

Space Input Data

Output

Space	Floor Area/m²	*Wall Orientation	`Gross Wall Area/m²	Activity Level	^Schedules	Floor Exposed Perimeter/m	Cooling Load/kW
1-AB12-GNDS.	26.1	N,E	11.3,23.1	SW	OLE/OOC	12.4	4.2
1-AB24-MAIL.RM./STG.	123.1	N	84.9	SW	OLE/OOC	18	6.7
1-AB56-MRG.RCD.	78.1	N	42.4	OW	OLE/OOC	11.5	3.5
1-AB67-PPTY.RCD.	78.1	N	42.4	OW	OLE/OOC	11.5	3.5
1-AB89-CLASSRM.	56.7	W	48.1	SW	OLE/CONF.	7.7	9.9
1-B.6.45-SLPNGRMS.	15.9	-	-	SR	OLE/OOC	24.9	0.2
1-BC13-CONF.RM.	81.1	-	-	OW	OLE/CONF.	-	0.6
1-BD69-MUN.RCD.CTR	310.5	S,W	99,70.7	OW	OLE/OOC/OOC/OLE	45.9	31.3
1-CD13-2OFF.+S	111.9			OW	OLE/OOC/OOC/OLE	-	1.8
1-CD46-WKRM.&LNG.	61.7	S	14.1	SW	OLE/BT/OLE	3.8	5.9
1-DE0.24-DSPTCH.CTR.	65.4	S	70.7	MW	OLE/OOC	19.1	15.1
1-DE23-2OFF&DCTR.OFF	40	S	84.9	OW	OLE/OOC/OOC	23	17.9
2-AB12-DoH.OFF.	79.8	N,E,+H	17,17	OW	OLE/OOC/OOC/OLE	N.A.	5.1
2-AB34-MUN.PL.OFF.	63.3	N,+H	17	OW	OLE/OOC/OOC/OLE	N.A.	2.4
2-AB47-MUN.MTNG.RM	126.1	N,+H	33.9	SR	OLE/CONF.	N.A.	0.7
2-AB78-CLASSRM.	38.8	N,+H	11.3	SW	OLE/CONF.	N.A.	1
2-AB98-CONF.RM.	34.5	W,+H	11.3	OW	OLE/CONF.	N.A.	2.6
2-BC12-OO&2OFF.	161.1	E,+H	17	OW	OLE/OOC/OOC/OLE	N.A.	4.5
2-BD98-MUN.MEET.RM.	161.6	W,S,+H	33.9,17	SR	OLE/OOC	N.A.	8.8
2-C.7D12-COMP.SRVR.RM	14.5	S,E,+H	11.3,9.9	SW	OLE/CONF./OOC	N.A.	4.1
2-CC.612-ITOFF.	49.6	E,+H	12.7	OW	OLE/OOC/OOC	N.A.	2.6
2-CD25-CTZN.GATH.	132.3	S,+H	11.3	SR	OLE/OOC	N.A.	5
2-CD65-WRKR.M.&LNG.	63.3	S,+H	17	SW	OLE/BT/OLE	N.A.	6.5
2-CD67-PROFF.	63.3	S,+H	17	OW	OLE/OOC/OOC/OLE	N.A.	4.6
1/2-TOILETS.	91.5	,+H	N.A.	SW	OLE/BT	N.A.	0.9
ELEVATOR	2.4	-	N.A.	SW	OLE/OOC	N.A.	0.1
ENTRY&RCPTN.	31.6	S	14.1	SW	OLE/OOC/OOC	N.A.	3.4

Abbreviation	Description
,+H	Horizon Exposure
OW	Office Work
SW	Sedentary Work
SR	Seated at Rest
MW	Medium Work
OLE	Office Lights and Equip.
OOC	Office Occup.
CONF.	Conference
BT	Break Time

*Each ',' separates the exposed orientations applicable.

`Each ',' separates the wall areas exposed to the corresponding orientations, except for ,+H.

