SW Wall	0.0	0.0	NA
W Wall	0.0	0.0	NA
NW Wall	28.0	0.0	NA
N Wall	0.0	0.0	NA
Roof	57.6	0.0	NA

NOTES: U-Values have units of W/sqm/K.
 Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC RES. L. KITCHEN

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	1.0	0	0.0	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	0.0	0	0.0	0	NA	NA
SW	0.0	0	0.0	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	0.0	0	0.0	0	NA	NA
N	0.0	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.
 Window height and width have units of m.
 Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	0.0	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC RES. S. KITCHEN

Prepared By :

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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC RES. S. KITCHEN

GENERAL ZONE DATA		PEOPLE	
Floor Area :	44.0 sqm	Total People :	2 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Sedentary Work
Are Multiple		Sensible Gain :	82.1 W/per
Wall, Roof,		Latent Gain :	79.1 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	12000 W
No. Partitions :	3	Latent :	1000 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	24.60 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
CARRIER ELECTRIC		Area :	44 sqm
1 Watts :	0.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Net Area (sqm)		
	Type 1	Type 2	Type 3
NE Wall	8.2	0.0	NA
E Wall	8.2	0.0	NA
SE Wall	0.0	0.0	NA
S Wall	0.0	0.0	NA
SW Wall	0.0	0.0	NA
W Wall	0.0	0.0	NA
Nw Wall	0.0	0.0	NA
N Wall	0.0	0.0	NA
Roof	44.0	0.0	NA

NOTES: U-Values have units of W/sqm/K.

Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC RES. S. KITCHEN

Prepared By :
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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	0.0	0	0.0	0	NA	NA
E	5.1	0	0.0	0	NA	NA
SE	0.0	0	0.0	0	NA	NA
S	0.0	0	0.0	0	NA	NA
SW	0.0	0	0.0	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	0.0	0	0.0	0	NA	NA
N	5.1	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.
Window height and width have units of m.
Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	16.0	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC BAS OFFICE

Prepared By :
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TABLE 1. GENERAL ZONE DATA

ZONE NAME = DSC BAS OFFICE

GENERAL ZONE DATA		PEOPLE	
Floor Area :	10.0 sqm	Total People :	2 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	30.00 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
CHEMICAL ELECTRIC		Area :	10 sqm
1 Watts :	600.0 Watts	Perimeter :	3 m
Unocc Diversity:	0 %	Depth :	3.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1			Type 2			Type 3		
	Net Area (sqm)	U-Value	Weight	Net Area (sqm)	U-Value	Weight	Net Area (sqm)	U-Value	Weight
NE Wall	9.0	0.800	391	0.0	0.580	0	0.0	0.580	0
E Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
SE Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
S Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
SW Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
W Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
Nw Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
N Wall	0.0	0.800	0	0.0	0.580	0	0.0	0.580	0
Roof	0.0	0.580	0	0.0	0.580	0	0.0	0.580	0

NOTES: U-Values have units of W/sqm/K.

Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC BAS OFFICE

Prepared By :

/ ENGINEERS

11-03-00

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	0.7	0	0.0	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	0.0	0	0.0	0	NA	NA
	0.0	0	0.0	0	NA	NA
SW	0.0	0	0.0	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	0.0	0	0.0	0	NA	NA
N	0.0	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.

Window height and width have units of m.

Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	10.0	26.4	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Adj. Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC BAS REST AREA

Prepared By : / ENGINEERS 11-03-00
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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC BAS REST AREA

GENERAL ZONE DATA		PEOPLE	
Floor Area :	21.4 sqm	Total People :	3 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
		Unocc Diversity:	0 %
LIGHTING		INFILTRATION	
W/sqm :	18.70 W/sqm	Cooling :	0.56 L/s/sqm
Unocc Diversity:	5 %	Heating :	1.11 L/s/sqm
Wattage Mult. :	1.20	SLAB	
Fixture Type :	Rec., Not Vented	Area :	21 sqm
OTHER ELECTRIC		Perimeter :	4 m
Total Watts :	0.0 Watts	Depth :	3.40 m
Unocc Diversity:	0 %		

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M
Exposure	Type 1 Net Area (sqm)	Type 2 Net Area (sqm)	Type 3 Net Area (sqm)				
NE Wall	18.0	0.0	NA				
E Wall	0.0	0.0	NA				
SE Wall	0.0	0.0	NA				
S Wall	0.0	0.0	NA				
SW Wall	0.0	0.0	NA				
W Wall	0.0	0.0	NA				
NW Wall	0.0	0.0	NA				
N Wall	0.0	0.0	NA				
Roof	0.0	0.0	NA				

NOTES: U-Values have units of W/sqm/K.
 Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC BAS REST AREA

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 TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	4.3	0	0.0	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	0.0	0	0.0	0	NA	NA
	0.0	0	0.0	0	NA	NA
SW	0.0	0	0.0	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	0.0	0	0.0	0	NA	NA
N	0.0	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.
 Window height and width have units of m.
 Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	72.5	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Adj. Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC BAS GUARD HOUSE

Prepared By : / ENGINEERS 11-03-00
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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC BAS GUARD HOUSE

