ELECTRICAL INSTALLATION CERTIFICATE

Requirements for Electrical Installations - BS 7671: 2018
(IET Wiring Regulations 18th Edition)

Information for recipients:

This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with BS 7671 (the IET Wiring Regulations).

You should have received an original Certificate and the contractor should have retained a duplicate.

If you were the person ordering this work, but not the owner of the installation, you should pass this Certificate, or a copy of it, immediately to the owner.
The original Certificate is to be retained in a safe place and be shown to any person inspecting or undertaking work on the electrical installation in the future.

If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of BS 7671 at the time the Certificate was issued.

The Construction (Design and Management) Regulations require that, for a project covered by those regulations, a copy of this certificate, together with schedules, is included in the project health and safety document.

For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 2 under "NEXT INSPECTION".

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an addition or alteration to an existing installation. It should not have been issued for the inspection and testing of an existing electrical installation. An "Electrical installation Condition Report" should be issued for such an inspection.

This Certificate is only valid if accompanied by the schedule of inspections and the schedule(s) of test results.

ELECTRICAL INSTALLATION CERTIFICATE
[BS 7671: 2018 as amended]

for Industrial/Commercial Premises
Requirements for Electrical Installations
BS7671 :2018 (IET Wiring Regulations 18th Edition)

FT/EIC 3486000001876

NICEIC APPROVED CONTRACTOR

Mr. Electric™

Client Details

Client	WESSEX RFCA	Installation	165 PORT & MARITIME REG
Address	MOUNT HOUSE MOUNT STREET TAUNTON SOMERSET	Address	BREST ROAD DERRIFORD PLYMOUTH DEVON
Postcode	TA1 3QU	Postcode	PL6 5EW

Details of the Installation

Installation is New ☐ Addition ☑ Alteration ☑ Records Available Yes ☐ No ☑ Date of original installation: Not specified

Description of the installation:
INSTALLATION OF NEW REPLACEMENT DBA AND RCBO IN DBD PLUS COMPLETION OF ALL PREVIOUSLY LISTED REMEDIAL WORKS DETAILED ON EICR 3486000001219 DATED THE 13-5-2022.

Extent of the installation covered by this certificate:
INSTALLATION OF NEW REPLACEMENT DBA, REPLACEMENT RCBO IN DBD PLUS COMPLETION OF ALL PREVIOUSLY LISTED REMEDIAL WORKS DETAILED ON EICR 3486000001219 DATED THE 13-5-2022.

Details of departures from BS 7671 (regulations 120.3, 133.1.3 and 133.5):

Details of permitted exception. (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate:

RCD Risk assessment attached (Non Dwelling ONLY) ☐

Declaration for Design, Construction, Inspection and Testing (for sole person responsibility)

I being the person responsible for design, construction, inspection and the test of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the design, construction, inspection and test hereby CERTIFY that the design, construction, inspection and test for which i have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2018, amended to 2022

The extent of liability of the signatory or the signatories is limited to work described in Section 2 as subject of this certificate.

For the DESIGN / CONSTRUCTION / INSPECTION & TEST of the installation:

Company	Technical Electrical Engineering Ltd t/a Mr Electric	Position	Qualified Supervisor
Inspector Name	Steve Creese	Date	13/05/2022
Address	Wheal Kitty Studios Wheal Kitty St Agnes	Scheme No.	019875 Branch No.
		Signature	
Reviewed By	Steve Creese	Reviewed By Signature	
Reviewed By Date	27/05/2022		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 5 years

Supply Characteristics and Earthing Arrangements

Earthing Arrangements TN-S ☐ TN-C-S ☑ TT ☐ Other ☐ If Other please specify: N/A

Number & Type of live conductors AC ☑ DC ☐ No. of phases: 3 No. of wires: 4

Nature of Supply Parameters (Note: (1) by enquiry, (2) by enquiry or by measurement)

Nominal voltage, U/U_0 (1): 400/230 v
Nominal frequency, f(1): 50 Hz
Confirmation of polarity ☑
Prospective fault current, I_{pf} (2): 4.1 kA
External loop impedance, Z_e (2): 0.06 Ω
Supply Protective Device BS (EN): 88-2 Fuse HRC G
Type: gG Rated Current: 400 A
No. of Additional Supplies: 0

Particulars of Installation at the Origin

Means of Earthing

Details of installation Earth Electrode (where applicable) Type (e.g. rod(s), tape etc):
Distributors facility ☑ Installation Earth Electrode ☐
Location: Electrode resistance to earth: Ω
Maximum Demand (load): 150 Amps ☑ KVA ☐

