

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
DISTRIBUTION BOARDS						
All Fed from Main Low Voltage Panel MLVP						
		MLVP		4 pole bus bar essential 3000A		New MLVP Panel - Year 2017
F1	MLVP Room	Surge Protector Critec ERICO	Schneider	40A 4P MCCB NG125L	1	
F2	Adj. MLVP Room	Power Factor Correction MLVP, Ducati 300 KVAR	Schneider	630A 3P MCCB	1	
F3	Level 1 Transformer Room	Lighting and small power 1A/LP1	Schneider	100A 4P MCCB NSX100F	1	
F4	Level 1 - Security Gate Post Blue Box	Lighting & small power 1A/LP2	Schneider	100A 2P MCCB NSX100F	1	
F5	Level 1 Vault	Lighting and small power dist board 1A/LP3	Schneider	100A 2P MCCB DG125 N D100A	1	
F6	Level 1 CEB MV Switchroom	Lighting and small power dist board 1A/LP4	Schneider	100A 2P MCCB DG 125N D100A	1	
F7	Level 1	External Lighting dist board 1A/EXL fitted with 100A isolator	Schneider	63A 4P MCCB NSX100F	1	
F8	Level 4 Riser 2	DB Lifts 6 & 7	Schneider	100A 4P MCCB NSX 160F		
F9	Level -1 Hydrant room	Lighting & small power dist board 0A/LP1	Schneider	100A 4P MCCB NSX100F	1	
F10	Level -1 Consumer MV Room	Lighting & small power dist board 0A/LP2	Schneider	100A 4P MCCB NSX100F	1	
F11	Level -1	Domestic Water Service Panel	Schneider	40A 4P MCCB NSX100N	1	
F12	Level 1 Office entrance AHU1B	Air conditioning equipment	Schneider	40A 4P MCCB NSX100F	1	
F13	Level 1 Control Room AHU1A	Air conditioning equipment	Schneider	40A 4P MCCB NSX 100F	1	
F14	Level 15 Lift 5 motor room	DB Lift 5	Schneider	100A 4P MCCB NSX100F	1	
F15	Level -1 Hydrant room	Pump HP1 isolator	Schneider	250A 4P MCCB NSX250F	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
F16	Level -1 Hydrant room	Pump HP2 isolator	Schneider	250A 4P MCCB NSX250F	1	New MLVP Panel - Year 2017
F17	Level 16 Lift motor room Lift D	Lift No. 4	Schneider	100A 4P MCCB	1	
F18	Level 1	BMS Control	Schneider	40A 2P MCCB NSX100F	1	
F19	Level 1	Fire Alarm Panel	Schneider	40A 2P MCCB NSX100F	1	
F20	Level 1 Control Room	Dist board lighting and small power 1A/LP6	Schneider	100A 2P MCCB NSX100F	1	
F21	Level -1 Sprinkler room	Pump SP1 isolator	Schneider	160A 4P MCCB NSX160F	1	
F22	Level -1 Sprinkler room	Pump SP2 isolator	Schneider	160A 4P MCCB NSX160F	1	
F23	Level -1 Sprinkler room	Fire pump panel 0A/FP1	Schneider	63A 4P MCCB NSX100F	1	
F24	Level -1 Ex Generator room	Lighting & small power dist board 0A/GP	Schneider	100A 4P MCCB NSX100F	1	
F25	Level -1 Hydrant room	Fire pump panel 0A/FP2	Schneider	63A 4P MCCB NSX100F	1	
F26	Level 3	External lighting 3A/EXL	Schneider	100A 4P MCCB NSX100F	1	
F27	Level -1 Car park	Car Park exhaust extract control panel No. 1	Schneider	63A 4P MCCB		
F28		Spare		MCCB NG125N		
F33	Level 4	Lift switch panel L8 with 63A 4P isolator	Schneider	63A 4P MCCB	1	
F34	Level 4 ComputerCentre	Switchboard C	Schneider	400A 4P MCCB	1	
F36	Level 1 AHU1B Rm	1+1 200 KVA UPS Panel	Schneider	250A 4P MCCB NSX250N	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
F37	Lift motor room L1,2,3	200A Isolator to Lift switch panel L1,2 & 3	Schneider	300A 4P MCCB	1	Motorised - New MLVP Panel Year 2017
F38	MLVP Room	SDB LV Room	Schneider	40A 4P MCB NG125L	1	New MLVP Panel - Year 2017
F39	Level 1 Adj. Control Room	DB Escalator with 100A 4P isolator	Schneider	50A 4P MCCB NG125L	1	
F40	Level 1 AHU1B Rm	1+1 200 KVA UPS Panel	Schneider	250A 4P MCCB NSX250N	1	Motorised - New MLVP Panel Year 2017
	MLVP Room	From Transformer fed by HV supply CEB room level 1 and also standby generator serving 4 pole busbar MLVP Panel.	Schneider	2500A 4P ACB Masterpact NW25H1 2500A	2	Changeover Motorised - New MLVP Panel Year 2017
	MLVP Room	kWh Metering Module	Schneider	IEM 3255	8	New MLVP Panel - Year 2017
	MLVP Room	Power Meter	Schneider	Powerlogic PM800	3	
	MLVP Room	Controller Module UA	Schneider		1	For Changeover controls - New MLVP Panel - Year 2017

	Adj. MLVP Room	Power Factor Correction MLVP, Ducati 300 KVAR	DUCATI	300 KVAR	1	Capacitor Bank.
RISING BUSBARS ASSOCIATED TO MLVP PANEL						

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
A21	Electrical riser no. 1 Levels 4 to 15 Busbar 2	Power supply from UPS 1+1, 200 kVA Clean power busbar Tap-off units linked to 2 Bypass for 4x 30 kVA UPS's.	Schneider	200A TP&N rising bus bar fed from 200A 4P MCCB with 1 no. 100A TP&N MCCB tap off unit & 1 no. 63A TP&N fused tap off unit & 2 no. 100A TP&N MCCB Tap-off units & 8 no. 63A TP&N MCCB tap-off units	1	New MLVP Panel - Year 2017
F29	Electrical riser no. 1 Levels 1 to 5 Busbar 1	Small power & lighting	Schneider	300A TP&N rising busbar fed from 400A 4P MCCB NSX400A with 7 no. 100A TP&N MCCB tap off units & 6 no. 63A TP&N MCCB tap-off units	1	Motorised - New MLVP Panel Year 2017
F30	Electrical riser no. 1 Levels 6 to 14	Lighting & small power 200A Unit serves level 15 switch panel	Schneider	500A TP&N rising busbar fed from 400A 4P MCCB with 10 no. 100 A TP&N fuse tap-off units & 8 no. 63A TP&N fused tap-off units & 1 no. 200A	1	
F31	Levels 4 & 5 A side	Air conditioning AC/3	Schneider	100A TP&N rising busbar fed from 160A TP&N MCCB with 3 no. 40A TP&N MCCB tap off units & 1 no. 63A TP&N MCCB Tap off unit	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
F32	Levels 2-5 inclusive B side	Air conditioning plant room AC/4	Schneider	150A TP&N rising busbar fed from 160A 4P MCCB with 4no. 40A TP&N MCCB tap-off units	1	
F35	Levels 1-4 inclusive Busbar 3 Riser 2	Office lighting & small power	Schneider	300A TP&N rising busbar fed from 630A 4P MCCB with 5 no. 63A TP&N MCCB Tap-off units & 6 no 100A TP&N MCCB tap-off units. NSX 400N	1	
LOCAL BUSBARS ASSOCIATED TO MLVP						
BB1	Level 4	Lift switch panel L8		100A TP&N busbar with 1 no 63A TP&N MCB tap-off unit & 1 no. 63A TP&N isolator tap-off unit		
BB2	Level 1	Escalator panel		100A TP&N Busbar with 5 no. 32A TP&N MCCB tap-off units		
BB4	Level 16	Lift switch panel L1,2 & 3 (A, B & C)		200A TP&N busbar with 3no. 100A TP&N MCCB & 1 no. 63A SP&N MCCB		

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
BB5	Level 15	Level 15 switch panel		200A TP&N busbar with 2no. 100A TP&N MCCB & 1 no. 63A TP&N MCCB & 2 no. 63A SP&N MCCB		
SWITCH PANEL C fed from MLVP Panel						
C1	Level 4	SWITCHBOARD C Section 2:		200A 4 pole busbar		
C2	Level 4	DB 80 KVA		100A TP&N MCCB		
C3	Level 4	PDU		100A TP&N MCCB		
C4	Level 4	63A Isolator		63A SP&N MCCB		
C5	Level 4	Castell key interlock to isolate UPS supply for maintenance purposes		100A TP&N MCCB		
C6	Level 4	SWITCHBOARD C Section 1:		400A 4 pole busbar		
C7	Level 4	Condenser units on level 5 for data room split units level 4		2 no. 20A TP&N MCCB		
C10 and C11	Level 3	2 No. 40 kVA UPS		100A TP&N MCCB		

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
C12 and C13	Level 3	2 No. 40kVA UPS		100A TP&N MCCB		
C14	Level 5 Main Plantroom	380 KVA Stand-by generator No. 3		200A TP&N MCCB with Castell key interlock to 400A main TP&N MCCB		Automatic Changeover
C8		Links to Clean power rising busbar from Levels 2, 3 and 4		100A TP&N MCCB	3	
C9		Link to Clean power rising busbar (A.T.M.)		63A TP&N MCCB	1	
STANDBY GENERATORS ASSOCIATED TO MLVP Panel AND SWITCHBOARD B						
G1 & G2	Level 5	Supply to MLVP panel in event of mains failure via MCCB NS 1600 N	Schneider	810 kVA Diesel Generator	2	
		Supply to switchboard B in event mains failure via MCCB NS1600 N	Schneider			
MV1	MV SWITCHGEAR	Type U210G - One incoming cell.	IMEP	24 kV 630A	1	
		Two outgoing cells for 2 Transformers (Lvl 1 & Lvl 5) U500G	IMEP	24 kV 630A	2	
SWITCHBOARD B ESSENTIAL						
		Switchboard B - Essential	Merlin Gerin	3000A 4 pole Busbar unit		

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
B3	Level 1	Mechanical services control panel MSCP1	Merlin Gerin	250A TP&N MCCB	1	
B4	Level 16	Mechanical services control panel MSCP2	Merlin Gerin	250A TP&N MCCB	1	
B5	Level 6-12 inclusive	200A TP&N Air conditioning rising busbar A/C1.	Merlin Gerin	200A TP&N MCCB	1	
B6	Level 6-11 inclusive	150A TP&N air conditioning riser busbar A/C 2.	Merlin Gerin	150A TP&N MCCB	1	
B10	Level 5	Changeover G3 - C/O 3	Schneider	630A 4p NSX630F	1	
B14	Level 14	External lighting dist board 14B/EXL		63A TP&N MCCB	1	
B7	Level 16	Aircraft warning lights	Merlin Gerin	20A SP&N MCCB	1	
SWITCHBOARD B NON ESSENTIAL						
		Non essential		3000A 4 pole busbar		
B8	Level 5	Chiller 1		800A TP&N MCCB	1	
B9	Level 5	Chiller 2		800A TP&N MCCB	1	
B11	Level 5	Kitchen distribution board B5/KP2 served by 200A TP&N isolator with knock off push button		250A TP&N MCCB	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
B12	Level 5	Power factor correction 300KVAR (6x50KVAR)		600A TP&N MCCB	1	
B13	Level 5	External lighting dist board 5B/EXL via 100A TP&N isolator		100A TP&N MCCB	1	
B17	Level 5	Dist board lighting and small power B5/LP		100A TP&N MCCB	1	
	LV SWITCHBOARD B	Protection		2500A TP&N motorised ACB Masterpact M25H1	1	As Changeover
		Protection		2500A TP&N motorised ACB Masterpact M25H1	1	Bus Switch
		Protection		630A TP&N motorised ACB Masterpact M08H1	1	As Changeover
SWITCHROOM B RISING BUSBARS						
AC1	Air handling plant room	Air conditioning plant room AC/1		200A TP&N rising busbar fed from B5 with 8 no. 40A TP&N Fused tap off units	1	
AC2	Air handling plant room	Air conditioning plant room AC/2		150A TP&N rising busbar fed from B6 with 6 no. 40A TP&N Fused tap off units	1	
TRANSFORMERS & ASSOCIATED EQUIPMENT						
TA	Level 0 transformer room		France Transfo	22KV/400V three phase 50 Hz 1.5MVA Cast resin transformer	1	Emergency push button located in transformer chamber

