



Details of the Client

Client/Address

Details of the Installation

Address	<input type="text" value="Tudor Street, 22 Tudor Street, London, EC4Y0AY"/>	The installation is:	
Extent of the installation covered by this certificate	<input type="text" value="WHOLE INSTALLATION"/>	New	<input checked="" type="checkbox"/>
		An Addition	<input type="text" value="N/A"/>
		An Alteration	<input type="text" value="N/A"/>

Design

We being the person(s) responsible for the design of the electrical installation (as indicated by our signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which We have been responsible is, to the best of our knowledge and belief in accordance with BS 7671 amended to (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5)

Details of permitted exceptions (Regulations 411.3.3): Where applicable, a suitable risk assessment(s) must be attached to this Certificate: Number of pages:

The extent of liability of the signatory or signatories is limited to the work described above as the subject of this certificate.

For the DESIGN of the installation:

Signature	<input type="text" value="Kevin Wooding"/>	Date	<input type="text" value="08/01/2019"/>	Name (CAPITALS)	<input type="text" value="KEVIN WOODING"/>	Designer 1
Signature	<input type="text" value="Kevin Myers"/>	Date	<input type="text" value="08/01/2019"/>	Name (CAPITALS)	<input type="text" value="Kevin Myers"/>	Designer 2 **

** (where there is divided responsibility for the design)

Construction

We being the person(s) responsible for the construction of the electrical installation (as indicated by our signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which We have been responsible is, to the best of our knowledge and belief in accordance with BS 7671 amended to (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5)

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

For the CONSTRUCTION of the installation:

Signature	<input type="text" value="Tom Stagg"/>	Date	<input type="text" value="13/05/2019"/>	Name (CAPITALS)	<input type="text" value="Tom Stagg"/>	Constructor
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Inspection and Testing

We being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by our signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the inspection and testing hereby CERTIFY that the work for which We have been responsible is, to the best of our knowledge and belief in accordance with BS 7671 amended to (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5)

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

For the INSPECTION AND TESTING of the installation:

Signature	<input type="text" value="Brian Stanford"/>	Date	<input type="text" value="13/05/2019"/>	Signature	<input type="text" value="Anthony Wilkinson"/>	Date	<input type="text" value="22/05/2019"/>
Name (CAPITALS)	<input type="text" value="Brian Stanford"/>	Inspector		Name (CAPITALS)	<input type="text" value="Anthony Wilkinson"/>	Qualified Supervisor	

DESIGN (1)	Organisation	George E Buxton Ltd		
Address	2 Twyford Business Centre London Road Bishops Stortford Hertfordshire CM23 3YT	Tel	01279 659911	
NICEIC Enrolment Number	111970		Branch No.(If Applicable)	N/A

DESIGN (2)	Organisation	George E Buxton Ltd		
Address	2 Twyford Business Centre London Road Bishops Stortford Hertfordshire CM23 3YT	Tel	01279 659911	
NICEIC Enrolment Number	111970		Branch No.(If Applicable)	N/A

CONSTRUCTION	Organisation	George E Buxton Ltd		
Address	2 Twyford Business Centre London Road Bishops Stortford Hertfordshire CM23 3YT	Tel	01279 659911	
NICEIC Enrolment Number	111970		Branch No.(If Applicable)	N/A

INSPECTION AND TESTING	Organisation	George E Buxton Ltd		
Address	2 Twyford Business Centre London Road Bishops Stortford Hertfordshire CM23 3YT	Tel	01279 659911	
NICEIC Enrolment Number	111970		Branch No.(If Applicable)	N/A

System Type(s)		Number and Type of Live Conductors				Nature of Supply Parameters				Characteristics of primary supply overcurrent protective Device(s)			
TN-S	<input checked="" type="checkbox"/>	a.c.	<input checked="" type="checkbox"/>	d.c.	N/A	Nominal Voltage	U	400	V	U _o	230	BS(EN)	88-2 Fuse HRC
TN-C-S	N/A	1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	Nominal frequency	f	50	Hz	Prospective fault current	I _{pf}	Type	gG
TN-C	N/A	2-Phase (3 wire)	N/A	3 Pole	N/A	External loop impedance	Z _e	0.02	Ω	Number of Sources	1	Rated current	630 A
TT	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	<input checked="" type="checkbox"/>	Short circuit Capacity	80		kA	Confirmation of Supply Polarity	<input checked="" type="checkbox"/>		
IT	N/A	Other	N/A										

Means of Earthing		Details of Installation Earth Electrode (where applicable)				
Distributor's facility	<input checked="" type="checkbox"/>	Type (eg rod(s), tape etc)	N/A		Location	N/A
Installation earth electrode	N/A	Electrode resistance, R _A	N/A Ω		Method of measurement	N/A

Main Switch/ Switch-Fuse/ Circuit-Breaker/ RCD		Maximum Demand (Load)		Protective measure(s) against electric shock			
Type BS(EN)	60947-2	Voltage Rating	690	V	500	Amps	ADS
No. of poles	4	Rated Current, I _n	630	A			
Supply Conductors material	Copper	RCD operating current, I _{Δn}	N/A mA				
Supply Conductors CSA	4x95 mm ²	RCD operating time at, I _{Δn}	N/A ms				
		Rated time delay	N/A ms				