Main Protective Conductors	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	25	mm²	Continuity Verified ☑	Ω	Connection Verified ☐	Ω
Protective Bonding Conductor	Copper	10	mm²	Continuity Verified ☐	LIM Ω	Connection Verified ☐	LIM Ω

	Material	csa		(connection / continuity)	(✓) or Value		(✓) or Value	
Main Supply Conductor	Copper	35	mm²	Water installation	☑	Ω	To structural steel ☑	Ω
Main Switch Location: ELECTRIC STORE WORKSHOP				Gas installation pipes	☑	Ω	To lightning protection NA	Ω
				Oil installation pipes	NA	Ω	Other ☐	Ω

Fuse/device rating or setting: 400 A Voltage rating: 400 V
BS(EN): 60947-3 No. of Poles: 4 Current Rating: 400 A
If RCD main switch: Rated residual operating current I Δn: N/A mA
Rated time delay: N/A ms Measured operating trip time: N/A ms

Comments on existing installation (in case of addition or alteration see section 644.1.2) use continuation sheet if needed

ALL REMAINING INSTALLATION RESULTS THAT ARE UNCHANGED BY THIS WORK ARE STILL CURRENT WITHIN THE CURRENT INSTALLATION EICR 3486000001219 DATED 26-10-2021

(For additions or alterations) cables concealed within trunking and conduits, or cables or conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground may not have been inspected.

Outcomes

Indicates an inspection has been carried out and the result is satisfactory	✓	Indicates the inspection is not applicable to a particular item	N/A

Item No.	Description	Outcome
1.0 External Condition Of Intake Equipment (Visual Inspection Only) Where inadequacies are encountered, it is recommended that the person ordering the report informs the appropriate authority		
1.1	Service cable	✓
1.2	Service head	✓
1.3	Earthing arrangement	✓
1.4	Meter tails	✓
1.5	Metering equipment	✓
1.6	Isolator (where present)	✓
2.0 Parallel Or Switched Alternative Sources Of Supply		
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
2.1.1	Dedicated earthing arrangement independent of that of the public supply (551.4.3.2.1)	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A
2.2.1	Correct connection of generator in parallel (551.7.2)	N/A
2.2.2	Compatibility of characteristics of means of generation (551.7.3)	N/A
2.2.3	Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.4)	N/A
2.2.4	Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.5)	N/A
2.2.5	Means to isolate generator from the public supply system (551.7.6)	N/A
3.0 Automatic Disconnection Of Supply		
3.1	Protective earthing/bonding arrangements (411.3; Chap 54)	✓
3.2	**Adequacy of**	
3.2.1	Distributor's earthing arrangement (542.1.2.1; 542.1.2.2) or installation earth electrode arrangement (542.1.2.3)	✓
3.2.2	Earthing conductor and connections (Section 526; 542.3; 542.3.2; 543.1.1)	✓
3.2.3	Main protective bonding conductors and connections (Section 526; 544.1; 554.1.2)	✓
3.2.4	Earthing bonding labels at all appropriate locations (514.13)	✓
3.3	**Accessibility of**	
3.3.1	Earthing conductor connections	✓
3.3.2	All protective bonding connections (543.3.2)	✓
3.4	FELV - requirements satisfied (411.7; 411.7.1)	✓
4.0 Other Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate sheets)		
4.1	**Basic and fault protection (where used, confirmation that the requirements are satisfied)**	
4.1.1	SELV (Section 414)	N/A
4.1.2	PELV (Section 414)	N/A
4.1.3	Double insulation (Section 412)	N/A
4.1.4	Reinforced insulation (Section 412)	N/A
4.2	**Basic protection**	
4.2.1	Insulation of live parts (416.1)	✓
4.2.2	Barriers or enclosures (416.2; 416.21)	✓
4.2.3	Obstacles (Section 417; 417.2.1; 417.2.2)	N/A
4.2.4	Placing out of reach (Section 417; 417.3)	N/A
4.3	**Fault protection**	
4.3.1	Non-conducting location (418.1)	N/A
4.3.2	Earth-free local equipotential bonding (418.2)	N/A
4.3.3	Electrical separation (Section 415; 415.2)	N/A
4.4	**Additional protection**	
4.4.1	RCDs not exceeding 30 mA as specified (415.1)	✓
4.4.2	Supplementary bonding (Section 415; 415.2)	N/A
5.0 Distribution Equipment		
5.1	Security of fixing (134.1.1)	✓
5.2	Insulation of live parts not damaged during erection (416.1)	✓
5.3	Adequacy/security of barriers (416.2)	✓
5.4	Suitability of enclosure(s) for IP and fire rating (416.2; 421.1.6; 421.1.201;526.5)	✓
5.5	Enclosure not damaged during installation (134.1.1)	✓
5.6	Presence and effectiveness of obstacles (417.2)	N/A
5.7	Components are suitable according to manufacturers' assembly instructions or literature (536.4.203)	✓