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
TB	Level 5 LV switchroom		France Transfo	22KV/400V three phase 50 Hz 1.5MVA Cast resin transformer	1	Emergency push button located in LV switch room
SMALL POWER						
SP91	Level 9			Underfloor power modules - clean supply	28	
SP92	Level 9			Flush wall mounted 13A switched socket outlets	9	
SP93	Level 9	Vending pantry		13A unswitched socket outlets	4	
SP94	Level 9	Vending Pantry		13A switched socket outlet	1	
SP95	Level 9	Vending pantry		13A switched fused connection units	2	
SP96	Level 9	Vending pantry		13A switched fused connection outlet	1	
SP97	Level 9	Plantrooms		13A socket outlets	3	
SP101	Level 10			Underfloor power modules - clean supply	28	
SP102	Level 10			Flush wall mounted 13A switched socket outlets	9	
SP103	Level 10	Vending pantry		13A unswitched socket outlets	4	
SP104	Level 10	Vending Pantry		13A switched socket outlet	1	
SP105	Level 10	Vending pantry		13A switched fused connection units	2	
SP106	Level 10	Vending pantry		13A switched fused connection outlet	1	
SP107	Level 10	Plantrooms		13A socket outlets	2	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP71	Level 7			Underfloor power modules - clean supply	28	
SP72	Level 7			Flush wall mounted 13A switched socket outlets	9	
SP73	Level 7	Vending pantry		13A unswitched socket outlets	4	
SP74	Level 7	Vending Pantry		13A switched socket outlet	1	
SP75	Level 7	Vending pantry		13A switched fused connection units	2	
SP76	Level 7	Vending pantry		13A switched fused connection outlet	1	
SP77	Level 7	Plantrooms		13A socket outlets	2	
SP81	Level 8			Underfloor power modules - clean supply	28	
SP82	Level 8			Flush wall mounted 13A switched socket outlets	9	
SP83	Level 8	Vending pantry		13A unswitched socket outlets	4	
SP84	Level 8	Vending Pantry		13A switched socket outlet	1	
SP85	Level 8	Vending pantry		13A switched fused connection units	2	
SP86	Level 8	Vending pantry		13A switched fused connection outlet	1	
SP87	Level 8	Plantrooms		13A socket outlets	2	
SP61	Level 6			Underfloor power modules - clean supply	28	
SP62	Level 6			Flush wall mounted 13A switched socket outlets	22	
SP63	Level 6	Vending pantry		13A unswitched socket outlets	4	
SP64	Level 6	Vending Pantry		13A switched socket outlet	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP65	Level 6	Vending pantry		13A switched fused connection units	2	
SP66	Level 6	Vending pantry		13A switched fused connection outlet	1	
SP67	Level 6	Plantrooms		13A socket outlets	2	
SP51	Level 5	External walls		13A Window cleaning socket outlets and plugs to IP67	8	
SP52	Level 5	Office space		3 compartment underfloor boxes with 2 no. 13A switched socket outlets & 4 spaces for telecoms & data	14	
SP53	Level 5			Flush wall mounted 13A switched socket outlets	25	
SP54	Level 5	WCs		Fused conduit termination spurs	4	
SP55	Level 5	Plantrooms		13A socket outlets	3	
SP56	Level 5	Canteen areas		Various electrical accessories	1 lot	
SP41	Level 4			Underfloor power modules - clean supply	53	
SP42	Level 4			Underfloor power modules - normal supply	54	
SP43	Level 4			Flush wall mounted 13A socket outlets	22	
SP44	Level 4	Plantrooms		13A socket outlets	2	
SP45	Level 4	Plantrooms		13A switched fused connection outlet	4	
SP46	Level 4	Vending pantry		13A unswitched socket outlets	4	
SP47	Level 4	Vending Pantry		13A switched socket outlet	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP48	Level 4	Vending pantry		13A switched fused connection units	2	
SP49	Level 4	Vending pantry		13A switched fused connection outlet	1	
SP31	Level 3			Underfloor power modules - clean supply	44	
SP32	Level 3			Underfloor power modules - normal supply	44	
SP33	Level 3			Flush wall mounted 13A socket outlets	14	1 No. for TV monitor
SP34	Level 3			Flush wall mounted twin 13A socket outlets	6	1 No. unswitched in data riser, 1 No. unswitched in false ceiling void for TV monitors
SP35	Level 3	Vending pantry		13A unswitched socket outlets	4	
SP36	Level 3	Vending Pantry		13A switched socket outlet	1	
SP37	Level 3	Vending pantry		13A switched fused connection units	2	
SP38	Level 3	Vending pantry		13A switched fused connection outlet	1	
SP39	Level 3	External walls		13A Window cleaning socket outlets and plugs to IP67	10	
SP310	Level 3			3 compartment flush floor outlet boxes complete with 2 no. 13A switched socket outlets & 1 no. 5A socket outlet	1 lot	
SP21	Level 2			3 compartment underfloor trunking with 2 no. 13A socket	101	
SP22	Level 2			13A switched socket outlets	18	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP23	Level 2			Twin 13A socket outlets for CCTV	1	
SP24	Level 2			Switched fused spurs with neon indicators	2	
SP11	Level 1			13A socket outlets	60	
SP12	Level 1			13A switched fused connection units	15	
SP13	Level 1			13A unswitched fused connection unit	1	
SP15	Level 0 & level -1			13 A switched socket outlets	18	
SP01	Level 0			Socket outlet & plug to IP67	1	
TC151	Level 15	Toilet Core		13A fused spur connection units	7	4 no. serving hand driers, 1 no. serving macerator
TC152	Level 15	Toilet Core		Shaver socket	1	
TC141	Level 14	Toilet Core		13A fused spur connection units	7	4 no. serving hand driers, 1 no. serving macerator
TC142	Level 14	Toilet Core		Shaver socket	1	
TC121	Level 12	Toilet Core		13A fused spur connection units	8	5 no. serving hand driers, 1 no. serving macerator
TC122	Level 12	Toilet Core		Shaver socket	1	
TC111	Levels 2 -11	Toilet Core		13A fused spur connection units	80	5 no. serving hand driers, 1 no. serving macerator
TC112	Levels 2 - 11	Toilet Core		Shaver socket	10	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
TC51	Levels 5, 7, 9	Toilet core		13A fused spur connection units	3	Serving disabled toilet alarm
TC61	Levels 6, 8 & 10	Toilet core		Shaver socket	3	In executive washroom
ST1	Levels 1-4, Mezzanines	Stair cores		13A switched socket outlets	16	
SP111	Level 11			Underfloor power modules - clean supply	28	
SP112	Level 11			Flush wall mounted 13A switched socket outlets	8	
SP113	Level 11	Vending pantry		13A unswitched socket outlets	3	
SP114	Level 11	Vending pantry		13A switched socket outlet	3	
SP115	Level 11	Vending pantry		13A switched fused connection units	3	
SP116	Level 11	Vending Pantry		MK Commando type plug & socket 20A SP&N	1	
SP117	Level 11	Vending Pantry		20A switch unit	1	
SP118	Level 11	Plantrooms		13A socket outlets	2	
SP121	Level 12			Underfloor power modules - clean supply	24	
SP122	Level 12			Flush wall mounted 13A switched socket outlets	8	
SP123	Level 12	Vending pantry		13A unswitched socket outlets	3	
SP124	Level 12	Vending pantry		13A switched socket outlet	3	
SP125	Level 12	Vending pantry		13A switched fused connection units	3	
SP126	Level 12	Vending Pantry		MK Commando type plug & socket 20A SP&N	1	
SP127	Level 12	Vending Pantry		20A switch unit	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP128	Level 12	Plantrooms		13A socket outlets	1	
SP141	Level 14			Underfloor power modules - clean supply	24	
SP142	Level 14			Flush wall mounted 13A switched socket outlets	8	
SP143	Level 14			Flush wall mounted 13A twin switched socket outlets	2	
SP144	Level 14	Vending pantry		13A unswitched socket outlets	3	
SP145	Level 14	Vending pantry		13A switched socket outlet	3	
SP146	Level 14	Vending pantry		13A switched fused connection units	3	
SP147	Level 14	Vending Pantry		MK Commando type plug & socket 20A SP&N	1	
SP148	Level 14	Vending Pantry		20A switch unit	1	
SP149	Level 14	Plantrooms		13A socket outlets	1	
SP151	Level 15	External walls		Socket outlet & plug to IP67	6	
SP152	Level 15			3 compartment flush floor outlet box each incorporating 2 no 13A socket outlets	46	
SP153	Level 15			Brass finish 13A switched socket outlets	10	
SP154	Level 15			13A fused connection units	2	
SP155	Level 15			Twin 13 switched socket outlets in projection room	4	
SP156	Level 15	Kitchen equipment		Various electrical accessories	1 lot	
SP161	Level 16			Socket outlet & plug to IP67	2	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP162	Level 16			Switched fused connection units	3	
SP163	Level 16			13A switched socket outlets	11	
SP164	Level 16			Unswitched fused connection unit	1	
SP57	Level 5	Kitchen		Switched 13A socket outlets	8	
SP58	Level 5			Twin switched 13A socket outlets	6	
SP59	Level 5			Industrial type socket outlets rated to suit local MCBs	15	
SP510	Level 5			SP&N isolators for small power	15	
SP511	Level 5			13A Switched fused connection units	12	
SP512	Level 5			3-phase isolator units	3	
SP513	Level 5			Conduit outlet boxes with termination units	3	
SP514	Level 5			Knock-off button	1	
AFP1	Level 5			Ansul fire suppression control panel	1	
SP157	Level 15	Kitchen		13A switched socket outlets	9	
SP158	Level 15			Twin 13A switched socket outlets	5	
SP159	Level 15			SP&N isolators for small power	8	
SP1510	Level 15			3 phase isolator	1	
SP1511	Level 15			Conduit outlet boxes with termination units	2	
SP1512	Level 15			Industrial type socket outlets rated to suit local MCBs	1	

ELECTRICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
SP1513	Level 15			13A Switched fused connection units	10	
SP1514	Level 15			Knock-off button	1	
AFP2	Level 15			Ansul fire suppression control panel	1	
GENERATORS						
G1/2	Level 5	Building	Caterpillar	810 kVA Generator set Model No. 900F	2	1050 l integral diesel tanks
G3	Level 5	Level 4	Olympian	350 kVA Generator set Model GEP 400-2	1	400 l integral diesel tank
DT1	Level -1			18000 l Diesel storage tank complete with pump set 3000x3000x2000	1	
DB G1/G2	Level 5	Gen. supply for MLVP & Switchboard B	Merlin Gerin	2 x Compact NS 1600N		
C/O 3	Level 5	Changeover panel for generator No. 3.	Olympian	Changeover panel ATI630	1	
DB ESS	Level 5	Distribution board for Essential load	Legrand	3 Outgoing circuits : 1 x DPX630, 2 x DPX 250 4P	1	
PE1	Level 4 Data Centre	110 V DC PSU	Power supply - P&E systems	110 V DC	1	

DISTRIBUTION BOARD

Distribution Board	Location	Description	Manufacturer	Comments
2/0/LP	Basement	Lighting and small power.	Schneider	
0A/FP1		Power.		
0A/FP2		Power.		
0A/GP		Lighting and small power.		
0A/LP1		Lighting and small power.		
0A/LP2		Lighting and small power.		
DB-U-Lev 1	Level 1	Clean power	Schneider	
DB L/P Lev 1		Lighting and small power.		
1/1L	Level 1	Lighting	Merlin Gerin	
1/1P		Power.		
1A/EXL		External lighting		
1A/ALP1		Lighting and small power.		
1A/ALP2		Lighting and small power.		
1A/LP3		Lighting and small power.		
1A/LP4		Lighting and small power.		
1A/LP6		Lighting and small power.		
1/C/ATM		Clean power.		
DB-N12	Level 2	Lighting & power		
1/2C		Core services.		
DB-U12		Clean power.		
DB-N22		Lighting & power		
SDB-U22		Clean power.		
2/2C		Core services.		
1/3L	Level 3	Lighting		
1/3P		Power.		
3CP		Clean power.		
2/3L		Lighting		
3A/EXL		External lighting		
2/3P		Power.		
1/4L	Level 4	Lighting		
1/4P		Power.		
4CP		Clean power.		
2/4L		Lighting		
2/4P		Power.		

DISTRIBUTION BOARD

Distribution Board	Location	Description	Manufacturer	Comments
DB - 80 kVA	Level 4	Outgoing distribution board 80 kVA	Legrand	125 A
DB II	Level 4	Outgoing distribution board II	Legrand	63A
PDU 1	Level 4	Clean power distribution Data centre	Merlin Gerin	
MSCP	Level 4	Mechanical services Data Centre		
1/5L/P	Level 5	Lighting & power		
1/5C		Core services.		
B/5/KP1		Kitchen equipment.		
B/5/KP2		Kitchen equipment.		
B/5/LP		Lighting and small power.		
5B/EXL		External lighting		
MSCP1		Mechanical services control panel 1.		
1/6L	Level 6	Lighting		
1/6P		Power.		
6CP		Clean power.		
1/7L	Level 7	Lighting		
1/7P		Power.		
7CP		Clean power.		
1/8L	Level 8	Lighting		
1/8P		Power.		
1/8C		Core services.		
8CP		Clean power.		
1/9L	Level 9	Lighting		
1/9P		Power.		
9CP		Clean power.		
DB- P & L Lvl 10	Level 10	Lighting & power		
DB-U Lvl10		Clean power.		
1/11L	Level 11	Lighting		
1/11P		Power.		
1/11C		Core services.		
11CP		Clean power.		
1/12L	Level 12	Lighting		
1/12P		Power.		
12CP		Clean power.		
1/DB14L/P	Level 14	Lighting		
DB -U-LEV 14		Clean power.		
14A/EXL		External lighting		
1/15L	Level 15	Lighting		
1/15P		Power.		
1/15C		Core services.		
1/15/KP		Kitchen equipment.		
15CP		Clean power.		
MSCP2	Level 16	Mechanical services control panel 2.		

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
B1	Level 0 & -1		Thorn LU range 1200 twin florescent surface batten with polycarbonate diffuser	2 x 36W	41 no. Normal, 7 no.3 hour maintained battery pack & inverter units	
B	Level 0 & -1		Thorn LU range 1200 single florescent surface batten with polycarbonate diffuser	1 x 36W	2 no. Normal , 1 no.3 hour maintained battery pack & inverter units	
F2	Level 0 & -1		JSB type RX8/3M ICEL Maintained florescent illuminated double sided exit sign	1x8W	1 no.	Vertical arrow left or right
F1	Level 0 & -1		JSB type SED8/3M ICEL Maintained florescent illuminated double sided exit sign	1x8W	1 no.	Vertical arrow
F	Level 0 & -1		JSB type SE8/3M ICEL Maintained florescent illuminated single sided exit sign	1 x8W	2 no.	
N	Level 0 & -1		Not scheduled		17 no. Normal	
			Exitalite		4 no. 3 hour maintained battery pack & inverter units	
	Level 0		Infra red detectors for auto switching of car park & ramp lighting		2 no.	
	Level 1		Infra red detectors for auto switching of car park & ramp lighting		1 no.	
D	Level 0		Thorn 2D Supernova XR28/2DX028 Surface mounted florescent luminaire with opal diffuser	1 x 28W 2D	4 no. Normal, 3 no. 3 hour maintained battery pack & inverter units	
DL1	Level 1		Linea recessed downlight LED 2.0 W	2.0 W		18
DL2	Level 1		Linea recessed downlight LED 15 W	15 W		15
DL2E	Level 1		Linea recessed downlight LED 15 W with emergency Battery 3Ah	15 W		8
DL3	Level 1		Linea recessed downlight LED 10 W	10 W		58
DL3/E	Level 1		Linea recessed downlight LED 10 W with battery 3 Ah	10 W		1
DL6	Level 1		Recessed ceiling light 3 x 6.3 W 1200 Lm	3 x 6.3 W		44