Earthing and Protective Bonding Conductors				Bonding of extraneous conductive parts (✓)	
Earthing conductor		Main protective bonding conductors		Water installation pipes	<input checked="" type="checkbox"/>
Conductor material:	Copper	Conductor material:	Copper	Lightning Protection	<input checked="" type="checkbox"/>
Conductor csa:	50 mm ²	Conductor csa:	50 mm ²	Oil installation pipes	N/A
Continuity/ connection verified	N/A	Continuity/ connection verified	N/A	Structural Steel	<input checked="" type="checkbox"/>
				Gas installation pipes	<input checked="" type="checkbox"/>
				Other	

Comments on Existing Installation

In the case of an alteration or additions see Regulation 633 None

Next Inspection

We, the designer(s) RECOMMEND that this installation is further inspected and tested after an interval of not more than 5 Years or change of tenancy.

Item No	Description	Outcome	Item No	Description	Outcome
1.0	CONDITION OF DISTRIBUTOR'S/SUPPLY INTAKE EQUIPMENT (the Distributor should be notified of any unsatisfactory equipment)		6.0	OTHER METHODS OF PROTECTION (insert location in box provided)	
1.1	Service cable	✓	6.1	Basic and fault protection	LOCATION
1.2	Service head	✓	a)	SELV	✓
1.3	Distributor's earthing arrangement	✓	b)	PELV	N/A
1.4	Meter tails - Distributor/Consumer	✓	c)	Double insulation/Reinforced insulation	N/A
1.5	Metering equipment	✓	d)	Electrical separation for one item of equipment	N/A
1.6	Isolator	✓	6.2	Fault protection	LOCATION
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY		a)	Non-conducting location/Earth-free local equipotential bonding**	N/A
2.1	Presence of adequate arrangements where generator to operate as a switched alternative	✓	b)	Electrical separation for more than one item of equipment**	N/A
2.1 a)	Dedicated earthing arrangement independent of that of the public supply	✓	7.0	DISTRIBUTION EQUIPMENT	
2.2	Presence of adequate arrangements where generator to operate in parallel with public supply system		7.1	Adequacy of working space/accessibility	✓
2.2 a)	Correct connection of generator in parallel	✓	7.2	Security of fixing	✓
2.2 b)	Compatibility of characteristics of means of generation	✓	7.3	Insulation of live parts not damaged during erection	✓
2.2 c)	Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	✓	7.4	Adequacy / security of barriers	✓
2.2 d)	Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	✓	7.5	Suitability of enclosures for IP and fire ratings	✓
2.2 e)	Means to isolate generator from the public supply system	✓	7.6	Enclosures not damaged during installation	✓
2.3	Presence of alternative/additional supply warning notices at:		7.7	Presence and effectiveness of obstacles	✓
2.3 a)	The origin	✓	7.8	Presence of main switch(es), linked where required	✓
2.3 b)	The meter position, if remote from origin	✓	7.9	Operation of main switch(es) (functional check)	✓
2.3 c)	The consumer unit/distribution board to which the alternative/additional sources are connected	✓	7.10	Operation of circuit-breakers and RCDs to prove functionality	✓
2.3 d)	All points of isolation of ALL sources of supply	✓	7.11	RCD(s) provided for fault protection, where specified	✓
3.0	AUTOMATIC DISCONNECTION OF SUPPLY		7.12	RCD(s) provided for protection against fire	✓
3.1	Presence and adequacy of protective earthing/bonding arrangements as follows:		7.13	RCD(s) provided for additional protection, where specified	✓
3.1 a)	Distributor's earthing arrangement or installation earth electrode arrangement	N/A	7.14	Confirmation overvoltage protection (SPDs) provided where specified	✓
3.1 b)	Earthing conductor and connections	✓	7.15	Confirmation of indication that SPD is functional	✓
3.1 c)	Main protective bonding conductors and connections	✓	7.16	Presence of RCD quarterly test notice at or near the origin	✓
3.1 d)	Earthing/bonding labels at all appropriate locations	✓	7.17	Presence of diagrams, charts or schedules at or near each distribution board, where required	✓
3.2	Accessibility of:		7.18	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required	✓
3.2 a)	Earthing conductor connections	✓	7.19	Presence of next inspection recommendation label	✓
3.2 b)	All protective bonding connections	✓	7.20	Presence of other required labelling	✓
3.3	FELV - requirements satisfied	N/A	7.21	Selection of protective device(s) and base(s); correct type and rating	✓
3.4	Reduced low voltage - requirements satisfied	✓	7.22	Single-pole protective devices in line conductor only	✓
4.0	BASIC PROTECTION		7.23	Protection against mechanical damage where cables enter equipment	✓
4.1	Presence and adequacy of protective measures to provide basic protection		7.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures	✓
4.1 a)	Insulation of live parts	✓	7.25	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	✓
4.1 b)	Barriers or enclosures	✓			
4.1 c)	Obstacles	N/A			
4.1 d)	Placing out of reach	N/A			
5.0	ADDITIONAL PROTECTION				
5.1	The presence and effectiveness of additional protection methods used, as follows:				
5.1 a)	RCDs not exceeding 30mA operating current	✓			
5.1 b)	Supplementary bonding	✓			