^The order of schedules is for Lighting, People, Equip. and Misc. Loads, respectively(separated by '/')

Wall Properties

Layer	Thickness mm	Density kg/m ³	Specific Ht. kJ / (kg - °K)	R-Value (m ² -°K)/W	Weight kg/m ²	Outside Surface Colour	Absorptivity	U-Value W/(m ² -°K)
Inside surface resistance	0	0	0	0.12064	0	-	-	-
19mm gypsum plaster	19.05	1601.8	0.84	0.02624	30.5	-	-	-
152mm insulation	152.4	91.3	0.84	3.5222	13.9	-	-	-
25mm stucco	25.4	1858.1	0.84	0.03663	47.2	-	-	-
Outside surface resistance	0	0	0	0.04403	0	-	-	-
Totals	196.85	-		3.74974	91.6	Light	0.45	0.267

Roof Properties

Layer	Thickness mm	Density kg/m ³	Specific Ht. kJ / (kg - °K)	R-Value (m ² -°K)/W	Weight kg/m ²	Outside Surface Colour	Absorptivity	U-Value W/(m ² -°K)
Inside surface resistance	0	0	0	0.12064	0	-	-	-
13mm gypsum board	12.7	800.9	1.09	0.0789	10.2	-	-	-
RSI-6.7 batt insulation	304.8	8	0.84	6.77347	2.4	-	-	-
Air space	0	0	0	0.16026	0	-	-	-
13mm plywood	12.7	544.6	1.21	0.10952	6.9	-	-	-
RSI-2.5 board insulation	50.8	32	0.92	2.44598	1.6	-	-	-
Built-up roofing	9.525	1121.3	1.47	0.05855	10.7	-	-	-
Outside surface resistance	0	0	0	0.05864	0	-	-	-
Totals	390.525	-		9.80596	31.8	Light	0.45	0.102

Window Properties

Glazing	Glass Type	Transmissivity	Reflectivity	Absorptivity	Gap Type	Overall U-Value W/(m ² -°K)	Internal Shade
Outer Glazing	6mm clear low-e	0.639	0.116	0.245	6mm Krypton	0.874	Vertical Blinds
Glazing #2	6mm clear low-e	0.639	0.116	0.245			
Glazing #3	6mm clear low-e	0.639	0.116	0.245			

Electrical Loads

Equipment	Average Power/W	Idle State/W
Copy Machine	550	135
Vending Machine	575	
Refrigerator	690	
Desktop PC+Monitor	84	
LED Office Lighting	18	

Occupancy Schedules (%)

	Hour	0	1	2	3	4	5	6	7	8	9	10	11	12
OLE	Except Sun.	5	5	5	5	5	10	10	30	90	90	90	90	80
OOO	Except Sun.	0	0	0	0	0	0	10	20	95	95	95	95	50
BT	Except Sun.	0	0	0	0	0	0	0	0	0	0	0	0	100
CONF.	Except Sun.	0	0	0	0	0	0	0	0	0	100	99	100	0
	Hour	13	14	15	16	17	18	19	20	21	22	23		
OLE	Except Sun.	90	90	90	90	50	30	30	20	20	10	5		
OOO	Except Sun.	95	95	95	95	30	10	10	10	10	5	5		
BT	Except Sun.	100	50	0	0	0	0	0	0	0	0	0		
CONF.	Except Sun.	0	0	0	100	0	0	0	0	0	0	0		

Output Loads

ZONE LOADS	Details	Sensible/W	Latent/W
Window & Skylight Solar Loads	495 m²	37320	-
Wall Transmission	360 m²	1136	-
Roof Transmission	1034 m²	1586	-
Window Transmission	495 m²	5077	-
Door Loads	5 m²	104	-
Floor Transmission	1056 m²	0	-
Overhead Lighting	486 W	458	-
Electric Equipment	11210 W	10572	-
People	289	16809	18174
Miscellaneous	-	810	0
>> Total Zone Loads	-	73872	18174

For Split Air Handling Units with Constant Air Volume system