5.8	Presence of main switch(es), linked where required (462.1.201)	✓
5.9	Operation of main switch(es) (functional check) (643.10)	✓
5.10	Manual operation of circuit-breakers and RCDs to prove functionality (643.10)	✓
5.11	Confirmation that integral test button/switch causes RCDs to trip when operated (functional check) (643.10)	✓
5.12	RCDs provided for fault protection where specified (411.4.204; 411.5.2; 531.2)	✓
5.13	RCDs provided for additional protection where specified (415.1)	✓
5.14	Confirmation overvoltage protection (SPDs) provided where specified (534.4.1.1)	N/A
5.15	Presence of RCD six-monthly test notice at or near the origin (514.12.2)	✓
5.16	Presence of diagrams, charts or schedules at or near each distribution board, where required (514.9.1)	✓
5.17	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required (514.14)	✓
5.18	**Presence of alternative supply warning notice at or near**	
5.18.1	The origin	✓
5.18.2	The meter position, if remote from the origin	✓
5.18.3	The distribution board to which the alternative/additional sources are connected	✓
5.18.4	All points of isolation of ALL sources of supply	✓
5.19	Presence of next inspection recommendation label (514.12.1)	✓
5.20	Presence of other required labelling (Section 514)	✓
5.21	Selection of protective device(s) and base(s); correct type and rating(411.3.2; 411.4; 411.4.5; 411.4.6; Sections 432; 433; 434)	✓
5.22	Single-pole protective devices in line conductors only (132.14.1; 530.3.3; 643.6)	✓
5.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	✓
5.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	✓
5.25	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	✓
6.0 Final Circuits		
6.1	Identification of conductors (514.3.1)	✓
6.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	✓
6.3	Examination of cables for signs of mechanical damage during installation (522.6.1; 522.8.1; 522.8.3)	✓
6.4	Examination of insulation of live parts, not damaged during erection (522.6.1; 522.8.1)	✓
6.5	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	✓
6.6	Suitability of containment systems (including flexible conduit) (Section 522)	✓
6.7	Correct temperature rating of cable insulation (522.1.1; Table 52.1)	✓
6.8	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓
6.9	Adequacy of protective devices: type and rated current for fault protection (411.3)	✓
6.10	Presence and adequacy of circuit protective conductors (411.3.1; 543.1)	✓
6.11	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)	✓
6.12	Wiring systems and cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)	✓
6.13	Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201; 522.6.202; 522.6.203; 522.6.204)	✓
6.14	Provision of additional protection by RCDs having rated residual operating current not exceeding 30 mA	✓
6.14.1	For all socket-outlets of rating (32 A) or less, unless exempt (411.3.3)	✓
6.14.2	Supplies for mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	✓
6.14.3	For cables concealed in walls at a depth of less than 50mm (522.6.202, 522.6.203)	✓
6.14.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202, 522.6.203)	✓
6.14.5	Circuits supplying luminaires within domestic (household) premises (411.3.4)	N/A
6.15	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire (Section 527)	✓
6.16	Band II cables segregated/separated from Band I cables (528.1)	✓
6.17	Cables segregated/separated from non-electrical services (528.3)	✓
6.18	**Termination of cables at enclosures (Section 526)**	
6.18.1	Connections under no undue strain (522.8.5; 526.6)	✓
6.18.2	No basic insulation of a conductor visible outside enclosure (526.8)	✓
6.18.3	Connections of live conductors adequately enclosed (526.5)	✓
6.18.4	Adequately connected at point of entry to enclosure (glands, bushes etc) (522.8.5)	✓
6.19	Suitability of circuit accessories for external influences (512.2)	✓
6.20	Circuit accessories not damaged during erection (134.1.1)	✓
6.21	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3; 643.6)	✓
6.22	Adequacy of connections, including CPCs, within accessories and at fixed and stationary equipment (Section 526)	✓

Inspector's Name: Steve Creese

Signature:

Date: 13/05/2022

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Tests

for Industrial/Commercial Premises

FT/EIC 3486000001876

Requirements for Electrical Installations
BS 7671: 2018 (IET Wiring Regulations 18th Edition)

Company Name	Technical Electrical Engineering Ltd t/a Mr Electric	**Company Address**	Wheal Kitty Studios	**Postcode**	TR5 0RD	**Branch No.**	**Scheme No.** 019875
Client	WESSEX RFCA	**Installation Address**	165 PORT & MARITIME REG, BREST ROAD, DERRIFORD, PLYMOUTH, DEVON	**Postcode**	PL6 5EW		

Distribution board details - Complete in every case

Location: 1ST FLOOR BAR AREA
Designation: DB A
Num. of ways: 24 Num. of phases: 1
Supply polarity confirmed: ☑ Phase sequence confirmed: ☐

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from: Sub Mains(DB PANEL BOARD, 2/L2)
Overcurrent protective device for the distribution circuit: BS(EN) 16-- BS EN 60947-2 MCCB Type C Rating 63 A Voltage 400 V

Characteristics at this distribution board

Associated RCD(if any): BS (EN) N/A
Z_d 0.15 Ω No. of poles N/A
I_{pf} 1.98 kA IΔn N/A
Time delay (if applicable) N/A
Above 30mA Operating at 1 IΔn N/A ms
30mA or below Operating at 5 IΔn N/A ms
(if applicable)

Test instrument serial number(s)

Loop impedance 44-0694
Insulation resistance 44-0694
Continuity 44-0694
RCD 44-0694

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and Line No.	Distribution board Designation / Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 80% (Ω)	Circuit impedance Ω Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both R1 + R2	R2	Insulation resistance (Record lower reading) Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing IΔn ms	30mA or below 5 IΔn ms	Manual test button operation RCD (✓)	AFDD (✓)
1/L2	Lights G12 + AREA	A	B	11	1.5	1	0.4	61009 RCD/RCBO	B	10	6	30	3.49	NA	NA	NA	N/A	0.82	NA	500	>99.9	>99.9	✓	0.91	19	14	✓	N/A
2/L2	Lights G14-18	A	B	14	1.5	1	0.4	61009 RCD/RCBO	B	10	6	30	3.49	NA	NA	NA	N/A	0.73	NA	500	>99.9	>99.9	✓	0.74	11	10	✓	N/A
3/L2	Lights G19-24	A	B	9	1.5	1	0.4	61009 RCD/RCBO	B	10	6	30	3.49	NA	NA	NA	N/A	0.58	NA	500	>99.9	>99.9	✓	0.91	19	10	✓	N/A
4/L2	Lights GF CORRIDOR	A	B	10	1.5	1	0.4	61009 RCD/RCBO	B	10	6	30	3.49	NA	NA	NA	N/A	1.15	NA	500	>99.9	>99.9	✓	0.72	21	9	✓	N/A
5/L2	Lights NEAR STAIRWELL	A	B	8	1.5	1	0.4	61009 RCD/RCBO	B	10	6	30	3.49	NA	NA	NA	N/A	0.6	NA	500	>99.9	>99.9	✓	1.29	21	9	✓	N/A
6/L2	Lights G28,29	A	B	9	1.5	1	0.4	61009 RCD/RCBO	B	10	6	30	3.49	NA	NA	NA	N/A	1.33	NA	500	>99.9	>99.9	✓	1.48	11	10	✓	N/A
7/L2	WATER HEATER G12	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	20	6	30	1.75	NA	NA	NA	N/A	0.46	NA	500	>99.9	>99.9	✓	0.59	9	9	✓	N/A
8/L2	ALARM ARMOURY	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	20	6	30	1.75	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	9	9	✓	N/A
9/L2	SOCKETS G10-17	A	B	18	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	30	1.09	0.22	0.22	0.3	N/A	0.52	NA	500	>99.9	>99.9	✓	0.69	21	10	✓	N/A
10/L2	SOCKETS G28,29,DRILL HALL,G18-20	A	B	16	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	30	1.09	0.35	0.35	0.5	N/A	0.68	NA	500	>99.9	>99.9	✓	0.91	21	10	✓	N/A
11/L2	SOCKETS G21-24	A	B	13	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	30	1.09	0.4	0.4	0.54	N/A	0.38	NA	500	>99.9	>99.9	✓	0.87	24	10	✓	N/A
12/L2	WATER HEATER G12	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	15	6	30	2.33	NA	NA	NA	N/A	0.39	NA	500	>99.9	>99.9	✓	0.94	19	9	✓	N/A
13/L2	Lights FAR END OFFICES	A	B	11	1.5	1	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	1.24	NA	500	>99.9	>99.9	✓	0.74	11	9	✓	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing

Date(s) dead testing 13/05/2022 To 13/05/2022

Date(s) live testing 13/05/2022 To 13/05/2022

Signature

Tested by: Name (capital letters) STEVE CREESE Position Qualified Supervisor Date 13/05/2022

Wiring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, G SWA/XPLE cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other
A/A1 - Single Core PVC Cables (4D1A), A/A2 - Multicore PVC Cables (4D2A), F/F1 - Single-core armoures PVC SWA Cables (4D3A), F/F2 - PVC SWA Cables (4D4A), A/A3 - PVC Twin & Earth (4D5), O/O1 - LSF single core cables 90°C rated (4E1A), O/O2 - Multi-core LSF cables 90°C rated (4E2A), G/G1 - Single-core armoured XLPE cables or 90°C rated (4E3A), G/G2 - Multi-core armoured XLPE cables or 90°C rated (4E4A), H/H1 - MICC exposed to touch (4G1A)

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for Industrial/Commercial Premises

FT/EIC 3486000001876

Requirements for Electrical Installations
BS 7671: 2018 (IET Wiring Regulations 18th Edition)

CIRCUIT DETAILS														TEST RESULTS																	
Circuit No. and Line No.	Distribution board Designation / Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices BS EN Number	Overcurrent protective devices Type No.	Overcurrent protective devices Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 80% (Ω)	Circuit impedance Ω Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both R1 + R2	R2	Insulation resistance (Record lower reading) Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing IΔn ms	30mA or below 5 IΔn ms	Manual test button operation RCD (✓)	AFDD (✓)
14/L2	Lights STORES,WC,OFFICE	A	B	9	1.5	1	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	0.79	NA	500	>99.9	>99.9	✓	0.91	19	9	✓	N/A
15/L2	Lights FAR END CORRIDOR	A	B	7	1.5	1	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	0.91	NA	500	>99.9	>99.9	✓	0.72	21	10	✓	N/A
16/L2	Lights NEAR CORRIDOR,OFFICE,OLD RANGE	A	B	16	1.5	1	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	0.58	NA	500	>99.9	>99.9	✓	1.29	21	10	✓	N/A
17/L2	RING MAIN HEATERS	A	B	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	LIM	30	1.09	NA	NA	NA	N/A	0.45	NA	500	>99.9	>99.9	✓	0.75	11	9	✓	N/A
18/L2	Lights ELECTRIC ROOM,265 SQDN ROOM	A	B	4	2.5	1.5	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	0.74	NA	500	>99.9	>99.9	✓	1.46	9	9	✓	N/A
19/L2	SOCKETS OLD RANGE + OFFICE VIA RCD	A	B	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	LIM	30	1.09	NA	NA	NA	N/A	0.53	NA	500	>99.9	>99.9	✓	0.59	9	10	✓	N/A
20/L2	WATER HEATER BASEMENT	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	20	LIM	30	1.75	NA	NA	NA	N/A	0.35	NA	500	>99.9	>99.9	✓	LIM	21	9	✓	N/A
21/L2	SOCKETS MAIN CORRIDOR,NEAR OFFICE,BOILER ROOM	A	B	6	2.5	1.5	0.4	61009 RCD/RCBO	B	32	LIM	30	1.09	NA	NA	NA	N/A	0.61	NA	500	>99.9	>99.9	✓	0.69	21	9	✓	N/A
22/L2	SOCKETS MAIN OFFICES, STORE,CORRIDOR	A	B	16	2.5	1.5	0.4	61009 RCD/RCBO	B	32	LIM	30	1.09	NA	NA	NA	N/A	0.38	NA	500	>99.9	>99.9	✓	0.91	24	10	✓	N/A
23/L2	Lights G27	A	B	6	1.5	1	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	1.21	NA	500	>99.9	>99.9	✓	0.87	19	10	✓	N/A
24/L2	Lights G26	A	B	4	1.5	1	0.4	61009 RCD/RCBO	B	10	LIM	30	3.49	NA	NA	NA	N/A	0.69	NA	500	>99.9	>99.9	✓	0.94	9	9	✓	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing

Date(s) dead testing 13/05/2022 To 13/05/2022

Date(s) live testing 13/05/2022 To 13/05/2022

Tested by: Name (capital letters) STEVE CREESE Position Qualified Supervisor Date 13/05/2022