Item No	Description	Outcome	Item No	Description	Outcome
8.0	CIRCUITS		9.0	ISOLATION AND SWITCHING	
8.1	Identification of conductors	✓	9.1	Isolators	
8.2	Cables correctly supported throughout their length	✓	9.1 a)	Presence and location of appropriate devices	✓
8.3	Examination of cables for signs of mechanical damage during installation	✓	9.1 b)	Capable of being secured in the OFF position	✓
8.4	Examination of insulation of live parts, not damaged during erection	✓	9.1 c)	Correct operation verified (functional check)	✓
8.5	Non-sheathed cables protected by enclosure in conduit	✓	9.1 d)	The installation, circuit or part thereof that will be isolated is clearly identified by location and/or durable marking	✓
8.6	Suitability of containment systems (including flexible conduit)	✓	9.1 e)	Warning label posted in situations where live parts cannot be isolated by the operation of a single device	✓
8.7	Correct temperature rating of cable insulation	✓	9.2	Switching off for mechanical maintenance	
8.8	Adequacy of cables for current carrying capacity with regard to the type and nature of installation	✓	9.2 a)	Presence of appropriate devices	✓
8.9	Adequacy of protective devices; type and rated current for fault protection	✓	9.2 b)	Acceptable location (state if local or remote)	Local
8.10	Presence and adequacy of circuit protective conductors	✓	9.2 c)	Capable of being secured in the OFF position	✓
8.11	Coordination between conductors and overload protective devices	✓	9.2 d)	Correct operation verified (functional check)	✓
8.12	Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences	✓	9.2 e)	The circuit or part thereof to be disconnected clearly identified by location and/or durable marking	✓
8.13	Cables installed under floors, above ceilings, in walls/partions, adequately protected against damage		9.3	Emergency switching/stopping	
8.13 a)	Installed in prescribed zones	✓	9.3 a)	Presence of appropriate devices	✓
8.13 b)	Incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like	✓	9.3 b)	Readily accessible for operation where danger might occur	✓
8.14	Provision of additional protection by RCDs having rated residual operating current (I_{Δn}) not exceeding 30 mA		9.3 c)	Correct operation verified (functional check)	✓
8.14 a)	For mobile equipment with a current rating not exceeding 32A for use outdoors	N/A	9.3 d)	The installation, circuit or part thereof to be disconnected, clearly identified by location and/or durable marking	✓
8.14 b)	For all socket-outlets of rating 20 A or less, unless exempt	✓	9.4	Functional switching	
8.14 c)	For cables installed in walls/partitions at a depth of less than 50 mm	✓	9.4 a)	Presence of appropriate devices	✓
8.14 d)	For cables installed in walls/partitions containing metal parts regardless of depth	✓	9.4 b)	Correct operation verified (functional check)	✓
8.15	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire	✓	10.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
8.16	Band II cables segregated/separated from Band I cables	✓	10.1	Suitability of equipment in terms of IP and fire rating	✓
8.17	Cables segregated/separated from non-electrical services	✓	10.2	Enclosure not damaged/deteriorated during installation so as to impair safety	✓
8.18	Termination of cables and enclosures		10.3	Suitability for the environment and external influences	✓
8.18 a)	Connections under no undue strain	✓	10.4	Security of fixing	✓
8.18 b)	No basic insulation of a conductor visible outside enclosure	✓	10.5	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire	✓
8.18 c)	Connections of live conductors adequately enclosed	✓	10.6	Recessed luminaires (downlighters)	
8.18 d)	Adequately connected at point of entry to enclosure (glands, bushes etc.)	✓	10.6 a)	Correct type of lamps fitted	✓
8.19	Suitability of circuit accessories for external influences	✓	10.6 b)	Installed to minimise build up of heat	✓
8.20	Circuit accessories not damaged during erection	✓	10.7	Provision of undervoltage protection, where specified	✓
8.21	Single-pole devices for switching in line conductor only	✓	10.8	Provision of overload protection, where specified	✓
8.22	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment	✓	10.9	Adequacy of working space/accessibility to equipment	✓
11.0	SPECIAL INSTALLATIONS OR LOCATIONS				

Board Details		TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of distribution board	BASEMENT LV SWITCH ROOM	Supply to distribution board is from	N/A	Associated RCD (if any)		BS(EN)	N/A
Distribution board designation	LV 1 SWITCH	No of phases	N/A	Nominal Voltage	N/A V	RCD No of poles	N/A
		Overcurrent protective device for the distribution circuit		Type BS(EN)	N/A	Rating	N/A A
				RCD rating, I Δ n	N/A	mA	