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
PL1	Level 1		Pendant light Top LED 14 W	14 W	3	
LL1	Level 1		Strip LED light LED 7W c/w aluminium profile	7 W	100 m	
WL2	Level 1		Chelsom Bathroom wall light		2	
EM	Level 1		Emergency light 18 x 1.2 W		6	
EX	Level 1		Emergency light 18 x 1.2 W		3	
MD	Level 1		Motion detector		11	
N	Level 1		Exitalite		21 no. Normal, 8 no. 3 hour maintained battery pack & inverter units	
N1	Level 1				4 no. Normal, 1 no. 3 hour maintained battery pack & inverter units	
B	Level 1		Thorn LU range 1200 single florescent surface batten with polycarbonate diffuser	1 x 36W	13 no. Normal, 1 no. 3 hour maintained battery pack & inverter units	
B1	Level 1		Thorn LU range 1200 twin florescent surface batten with polycarbonate diffuser	2 x 36W	3 no. Normal, 3 no. 3 hour maintained battery pack & inverter units	
R	Level 1		Thorn PoppackPP136 1200 fluorescent batten	1x36W	6 no. Normal, 2 no. 3 hour maintained battery pack & inverter units	
S	Level 1		Thorn FPS136/FPWG40 1200 florescent flameproof with wire guard	1x36W	10 no.	
H	Level 1		Exitalite		5 no. Normal 2 no. 3 hour maintained battery pack & inverter units	
H1	Level 1		Moorlite 600/MM/S/3218P1 recessed modular 1200x600 fluorescent with lay-in prismatic diffuser	3x36W	6 no. Normal 2 no. 3 hour maintained battery pack & inverter units	
H2	Level 1		Moorlite 600/MM/M/3436P1 recessed modular 600x600 fluorescent with lay-in prismatic diffuser	3x18W	7 no. Normal, 3 no. 3 hour maintained battery pack & inverter units	
D	Level 1		Thorn 2D Supernova XR28/2DX028 Surface mounted fluorescent luminaire with opal diffuser	1 x 28W 2D	4 no. Normal, 5 no. 3 hour maintained battery pack & inverter units	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
T	Level 1		Thorn 2D Glorie 2D GRM 16 fluorescent down lighter with opal diffuser	1x36W	11 no. Normal	
P	Level 1		Thorn Escort OBV3008 fluorescent bulkhead with polycarbonate diffuser	3x8W	1 no. Normal, 2 no. 3 hour maintained battery pack & inverter units	
J	Level 1		Thorn Matrix 2D TR38/2DTE300x300 fluorescent recessed luminaire with silver square louvre	1x38W	3 no. Normal	
DL 01	Level 2		Junistar Recessed downlight LED 9W	9 W		35
DL02	Level 2		Junistar Recessed downlight LED 18W	18 W		39
DL03	Level 2		Sense recessed downlight LED 26 W	26 W		43
CL01	Level 2		LED panel 32 W	32 W		70
CL01E	Level 2		LED panel 32 W with emergency pack 1 hr			8
PL01			Pendant light LED 34 W			5
PL02	Bowen Square Entrance		Bover Suspended Chandelier 198.4 W	198.4 W		1
RL01	Level 2		Recessed ceiling light 3 x 6.2 W	3 x 6.2 W		16
LL1	Level 2		Strip LED light LED 7W c/w aluminium profile	7 W	10 m	
TL01	Level 2		Table lights Bover 10.5 W			3
EX	Level 2		Emergency light 18 x 1.2 W			3
PL04	Level 2		SG Concido white LED Pendant 57 W			5
N	Levels 2 & 3		Exitalite		11 no. normal, 2 no. 3 hour maintained battery pack & inverter units	
F	Level 2 & 3		JSB type SE8/3M ICEL Maintained florescent illuminated single sided exit sign	1 x8W	3 no.	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
A1	Level 4		Moorlite broad spread 130 recessed T 300/B13RT/W2/M/2436 1200x300 flourescent recessed with LG3 CAT2 louvre	2x36W	193 no. normal, 29 no. 3 hour maintained battery pack & inverter units	
A2	Level 4		Moorlite broad spread 130 recessed T 300/B13RT/W2/S/2218 600x300 flourescent recessed with LG3 CAT2 louvre	2x18W	13 no. normal	
C	Level 4		Moorlite Compact Source M/FL200 flourescent down lighter with Aluminium reflector	2x10W	63 no. normal, 6 no. 3 hour maintained battery pack & inverter units	
F	Level 4		JSB type SE8/3M ICEL Maintained florescent illuminated single sided exit sign	1 x8W	5 no.	
F2	Level 4		JSB RX8/3M ICEL flourescent illuminated double sided exit sign with vertical arrow left/right	1x8W	1 no. 3 hour maintained battery pack & inverter units 1 no.	
	Level 5		Receseed spotlights Jupiter Pro 1500 15 W Led 3000 K	15 W		137
	Level 5		Surface ceiling lights Marset Djembe 38.6 W	36.6 W		18
	Level 5		LED Panel 600 x 600 Rapsody 29 W	29 W		35
	Level 5		LED Panel 600 x 600 Rapsody 29 W c/w battery pack	29W		7
	Level 5		PIR Presence Dectector			19
	Level 5		Emergency recessed signage			10
	Level 5		LED Strip lights c/ w driver	9.6 W/m LED 4000K	80 m	
	Level 5		Wall lamps Danubio Faro Ref.63604	12 W		6
A1	Level 6		Moorlite broad spread 130 recessed T 300/B13RT/W2/M/2436 1200x300 flourescent recessed with LG3 CAT2 louvre	2x36W	100	
A2	Level 6		Moorlite broad spread 130 recessed T 300/B13RT/W2/S/2218 600x300 flourescent recessed with LG3 CAT2 louvre	2x18W	2 no.	
A3	Level 6		Not scheduled		3 no.	
C	Level 6		Moorlite Compact Source M/FL200 flourescent down lighter with Aluminium reflector	2x10W	55 no.	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
F	Level 6		JSB type SE8/3M ICEL Maintained florescent illuminated single sided exit sign	1 x8W	3 no.	
DL1	Level 10		Linea recessed downlight LED 2.0 W	2.0 W	34	
DL4	Level 10		Linea recessed downlight LED 13 W	13 W	28	
DL4E	Level 10		Linea recessed downlight LED 13 W with emergency Battery 3Ah	13 W	3	
DL5	Level 10		Linea recessed downlight LED 6.5 W	6.5 W	60	
LP1	Level 10		Dietal Ceiling LED panel LED 32 W Dali	32 W	30	
LP1E	Level 10		Dietal Ceiling LED panel LED 32 W + 3 Hr Emergency pack	32 W	13	
LP2			Linea ceiling light LED 28 w	28 W	14	
PL2			Linea pendant light Top LED 36 W	36 W	9	
PL3			Linea pendant light Top LED 36 W		1	
PL4			helsom Pendant light 3 x LED 8W		1	
LL1	Level 10		Strip LED light LED 7W c/w aluminium profile	7 W	100 m	
WL2	Level 10		Chelsom Bathroom wall light		8	
EM	Level 10		Emergency light 18 x 1.2 W		10	
EX	Level 10		Emergency light 18 x 1.2 W		7	
MD	Level 10		Motion detector		10	
PD	Level 10		Presence detector EE 815		14	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
PDD	Level 10		Presence detector EE 816 Dali		19	
A1	Level 7 -11		Moorlite broad spread 130 recessed T 300/B13RT/W2/M/2436 1200x300 flourescent recessed with LG3 CAT2 louvre	2x36W	91 no. normal, 11 no. 3 hour maintained battery pack & inverter units	
A3	Level 7-11		Not scheduled		3 no.	
C	Level 7-11		Moorlite Compact Source M/FL200 flourescent down lighter with Aluminium reflector	2x10W	56 no. normal, 3 no. 3 hour maintained battery pack & inverter units	
F2	Level 7-11		JSB type RX8/3M ICEL Maintained florescent illuminated double sided exit sign	1x8W	1 no.	
F	Level 7-11		JSB type SE8/3M ICEL Maintained florescent illuminated single sided exit sign	1 x8W	2 no.	
A1	Level 12		Moorlite broad spread 130 recessed T 300/B13RT/W2/M/2436 1200x300 flourescent recessed with LG3 CAT2 louvre	2x36W	69 no. normal, 10 no. 3 hour maintained battery pack & inverter units	
A2	Level 12		Moorlite broad spread 130 recessed T 300/B13RT/W2/S/2218 600x300 flourescent recessed with LG3 CAT2 louvre	2x18W	6 no.	
C	Level 12		Moorlite Compact Source M/FL200 flourescent down lighter with Aluminium reflector	2x10W	39 no.	
F	Level 12		JSB type SE8/3M ICEL Maintained florescent illuminated single sided exit sign	1 x8W	2 no.	
	Level 14		Recessed spotlights - Jupiter Pro 1500 15 W	15W	105	
	Level 14		LED panel 600 x 600 Rapsody V2 29 W 4000 K	29 W	38	
	Level 14		PIR Presence / Motion detector		30	
	Level 14		Emergency LED panel 600 x 600 Rapsody V2 29 W 4000 K c/ w battery pack	29 W	8	
	Level 14		Recessed emergency light	1.2 W	4	
	Level 14		Pendant light with dimmer switch - Ambrosia 120 19.2 W	19.2 W	10	
	Level 14		Emergency signage c/w pictogram		20	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
	Level 14		Wall Lamps Danubio Faro 395 Ref.63604	12 W	9	
	Level 15		LED Spotlights 20 W	20 W	35	
	Level 15		LED panels 600 x 600	28 W	3	
G1	Level 15		Moorlite DTFA recessed modular 600/DT/FA/M/3463P1 1200x600recessed flourescent IP54 with prismatic diffuser	3x36W	3 no. normal, 1 no. 3 hour maintained battery pack & inverter units	
G2	Level 15		Moorlite DTFA recessed modular 600/DT/FA/S/3218P1 600x600recessed flourescent IP54 with prismatic diffuser	3x18W	2 no.	
H2	Level 15		Moorlite DTFA recessed modular 600/DT/FA/S/3436P1 600x600recessed flourescent IP54 with prismatic diffuser	3x18W	1 no. 3 hour maintained battery pack & inverter units	
H1	Level 15		Moorlite MM recessed modular 600/MM/S/3218P1 1200x600recessed flourescent IP54 with prismatic diffuser	3x36W	5 no. normal, 1 no. 3 hour maintained battery pack & inverter units	
N	Level 16		Exitalite		15 no. normal, 7 no. 3 hour maintained battery pack & inverter units	
D	Level 16		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	1 no. normal, 1 no. 3 hour maintained battery pack & inverter units	
P	Level 16		Thorn Escort OBV3008 flourescent bulkhead with polycarbonate diffuser	3x8W	1 no. normal, 2 no. 3 hour maintained battery pack & inverter units	
Aircraft warning lights	Level 16 external				4 no.	
R	Levels 2,3 & 4	Toilets	Thorn Pop pack PP136 1200 flourescent batten	1x36W	27 no. normal, 6 no. 3 hour maintained battery pack & inverter units	
J		Toilets			15 no.	
R1			Thorn Pop pack 1200 twin flourescent batten	2x36W	21 no.	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
C1			Exitalite		24 no. normal, 6 no. 3 hour maintained battery pack & inverter units	
R	Levels 5-12	Toilets	Thorn Pop pack PP136 1200 flourescent batten	1x36W	40 no. normal, 24 no. 3 hour maintained battery pack & inverter units	
R1			Thorn Pop pack 1200 twin flourescent batten	2x36W	80 no. normal	
C1			Exitalite		80 no. normal, 16 no. 3 hour maintained battery pack & inverter units	
J					40 no. normal	
R	Level 14	Toilets	Thorn Pop pack PP136 1200 flourescent batten	1x36W	8 no. normal, 2 no. 3 hour maintained battery pack & inverter units	
C1					8 no. normal	
R1			Thorn Pop pack 1200 twin flourescent batten	2x36W	4 no. normal	
J					4 no. normal	
R	Level 15	Toilet	Thorn Pop pack PP136 1200 flourescent batten	1x36W	10 no. normal, 2 no. 3 hour maintained battery pack & inverter units	
R1			Thorn Pop pack 1200 twin flourescent batten	2x36W	4 no.	
J					3 no. normal	
C1					12 no normal	
D	Core lighting level 15		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	7 no. normal, 6 no. 3 hour maintained battery pack & inverter units	
D	Core 14		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	4 no. normal, 9 no. 3 hour maintained battery pack & inverter units	
D	Core 12		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	4 no. normal, 7 no. 3 hour maintained battery pack & inverter units	
D	Core 2-11		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	60 no. normal, 60 no. 3 hour maintained battery pack & inverter units	
D	Stair 4 Levels 1-4 incl mezzanine		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	6 no. normal, 7 no. 3 hour maintained battery pack & inverter units	

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
N	Stair 4 Levels 1-4 incl mezzanine		Exitalite		4 no. normal, 1 no. 3 hour maintained battery pack & inverter units	
B	Stair 4 Levels 1-4 incl mezzanine		Thorn LU range 1200 single florescent surface batten with polycarbonate diffuser	1 x 36W	1 no. 3 hour maintained battery pack & inverter units	
D	Stair 3		Thorn 2D Supernova XR28/2DX028 Surface mounted flourescent luminaire with opal diffuser	1 x 28W 2D	13 no. normal, 16 no. 3 hour maintained battery pack & inverter units	
N	Stair 3		Exitalite		1 no. normal, 1 no. 3 hour maintained battery pack & inverter units	
SPECIALIST LIGHTING						
L1	Main entrance		Lucent LDL SP 1350 Free standing torchere	1 x 250W	2 no.	
L2	Main entrance		Lucent LDL SP 1351 Desk torchere	1x250W	1 no. Normal, 1 no. 3 hour non maintained emergency unit	
L3	Level 1 Main entrance		Inotec LDL SP 1362 Metal halide uplighter GE MBI-T lamp	1x70W	8 no.	
L4	Level 1 entrance	Rotating doors 1 & 2	Electrolite Starshine B with clear cover & leaf springs lv down lighter Osram 50mm dichroic lamp	1x50W @ 12V	8 no.	4 units to each door fed from local transformer
L5	Level 1		1 Guzzini laser pixel 8068 lv recessed directional down lighter Osram 50mm dichroic lamp	1x50W @ 12V	18 no.	All fed by individual 50VA 12V local transformers
	Level 14				16 no. Normal, 2 no. 3 hour non maintained emergency unit	
	Level 15				36 no.	
L5A	Level 1		Erco 89121 recessed lv directional down lighter Osram 50mm dichroic lamp	1x5W @ 12V	4 no.	All fed by individual 50VA 12V local transformers
	Level 14				2 no. Normal, 2 no. 3 hour non maintained emergency unit	
L6/L14	Lift lobbies 1-15, main entrance levels 1,2 & 3		Lumino Moonlight Bere wall mounted halogen uplighter with asymmetric reflector, Osram TH linear lamp	1x300W	45 no.	
L7/L8/L11	Level 2		Commercial lighting systems ref 10109 recessed 150W metal halide down lighter with 20°beam spread, Osram HQI T lamp	1x150W	4 no.	Fed by remote gear box

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
	Level 3				16 no.	
	Level 2				10 no.	
L9	All entrances		High Technology lighting DF WRM 155 HF recessed fluorescent wall washer, Osram dulux L lamp	1 x55W	38 no. Normal, 10 no. 3 hour non maintained emergency unit	
L10	Bowen Square Entrance		Oldham Signs HI SLIM fluorescent cornice unit		1 no.	16m signage lighting, equipment by Oldham Signs
L17	Queen Elizabeth entrance		Lucent Lighting LDL SP 1354 surface mounted compact fluorescent with dropped glass, Osram Dulux SE lamp	1x9W	3 no. Normal 5 no 3 hour non-maintained emergency unit	
L18	Queen Elizabeth entrance		Lumino Moonlight Soc tungsten halogen uplighter on granite base, Osram TH linear lamp	1x300W	2 no.	
L22	Banking halls		DAL A0983/100/D suspended fluorescent up/down lighter with Osram T8 lamp	4x58W	40 no. Normal, 34 no. 3 hour non maintained emergency units	Configuration of 4 no. Lamps per fitting
L23	Banking Halls		Lucent LDL SP 1357 column mounted metal halide uplighter, Osram HQI TS lamp	1x150W	16 no.	
L24	Level 1 Banking hall	Barrel vault lighting	Lucent LDL SP 1358 with 4 central lv down lighters and 3 lv starlights on either side of barrel. Osram dichroic & TH Bipin lamps	6x20W @ 12V 4x50W @ 12V	13 no.	4 down lighters fed from 200VA 12V transformer, each set of 3 starlights fed from 75VA 12V transformer
twin				2x58W	4 no.	
L35	Levels 3 & 15		Ercos 89061 recessed low voltage double focus down lighter, Osram TH Bi-pin lamps	1x100W @ 24V	109 no. Normal, 29 no. 3 hour non maintained emergency units	Each fed from individual 100VA 24V transformers
L36	Level 15		Lucent Lighting LDL SP 1360 Custom sem-recessed decorative glass down lighter Osram TH Bipin lamps	1x100W @ 24V 4x10W @ 12V	11 no.	10W & 100W lamps on different circuits. Each luminaire served by 100VA 24V & 50VA 12V transformers
L41	Level 15		Lucent Lighting LDL SP 1362 semi-recessed LV chandelier, Osram Halostar & TH Bipin lamps	1x150W 24x10W @ 12V	2 no.	Fed by integral dimmable transformer
L43	Level 15		Lucent lighting LDL SP 1363 column mounted tungsten uplighter Osram TH linear lamp	1x300W	4 no.	
L45	Levels 14 & 15		Ercos 89191 recessed wall washing down lighter Osram TH linear lamp	1x100W @ 24V	24 no.	Fed by individual 100VA 24V transformers
L47	Level 15		Lucent LDL SP-1366 decorative wall mounted uplighter. Osram TH linear lamp	1x300W	2 no.	
L49	Level 14		Microlight RMG7 recessed lv down lighter for wet areas, Osram dichroic	1x50W @ 12V	2 no.	Fed by individual 50VA 12V transformers

LIGHTING REGISTER

Tag	Location	Serving	Manufacturer and type	Duty	No.	Comments
Rack 2	Level 15	Lighting control to boardroom and function room	Electrosonic ES6812 system 12 programmable scene controller with 12 MCB protector 10A/240V dimmers with expansion unit & ES14/2/AH 10A modular thyristor dimmer:		1 no. (6 Modules)	
			Helvar lighting Router Digidim		1	
			Dimmer Module Helvar HES 92010		5	
			ES7808 Sceneselector double gang panel with 8xLED push buttons;		4 no.	
Manual dimmers			Electrosonic ES14/2/AH 10A modular thyristor dimmers		19 no.	Presently not in service.
Luminaire transformers	Throughout		HA Birch & Co 50VA 12V 75VA 12V 100VA 24V 200VA 12V		91 no. 26 no. 173 no. 15 no.	As referenced in luminaires above