Signature

Wiring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, G SWA/XPLE cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other
A/A1 - Single Core PVC Cables (4D1A), A/A2 - Multicore PVC Cables (4D2A), F/F1 - Single-core armoures PVC SWA Cables (4D3A), F/F2 - PVC SWA Cables (4D4A), A/A3 - PVC Twin & Earth (4D5), O/O1 - LSF single core cables 90°C rated (4E1A), O/O2 - Multi-core LSF cables 90°C rated (4E2A), G/G1 - Single-core armoured XLPE cables or 90°C rated (4E3A), G/G2 - Multi-core armoured XLPE cables or 90°C rated (4E4A), H/H1 - MICC exposed to touch (4G1A)

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Tests

for Industrial/Commercial Premises

FT/EIC 3486000001876

Requirements for Electrical Installations
BS 7671: 2018 (IET Wiring Regulations 18th Edition)

Company Name	Technical Electrical Engineering Ltd t/a Mr Electric	**Company Address**	Wheal Kitty Studios	**Postcode**	TR5 0RD	**Branch No.**	**Scheme No.** 019875
Client	WESSEX RFCA	**Installation Address**	165 PORT & MARITIME REG, BREST ROAD, DERRIFORD, PLYMOUTH, DEVON	**Postcode**	PL6 5EW		

Distribution board details - Complete in every case

Location: GROUNDFLOOR ELECTRICAL ROOM
Designation: DB B
Num. of ways: 12 Num. of phases: 3
Supply polarity confirmed ☐ Phase sequence confirmed ☐

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from: Sub Mains(DB PANEL BOARD, 1/TP)
Overcurrent protective device for the distribution circuit: BS(EN) 16-- BS EN 60947-2 MCCB; Type C; Rating 63 A; Voltage 400 V

Characteristics at this distribution board

Associated RCD(if any): BS (EN) N/A
Z_d 0.15 Ω No. of poles N/A
I_{pf} 1.98 kA IΔn N/A
Time delay (if applicable) N/A
Above 30mA Operating at 1 IΔn N/A ms
30mA or below Operating at 5 IΔn N/A ms
(if applicable)

Test instrument serial number(s)

Loop impedance 44-0694
Insulation resistance 44-0694
Continuity 44-0694
RCD 44-0694

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and Line No.	Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 80% (Ω)	Circuit impedance Ω Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both R1 + R2	R2	Insulation resistance (Record lower reading) Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing IΔn ms	RCD testing 30mA or below 5 IΔn ms	Manual test button operation RCD (✓)	Manual test button operation AFDD (✓)
1/TP	GOODS LIFT	A	B	1	2.5	2.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
2/L1	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L2	Lights 7,8,31	A	B	13	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.69	NA	500	>99.9	>99.9	✓	0.94	N/A	N/A	N/A	N/A
2/L3	Lights ENTRANCE,WC,CORRIDOR, WASHROOM	A	B	15	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.38	NA	500	>99.9	>99.9	✓	0.63	N/A	N/A	N/A	N/A
3/L1	Lights STAIRCASE	A	B	5	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.73	NA	500	>99.9	>99.9	✓	0.98	N/A	N/A	N/A	N/A
3/L2	SOCKETS 31,9	A	B	10	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	0.3	0.3	0.36	N/A	0.24	NA	500	>99.9	>99.9	✓	0.49	23.4	8.3	✓	N/A
3/L3	Lights 2,6	A	B	9	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.89	NA	500	>99.9	>99.9	✓	1.14	N/A	N/A	N/A	N/A
4/L1	Lights drill hall	A	B	3	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.17	NA	500	>99.9	>99.9	✓	0.37	N/A	N/A	N/A	N/A
4/L2	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	WATER HEATER	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
5/L1	Lights DRILL HALL	A	B	2	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.14	NA	500	>99.9	>99.9	✓	0.34	N/A	N/A	N/A	N/A
5/L2	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing

Date(s) dead testing 13/05/2022 To 13/05/2022

Date(s) live testing 13/05/2022 To 13/05/2022

Tested by: Name (capital letters) STEVE CREESE Position Qualified Supervisor Date 13/05/2022

Signature

Wiring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, G SWA/XPLE cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other
A/A1 - Single Core PVC Cables (4D1A), A/A2 - Multicore PVC Cables (4D2A), F/F1 - Single-core armoures PVC SWA Cables (4D3A), F/F2 - PVC SWA Cables (4D4A), A/A3 - PVC Twin & Earth (4D5), O/O1 - LSF single core cables 90°C rated (4E1A), O/O2 - Multi-core LSF cables 90°C rated (4E2A), G/G1 - Single-core armoured XLPE cables or 90°C rated (4E3A), G/G2 - Multi-core armoured XLPE cables or 90°C rated (4E4A), H/H1 - MICC exposed to touch (4G1A)