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection times	Overcurrent protective device				RCD	
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA	Op. current I Δ n	Max. permitted Zs Ω
1/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	Sub Mains(DB/LLB/MECH)	G	E	1	25	70	5	60947-2 MCCB		100	50	N/A	0.2
5/TP	Sub Mains(DB LIFT 1/2 & 3)	G	E	1	25	70	5	60947-2 MCCB		100	50	N/A	0.2
6/TP	Sub Mains(DB/COMMS)	G	E	1	25	70	5	60947-2 MCCB		100	50	N/A	0.2
7/TP	Sub Mains(DB/LLB)	G	E	1	25	70	5	60947-2 MCCB		100	50	N/A	0.2
8/TP	Sub Mains(DB/LL2)	G	E	1	25	70	5	60947-2 MCCB		100	50	N/A	0.2
9/TP	Sub Mains(DB/LL4)	G	E	1	25	70	5	60947-2 MCCB		100	50	N/A	0.2
10/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	FIRE ALARM PANEL	O	E	1	4	4	0.4	60947-2 MCCB		16	50	N/A	1
13/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-
13/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	Sub Mains(DB/LLB/AHU)	G	E	1	35	80	5	60947-2 MCCB		125	50	N/A	0.15
15/TP	Sub Mains(DB/LLR)	G	E	1	70	138	5	60947-2 MCCB		160	50	N/A	0.14
16/TP	Sub Mains(DB/LLR/MECH)	G	E	1	95	160	5	60947-2 MCCB		250	50	N/A	0.07
17/TP	Sub Mains(RISING BUSBAR)	G	E	7	150	230	5	60947-2 MCCB		400	50	N/A	0.09
18/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
19/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code								
A	B	C	D	E	F	G	H	O
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	Other


Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						TEST INSTRUMENTS (SERIAL NUMBERS) USED					
Zs	N/A	Ω	Operating times of associated RCD (if any)	At I Δ _n	N/A	ms	Earth fault loop impedance	0706070380	RCD	0706070380	
Ipf	N/A	kA		At 5I Δ _n	N/A	ms	Insulation resistance	0706070380	Multi-function	N/A	
Confirmation of Supply polarity			<input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate)			<input checked="" type="checkbox"/>	Continuity	0706070380	Other	N/A

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polar ity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/ Line	Line/ Neutral	Line/ Earth	Earth/ Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I Δ _n	At 5I Δ _n	
	ms	ms												
1/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	N/A	N/A	N/A	0.09	N/A	>499	>499	>499	>499	✓	0.06	N/A	N/A	N/A
5/TP	N/A	N/A	N/A	0.13	N/A	>499	>499	>499	>499	✓	0.16	N/A	N/A	N/A
6/TP	N/A	N/A	N/A	0.10	N/A	>499	>499	>499	>499	✓	0.14	N/A	N/A	N/A
7/TP	N/A	N/A	N/A	0.02	N/A	>499	>499	>499	>499	✓	0.05	N/A	N/A	N/A
8/TP	N/A	N/A	N/A	0.08	N/A	>499	>499	>499	>499	✓	0.06	N/A	N/A	N/A
9/TP	N/A	N/A	N/A	0.07	N/A	>499	>499	>499	>499	✓	0.06	N/A	N/A	N/A
10/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	N/A	N/A	N/A	0.34	N/A	N/A	>299	>299	>299	✓	0.26	N/A	N/A	N/A
13/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	N/A	N/A	N/A	0.10	N/A	>499	>499	>499	>499	✓	0.08	N/A	N/A	N/A
15/TP	N/A	N/A	N/A	0.08	N/A	>499	>499	>499	>499	✓	0.06	N/A	N/A	N/A
16/TP	N/A	N/A	N/A	0.05	N/A	>499	>499	>499	>499	✓	0.06	N/A	N/A	N/A
17/TP	N/A	N/A	N/A	0.10	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
18/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	
Name	Anthony Wilkinson	Date of testing	22/02/2019
		Qualifying Supervisor	

Board Details

TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of distribution board	ELECTRICAL RISER	Supply to distribution board is from	SubMains(LV 1 SWITCH , 17/TP)		Associated RCD (if any) BS(EN) N/A
Distribution board designation	RISING BUSBAR	No of phases	3	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit	Type BS(EN) 60947-2 MCCB		Rating 400 A
				RCD No of poles	N/A
				RCD rating, I Δ n	N/A mA

Circuit Details

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection time s	Overcurrent protective device				RCD	
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA	Op. current I Δ n	Max. permitted Zs Ω
1/TP	Sub Mains(DB/B/P,DB/B/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
2/TP	Sub Mains(DB/G/P,DB/G/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
3/TP	Sub Mains(DB/1/P,DB/1/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
4/TP	Sub Mains(DB/2/P,DB/2/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
5/TP	Sub Mains(DB/3/P,DB/3/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
6/TP	Sub Mains(DB/4/P,DB/4/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
7/TP	Sub Mains(DB/5/P,DB/5/L)	B	B	1	25	16	5	60947-2 MCCB		100	36	N/A	0.22
8/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
19/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
20/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
21/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
22/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						TEST INSTRUMENTS (SERIAL NUMBERS) USED					
Zs	0.03	Ω	Operating times of associated RCD (if any)	At I _{Δn}	N/A	ms	Earth fault loop impedance	0706070380	RCD	0706070380	
Ipf	10	kA		At 5I _{Δn} (if applicable)	N/A	ms	Insulation resistance	0706070380	Multi-function	N/A	
Confirmation of Supply polarity	<input checked="" type="checkbox"/>		Phase sequence confirmed (where appropriate)	<input checked="" type="checkbox"/>			Continuity	0706070380	Other	N/A	