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
UPS's & ASSOCIATED EQUIPMENT						
UPS 1-1	UPS Room AHU1B Plantroom	UPS 50 kVA	Eaton PW93PM	4 x 50 kVA	4 No.	Year 2021.Parallel Operation. By others.
UPS-IN	UPS Room	Incoming distribution board			1 No.	
UPS -OUT	UPS Room	Outgoing board			1 No.	
UPS 3	Level 3	UPS 40 kVA	Eaton PW9535	4 x 40 kVA	4 No.	Year 2016.Parallel operation . By others
UPS-IN	Level 3	Incoming distribution board			1 No.	
UPS -OUT	Level 3	Outgoing board			1 No.	
DB - 80 kVA	Level 4	Outgoing distribution board 80 kVA		125 A	1 No.	DB
DB II	Level 4	Outgoing distribution board II		63A	1 No.	DB

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
Level 1 FIRE ALARM EQUIPMENT						
FMP1	BMS Room	Main Panel 1	Thorn Security Minerva MX4000	80 zone new FA panel	1	
			830 PH	Smoke detector	427	
			CP820	Indoor Callpoint	85	
			LPSY800-R/W	Indoor sounder	45	
			LPS 800	Loop powered sounder	18	
			LPAV800-R/W	Indoor sounder with beacon	24	
			RIM 800	Relay Interface Module	57	
			CIM 800	Contact Interface Module	28	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
			830H/801H	Heat detector	7	
			CP830	Outdoor callpoint	1	
			LPAV 865	Outdoor sounder with beacon	3	
			SIO 800	Single Input /Output	2	
FMP	BMS Room	Panel 2	Thorn Security Minerva		1	
			830 PH	Smoke detector	47	
			801 PH	Smoke detector	1	
			CP820	Indoor Callpoint	7	
			LPSY800-R/W	Indoor sounder	6	
			LPS 800	Loop powered sounder	4	
			RIM 800	Relay Interface Module	6	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
			CIM 800	Contact Interface Module	3	
			830H	Heat detector	2	
			SIO 800	Single Input /Output	2	
FMP	Fire fighting lobby Level 1	Level 1 Main Panel	Wormald FBs16 50 zone panel		1	
FS	Fire fighting lobby Level 1	Fireman's keyswitch		Included in above	1	
PSD-1	Level -1			Photoelectric smoke detectors	2	
ZID-1	Level -1			Zone isolation device	4	
FXB-1	Level -1			Flashing Xenon beacons	2	
BG0	Level 0			Break glass units	6	
SFS0	Level 0			Automatic sprinkler flow switch	2	
IU0	Level 0			Interface units	2	For shutdown of mechanical plant
ZID0	Level 0			Zone isolation device	4	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
BG1	Level 1			Break glass units	20	
SFS1	Level 1			Automatic sprinkler flow switch	2	
ZID1	Level 1			Zone isolation device	6	
DSD1	Level 1			Duct mounted smoke detector	1	
THD1	Level 1			Fixed temperature heat detector	1	
IU1	Level 1			Interface units	3	For shutdown of mechanical plant
RD1	Level 1			Remote indicator	1	
ES1	Level 1			Electronic sounders	33	
IGP1	Level 1			Inergen gas panel (CEB Intake) & 6 Inergen cylinders.	1	
SFS2	Level 2			Automatic sprinkler flow switch	1	
ZID2	Level 2			Zone isolation device	6	
IU2	Level 2			Interface units	3	
DSD2	Level 2			Duct mounted smoke detectors	2	
PSD2	Level 3			Photoelectric smoke detectors	3	
SFS3	Level 3			Automatic sprinkler flow switch	1	
RI3	Level 3			Remote indicators to plant room	2	
DSD3	Level 3			Ductmounted smoke detector	2	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
ZI3	Level 3			Zone isolators	1	
IF3	Level 3			Interface units	3	
DSD4	Level 4			Duct mounted smoke detector	2	
BG4	Level 4			Break glass units	4	
SFS4	Level 4			Automatic sprinkler flow switch	1	
ZID4	Level 4			Zone isolation device	1	
IU4	Level 4			Interface units	6	
IGP4	Level 4			Inergen gas panel	1	
DSD5	Level 5			Duct mounted smoke detector	1	
SFS5	Level 5			Automatic sprinkler flow switch	1	
ZID5	Level 5			Zone isolation device	2	
IU5	Level 5			Interface Units	6	
PSD5	Level 5			Photoelectric smoke detectors	1	
FXB5	Level 5			Flashing Xenon beacons	7	
DSD6	Level 6			Duct mounted smoke detector	2	
SFS6	Level 6			Automatic sprinkler flow switch	1	
IU6	Level 6			Interface Units	2	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
DSD7	Level 7			Duct mounted smoke detector	2	
SFW7	Level 7			Automatic sprinkler flow switch	1	
IU7	Level 7			Interface Units	2	
DSD8	Level 8			Duct mounted smoke detector	2	
BG8	Level 8			Break glass units	2	
SFS8	Level 8			Automatic sprinkler flow switch	1	
IU8	Level 8			Interface Units	2	
DSD9	Level 9			Duct mounted smoke detector	2	
SFS9	Level 9			Automatic sprinkler flow switch	1	
IU9	Level 9			Interface Units	2	
DSD10	Level 10			Duct mounted smoke detector	2	
SFS10	Level 10			Automatic sprinkler flow switch	1	
IU10	Level 10			Interface Units	2	
DSD11	Level 11			Duct mounted smoke detector	2	
SFS11	Level 11			Automatic sprinkler flow switch	1	
ZID11	Level 11			Zone isolation device	1	
DSD12	Level 12			Duct mounted smoke detector	1	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
SFS12	Level 12			Automatic sprinkler flow switch	1	
DSD14	Level 14			Duct mounted smoke detector	1	
SFS14	Level 14			Automatic sprinkler flow switch	1	
IU14	Level 14			Interface Units	1	
ZID14	Level 14			Zone isolation device	1	
DSD15	Level 15			Duct mounted smoke detector	2	
SFS15	Level 15			Automatic sprinkler flow switch	1	
RI15	Level 15			Remote indicator to goods lift shaft	1	
THD15	Level 15			Fixed temperature heat detectors	2	
ZID15	Level 15			Zone isolation device	1	
RI16	Level 16			Remote indicators	4	
SFS16	Level 16			Automatic sprinkler flow switch	1	
IU16	Level 16			Interface units	3	
BG4	Level 4	Computer suite		Break glass unit	8	
PSD4F	Level 4	Computer suite		Photoelectric smoke detectors in floor void	10	
PSD4C	Level 4	Computer suite		Photoelectric smoke detectors in ceiling void	10	
ISD4F	Level 4	Computer suite		Ionisation smoke detectors in floor void	10	

FIRE ALARM

Tag	Location	Serving	Manufacturer & Model	Duty	Number	Comments
ISD4C	Level 4	Computer suite		ionisation smoke detectors in ceiling void	10	
PSD4S	Level 4	Computer suite		Photoelectric smoke detectors ceiling surface mounted	5	
ISD4S	Level 4	Computer suite		ionisation smoke detectors ceiling surface mounted	5	
ES4	Level 4	Computer suite		Electronic sounders	3	
IGS4	Level 4	Computer suite		Inergen gas control panel + 24 Gas Cylinders	1	

FSu1	MLVP Room	MLVP Room	Thorn Security - TYCO	Sapphire Suppression System 1 gas cylinder & Control Panel MZX	1	
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FIRE EXTINGUISHERS

FE	Levels 0 - 16	Staircases & plantrooms	Multifeu	ABC Powder 6 Kg	40	
		Staircases & plantrooms	SRI	CO2 5 Kg	8	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
CHILLER UNIT ROOMS						
Ch 1A, 1B, 2A & 2B	Level 5 plant room	Packaged chiller, serving levels 1-3 & 5-14	Trane, RTAE 150E	550 kW	4	By others.
Ch 3	Level 5 plant room	Packaged chiller, serving level 4	Trane, CGAM100E	350 kW	1	By others.
Ch 4	Level 16 plant room	Packaged chiller, serving level 15	Trane, EGCL 400	102.3kW	1	By others.
AIR HANDLING UNITS						
1A	Level 1	AHU serving level 1	Klimax, KCD-160	4050 l/s 83.7kW	1	CAV
1B	Level 1	AHU serving level 1	Klimax, KCD-160	4620 l/s 77.56kW	1	CAV
2B	Level 2	AHU serving level 2	Klimax, KCD-400	11350 l/s 289.8kW	1	VAV
3B	Level 3	AHU serving level 3	Klimax, KCD-350	9170 l/s 214.3kW	1	VAV
4A	Level 4	AHU serving level 4	Klimax, KCD-030	810 l/s 17.3kW	1	VAV
4B	Level 4	AHU serving level 4	Klimax, KCD-280	8200 l/s 156.1kW	1	VAV
4C	Level 4	AHU serving level 4	Klimax, KCD-160	4300 l/s 97.9 kW	1	VAV
4D	Level 4	AHU serving level 4	Klimax, KCD-160	3840 l/s 178 kW	1	VAV
5A	Level 5	AHU serving level 5	Klimax, KCD-080	2010 l/s 61.2 kW	1	CAV
5B	Level 5	AHU serving level 5	Klimax, KCD-080	1790 l/s 40.8 kW	1	CAV
5C	Level 5	AHU serving level 5 kitchen	NOVAIR CTA 221	184.3 kW cooling / 21,000 m3/hr	1	
6A	Level 6	AHU serving level 6	Klimax, KCD-130	3250 l/s 102.1kW	1	VAV
6B	Level 6	AHU serving level 6	Klimax, KCD-080	2000 l/s 50 kW	1	VAV

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
7A, 8A, 9A, 10A, 11A	Level 7- 11	AHU serving level 7-11	Klimax, KCD-080	2100 l/s 58.1 kW	5	VAV
7B, 8B, 9B, 10B, 11B	Level 7-11	AHU serving level 7-11	Klimax KCD-130	2760 kW 72.4kW	5	VAV
12A	Level 12	AHU serving level 12	Klimax, KCD-160	3950 l/s 97 kW	1	VAV
14A	Level 14	AHU serving level 14	Klimax, KCD-160	4100 l/s 108.04kW	1	VAV
15A	Level 15	AHU serving level 15	Klimax, KCD-130	2870 l/s 74.54kW	1	CAV
15B	Level 15	AHU serving level 15	TRANE CLCP Euro 008		1	CAV -
15C	Level 15	AHU serving level 15	Klimax, KCD-030	860 l/s	1	CAV
SPLIT UNITS						
Airedale CR1/PR1	Level 4	Closed Loop Control Unit	Airedale - DFCW12	45 kW	2 No.	Chilled water from chiller 3.
Airedale CR2	Level 4	Closed Loop Control Unit	Airedale - DF31CWAT	31.4 kW	1 No.	Chilled water from chiller 3.
Cassette Type CS1/CS2	Level 4	Split A/C units	Midea 60HRDNX	60,000 Btu	2 No.	Condensers level 5 Balcony
FC1-3	Level 4 tape store	Fan coil units	Aeromaster	3.2kW	3 No.	
C1-1	Level 0 (basement)	Chilled refuse (level 1)	Acson ALC10B	3.2 kW	1 No.	
C1-2A	Level 0 (basement)	Server Room near Control Room	Midea - MSABEU 24HRFN1	24,000 Btu	1 No.	
C1-3	Level -1 (basement)	ATM area (level 1)	Midea MUEU 18HRFNX	18,000 Btu	1 No.	
C1-4	Level -1 (basement)	ATM area (level 1)	Midea MUEU 18HRFNX	18,000 Btu	1 No.	
C1-5	Level 1	Security Mess Room	Midea MSABBU 12HRFN1	12,000 Btu	1 No.	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
C1-6	Level 1	Control Room	Midea MUE 24HRFNX	24,000 Btu	1 No.	
C1-6A	Level 1	Control Room	Midea MSABBU 12HFN1	12,000 Btu	1 No.	
C1-7A	Level 1	Transformer Room	Midea MUE 60 HRFNX	60,000 Btu	1 No.	
C1-7B	Level 1	MLVP Room	Midea MUE 24HRFNX	25,000 Btu	1 No.	
C1-8	Level 1	UPS room	Midea MUE 60 HRFNX	60,000 Btu	1 No.	
C1-9	Level 1	UPS room	Midea MUE 60 HRFNX	60,000 Btu	1 No.	
C1-10	Level 1	Lift 5 motor room	Mc Quay MSLLC610	15kW	1 No.	
C1-11	Level 1	Security Mess Room	Midea MSABBU 12 HRFN1	12,000 Btu	1 No.	
C1-12	Level 1	BMS Room	Midea MSABEU 12HRFN1	12,000 Btu	1 No.	
C2-1	Level 2	Data Room level 2	Midea MSABEU 24HRFN1	24,000 Btu	1 No.	
C2-2	Level 2	Data Room level 2	Midea MSABDU 18 HFN1	18,000 Btu	1 No.	
C3-1	Level 3	Data room level 3	Midea MSABDU 18 HFN1	18,000 Btu	1 No.	
C3-1A	Level 3	Data room level 3	Midea MSABDU 18 HFN1	18,000 Btu	1 No.	
C3-2	UPS room level 3	UPS room level 3	Daikin FHRN140CXVI	16 kW	1 No.	
C3-2A	UPS room level 3	UPS room level 3	Daikin FHRN100EXVI	11.1 kW	1 No.	
C4-1	Level 4	Lift 8 motor room	Mid-Air MSARC 18CRDN1	18,000 Btu	1 No.	Condenser level 5 plantroom
C5-1	Level 5 plant room	Conference room	Midea	60,000 Btu	1 No.	Ducted type

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
C5-2	Level 5 plant room	Catering Manager's office	Midea MSABBU 12HFN1	12,000 Btu	1 No.	
L1, L2 & L3	Level 16 plant room	Lifts A, B & C motor room	Midea MUE 36HRDN1-RW	36,000 Btu	2 No.	
L4	Level 16 plant room	Lift 4 motor room	Midea MUE 24 HRFNX	24,000 Btu	1 No.	
	Ground	MV Switchgear Room	Midea	18,000 Btu	2 Nos.	