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Tests

for Industrial/Commercial Premises

FT/EIC 3486000001876

Requirements for Electrical Installations
BS 7671: 2018 (IET Wiring Regulations 18th Edition)

CIRCUIT DETAILS														TEST RESULTS																			
Circuit No. and Line No.	Distribution board Designation / Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²)		Maximum disconnection	Overcurrent protective devices			Breaking capacity	RCD operating	BS 7671 Max. permitted Zs Other	Circuit impedance Ω							Insulation resistance (Record lower reading)			Polarity	Max. Measured Zs	RCD testing		Manual test button operation	
	DB B													Ring final circuits only (measured end-to-end)			Fig 8 check	All circuits to be completed using R1R2 or R2, not both			Test voltage	L/L, L/N	L/E, N/E			IΔn	30mA or below 5 IΔn	RCD	AFDD
					L / N	CPC		BS EN Number	Type No.	Rating (A)	(KA)	(mA)	80% (Ω)	r1	rn	r2	(✓)	R1 + R2	R2		V	M(Ω)	M(Ω)	(✓)	Zs (Ω)	ms	ms	(✓)	(✓)
6/L1	Lights DRILL HALL	A	B	3	1.5	1	0.4	60898 MCB Type B	B	6	10	N/A	5.82	NA	NA	NA	N/A	0.08	NA		500	>99.9	>99.9	✓	0.33	N/A	N/A	N/A	N/A
6/L2	REDUNDANT SUPPLY 31	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.12	NA		500	>99.9	>99.9	✓	0.37	N/A	N/A	N/A	N/A
6/L3	WATER HEATER FEMALE WC [NOT LOCATED]	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	LIM	NA		500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
7/L1	RING MAIN DRILL HALL HEATERS	A	B	6	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	0.38	0.38	0.1	N/A	0.65	NA		500	>99.9	>99.9	✓	0.9	28.8	9.11	✓	N/A
7/L2	Circuit Not Tested	A	B	2	1.5	1.5	0.4	61009 RCD/RCBO Type B	B	6	10	30	5.82	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L3	SOCKETS MAIN ENTRANCE,2,3,4,5,6	A	B	10	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	0.25	0.29	0.12	N/A	0.79	NA		500	>99.9	>99.9	✓	1.04	24.2	9.15	✓	N/A
8/L1	DRILL HALL FAN	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	20	10	N/A	1.75	NA	NA	NA	N/A	0.02	NA		500	>99.9	>99.9	✓	0.27	N/A	N/A	N/A	N/A
8/L2	DRILL HALL FAN	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	20	10	N/A	1.75	NA	NA	NA	N/A	0.39	NA		500	>99.9	>99.9	✓	0.64	N/A	N/A	N/A	N/A
8/L3	HANDRIER GENTS	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.11	NA		500	>99.9	>99.9	✓	0.36	N/A	N/A	N/A	N/A
9/L1	SOCKETS 7,8	A	B	6	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	0.34	0.31	0.11	N/A	0.59	NA		500	>99.9	>99.9	✓	0.84	23	7.8	✓	N/A
9/L2	GATE ENTRANCE	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.84	NA		500	>99.9	>99.9	✓	1.09	N/A	N/A	N/A	N/A
9/L3	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing

Date(s) dead testing 13/05/2022 To 13/05/2022

Date(s) live testing 13/05/2022 To 13/05/2022

Tested by: Name (capital letters) STEVE CREESE

Position Qualified Supervisor

Date 13/05/2022

Signature

Wiring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, G SWA/XPLE cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other
A/A1 - Single Core PVC Cables (4D1A), A/A2 - Multicore PVC Cables (4D2A), F/F1 - Single-core armoures PVC SWA Cables (4D3A), F/F2 - PVC SWA Cables (4D4A), A/A3 - PVC Twin & Earth (4D5), O/O1 - LSF single core cables 90°C rated (4E1A), O/O2 - Multi-core LSF cables 90°C rated (4E2A), G/G1 - Single-core armoured XLPE cables or 90°C rated (4E3A), G/G2 - Multi-core armoured XLPE cables or 90°C rated (4E4A), H/H1 - MICC exposed to touch (4G1A)