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
	ms	ms												
1/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
2/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
3/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
4/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
5/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
6/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	<499	✓	0.03	N/A	N/A	N/A
7/TP	N/A	N/A	N/A	0.01	N/A	>499	>499	>499	>499	✓	0.03	N/A	N/A	N/A
8/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Qualifying Supervisor
Name	Anthony Wilkinson	Date of testing	25/02/2019

Board Details		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION	
TO BE COMPLETED IN EVERY CASE			
Location of distribution board	BASEMENT ELECTRICAL RISER	Supply to distribution board is from	SubMains(RISING BUSBAR, 1/TP)
Distribution board designation	DB/B/L	No of phases	3
		Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit	
		Type BS(EN)	60947-2 MCCB
		Rating	100 A
		Associated RCD (if any)	BS(EN) N/A
		RCD No of poles	N/A
		RCD rating, I Δ n	N/A mA

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection time s	Overcurrent protective device				RCD Op. current I Δ n	Max. permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA		
1/L1	LIGHTING HARDWIRED LCM 2	O	E	15	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
1/L2	LIGHTING HARDWIRED LCM 3	O	E	18	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
1/L3	LIGHTING 20 PERSON MEETING ROOM	O	E	2	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
2/L1	LIGHTING INTERACTIVE ROOM	O	E	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
2/L2	LIGHTING HARDWIRED LCM 5	O	E	22	2.5	2.5	0.4	60898 MCB	B	10	10	N/A	4.37
2/L3	BUS LOUNGE NEON	O	E	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
3/L1	ARCADE NEON	O	E	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
3/L2	5A SOCKETS	O	E	2	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
3/L3	AREA CONTROLLER	O	E	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code								
A	B	C	D	E	F	G	H	O
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION				TEST INSTRUMENTS (SERIAL NUMBERS) USED					
Zs	0.03 Ω	Operating times of associated RCD (if any)	At I _{Δn}	N/A	ms	Earth fault loop impedance	101333008	RCD	101333008
Ipf	9.3 kA		At 5I _{Δn} (if applicable)	N/A	ms	Insulation resistance	101333008	Multi-function	N/A
Confirmation of Supply polarity	<input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate)	<input checked="" type="checkbox"/>			Continuity	101333008	Other	N/A

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
	ms	ms												
1/L1	N/A	N/A	N/A	1.21	N/A	N/A	>299	>299	>299	✓	1.30	N/A	N/A	N/A
1/L2	N/A	N/A	N/A	1.79	N/A	N/A	>299	>299	>299	✓	1.88	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	0.16	N/A	N/A	>299	>299	>299	✓	0.25	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.21	N/A	N/A	>299	>299	>299	✓	0.30	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	2.88	N/A	N/A	>299	>299	>299	✓	2.97	N/A	N/A	N/A
2/L3	N/A	N/A	N/A	0.30	N/A	N/A	>299	>299	>299	✓	0.39	N/A	N/A	N/A
3/L1	N/A	N/A	N/A	0.47	N/A	N/A	>299	>299	>299	✓	0.56	N/A	N/A	N/A
3/L2	N/A	N/A	N/A	0.22	N/A	N/A	>299	>299	>299	✓	0.33	N/A	N/A	N/A
3/L3	N/A	N/A	N/A	0.02	N/A	N/A	>299	>299	>299	✓	0.11	N/A	N/A	N/A
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrician
Name	Brian Stanford	Date of testing	09/05/2019

Board Details	
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
Location of distribution board BASEMENT ELECTRICAL RISER	Supply to distribution board is from SubMains(RISING BUSBAR, 1/TP)
Distribution board designation DB/B/P	Associated RCD (if any) BS(EN) N/A RCD No of poles N/A RCD rating, I Δ n N/A mA
	No of phases 3 Nominal Voltage 400 V
	Overcurrent protective device for the distribution circuit Type BS(EN) 60947-2 MCCB Rating 100 A