VRF (Variable Refrigerant Flow) System for Data Rooms

VRF M	Level 5 plant room	Central VRF Outdoor unit	Samsung VRF DVM S Model AM080MXIMDGH/EU	22 kW	2	
VRF CT	Levels 6-12 & 14	Ceiling mounted 4-way cassette type indoor unit	Samsung AM045FNNDEH/EU	4.5 kW	8	

VAV TERMINAL UNITS						
	Levels 1-4, 6-14	General areas	Waterloo - Ozonair, type WVV	200 Diameter	148	
	Levels 1-4, 6-14	General areas	Waterloo - Ozonair, type WVV	250 Diameter	42	
	Levels 1-4, 6-14	General areas	Waterloo - Ozonair, type WVV	160 Diameter	68	
FANS						
F1/1		Chilled refuse	Luft fans MAX220	0.19 m ³ /s, single phase	1	IP44
F1/2		Toilet entrance lobby	Luft fans MAX190	0.05m ³ /s, single phase	1	IP44
F1/3		Security bay	Luft fans EK400	0.5m ³ /s, single phase	1	IP55
F1/4		Service bay extract	Luft fans EK400	0.678m ³ /s, single phase	1	IP55

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
F1/5		Toilet - counting area	Luft fans MAX190	0.05m ³ /s, single phase	1	Twin fan units IP44
F1/6		Mezzanine toilets	Luft fans MAX220L	0.072m ³ /s, single phase	1	Twin fan unit IP44
F1/7		Toilet near expansion area	Luft fans MAX190	0.05m ³ /s, single phase	1	Twin fan unit IP44
F15/1	Level 16 plant room	Extract, Level 15	Luft fans CBM270/200	0.65m ³ /s	1	
F15/2	Level 16 plant room	Extract, level 15	Luft fans CBM270/200	0.36m ³ /s	1	
F15/4	Level 16 plantroom	Extract, level 15	Luft fans22BA/150/10	1.08m ³ /s	1	Bifurcated axial flow
F15/5	Level 16 plantroom	Extract level 15	Luft fans MAX220L	0.12m ³ /s	1	In-line mixed flow
EAF01	Level 5 Plantroom	Extract kitchen	France Air - Defumair XR 9006 P 11 kW	24,500m ³ /hr	1	
EF1			Luft fans AZ315	1.84m ³ /s, three phase	1	IP55
EF2			Luft fans AZ315	1.34m ³ /s, three phase	1	IP55
EF3			Luft fans 35 BA 250/14	3.7m ³ /s / 1.85m ³ /s three phase	1	IP55, bifurcated, two speed
EF4			Luft fans 22 BA150/10	1.08m ³ /s / 0.54m ³ /s three phase	1	IP55, bifurcated, two speed
EF5			Luft fans MAX220 L	0.12m ³ /s, single phase	1	IP44, in-line mixed flow
EF6 & 7			Luft fans16M/150 /5	1.45m ³ /s, three phase	2	Flameproof class one div one, long case axial
EF8 & 9			Luft fans 22M/150/5	3.65m ³ /s, three phase	2	Flameproof Class one div one, long case axial
TEF1			Luft fans CBP 320/240	1.47m ³ /s, three phase	1	IP55, twin cat TC DB9

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
TEF2			Luft fans CBP 320/32C	1.56m ³ /s, three phase	1	IP55, twin cat TC DB9
AHU-EF1A	Level 1	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF4D	Level 4	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF6B	Level 6	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF7A	Level 7	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF8A	Level 8	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF9A	Level 9	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF10A	Level 10	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF11A	Level 11	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF7B	Level 7	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF8B	Level 8	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF9B	Level 9	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF10B	Level 10	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF11B	Level 11	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF15A	Level 15	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF15B	Level 15	General floor extract	Luft fans CBM 720/200	Single phase	1	IP40, in line axial
AHU-EF1B	Level 1	General floor extract	Luft fans CBM 180/180	0.21 m ³ /s, single phase	1	IP40, in line axial

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
AHU-EF5B	Level 5	General floor extract	Luft fans CBM 180/180	0.27 m ³ /s, single phase	1	IP40, in line axial
AHU-EF4C	Level 4	General floor extract	Luft fans CBM 270/270	0.73 m ³ /s, single phase	1	IP40, in line axial
AHU-EF12A	Level 12	General floor extract	Luft fans CBM 270/270	0.77m ³ /s, single	1	IP40, in line axial
AHU-EF5A	Level 5	General floor extract	Luft fans CBM 320/240	1.0m ³ /s, single phase	1	IP40, in line axial
AHU-EF6A	Level 6	General floor extract	Luft fans CBM 320/240	1.15 m ³ /s, single phase	1	IP40, in line axial
AHU-EF14A	Level 14	General floor extract	Luft fans CBM 320/240	0.84 m ³ /s, single phase	1	IP40, in line axial
AHU-EF4A	Level 4	General floor extract	Luft fans CBM 2 GDR 35-133	0.11m ³ /s, single phase	1	IP40, in line axial
SECURE GRILLES						
SU-1	Level 1 vault	Vault	Fuji-Seiko Fuji Airguard Model 648AP		1	
SU-2	Level 1 vault	Safety deposit	Fuji-Seiko Fuji Airguard Model 648AP		1	
FIRE DAMPERS/GRILLES						
SG1	Level 0	Smoke Extract			4	
D15-1T	Level 15	Supply	Waterloo Ozonair, Square	300 x 300	5	
D15-2T	Level 15	Extract	Waterloo Ozonair, Square	300 x 300	6	
FD15-1T	Level 15		Actionair	200 x 200	5	
FD15-2T	Level 15		Actionair	300 x 200	2	
FD15-3T	Level 15		Actionair	150 x 100	4	
FD15-4T	Level 15		Actionair	600 x 350	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD15-5T	Level 15		Actionair	700 x 350	1	
FD15-6T	Level 15		Actionair	150 x 150	1	
FD15-7T	Level 15		Actionair	200 x 150	4	
D15-1G	Level 15	Supply / return	Waterloo Ozonair, 1 way linear 4 slot	9000	1	
D15-2G	Level 15	Supply	Waterloo Ozonair, 1 way linear 4 slot	7800	2	
D15-3G	Level 15	Supply	Waterloo Ozonair, 1 way linear 4 slot	7800	2	
D15-4G	Level 15	Supply	Waterloo Ozonair, 1 way linear 4 slot	2400	1	
D15-6G	Level 15	Supply	Waterloo Ozonair, 1 way linear 4 slot	3600	2	
D15-7G	Level 15	Supply	Waterloo Ozonair, Square 2-way	300 X 300	1	
D15-8G	Level 15	Supply	Waterloo Ozonair, 1 way linear 4 slot	6100	1	
D15-9G	Level 15	Supply	Waterloo Ozonair, Square 4-way	300 X 300	1	
D15-10G	Level 15	Supply	Waterloo Ozonair, Linear 2 way 4 slot	6200	1	
D15-11G	Level 15	Supply	Waterloo Ozonair, Linear 2 way 4 slot	10800	1	
D15-12G	Level 15	Return	Waterloo Ozonair, Square 4 way	300 X 300	2	
D15-13G	Level 15	Extract	Waterloo Ozonair, Square 4 way	300 X 300	1	
D15-14G	Level 15	Supply	Waterloo Ozonair, Square 4 way	375 X 375	3	
D15-15G	Level 15	Supply	Waterloo Ozonair, Square 4 way	300 X 300	2	
FD15-1G	Level 15		Actionair	450 x 350	1	
FD15-2G	Level 15		Actionair	500 x 400	1	
FD15-3G	Level 15		Actionair	650 x 700	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD15-4G	Level 15		Actionair	800 x 600	2	
FD15-5G	Level 15		Actionair	200 x 200	1	
FD15-6G	Level 15		Actionair	600 x 400	3	
FD15-7G	Level 15		Actionair	500 x 300	2	
FD15-8G	Level 15		Actionair	300 x 200	2	
FD15-9G	Level 15		Actionair	250 x 300	1	
FD15-10G	Level 15		Actionair	250 x 200	1	
SAG01-SAG 27	Level 14	Supply	Rickard VAV Ceilig Diffuser VSD 250	600 x 600	27	
			C/W Rickard Master Communication Unit	MLM24 PSU2	1	
D12-1G	Level 12	Supply/return	Waterloo Ozonair, Linear 4 slot	2700	1	
D12-2G	Level 12	Supply	Waterloo Ozonair, Linear 4 slot	15900	1	
D12-3G	Level 12	Supply	Waterloo Ozonair, Linear 4 slot	9000	1	
D12-4G	Level 12	Supply/return	Waterloo Ozonair, Linear 4 slot	471	8	Special diffuser
D12-5G	Level 12	Supply/return	Waterloo Ozonair, Linear 4 slot	471	6	Special diffuser
D12-6G	Level 12	Supply/return	Waterloo Ozonair, Linear 4 slot	30900	1	
D12-7G	Level 12	Supply/return	Waterloo Ozonair, Linear 4 slot	2700	1	
FD12-1G	Level 12		Actionair	1150 x 450	1	
FD12-2G	Level 12		Actionair	850 x 300	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD12-3G	Level 12		Actionair	200 x 200	4	
FD12-4G	Level 12		Actionair	600 x 300	1	
FD12-5G	Level 12		Actionair	400 x 200	1	
FD12-6G	Level 12		Actionair	1650 x 450	1	
FD12-7G	Level 12		Actionair	400 x 300	2	
FD12-8G	Level 12		Actionair	750 x 350	3	
D12-1T	Level 12	Supply	Waterloo Ozonair, Square	300 X 300	2	
D12-2T	Level 12	Extract	Waterloo Ozonair, Square	300 X 300	7	
D12-3T	Level 12	Dummy	Waterloo Ozonair, Square	300 X 300	2	
D12-4T	Level 12	Extract	Waterloo Ozonair, Linear 4 slot	200	1	
D12-5T	Level 12	Supply	Waterloo Ozonair, Square	300 X 300	1	
FD12-1T	Level 12		Actionair	550 x 400	1	
FD12-2T	Level 12		Actionair	500 x 400	5	
FD12-3T	Level 12		Actionair	150 x 150	1	
FD12-4T	Level 12		Actionair	100 x 100	1	
D11-1G	Level 11	Supply/return	Waterloo Ozonair, Linear 1 way 4 slot	9000	1	
D11-2G	Level 11	Supply	Waterloo Ozonair, Linear 1 way 4 slot	471	14	Special diffuser
D11-3G	Level 11	Supply	Waterloo Ozonair, Linear 2 way 4 slot	471	8	Special diffuser
D11-4G	Level 11	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	7700	1	
D11-5G	Level 11	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	16100	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
D11-6G	Level 11	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	30800	1	
D11-7G	Level 11	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	7800	1	
FD11-1G	Level 11		Actionair	1300 x 500	1	
FD11-2G	Level 11		Actionair	850 x 500	1	
FD11-3G	Level 11		Actionair	1000 x 450	1	
FD11-4G	Level 11		Actionair	500 x 300	1	
FD11-5G	Level 11		Actionair	600 x 350	1	
FD11-6G	Level 11		Actionair	200 x 200	2	
FD11-7G	Level 11		Actionair	1050 x 450	1	
FD11-8G	Level 11		Actionair	950 x 350	1	
FD11-9G	Level 11		Actionair	1000 x 400	1	
FD11-10G	Level 11		Actionair	1300 x 450	1	
FD11-11G	Level 11		Actionair	450 x 250	1	
D10-1G	Level 10	Supply/return	Diffusers	600 x 600	51	Special diffuser
D10-2G	Level 10	Supply	Motorized VAV Diffusers	600 x 600	7	Special diffuser
FD9-1G	Level 9		Actionair	1300 x 500	1	
FD9-2G	Level 9		Actionair	850 x 500	1	
FD9-3G	Level 9		Actionair	1000 x 450	1	
FD9-4G	Level 9		Actionair	500 x300	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD9-5G	Level 9		Actionair	600 x 350	1	
FD9-6G	Level 9		Actionair	200 x 200	2	
FD9-7G	Level 9		Actionair	1050 x 450	1	
FD9-8G	Level 9		Actionair	950 x 350	1	
FD9-9G	Level 9		Actionair	1000 x 400	1	
FD9-10G	Level 9		Actionair	1300 x 450	1	
FD9-11G	Level 9		Actionair	450 x 250	1	
D8-1G	Level 8	Supply/return	Waterloo Ozonair, Linear 1 way 4 slot	9000	1	
D8-2G	Level 8	Supply	Waterloo Ozonair, Linear 1 way 4 slot	471	14	Special diffuser
D8-3G	Level 8	Supply	Waterloo Ozonair, Linear 2 way 4 slot	471	8	Special diffuser
D8-4G	Level 8	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	7700	1	
D8-5G	Level 8	Supply	Waterloo Ozonair, Linear 2 way 4 slot	16100	1	
D8-6G	Level 8	Supply	Waterloo Ozonair, Linear 2 way 4 slot	30800	1	
D8-7G	Level 8	Supply	Waterloo Ozonair, Linear 2 way 4 slot	7800	1	
FD8-1G	Level 8		Actionair	1300 x 500	1	
FD8-2G	Level 8		Actionair	850 x 500	1	
FD8-3G	Level 8		Actionair	1000 x 450	1	
FD8-4G	Level 8		Actionair	500 x300	1	
FD8-5G	Level 8		Actionair	600 x 350	1	
FD8-6G	Level 8		Actionair	200 x 200	2	
FD8-7G	Level 8		Actionair	1050 x 450	1	
FD8-8G	Level 8		Actionair	950 x 350	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD8-9G	Level 8		Actionair	1000 x 400	1	
FD8-10G	Level 8		Actionair	1300 x 450	1	
FD8-11G	Level 8		Actionair	450 x 250	1	
D7-1G	Level 7	Supply/return	Waterloo Ozonair Linear 1 way 4 slot	9000	1	
D7-2G	Level 7	Supply	Waterloo Ozonair Linear 1 way 4 slot	471	14	Special diffuser
D7-3G	Level 7	Supply	Waterloo Ozonair Linear 2 way 4 slot	471	8	Special diffuser
D7-4G	Level 7	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	7700	1	
D7-5G	Level 7	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	16100	1	
D7-6G	Level 7	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	30800	1	
D7-7G	Level 7	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	7800	1	
FD7-1G	Level 7		Actionair	1300 x 500	1	
FD7-2G	Level 7		Actionair	850 x 500	1	
FD7-3G	Level 7		Actionair	1000 x 450	1	
FD7-4G	Level 7		Actionair	500 x300	1	
FD7-5G	Level 7		Actionair	600 x 350	1	
FD7-6G	Level 7		Actionair	200 x 200	2	
FD7-7G	Level 7		Actionair	1050 x 450	1	
FD7-8G	Level 7		Actionair	950 x 350	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD7-9G	Level 7		Actionair	1000 x 400	1	
FD7-10G	Level 7		Actionair	1300 x 450	1	
FD7-11G	Level 7		Actionair	450 x 250	1	
D6-1G	Level 6	Supply/return	Waterloo Ozonair Linear 1 way 4 slot	11500	1	
D6-2G	Level 6	Supply	Waterloo Ozonair Linear 1 way 4 slot	471	17	Special diffuser
D6-3G	Level 6	Supply	Waterloo Ozonair Linear 2 way 4 slot	471	8	Special diffuser
D6-4G	Level 6	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	7700	1	
D6-5G	Level 6	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	16100	1	
D6-6G	Level 6	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	30700	1	
D6-7G	Level 6	Supply/return	Waterloo Ozonair Linear 2 way 4 slot	7700	1	
FD6-1G	Level 6		Actionair	1300 x 500	1	
FD6-2G	Level 6		Actionair	850 x 500	1	
FD6-3G	Level 6		Actionair	1000 x 450	1	
FD6-4G	Level 6		Actionair	750 x 300	1	
FD6-5G	Level 6		Actionair	600 x 350	1	
FD6-6G	Level 6		Actionair	200 x 200	2	
FD6-7G	Level 6		Actionair	1300 x 450	1	
FD6-8G	Level 6		Actionair	350 x 300	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD6-9G	Level 6		Actionair	1000 x 400	1	
FD6-10G	Level 6		Actionair	800 x 450	1	
FD6-11G	Level 6		Actionair	700 x 350	1	
D6/11-1T	Levels 6-11	Supply	Waterloo Ozonair, Square	300 x 300	12	
D6/11-2T	Levels 6-11	Extract	Waterloo Ozonair, Square	300 x 300	42	
D6/11-3T	Levels 6-11	Dummy	Waterloo Ozonair, Square	300 x 300	12	
D6/11-4T	Levels 6-11	Extract	Waterloo Ozonair, Linear 4 slot	200	6	
D6/11-5T	Levels 6-11	Supply	Waterloo Ozonair, Square	300 x 300	6	
FD6/11-1T	Levels 6-11		Actionair	400 x600	12	
FD6/11-2T	Levels 6-11		Actionair	400 x 400	12	
FD6/11-3T	Levels 6-11		Actionair	400 x 300	6	
FD6/11-4T	Levels 6-11		Actionair	350 x 300	6	
FD6/11-5T	Levels 6-11		Actionair	150 x 150	6	
FD6/11-6T	Levels 6-11		Actionair	100 x 100	6	
SAG01 - SAG 29	Level 5	Supply/return	France Air Design Air Q 600 x 600 Dia. 250 /315	600 x 600	29	
FAG 01 - FAG 16	Level 5 - Kitchen	Supply	France Air DFL 36-2	600 x 600	16	
D5-3T	Level 5	Dummy	Waterloo Ozonair, Square	300 x 300	2	
D5-4T	Level 5	Extract	Waterloo Ozonair, Linear 4 slot	200	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
D5-5T	Level 5	Supply	Waterloo Ozonair, Square	300 x 300	1	
FD5-1T	Level 5		Actionair	350 x 350	4	
FD5-2T	Level 5		Actionair	400 x 250	1	
FD5-3T	Level 5		Actionair	300 x 300	1	
FD5-4T	Level 5		Actionair	150 x 150	1	
FD5-5T	Level 5		Actionair	150 x 150	1	
D4-1G	Level 4	Supply/return	Waterloo Ozonair, Linear 1 way 4 slot	24500	1	
D4-2G	Level 4	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	18900	1	
D4-3G	Level 4	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	22100	1	
D4-4G	Level 4	Supply	Waterloo Ozonair, Linear 1 way 4 slot	471	36	Special diffuser
D4-5G	Level 4	Supply	Waterloo Ozonair, Linear 2 way 4 slot	471	25	Special diffuser
D4-6G	Level 4	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	45900	1	
D4-7G	Level 4	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	4300	1	
D4-8G	Level 4	Supply/return	Waterloo Ozonair, Linear 2 way 4 slot	9000	1	
D4-9G	Level 4	Supply	Waterloo Ozonair, Square 4 way	300 x 300	6	
D4-10G	Level 4	Supply	Waterloo Ozonair, Linear 2 way 4 slot	600	6	
D4-11G	Level 4	Return	Waterloo Ozonair, Linear 2 way 4 slot	5000	1	
D4-12G	Level 4	Supply	Waterloo Ozonair, Square 4 way	300 x 300	6	
D4-13G	Level 4	Return	Waterloo Ozonair, Square 4 way	300 x 300	4	
FD4-1G	Level 4		Actionair	500 x 300	1	
FD4-2G	Level 4		Actionair	500 x 350	1	
FD4-3G	Level 4		Actionair	600 x 300	4	
FD4-4G	Level 4		Actionair	550 x 350	4	
FD4-5G	Level 4		Actionair	350 x 250	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD4-6G	Level 4		Actionair	250 x 250	4	
FD4-7G	Level 4		Actionair	1600 x 400	1	
FD4-8G	Level 4		Actionair	1600 x 450	1	
FD4-9G	Level 4		Actionair	450 x 200	1	
FD4-10G	Level 4		Actionair	850 x 300	1	
FD4-11G	Level 4		Actionair	350 x 200	1	
FD4-12G	Level 4		Actionair	800 x 250	1	
FD4-13G	Level 4		Actionair	500 x 200	1	
FD4-14G	Level 4		Actionair	600 x 250	1	
FD4-15G	Level 4		Actionair	250 x 200	1	
FD4-16G	Level 4		Actionair	400 x 250	2	
FD4-17G	Level 4		Actionair	400 x 350	1	
FD4-18G	Level 4		Actionair	1200 x 300	1	
FD4-19G	Level 4		Actionair	900 x 250	3	
FD4-20G	Level 4		Actionair	200 x 200	2	
FD4-21G	Level 4		Actionair	1800 x 400	3	
FD4-22G	Level 4		Actionair	1600 x 400	1	
FD4-23G	Level 4		Actionair	1200 x 400	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD4-24G	Level 4		Actionair	750 x 250	1	
FD4-25G	Level 4		Actionair	300 x 250	2	
FD4-26G	Level 4		Actionair	600 x 200	1	
FD4-27G	Level 4		Actionair	400 x 200	1	
D4-1T	Level 4	Supply	Waterloo Ozonair, Square	300 x 300	3	
D4-2T	Level 4	Extract	Waterloo Ozonair, Square	300 x 300	7	
D4-3T	Level 4	Dummy	Waterloo Ozonair, Square	300 x 300	2	
D4-4T	Level 4	Extract	Waterloo Ozonair, Linear 4 slot	200	1	
FD4-1T	Level 4		Actionair	300 x 300	2	
FD4-2T	Level 4		Actionair	450 x 350	2	
FD4-3T	Level 4		Actionair	300 x 150	1	
FD4-4T	Level 4		Actionair	150 x 150	1	
FD4-5T	Level 4		Actionair	350 x 250	1	
FD4-6T	Level 4		Actionair	100 x 100	1	
D3-1T	Level 3	Supply	Waterloo Ozonair, Square	300 x 300	3	
D3-2T	Level 3	Extract	Waterloo Ozonair, Square	300 x 300	7	
D3-3T	Level 3	Dummy	Waterloo Ozonair, Square	300 x 300	2	
D3-4T	Level 3	Extract	Waterloo Ozonair, Linear 4 slot	200	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD3-1T	Level 3		Actionair	700 x 700	2	
FD3-2T	Level 3		Actionair	200 x 200	1	
FD3-3T	Level 3		Actionair	300 x 200	1	
FD3-4T	Level 3		Actionair	150 x 150	1	
FD3-5T	Level 3		Actionair	250 x 200	1	
FD3-6T	Level 3		Actionair	100 x 100	1	
D2-1T	Level 2	Supply	Waterloo Ozonair, Square	300 x 300	3	
D2-2T	Level 2	Extract	Waterloo Ozonair, Square	300 x 300	7	
D2-3T	Level 2	Dummy	Waterloo Ozonair, Square	300 x 300	2	
D2-4T	Level 2	Extract	Waterloo Ozonair, Linear 4 slot	200	1	
FD2-1T	Level 2		Actionair	1000 x 500	2	
FD2-3T	Level 2		Actionair	200 x 200	3	
FD2-4T	Level 2		Actionair	150 x 150	1	
FD2-5T	Level 2		Actionair	100 x 100	1	
D1-1	Level 1	Supply	Waterloo Ozonair, Linear 4 slot	2 m	22	
D1-2	Level 1	Supply & Extract	Diffusers	600 x 600	28	
D1-17G	Level 1	Extract	Waterloo Ozonair, Square	300 x 300	1	
D1-18G	Level 1	Supply	Waterloo Ozonair, Square	300 x 300	1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
D1-19G	Level 1	Supply	Waterloo Ozonair, 2 way	375 x 375	1	
D1-20G	Level 1	Extract	Waterloo Ozonair, 4 way	150 x 150	3	
D1-21G	Level 1	Extract	Waterloo Ozonair, Grille	300 x 300	1	
D1-22G	Level 1	Transfer grilles	Waterloo Ozonair, Grille	400 x 300	1	
D1-23G	Level 1	Transfer grilles	Waterloo Ozonair, Grille	300 x 150	1	
D1-24G	Level 1	Transfer grilles	Waterloo Ozonair, Grille	300 x 200	1	
D1-25G	Level 1	Extract	Waterloo Ozonair, 4 way square	600 x 600	1	
FD1-1G	Level 1	Extract	Actionair	150 x 150	3	
FD1-2G	Level 1	Extract	Actionair	450 x 250	1	
FD1-3G	Level 1		Actionair	450 x 250	1	
FD1-4G	Level 1		Actionair	800 x 600	1	
FD1-5G	Level 1		Actionair	700 x 600	1	
FD1-7G	Level 1		Actionair	450 x 250	1	
FD1-8G	Level 1		Actionair	400 x 300	1	
FD1-10G	Level 1		Actionair	800 x 400	1	
FD1-11G	Level 1		Actionair	600 x 400	1	
FD1-12G	Level 1		Actionair	400 x 300	1	
FD1-13G	Level 1		Actionair	650 x 300	3	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
FD1-14G	Level 1		Actionair	650 x 400	1	
FD1-15G	Level 1		Actionair	600 x 300	1	
FD1-16G	Level 1		Actionair	1200 x 150	1	
FD1-17G	Level 1		Actionair	300 x 300	1	
FD1-18G	Level 1		Actionair	600 x 450	1	
FD1-19G	Level 1		Actionair	1200 x500	1	
FD1-20G	Level 1		Actionair	1500 x 500	2	
FD1-21G	Level 1		Actionair	1200 x 500	1	
FD1-22G	Level 1		Actionair	350 x 300	1	
FD1-23G	Level 1		Actionair	1000 x 300	1	
FD1-24G	Level 1		Actionair	300 x 200	1	
FD1-25G	Level 1		Actionair	300 x 200	1	
FD1-26G	Level 1		Actionair	200 x 200	1	
FD1-27G	Level 1		Actionair	600 x 500	1	
FD1-28G	Level 1		Actionair	200 x 150	1	
D-1-1	Level -1	Extract	Waterloo Ozonair, Rectangular	250 x 300	8	Provided with HD Galvanised m steel wire mesh
D-1-2	Level -1	Extract	Waterloo Ozonair, Square	250 x 250	28	Ditto