GENERAL ZONE DATA		PEOPLE	
Floor Area :	6.6 sqm	Total People :	1 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Seated at Rest
Are Multiple		Sensible Gain :	67.4 W/per
Wall, Roof,		Latent Gain :	35.2 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	30.10 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
OTHER ELECTRIC		Area :	7 sqm
al Watts :	0.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1 Net Area (sqm)	Type 2 Net Area (sqm)	Type 3 Net Area (sqm)
NE Wall	8.1	0.0	NA
E Wall	0.0	0.0	NA
SE Wall	0.0	0.0	NA
S Wall	0.0	0.0	NA
SW Wall	0.0	0.0	NA
W Wall	0.0	0.0	NA
NW Wall	0.0	0.0	NA
N Wall	7.0	0.0	NA
Roof	0.0	0.0	NA

NOTES: U-Values have units of W/sqm/K.
 Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC BAS GUARD HOUSE

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	0.9	0	0.0	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	0.0	0	0.0	0	NA	NA
S	0.0	0	0.0	0	NA	NA
SW	0.0	0	0.0	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	0.0	0	0.0	0	NA	NA
N	0.0	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.

Window height and width have units of m.

Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	30.4	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C

ZONE DESCRIPTION FOR DSC RES. CASH

Prepared By :

/ ENGINEERS

11-03-00

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TABLE 1. GENERAL ZONE DATA

 ZONE NAME = DSC RES. CASH

GENERAL ZONE DATA		PEOPLE	
Floor Area :	7.0 sqm	Total People :	1 People
Building Weight:	H	Unocc Diversity:	0 %
Exposures :	All 8 Exposures	Activity Level :	Office Work
Are Multiple		Sensible Gain :	71.8 W/per
Wall, Roof,		Latent Gain :	60.1 W/per
or Glass		MISCELLANEOUS LOADS	
Types Used ?	Y	Sensible :	0 W
No. Partitions :	3	Latent :	0 W
LIGHTING		Unocc Diversity:	0 %
W/sqm :	21.40 W/sqm	INFILTRATION	
Unocc Diversity:	5 %	Cooling :	0.56 L/s/sqm
Wattage Mult. :	1.20	Heating :	1.11 L/s/sqm
Fixture Type :	Rec., Not Vented	SLAB	
CENTRAL ELECTRIC		Area :	7 sqm
1 Watts :	200.0 Watts	Perimeter :	0 m
Unocc Diversity:	0 %	Depth :	0.00 m

TABLE 2. WALL AND ROOF DATA

WALL	U-Value	Weight	Color	ROOF	U-Value	Weight	Color
Type 1	0.800	391	M	Type 1	0.580	H	M
Type 2	2.900	391	M	Type 2	0.580	H	M

Exposure	Type 1 Net Area (sqm)	Type 2 Net Area (sqm)	Type 3 Net Area (sqm)
NE Wall	0.0	0.0	NA
E Wall	0.0	0.0	NA
SE Wall	6.2	0.0	NA
S Wall	5.0	0.0	NA
SW Wall	0.0	0.0	NA
W Wall	0.0	0.0	NA
Nw Wall	0.0	0.0	NA
N Wall	0.0	0.0	NA
Roof	7.0	0.0	NA

NOTES: U-Values have units of W/sqm/K.

Wall and roof weights have units of kg/sqm.

ZONE DESCRIPTION FOR DSC RES. CASH

Prepared By : / ENGINEERS 11-03-00

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TABLE 3. GLASS AND EXTERNAL SHADING DATA

	Glass Type 1	Glass Type 2	Glass Type 3	Shade Type 1	Shade Type 2	Shade Type 3
U-Value	6.700	2.900	NA	Window Ht.	2.2	2.4
Glass Factor	0.80	0.10	NA	Window Width	12.0	1.2
Int. Shades?	N	N	NA	Reveal Depth	400.0	0.0
				Overhang Ht.	1500.1	0.0
				Overhang Ext.	3500.1	0.0
				Fin Sep.	0.0	0.0
				Fin Extension	0.0	0.0

Exposure	Glass Type 1		Glass Type 2		Glass Type 3	
	Area (sqm)	Shade	Area (sqm)	Shade	Area (sqm)	Shade
NE	0.0	0	0.0	0	NA	NA
E	0.0	0	0.0	0	NA	NA
SE	0.0	0	0.0	0	NA	NA
	0.0	0	0.0	0	NA	NA
SW	0.0	0	0.0	0	NA	NA
W	0.0	0	0.0	0	NA	NA
NW	0.0	0	0.0	0	NA	NA
N	0.0	0	0.0	0	NA	NA
H	0.0	0	0.0	0	NA	NA

NOTES: U-Values have units of W/sqm/K.
 Window height and width have units of m.
 Reveal, overhang and fin input have units of mm.

TABLE 4. PARTITION DATA

PARTITIONS	Partition Type 1	Partition Type 2	Partition Type 3
Net Area (sqm)	0.0	12.4	0.0
U-Value (W/sqm/K)	2.300	2.600	6.700
Region Temp (Cooling)	28.0 C	28.0 C	28.0 C
Region Temp (Heating)	11.0 C	11.0 C	11.0 C