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection times	Overcurrent protective device				RCD	
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA	Op. current I Δ n	Max. permitted Zs Ω
1/L1	GENERAL USE SOCKETS 1	O	C	3	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
1/L2	ARCADE MACHINE	O	E	4	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
1/L3	GENERAL USE SOCKETS 2	O	C	15	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
2/L1	GENERAL USE SOCKETS 3	O	C	9	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	PHONE BOOTH - RADIAL	O	C	5	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09
3/L3	AV POWER	O	E	7	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	FAN COIL RING	O	E	3	4	4	0.4	60898 MCB	C	32	10	N/A	0.68
4/L3	FAN COIL RING	O	E	5	4	4	0.4	60898 MCB	C	32	10	N/A	0.68
5/L1	COFFEE MACHINE	G	C	1	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	COFFEE BAR FRIDGE & BILLI TAP	O	C	2	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
6/L2	WASTE PUMP	O	C	1	4	4	0.4	60898 MCB	C	16	10	N/A	1.37
6/L3	CLEANERS SOCKETS	O	C	5	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
7/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code								
A	B	C	D	E	F	G	H	O
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						TEST INSTRUMENTS (SERIAL NUMBERS) USED					
Zs	0.03	Ω	Operating times of associated RCD (if any)	At I _{Δn}	N/A	ms	Earth fault loop impedance	101333008	RCD	101333008	
Ipf	9.3	kA		At 5I _{Δn} (if applicable)	N/A	ms	Insulation resistance	101333008	Multi-function	N/A	
Confirmation of Supply polarity	<input checked="" type="checkbox"/>		Phase sequence confirmed (where appropriate)	<input checked="" type="checkbox"/>			Continuity	101333008	Other	N/A	

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
	ms	ms	ms	ms	ms	ms	ms	ms	ms			ms		
1/L1	0.34	0.33	0.22	0.13	N/A	N/A	>299	>299	>299	✓	0.38	28.8	28.9	✓
1/L2	0.27	0.27	0.19	0.09	N/A	N/A	>299	>299	>299	✓	0.19	28.9	28.9	✓
1/L3	0.56	0.56	0.27	0.17	N/A	N/A	>299	>299	>299	✓	0.20	28.9	29	✓
2/L1	0.31	0.31	0.19	0.09	N/A	N/A	>299	>299	>299	✓	0.14	29	29	✓
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	N/A	N/A	N/A	0.14	N/A	N/A	>299	>299	>299	✓	0.24	28.9	28.9	✓
3/L3	0.33	0.33	0.10	0.07	N/A	N/A	>299	>299	>299	✓	0.17	28.7	29.2	✓
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	0.33	0.34	0.21	0.12	N/A	N/A	>299	>299	>299	✓	0.17	N/A	N/A	N/A
4/L3	0.22	0.24	0.13	0.07	N/A	N/A	>299	>299	>299	✓	0.19	N/A	N/A	N/A
5/L1	N/A	N/A	N/A	0.10	N/A	N/A	>299	>299	>299	✓	0.19	29	29	✓
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	0.28	0.28	0.14	0.07	N/A	N/A	>299	>299	>299	✓	0.17	28.9	28.9	✓
6/L2	N/A	N/A	N/A	0.16	N/A	N/A	>299	>299	>299	✓	0.25	N/A	N/A	N/A
6/L3	0.47	0.40	0.23	0.17	N/A	N/A	>299	>299	>299	✓	0.16	38.9	28.9	✓
7/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrician
Name	Brian Stanford	Date of testing	09/05/2019

Board Details

TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of distribution board	BASEMENT ELECTRICAL RISER	Supply to distribution board is from	SubMains(RISING BUSBAR, 1/TP)		Associated RCD (if any)
Distribution board designation	DB/B/P	No of phases	3	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit	Type BS(EN) 60947-2 MCCB		Rating 100 A
					RCD No of poles N/A
					RCD rating, I Δ n N/A mA

Circuit Details

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection time s	Overcurrent protective device				RCD		Max. permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA	Op. current I Δ n		
9/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						TEST INSTRUMENTS (SERIAL NUMBERS) USED					
Zs	0.03	Ω	Operating times of associated RCD (if any)	At I _{Δn}	N/A	ms	Earth fault loop impedance	101333008	RCD	101333008	
Ipf	9.3	kA		At 5I _{Δn} (if applicable)	N/A	ms	Insulation resistance	101333008	Multi-function	N/A	
Confirmation of Supply polarity	<input checked="" type="checkbox"/>		Phase sequence confirmed (where appropriate)	<input checked="" type="checkbox"/>			Continuity	101333008	Other	N/A	

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
	ms	ms												
9/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
9/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
9/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	
10/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	
11/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
11/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
11/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	
13/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
13/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
13/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	
14/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
14/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
14/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	
15/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	
16/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	
16/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	
16/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	

Tested By

Signature		Position	Electrician
Name	Brian Stanford	Date of testing	09/05/2019

Board Details	
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
Location of distribution board GROUND FLOOR ELECTRICAL RISER	Supply to distribution board is from SubMains(RISING BUSBAR, 2/TP)
Distribution board designation DB/G/L	Associated RCD (if any) BS(EN) N/A RCD No of poles N/A RCD rating, I Δ n N/A mA
	No of phases 3 Nominal Voltage 400 V
	Overcurrent protective device for the distribution circuit Type BS(EN) 60947-2 MCCB Rating 100 A