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
D-1-3	Level -1	Supply	Waterloo Ozonair, Square	300 x 150	1	Ditto also VCD fitted
FD-P14A-1	Level 14		Actionair	500 x 400	2	
FD-P14A-2	Level 14		Actionair	1250 x 450	1	
FD-P12A-1	Level 12		Actionair	500 x 400	2	
FD-P12A-2	Level 12		Actionair	300 x 700	2	
FD-P12A-3	Level 12		Actionair	1250 x 450	1	
FD-P7A-P11A	Level 7		Actionair	400 x 400	10	
FD-P6B/P11B-1	Levels 6-11		Actionair	400 x 400	6	
FD-P6A	Level 6		Actionair	600 x 400	2	
FD-P5B-1	Level 5		Actionair	350 x 350	2	
FD-P5A-1	Level 5		Actionair	350 x 350	2	
FD-P4D-1	Level 4		Actionair	500 x 300	2	
FD-P4C-3	Level 4		Actionair	400 x 300	2	
FD-P4B-1	Level 4		Actionair	550 x 1700	1	
FD-P4B-2	Level 4		Actionair	850 x 2000	1	
FD-P4A-3	Level 4		Actionair	200 x 200	2	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
PUMPS						
P1-P8	Level 5 Plant room	Chillers 1A, 1B, 2A & 2B circulation	WILO Crono Twin DL80/170 15 kW	42 l/s, 80kPa	8	By others
P1 & P2	Level 5 Plant room	Main chilled water secondary circulation	WILO Crono Bloc BL100/170 37 kW	80 l/s, 183kPa	2	By others
P5 & P6	Level 5 Plant room	Chiller 3 Primary circulation	WILO Crono Bloc BL50/150 7.5 kW	12 l/s, 180 kPa	2	By others
P7 & P8	Level 16 Plant room	Level 15 board room/dining room AHU	WILO Crono Bloc B32/160 4 kW	4.2 l/s, 132 kPa	2	By others
PRESSURISATION UNITS						
PU1	Level 5 Plantroom	Main building ChW system	Pullen Pulpress 500 l	System: 23760 l, 37m	1	
PU2	Level 5 Plantroom	Level 4 ChW system	Pullen Pulpress 100 l	System: 4200 l, 3m	1	
PU3	Level 16 Plantroom	Level 15 system	Pullen Pulpress 60 l	System: 1240 l, 4m	1	
DOSING UNITS						
DU2 & DU3	Level 5 & 16	ChW systems	Housemann 632405	3.5 l	2	
DU1	Level 5	ChW system	Housemann 632407	13.5l	1	
BUILDING MANAGEMENT SYSTEM (BMS) comprises of the following						
Throughtout the Building			System installed: Siemens DESIGO CC		Lot 1	
		BMS Room				
		Security Room				

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
MOTOR CONTROL PANELS & BUILDING AUTOMATION SYSTEM						
MCP-16	Level 16 Plantroom	All plant to level 16			1	
BAS-16	Level 16 Plantroom	All plant to level 16			1	
MCP-14A	Level 14 plantroom A	AHU 14A			1	
BAS-14A	Level 14 plantroom A	AHU 14A			1	
MCP-12A	Level 12 plantroom A	AHU 12A			1	
BAS-12A	Level 12 plantroom A	AHU 12A			1	
MCP-6/11A	Levels 6-11 plantroom A	AHUs 6A to 11A			6	
BAS-6/11A	Levels 6-11 plantroom A	AHUs 6A to 11A			6	
MCP-6/11B	Levels 6-11 plantroom B	AHUs 6B to 11B			6	
BAS-6/11B	Levels 6-11 plantroom B	AHUs 6B to 11B			6	
MCP5A	Level 5 plantroom 5A	AHU 5A			1	
BAS5A	Level 5 plantroom 5A	AHU 5A			1	
MCP5B	Level 5 plantroom 5B	AHU 5B			1	
BAS5B	Level 5 Plantroom 5B	AHU 5B			1	
MCP5C	Level 5 plantroom 5C	Chillers, pumps etc. in plant room			1	
BAS5C	Level 5 Plantroom 5C	Chillers, pumps etc. in plant room			1	
MCP4D	Level 4 plantroom 4D	AHU 4D			1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
BAS4D	Level 4 plantroom 4D	AHU 4D			1	
MCP4C	Level 4 plantroom 4C	AHU 4C			1	
BAS4C	Level 4 plantroom 4C	AHU 4C			1	
MCP4B	Level 4 plantroom 4B	AHU 4B			1	
BAS4B	Level 4 plantroom 4B	AHU 4B			1	
MCP4A	Level 4 plantroom 4A	AHU 4A			1	
BAS4A	Level 4 plantroom 4A	AHU 4A			1	
MCP3B	Level 3 plantroom 3B	AHU 3B			1	
BAS3B	Level 3 plantroom 3B	AHU 3B			1	
MCP2B	Level 2 plantroom 2B	AHU 2B			1	
BAS2B	Level 2 plantroom 2B	AHU 2B			1	
MCP1A	Level 1 plantroom 1A	AHU 1A			1	
BAS1A	Level 1 plantroom 1A	AHU 1A			1	
MCP1B	Level 1 plantroom 1B	AHU 1B			1	
BAS1B	Level 1 plantroom 1B	AHU 1B			1	
MCP0A	Level 0 plantroom 0A				1	
BAS0A	Level 0 plantroom 0A				1	
MCP0B	Level 0 plantroom 0B				1	
BAS0B	Level 0 plantroom 0B				1	

MECHANICAL

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
BAS0B	Level -1 Sprinkler pump room	Water sump pump panel			1	
BAS0B	Level -1 domestic water pump room	Domestic water booster control panel	Culligan		1	
BAS0B	Basement	Sewage pump panel			1	

FILTER SCHEDULE

Unit No	Bag filter:- Klimax, model no. 106512, size 592x592	Bag filter:- Klimax, model no. 106512, size 592x592
1A	4	2
1B	4	2
2B	12	0
3B	9	3
4A	1	0
4B	9	0
4C	4	2
4D	4	2
5A	2	2
5B	2	0
5C	2	2
6A	4	0
6B	2	2
7A	2	2
7B	2	2
8A	2	2
8B	2	2
9A	2	2
9B	2	2
10A	2	2
10B	2	2

11A	2	2
11B	2	2
12A	4	2
14A	4	2
15A	2	2
15B	1	0
15C	1	0
TOTAL	91	43

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
INCOMING WATER SUPPLY						
PW	Level 0	Pipe	Blue Polyethylene	63 dia	15	
WM	Level 0	Water Meter	CWA	63 dia	1	
IV	Level 0	Isolating Valves	Crane	Mixed	5	
PW	Level 0	Pipe supports			1	
COLD WATER STORAGE TANKS						
	Level 0		Braithwaite Engineering Ltd.,externally flanged insulated GRP	4000×3000×2000	1 no.	
	Level 5	Break tank level 5 plant room	Braithwaite Engineering Ltd.,externally flanged insulated GRP	1000×1000×1500	1 no.	
	Level 16		Braithwaite Engineering Ltd.,externally flanged insulated GRP	3000×2000×2000	1 no.	
	Water level controls	Sprinkler tank, Hydrant tank alarm sensors	KDG Mobrey, ultrasonic liquid level switch	Squitch-2	5 no.	
	Cold water Booster	Jockey pump	Grundfos CR3-19-A Model A96516663P31517 Pressure Vessel Calpeda 200L	0.75 l/s	1 no.	Three phase - New Equipment
		Main pumps	Pumps by Grundfos, type CR5-15 A965168998P 2.2 kW	1.6 l/s	2 no.	New Equipment
COLD CIRCULATION WATER PIPEWORK						
CWS 0	Level 0		Cold water circulation pipework	Welded/screwed	304.69	Mix diameters
CWS 1	Level 1		Cold water circulation pipework	Welded/screwed	284.69	Mix diameters