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection times	Overcurrent protective device				RCD	
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA	Op. current I Δ n	Max. permitted Zs Ω
1/L1	LIGHTING LCM SPUR	O	E	4	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
1/L2	LIGHTING LCM SPUR	O	E	4	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
1/L3	LIGHTING HARDWIRED LCM ZONE 2	O	E	49	2.5	2.5	0.4	60898 MCB	B	10	10	N/A	4.37
2/L1	LIGHTING HARDWIRED LCM ZONE 3	O	E	26	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
2/L2	LIGHTING LCM SPUR	O	E	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
2/L3	LIGHTING HARDWIRED LCM ZONE 4	O	E	14	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
3/L1	LIGHTING AREA CONTROLLER	O	E	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
3/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code								
A	B	C	D	E	F	G	H	O
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						TEST INSTRUMENTS (SERIAL NUMBERS) USED					
Zs	0.03	Ω	Operating times of associated RCD (if any)	At I Δ _n	N/A	ms	Earth fault loop impedance	101333008	RCD	101333008	
Ipf	9.1	kA		At 5I Δ _n (if applicable)	N/A	ms	Insulation resistance	101333008	Multi-function	N/A	
Confirmation of Supply polarity	<input checked="" type="checkbox"/>		Phase sequence confirmed (where appropriate)	<input checked="" type="checkbox"/>			Continuity	101333008	Other	N/A	

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I Δ _n	At 5I Δ _n	
	ms	ms												
1/L1	N/A	N/A	N/A	0.26	N/A	N/A	>299	>299	>299	✓	0.38	N/A	N/A	N/A
1/L2	N/A	N/A	N/A	0.36	N/A	N/A	>299	>299	>299	✓	0.48	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	2.94	N/A	N/A	>299	>299	>299	✓	3.06	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	1.70	N/A	N/A	>299	>299	>299	✓	1.82	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	0.37	N/A	N/A	>299	>299	>299	✓	0.49	N/A	N/A	N/A
2/L3	N/A	N/A	N/A	0.63	N/A	N/A	>299	>299	>299	✓	0.75	N/A	N/A	N/A
3/L1	N/A	N/A	N/A	0.01	N/A	N/A	>299	>299	>299	✓	0.13	N/A	N/A	N/A
3/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrician
Name	Brian Stanford	Date of testing	29/04/2019

Board Details

TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of distribution board	GROUND FLOOR ELECTRICAL RISER	Supply to distribution board is from	SubMains(RISING BUSBAR, 2/TP)		Associated RCD (if any)
Distribution board designation	DB/G/P	No of phases	3	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit	Type BS(EN) 60947-2 MCCB		Rating 100 A
					RCD No of poles N/A
					RCD rating, I Δ n N/A mA

Circuit Details

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection time s	Overcurrent protective device				RCD Op. current I Δ n	Max. permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA		
1/L1	FLOOR TRACK 4	G	C	1	10	10	0.4	60898 MCB	C	32	10	N/A	0.68
1/L2	FLOOR TRACK 1	G	C	1	10	10	0.4	60898 MCB	C	32	10	N/A	0.68
1/L3	FLOOR TRACK 2	G	C	1	10	10	0.4	60898 MCB	C	32	10	N/A	0.68
2/L1	FLOOR TRACK 5	G	C	1	10	10	0.4	60898 MCB	C	32	10	N/A	0.68
2/L2	FLOOR TRACK 3	G	C	1	10	10	0.4	60898 MCB	C	32	10	N/A	0.68
2/L3	GENERAL USE SOCKETS 1	G	C	20	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
3/L1	GENERAL USE SOCKETS 2	G	C	8	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
3/L2	PHONE BOOTH - RADIAL	G	C	1	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09
3/L3	AV SOCKETS	G	C	6	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
4/L1	DISHWASHER BACK OF HOUSE	G	C	1	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
4/L2	AV SOCKETS	G	C	2	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09
4/L3	GENERAL USE SOCKETS 3	G	C	3	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
5/L1	TEA POINT RING	G	C	7	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
5/L2	AV SOCKETS	G	C	5	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09
5/L3	FAN COIL RING	O	E	8	4	4	0.4	60898 MCB	C	32	10	N/A	0.68
6/L1	ZIP TAP BACK OF HOUSE	G	C	1	4	4	0.4	60898 MCB	C	16	10	N/A	1.37
6/L2	PSU MAG LOCKS	O	C	1	4	4	0.4	60898 MCB	C	16	10	N/A	1.37
6/L3	FAN COIL RING	O	E	7	4	4	0.4	60898 MCB	C	16	10	N/A	1.37
7/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	CLEANERS SOCKETS	G	C	6	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
7/L3	COFFEE BAR RING	G	C		4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
8/L1	RECEPTION SOCKETS	G	C	1	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	COFFEE BAR BOILER	G	C	1	4	4	0.4	60898 MCB	C	16	10	N/A	1.37

Wiring Code

A	B	C	D	E	F	G	H	O
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	Other

Board Tests

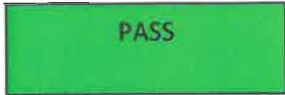
ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION				TEST INSTRUMENTS (SERIAL NUMBERS) USED				
Zs	0.03 Ω	Operating times of associated RCD (if any)	At I _{Δn}	N/A ms	Earth fault loop impedance	101333008	RCD	101333008
Ipf	9.1 kA		At 5I _{Δn} (if applicable)	N/A ms	Insulation resistance	101333008	Multi-function	N/A
Confirmation of Supply polarity	<input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate)	<input checked="" type="checkbox"/>		Continuity	101333008	Other	N/A

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
	ms	ms	ms	ms	ms	ms	ms	ms	ms			ms		
1/L1	N/A	N/A	N/A	0.04	N/A	N/A	>299	>299	>299	✓	0.16	N/A	N/A	N/A
1/L2	N/A	N/A	N/A	0.03	N/A	N/A	>299	>299	>299	✓	0.15	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	0.04	N/A	N/A	>299	>299	>299	✓	0.16	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.03	N/A	N/A	>299	>299	>299	✓	0.15	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	0.03	N/A	N/A	>299	>299	>299	✓	0.15	N/A	N/A	N/A
2/L3	0.85	0.85	0.18	0.12	N/A	N/A	>299	>299	>299	✓	0.29	29	29	✓
3/L1	0.76	0.72	0.12	0.07	N/A	N/A	>299	>299	>299	✓	0.33	28.4	28.9	✓
3/L2	N/A	N/A	N/A	0.33	N/A	N/A	>299	>299	>299	✓	0.45	29	29.1	✓
3/L3	0.45	0.45	0.26	0.15	N/A	N/A	>299	>299	>299	✓	0.19	29	28.8	✓
4/L1	0.09	0.09	0.04	0.02	N/A	N/A	>299	>299	>299	✓	0.11	28.9	28.9	✓
4/L2	N/A	N/A	N/A	0.30	N/A	N/A	>299	>299	>299	✓	0.42	29	28.8	✓
4/L3	N/A	N/A	N/A	0.19	N/A	N/A	>299	>299	>299	✓	0.11	28.9	29	✓
5/L1	0.26	0.26	0.09	0.04	N/A	N/A	>299	>299	>299	✓	0.22	38.9	28.8	✓
5/L2	N/A	N/A	N/A	0.26	N/A	N/A	>299	>299	>299	✓	0.36	38.9	28.9	✓
5/L3	0.59	0.59	0.12	0.15	N/A	N/A	>299	>299	>299	✓	0.25	N/A	N/A	N/A
6/L1	N/A	N/A	N/A	0.11	N/A	N/A	>299	>299	>299	✓	0.23	N/A	N/A	N/A
6/L2	N/A	N/A	N/A	0.05	N/A	N/A	>299	>299	>299	✓	0.17	N/A	N/A	N/A
6/L3	0.55	0.56	0.15	0.17	N/A	N/A	>299	>299	>299	✓	0.20	N/A	N/A	N/A
7/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	0.78	0.77	0.18	0.12	N/A	N/A	>299	>299	>299	✓	0.30	38.8	28.9	✓
7/L3	0.28	0.28	0.15	0.07	N/A	N/A	>299	>299	>299	✓	0.16	28.9	28.9	✓
8/L1	N/A	N/A	N/A	0.12	N/A	N/A	>299	>299	>299	✓	0.24	29	29	✓
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	N/A	N/A	N/A	0.18	N/A	N/A	>299	>299	>299	✓	0.30	N/A	N/A	N/A

Tested By

Signature		Position	Electrician
Name	Brian Stanford	Date of testing	29/04/2019



CERTIFICATE OF TEST

Client:	Buxton Electrical		
Site:	22 Tudor Street, London, EC4Y 0AY		
Structure Tested:	22 Tudor Street, London, EC4Y 0AY		
Test Date:	April 2019	Issue Date:	April 2019
Air Termination:	25x 3 mm PVC Coated Aluminium Conductor		
Down Conductor:	Structural Steel Frame		
Project No.:	01975	Test Engineer:	D.Anderson
Test Method:	Two Pole	Building Height:	20m

We certify that the lightning protection system installed at the above site has been tested and visually inspected in accordance with BS 6651:1999 , BS EN 62305:2011 , BS 7430:2011 and BS 7671:2008 IET Wiring Regulations (17th Edition).

In accordance with the 17th Edition Regulations, the lightning protection system requires a test and visual inspection to be carried out at intervals not exceeding 12 months. Additionally, electrical testing of the system has been carried out in accordance with the requirements of the aforementioned Standard guidelines.

Roof Level Continuity Tests

	Continuity Reading		Continuity Reading		Continuity Reading		Continuity Reading
Position 1	0.71 Ω	Position 2	0.62Ω	Position 3	0.71 Ω	Position 4	0.60 Ω
Position 5	0.67 Ω	Position 6	0.72Ω	Position 7	0.77 Ω	Position 8	0.80 Ω
Combined Value:	0.55 Ω			Next Test & Inspection Due:	April 2020		

Test Instrument:	4105A	Model:	Kyoritsu
Calibration No.:	CAP090118/02	Calibration Expiry Date:	June 2019
Signed:	<i>Arran Anderson</i>	Name:	Mr Arran Anderson

Standards:	This record shows that this installation does generally comply with the edition of BS 6651 (installation design criteria) at the time of this Test.
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