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
CWS 2	Level 2		Cold water circulation pipework	Welded/screwed	279.69	Mix diameters
CWS 3	Level 3		Cold water circulation pipework	Welded/screwed	294.69	Mix diameters
CWS 4	Level 4		Cold water circulation pipework	Welded/screwed	279.69	Mix diameters
CWS 5	Level 5		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 6	Level 6		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 7	Level 7		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 8	Level 8		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 9	Level 9		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 10	Level 10		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 11	Level 11		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 12	Level 12		Cold water circulation pipework	Welded/screwed	254.69	Mix diameters
CWS 14	Level 14		Cold water circulation pipework	Welded/screwed	244.69	Mix diameters
CWS 15	Level 15		Cold water circulation pipework	Welded/screwed	244.69	Mix diameters
CWS 16	Level 16		Cold water circulation pipework	Welded/screwed	264.69	Mix diameters
SANITARYWARE						
	Level 1		Wash hand basin		4 no.	
	Level 1		Stainless steel sink		1 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
	Level 1		Urinal with automatic control		1 no.	
	Level 1		WC		4 no.	
	Level 1		Shower		1 no.	
	Level 2		Wash hand basin		4 no.	
	Level 2		Urinal with automatic control		4 no.	
	Level 2		WC		5 no.	
	Level 2		Cleaners Sink		1 no.	
	Level 3		Wash hand basin		6 no.	
	Level 3		Urinal		2 no.	
	Level 3		WC		5 no.	
	Level 3		Cleaners Sink		1 no.	
	Level 3		Sanitary towel disposal unit		1 no.	
	Level 4		Wash hand basin		6 no.	
	Level 4		Urinal		2 no.	
	Level 4		WC		5 no.	
	Level 4		Cleaners Sink		1 no.	
	Level 5		Wash hand basin		2 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
	Level 5		WC		7 no.	
	Level 5		Shower		2 no.	
	Level 5		Urinal with automatic control		3 no.	
	Level 6		Wash hand basin		7 no.	
	Level 6		Urinal		3 no.	
	Level 6		WC		6 no.	
	Level 6		Cleaners Sink		1 no.	
	Level 7		Wash hand basin		7 no.	
	Level 7		Urinal		3 no.	
	Level 7		WC		6 no.	
	Level 7		Cleaners Sink		1 no.	
	Level 8		Wash hand basin		7 no.	
	Level 8		Urinal		3 no.	
	Level 8		WC		6 no.	
	Level 8		Cleaners Sink		1 no.	
	Level 9		Wash hand basin		7 no.	
	Level 9		Urinal		3 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
	Level 9		WC		6 no.	
	Level 9		Cleaners Sink		1 no.	
	Level 10		Wash hand basin		7 no.	
	Level 10		Urinal with automatic control		3 no.	
	Level 10		WC		6 no.	
	Level 10		Cleaners Sink		1 no.	
	Level 11		Wash hand basin		7 no.	
	Level 11		Urinal		3 no.	
	Level 11		WC		6 no.	
	Level 11		Cleaners Sink		1 no.	
	Level 12		Wash hand basin		7 no.	
	Level 12		Urinal		3 no.	
	Level 12		WC		6 no.	
	Level 12		Cleaners Sink		1 no.	
	Level 14		Wash hand basin		7 no.	
	Level 14		Urinal with automatic control		1 no.	
	Level 14		WC		4 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
	Level 14		Shower		1 no.	
	Level 15		Wash hand basin		6 no.	
	Level 15		Urinal		3 no.	
	Level 15		WC		4 no.	
	Level 5	Kitchen equipment	Pot wash		1 no.	
	Level 5		Wash-up		1 no.	
	Level 5		Meat prep		1 no.	
	Level 5		Salad prep		1 no.	
	Level 5		Central island unit		1 no.	
	Level 5		Pastry prep		1 no.	
	Level 5		Veg prep		1 no.	
	Level 5		Beverages		1 no.	
	Level 5		Servery		1 no.	
	Level 5		Dishwasher		1 no.	
	Level 5		Macerator		1 no.	
	Level 15		Stainless steel sink unit		2 no.	
	Level 15		Stainless steel wash hand basin		1 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
WATER TREATMENT SYSTEM						
	Level 0	Level 0 break tank	Culligan International (UK) Ltd		1 no.	
		Comprising:	HiFlo 6 Depth filters	UF24	2 no.	
			Dosing pump & controller	18 l/h	2 no.	
			Chemical dosing tank	280 l	2 no.	
			Self-proportioned feeder 40mm connections	SPF	1 no.	
			Chemical dosing tank	500 l	1 no.	
			Korromind Silicate/polyphosphate corrosion inhibitor			
		Delayed action ball valve	Warner, 'Arclion' Type B	2"	1 no.	
		Delayed action ball valves	Warner, 'Arclion' Type B	1"	1 No.	
		Urinal water savers	Barflo Mark 5		11 No.	
HOT WATER STORAGE AND CIRCULATION SYSTEMS						
	Level 5	Offices Calorifier	IMI Ryecroft	700 l, 30kW	1 No.	
	Level 5	HEAT PUMP WATER HEATER	MIDEA	3000 W / R134a 280L	1 no.	
	Level 16	Kitchen Calorifier	Heatrae Sadia	210 l, 2x3 kW	1 no.	
	Levels 9 & 11	Vending pantry	Heatrae Sadia	13.6 l, 3kW	2 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
	Throughout	Trace heating to Hot Water system	Raychem HWAT D tape	525m		
			Power boxes		10 no.	
			T junction box type JB 20-01		50 no.	
			Connection & seal kit CE 20-01		150 no.	
		HW Booster pumps	Pillinger PCB 430	1 l/s @ 15m	2 no.	Three phase
		HW Pressure vessel for HW booster	Pillinger	16l	1 no.	
HOT CIRCULATION WATER PIPEWORK						
HWS 0	Level 0	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	90.19	Mix diameters
HWS 1	Level 1	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	85.19	Mix diameters
HWS 2	Level 2	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	80.19	Mix diameters
HWS 3	Level 3	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	80.19	Mix diameters
HWS 4	Level 4	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	60.19	Mix diameters
HWS 5	Level 5	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	50.19	Mix diameters
HWS 6	Level 6	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	60.19	Mix diameters
HWS 7	Level 7	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	70.19	Mix diameters
HWS 8	Level 8	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	80.19	Mix diameters
HWS 9	Level 9	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	80.19	Mix diameters

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
HWS 10	Level 10	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	80.19	Mix diameters
HWS 11	Level 11	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	80.19	Mix diameters
HWS 12	Level 12	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	75.19	Mix diameters
HWS 14	Level 14	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	75.19	Mix diameters
HWS 15	Level 15	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	75.19	Mix diameters
HWS 16	Level 16	Hot water circulation pipework	Copper Tubular - Table Y	Welded/screwed	75.19	Mix diameters
DRAINAGE SYSTEMS						
		Floor grates	Wade (UK) 65-1080 series drain assembly with G50-183S L2103PB(L103) square grate	150mm	35 no.	
		Floor drain	Wade (UK) M1/M2 CC floor drain with M101-1300/10/20/30 body collar		2 no.	
	Kitchens	Stainless steel floor channels/gratings	Wade (UK) Channel ref. S4202		6 no.	
			Grating ref: S4402		6 no.	
	Kitchens - level 15	Grease convertor	Wade (UK) Ref: 5030H G.G. "C"	410mm	1 no.	
	Kitchen - level 5	Grease convertor	Wade (UK) Ref: 5080H GI "C"	387mm	1 no.	
			Aco Drains (UK) H200 Aco Channel assembly. LG Class C	1000mm	28 no.	
	Car Park	Foul water sump pump	Flygt CP3085 explosion proof submersible electric pump	100mm discharge	4 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
	Basement	Drainage sump pumps	Flygt 3067-180 submersible electric pump		4 no.	
	Basement	Flood protection Pumps with control panel	Flygt BS2102 submersible electric pump	5.2kW	3 no.	
	Water and sprinkler tanks	Automatic air release valves	Kidde Thorn UK, 1" type 211 gunmetal		5 no.	
	Levels 0 to 16.	Sprinkler heads	Wormald / Kidde Reliable		17 Lots.	
FIRE PROTECTION - SPRINKLER SYSTEM						
SP1 & SP2	Sprinkler pump	System	Centrifugal SD 12R/3 - SPP Ltd	52.84 l/s, 25.5m & 71.4m	2 no.	
JP1	Jockey pump	System	Grundfos CR3-17 A96516662P	3m ³ /hr	1 no.	New Equipment
JP2	Jockey pump	System	Grundfos CR3-13-A A96516660P	3m ³ /hr	1 no.	New Equipment
	Below car park (level -1)	Sprinkler storage tank	Concrete tank, accessed from above	185m ³	1 no.	Fitted with vortex inhibitor
	Main Sprinkler valve	Sprinkler intake	Reliable	150mm	3 no.	Monitored open/shut
	Sprinkler stop valve	Sprinkler stop valve (after alarm valve)	Reliable		3 no.	
	Alarm Valve	Main alarm valve for low pressure system	Reliable		2 no.	
	Alarm valve	Main alarm valve for high pressure system	Reliable		1 no.	
	Alarm Gong		Reliable		3 no.	
	Gong test valve			20mm	3 no.	
	Gong strainer			20mm	3 no.	
		Sprinkler	Crane D159, Isolating gate valve, screwed bronze with non rising stem	15 - 80mm	1 no.	

P Health

Tag number	Location	Description	Manufacturer & Model	Duty	Quantity	Comments
			Crane 235, Isolating gate valve, screwed bronze with non rising stem	15 - 50mm	1 no.	
			Crane FM124 Gate sluice valve, flanged cast iron	50mm - 300mm		
WET HYDRANT SYSTEM						
HP1 & HP2		Wet hydrant pumps	SPP Pumps Ltd, TD15A	51.2 l/s, 133m	2 no.	
JP3		Hydrant jockey pump	CR3-23 Grundfos 2.2 kW	3 m ³ /h	1 no.	
	Level -1	Concrete Tank below car park		45m ³	1 no	1 vortex inhibitor
HOSE REEL SYSTEM						
	Level 0	Hose reel pumpset	Grundfos CR10-10 A96501232P 4 kW	2.3 l/s, 109.1m	2 no.	New Equipment
	Throughout	Fire Hose reels	Thorn Norsen Automatic non-swinging type BP with outlet box		20 no	
			Type BP with hose guide and nozzle plate		(total)	
			Norsehose outlet box type 2 brass/stainless steel finish			
	Level 0	Hose reel break tank	5mm hot-dipped galvanised mild steel tank	1.6m ³	1 no	

Level 5 Kitchen

Ref	Qty	Description	Make	Reference	Dimensions LxPxH
PWD10	1	Storage rack modules	METINOX		1200x670x2000
PWD11	2	Storage rack modules	METINOX		745x670x2000
Cold Room					
MP1	2	4 level polythylene shelves	TOURNUS	PLJ 1092	1092x400x2050
MP2	2	Table for cutting/deboning with polyethylene boards.	METINOX		1100x700x850
MP3	1	Knife sterilizing cabinet	TOURNUS	806421	575x170x600
MP3.a	1	Knife sterilizing cabinet	TOURNUS	806421	575x170x600
MP4	1	Extra deep double sink with round front edge and rounded splash back c/w shower tap	METINOX		1400x700x850
MP4.a	1	Extra deep double sink with round front edge and rounded splash back c/w shower tap	METINOX		1400x700x850
VP1	2	4 level polythylene shelves	TOURNUS	PLJ 1092	1092x400x2050
VP2	1	Peeler - 30kg with collection filter + automatic water inlet	NILMA	Pioneer K30	Diam.540x1130
VP3	1	Stainless steel table complete with backsplash	METINOX		1900x700x850
VP4	1	Vegetable preparation machine + discs	ROBOT COUPE	CL50+1933	390x390x635
VP5	1	Table for cutting/deboning with polyethylene boards.	METINOX		1100x700x850
VP6	1	Extra deep double sink with round front edge and rounded splash back c/w Delabie 5625 shower tap	METINOX		1400x700x850
DF1	2	3 level polythylene shelves	TOURNUS	PLA 0992	992x400x1750
CR1	2	3 level polythylene shelves	TOURNUS	PLA 0992	992x400x1750
Self Counter (Diet/Non-diet/Veg)					
SC1	3	Counter top bread & cutlery dispenser	METINOX		700x700x600
SC2		Bread & cutlery dispenser on foot	METINOX		700x700x1500
SC1.a		S/steel open cabinet	METINOX		1450x700x850
SC3	2	Plate dispenser cabinet	EDENOX	SDPN80	800x700x850
SC4	1	Bain-marie unit	EDENOX	SBMR-411	1600x700x850
SC4.a	1	Bain-marie unit	EDENOX	SBMR-411	1600x700x850
SC4.b	1	Bain-marie unit	EDENOX	SBMR-411	1600x700x850
SC6	6	Single neutral brackets	EDENOX	SSIE	50x440
SC7	6	Single sided curved glasses	EDENOX	SCRE-16	1423x400x133
SC8	2	Neutral cabinet	METINOX		1000x700x850
SC10	2	Neutral corner unit	METINOX		1405x525x850
SC11	1	Cabinet with cold plate	EDENOX	SPFR 16	1600x700x850
SC11.a	1	Cabinet with cold plate	EDENOX	SPFR 16	1600x700x850
SC11.b	1	Cabinet with cold plate	EDENOX	SPFR 16	1600x700x850
SC12	1	Refrigerated cabinet c/w 3 levels showcase	EDENOX	SCRR-16 SVF-16	1600x850x2291
SC12.a	1	Refrigerated cabinet c/w 3 levels showcase	EDENOX	SCRR-16 SVF-16	1600x850x2291
SC13	2	Table with bowl shelf	METINOX	SKD0008	800x700x850
SC13a		Electric soup kettle	ANVIL	SKD-0008	Diam. 270x365
SC13b		Electric soup kettle	ANVIL	SKD-0008	Diam. 270x365
SC14		Electric soup kettle	ANVIL	SKD-0008	Diam. 270x365
SC14a		Stainless steel table for soup kettle	METINOX		570x700x850
SC15	3	Juice dispenser	CODIGEL	UGOLINI DELUXE 12/2	360x480x670
SC16		Ssteel open cabinet for juice dispenser	METINOX		600x700x850
SC16.a		Ssteel open cabinet for juice dispenser	METINOX		600x700x850
SC16.b		Ssteel open cabinet for juice dispenser	METINOX		600x700x850

Level 5 Kitchen

Ref	Qty		Description	Make	Reference	Dimensions LxPxH
			Economat			
EC1	1		4 level polythylene shelves	TOURNUS	PLM 2736	2736x500x2050
EC2	1		4 level polythylene shelves	TOURNUS	PLM 1728	1728x500x2050
EC3	1		4 level polythylene shelves	TOURNUS	PLM 2334	2334x500x2050
			Cold Kitchen - Desserts			
CK1	1		Floor mounted refrigeration unit	CODIGEL	MRG 250	2245x700x850
CK2	1		Multi function machine for food preparation	ROBOT COUPE	R7 V.V	229x305x520
CK3	1		Multi function machine for vegetable preparation + pack of discs	ROBOT COUPE	R752 1933	570x365
CK4	1		Deep single bowl sink with undershelf and mixer tap	METINOX		700x700x850
CK5	1		Worktop table in durable stainless steel complete with shelf	METINOX		1100x700x850
CK6	3		Wall-mounted stainless steel (AISI 304) cupboard	METINOX		1400x400x600
CK6.a			Wall-mounted stainless steel (AISI 304) cupboard	METINOX		1200x400x600
CK7	1		Wall-mounted stainless steel (AISI 304) 800 positive cabinet	CODIGEL	MRPV 200	2020x800x850
CK7		ASBER	Upright fridge	ASBER	GCP-701 R 19038253 SHC700 SGT700	653x837x2040
CK8	1		Electric oven - Combi Steamer 6 levels	HOBART	HEJ061E	920x846x899
CK9	1		Electric mixer	MACPAN	PL JOLLY	230x410x420
CK10	1		Single hob induction table top unit	MIDDLEBY	IND-10P-3500	360x440x185
CK11		METINOX	Work table with splashback & u/shelf	N/A		1200x600x850
3	2		Decommission existing 2 evaporators, clean up and return to client			
4.1.1.1	1		Deep Freeze: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 2 kWc. [R404a/R32] at -20/-15 degC	KIDE	ESC2017L5Z	
	1		Cold room panels complete with door and accessories 1310x1910x2600	KIDE		
4.1.1.2	1		Cold Room SAS: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 1.2 kWc. [R404a/R32] at +2/4 degC	KIDE	ESC1007M1Z	
	1		Cold room panels complete with door and accessories 1211x1910x2600	KIDE		
4.1.1.3	2		Veg Prep: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 2.5 kWc. [R404a/R32] at +6/8 degC	KIDE	ESC2010M1Z ESC1007M1Z	
	1		Cold room panels complete with door and accessories 4011x2262x2700	KIDE		
4.1.1.4	1		Veg Prep SAS: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 1.2 kWc. [R404a/R32] at +6/8 degC	KIDE		Incl. in 4.1.1.3
4.1.1.5	2		Meat/Fish Prep: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 2.8 kWc. [R404a/R32] at +6/8 degC	KIDE	ESC2010M1Z	
	1		Cold room panels complete with door and accessories 4011x1908x2700	KIDE		

Level 5 Kitchen

Ref	Qty	Description	Make	Reference	Dimensions LxPxH
4.1.1.6	1	Meat/Fish Prep SAS: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 1.5 kWc. [R404a/R32] at +6/8 degC	KIDE		Incl. in 4.1.1.5
4.1.1.8	1	Cold Kitchen: Compressor Pre-Assembled Unit (Bitzer or similar) complete with evaporator unit and thermostat with a cooling capacity of 5.2 kWc. [R404a/R32] at +12/14 degC	KIDE	ESS4020H5Z	
	1	Door panels and swing door 900x2000	KIDE		
5.2.1.1	2	Hot Kitchen: similar to France Air similar to France Air Maia Statique in Stainless Steel AISI 304, to EN 16282-2 complete with LED lights adapted for high temperature. Hoods shall be assembled to fit the proposed dimensions: 2200X4200 mm. The hood shall be equipped with a complete fire suppression system conforming to BS EN 16282 - 7: 2017 + A1: 2021. The fire suppression system shall be complete with fire detection system in duct(s), 2 Nos cylinders, 8 Nos nozzles and interconnecting pipes. The unit shall be equipped with the following to ensure that the suppression system can operate both automatically and/or manually. All pipes shall be conform to EN 10088-1 and shall be installed in a fixed system and all penetrations shall be grease	CATERVENT	BF-600-B	4200x1100x600
5.2.1.1a	1	Fire suppression system	ALARM PLUS		
5.2.1.2	1	The hood shall be equipped with a complete fire suppression system conforming to BS EN 16282 - 7: 2017 + A1: 2021 and equipped with a control panel. The fire suppression system shall be complete with fire detection system in duct(s), 2 Nos cylinders, 8 Nos nozzles and interconnecting pipes. The unit shall be equipped with the following to ensure that the suppression system can operate both automatically and/or manually. All pipes shall be conform to EN 10088-1 and shall be installed in a fixed system and all penetrations shall be grease tight sealed. The control panel shall be equipped with the appropriate interface to switch off all electric and gas supplies to the kitchen equipments. For Hygenic reasons, stainless steel housings shall be provided to house the Manual Release Mechanim and for the Cylinders as they are exposed to food. Contractor shall make allowances for testing of the suppression system.	NO LOCATION NOT QUOTED		
5.2.1.3	1	Hot Kitchen: similar to France Air similar to France Air Maia Four, to EN 162282-2 complete with LED lights adapted for high temperature. Hoods shall be assembled to fit the proposed dimensions: 1200x1100mm	CATERVENT	BF-600-B	1200x1100x600
5.2.1.4	1	Cold Kitchen: similar to France Air similar to France Air Maia Four, to EN 162282-2 complete with LED lights adapted for high temperature. Hoods shall be assembled to fit the proposed dimensions: 1200x100mm	CATERVENT	BF-600-B	1200x1100x600

Level 5 Kitchen						
Ref	Qty		Description	Make	Reference	Dimensions LxPxH
5.2.1.5	1		Dish Washer: similar to France Air similar to France Air Maia LAVAIR, to EN 162282-2 complete with LED lights adapted for high temperature. Hoods shall be assembled to fit the proposed dimensions: 1100 X 2500 mm.	CATERVENT	CONDENSATE	2200x1100x600
5.2.1.4	1		Allow for Stainless Steel (ANSI 304) cover above each extract hood along the perimeter to close off space between hoods and false ceiling; depth of cladding: 300mm X perimeter of hoods.	INCLUDED		
			Above hoods are on a supply basis only. Extractor fans and ducting are excluded. Installation cost of the hoods is included in cost of kitchen equipment (Bill No K.1) and contract cannot be seperated			
5.6.3			Provisional Sum for cable tray cover where exposed to UV			
6			Electrical Installations assciated with Cold Rooms and equipments			
6.5			Terminal Wiring			
6.5.1			All wiring shall be 3 core copper cables, unless stated otherwise. The Contractor is to determine the exact quantity of conduits required and include in the bid. Any connection box required by the Contractor shall be included in the Contractor's price. The position of the connection boxes shall be made known at tender stage. No connection box shall be allowed at location which are not accessible. Labelling of all connection using durable, smear proof, chemical and solvent resistant labelling tape. Supply and install wiring for wiring accessories c/w concealed conduits, conduit boxes, looping boxes, covers, nylon draw wire and related accessories, all as detailed on drawings and specified to the following devices. All remote drivers shall be located at location which			
6.5.1			Light Fittings			
6.5.1.1	6		Light Point 3C 1.5sqmm from Control Panel (Above Door)			
6.5.2			Equipments & Accessories			
6.5.2.1	21		Powerpoint Cu PVC/PVC 3C 2.5sqmm for Control Panel (Above Door)			
6.5.2.2	21		Powerpoint Cu PVC/PVC 2C 1.5sqmm from Control Panel (Above Door) to Actuator Valve			
6.5.2.3	21		Powerpoint Cu PVC/PVC 2C 1.5sqmm from Control Panel (Above Door) to Temperature Sensor			
6.5.2.4	8		Powerpoint Cu PVC/PVC 2C 2.5sqmm from Control Panel (Above Door) to Defrost			
6.5			Light Fixtures & Electrical Accessories			
6.5.1	12		Tube Light, 2xT8 18W LED, 1200mm, 50000hrs, IP65 (equivalent to Glow Lighting FH236T)			

Level 15 Kitchen			
1		Dishwasher INO7L	Bonnet
1		Grande Carte oven and 4 square hot plates	Bonnet

Level 5 Kitchen

Ref	Qty		Description	Make	Reference	Dimensions LxPxH
	1		Hot display counter	Bonnet		
	1		Coffee machine	Melitta		
	1		Ice making machine	NTF SL50		
	1		Refrigerator Combi	LG C252RLBN		
	1		Waste disposer	In Sink Erator		
	1		Microwave oven	Sammic		
	1		Coffee Espresso	Sadeo		
	1		Coffee machine	Grovard		
	1		Fire Extinguishing system	Kidde Fenwald		

Tag	Location	Description	Manufacturer and Model	Duty	Quantity	Comments
<u>ROLLER SHUTTERS</u>						
	Car Park Entrance	Roller Shutters	Bolton Brady		1	3800 mm w x 3620 mm h
	Car Park Exit	Roller Shutters	Bolton Brady		1	3800 mm x 3620mm
	VIP Entrance	Roller Shutters	Bolton Brady		1	5000 mm x 4600 mm
	Service Bay	Roller Shutters	Bolton Brady		1	5200 mm x 4000 mm
	Security Bay	Roller Shutters	Bolton Brady		1	4300 mm x 3800 mm
	Bowen Square Ent.	Roller Shutters	Bolton Brady		1	6900 mm x 3300 mm
	QE II Entrance	Roller Shutters	Bolton Brady		1	8400 mm x 3930 mm
	Change Office	Roller Shutters	Bolton Brady		1	3140 mm x 3300 mm
<u>FLOOD BARRIERS</u>						
	Car Park Entrance	Flood Barrier	Presray		1	3520 mm x 2700 mm, Fitted with Motor
	Car Park Exit	Flood Barrier	Presray		1	3520 mm x 2700 mm, Fitted with Motor
	VIP Entrance	Flood Barrier	Presray		1	4700 mm x 710 mm, Fitted with Motor
	Service Bay	Flood Barrier	Presray		1	5760 mm x 870 mm, Fitted with Motor
	Goods Lift	Flood Barrier	Presray		1	1660 mm x 1200 mm
	QE II Lift No. 4	Flood Barrier	Presray		1	1660 mm x 800 mm
	Exit Door Blue Box	Flood Barrier	Presray		1	1585 mm x 800 mm
	Control Room	Flood Barrier	Presray		1	1350 mm x 1500 mm
	Exit Lift 6-7	Flood Barrier	Presray		1	800 mm x 1500 mm

Tag	Location	Description	Manufacturer and Model	Duty	Quantity	Comments
<u>COLD ROOMS</u>						
	Level 5	Cold Room			4	
		Chilled Room			3	

HANDDRYERS

	Levels 3 - 15	Handdryers	Wandsworth HD1/T		42	
	Levels 1, 2 & 10	Handdryers	Eltron SS AA16501		10	
	Levels 5 & 14	Handdryers	Mediclinics		8	
	Level 12	Handdryers	Siebel Eltron HTE-4		4	

TEA DISPENSERS

	Level 2	Tea Dispenser	SOLISTA Espresso		1	
	Level 3	Tea Dispenser	SOLISTA Espresso		2	
	Level 4	Tea Dispenser	SOLISTA Espresso		2	
	Levels 6	Tea Dispenser	SOLISTA Espresso		1	
	Level 7	Tea Dispenser	SOLISTA Espresso		1	
	Level 8	Tea Dispenser	SOLISTA Espresso		1	
	Level 9	Tea Dispenser	SOLISTA Espresso		1	
	Level 10	Tea Dispenser	SOLISTA Espresso		1	
	Level 11	Tea Dispenser	SOLISTA Espresso		1	

Tag	Location	Description	Manufacturer and Model	Duty	Quantity	Comments
	Level 12	Tea Dispenser	SOLISTA Espresso		1	
	Level 14A	Tea Dispenser	SOLISTA Espresso		1	
<u>MICROWAVE OVENS</u>						
	Level 1 Currency Unit	Microwave	Bel Air	MM720CGN	1	
	Level 2	Microwave	LG	622119-407AW151 HX 6943	1	
	Level 3	Microwave	Media	AG925AGN	1	
	Level 4	Microwave	Media	AG925AGN	1	
	Level 5	Microwave	LG	622119-407AW151 HX 6943	1	
	Level 6	Microwave	Media	AG925AGN	1	
	Level 7	Microwave	Media	AG925AGN	1	
	Level 8	Microwave	Bel Air	BAM-20SM	1	
	Level 9	Microwave	Media	AG925AGN	1	
	Level 10	Microwave	Panasonic	NN-SM255W	1	
	Level 11	Microwave	Media	AG925AGN	1	
	Level 12	Microwave	Media	AG925AGN		
	Level 14	Microwave	Bel Air	AG9P032KP	1	
	Level 15	Microwave	Sammic	HM-1830	1	

Tag	Location	Description	Manufacturer and Model	Duty	Quantity	Comments
<u>CHILLED WATER DISPENSER</u>						
	Levels 3, 4, 6, 8, 9, 11 & 12.	Chilled Water Dispenser	Mistral Type G/25		7	
<u>CAR PARK BARRIERS</u>						
	Car Park Entrance / Exit	Barriers			Nil	
<u>AUTOMATIC SLIDING DOORS</u>						
	<u>QE II Entrance</u>				<u>1</u>	1800 W x 2300 H mm Centre Opening
	Bowen Square Entrance				1	3000 W x 2300 H mm Centre Opening
	<u>Level 2 Lift Lobby</u>				<u>2</u>	850 W x 2300 H mm Centre Opening
	Level 2 Private Banking				1	1580 W x 2300 H mm Centre Opening
	Level 10 Private Banking				2	990 W x 2300 H mm Side Opening. Fixed 1070 mm
	Level 14				2	1150 W x 2300 H mm Side Opening. Fixed 480 mm.
<u>LEAK DETECTION EQUIPMENT</u>						
	Level 4 – Computer Rm	Leak Detection System Tracetek	TRACETEK /RAYCHEM		1 LOT	30 m

<u>FREQUENCY INVERTER DRIVES</u>						
	Level 2B	Frequency Inverter	ABB – SAMI ACS 501	22 KW	1	
	Level 3B	Frequency Inverter	LENZE	18.5 KW	1	

Tag	Location	Description	Manufacturer and Model	Duty	Quantity	Comments
	Level 4A	Frequency Inverter	LENZE	1.5 KW	1	
	Level 4C	Frequency Inverter	ABB – SAMI ACS 501	7.5 KW	1	
	Level 4D	Frequency Inverter	LENZE	7.5 KW	1	
	Level 6A	Frequency Inverter	Lenze	7.5 KW	1	
	Level 6B	Frequency Inverter	Lenze	4 kW	1	
	Level 7A	Frequency Inverter	Gtake	3.8 kW	1	
	Level 7B	Frequency Inverter	LENZE	5.5 KW	1	
	Level 8A	Frequency Inverter	LENZE	5.5 kW	1	
	Level 8B	Frequency Inverter	LENZE	5.5 KW	1	
	Level 9A	Frequency Inverter	GTAKE	3.8 kW	1	
	Level 9B	Frequency Inverter	LENZE	5.5 KW	1	
	Level 10A	Frequency Inverter	LENZE	7.5 KW	1	
	Level 10B	Frequency Inverter	LENZE	5.5 KW	1	
	Level 11A	Frequency Inverter	LENZE	5.5 KW	1	
	Level 11B	Frequency Inverter	LENZE	4.0 KW	1	
	Level 12A	Frequency Inverter	LENZE	7.5 KW	1	
	Level 14A	Frequency Inverter	LENZE	11.0 KW	1	

Tag	Location	Description	Manufacturer and Model	Duty	Quantity	Comments
	UNDERCOUNTER FRIDGES					
	Currency Unit	Fridge	Bel Air	New	1	
	Control Room	Fridge	Ignis		1	
	Security Mess Room	Fridge	Std. undercounter		1	
	Level 2	Fridge	Midea	New	1	
	Level 3	Fridge	Beko	New	1	
	Level 4	Fridge	Ignis		1	
	Level 6	Fridge	Neka	New	1	
	Level 7	Fridge	Simpson	Old	1	
	Level 8	Fridge	Hisense		1	
	Level 9	Fridge	Samsung		1	
	Level 10	Fridge	LG	LG GN Y331SL BB	1	
	Level 11	Fridge	Bel Air	New	1	
	Level 12	Fridge	Ocean		1	
	Level 15	Refrigerator	Whirlpool		1	