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FT/EIC 3486000001876

Requirements for Electrical Installations
BS 7671: 2018 (IET Wiring Regulations 18th Edition)

Company Name	Technical Electrical Engineering Ltd t/a Mr Electric	**Company Address**	Wheal Kitty Studios	**Postcode**	TR5 0RD	**Branch No.**	**Scheme No.** 019875
Client	WESSEX RFCA	**Installation Address**	165 PORT & MARITIME REG, BREST ROAD, DERRIFORD, PLYMOUTH, DEVON	**Postcode**	PL6 5EW		

Distribution board details - Complete in every case

Location: FIRSTFLOOR OFFICE
Designation: DB D
Num. of ways: 11 Num. of phases: 3
Supply polarity confirmed ☐ Phase sequence confirmed ☐

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from: Sub Mains(DB PANEL BOARD, 5/TP)
Overcurrent protective device for the distribution circuit: BS(EN) 16-- BS EN 60947-2 MCCB Type C Rating 63 A Voltage 400 V

Characteristics at this distribution board

Associated RCD(if any): BS (EN) N/A
Z_d 0.28 Ω No. of poles N/A
I_{pf} 1.64 kA IΔn N/A
Time delay (if applicable) N/A
Above 30mA Operating at 1 IΔn N/A ms
30mA or below Operating at 5 IΔn N/A ms
(if applicable)

Test instrument serial number(s)

Loop impedance 44-0694
Insulation resistance 44-0694
Continuity 44-0694
RCD 44-0694

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and Line No.	Distribution board Designation / Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 80% (Ω)	Circuit impedance Ω Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both R1 + R2	R2	Insulation resistance (Record lower reading) Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing IΔn ms	30mA or below 5 IΔn ms	Manual test button operation RCD (✓)	AFDD (✓)
1/L1	Lights CORRIDOR + WC	A	B	11	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.56	NA	500	>99.9	>99.9	✓	0.53	N/A	N/A	N/A	N/A
1/L2	SOCKETS MAIN OFFICE	A	B	6	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	NA	NA	NA	N/A	0.16	NA	500	>99.9	>99.9	✓	0.96	19.8	19.2	✓	N/A
1/L3	Lights F8	A	B	4	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.30	NA	500	>99.9	>99.9	✓	0.92	N/A	N/A	N/A	N/A
2/L1	Lights F20 MALE WC	A	B	7	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.47	NA	500	>99.9	>99.9	✓	0.65	N/A	N/A	N/A	N/A
2/L2	Lights F3,4	A	B	3	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.78	NA	500	>99.9	>99.9	✓	0.39	N/A	N/A	N/A	N/A
2/L3	Lights F6,7	A	B	7	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
3/L1	Lights CORRIDOR	A	B	5	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.63	NA	500	>99.9	>99.9	✓	0.72	N/A	N/A	N/A	N/A
3/L2	VENT F4	A	B	1	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
3/L3	WATER HEATER WC	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.29	NA	500	>99.9	>99.9	✓	0.66	N/A	N/A	N/A	N/A
4/L1	WATER HEATER FEMALE WC	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.45	NA	500	>99.9	>99.9	✓	0.43	N/A	N/A	N/A	N/A
4/L2	WATER HEATER F3	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
4/L3	WATER HEATER F7	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	N/A	N/A	N/A	N/A
5/L1	WATER HEATER MALE WC	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.32	NA	500	>99.9	>99.9	✓	0.42	N/A	N/A	N/A	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing

Date(s) dead testing 13/05/2022 To 13/05/2022

Date(s) live testing 13/05/2022 To 13/05/2022

Tested by: Name (capital letters) STEVE CREESE Position Qualified Supervisor Date 13/05/2022

Signature

Wiring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, G SWA/XPLE cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other
A/A1 - Single Core PVC Cables (4D1A), A/A2 - Multicore PVC Cables (4D2A), F/F1 - Single-core armoures PVC SWA Cables (4D3A), F/F2 - PVC SWA Cables (4D4A), A/A3 - PVC Twin & Earth (4D5), O/O1 - LSF single core cables 90°C rated (4E1A), O/O2 - Multi-core LSF cables 90°C rated (4E2A), G/G1 - Single-core armoured XLPE cables or 90°C rated (4E3A), G/G2 - Multi-core armoured XLPE cables or 90°C rated (4E4A), H/H1 - MICC exposed to touch (4G1A)

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Tests

for Industrial/Commercial Premises

FT/EIC 3486000001876

Requirements for Electrical Installations
BS 7671: 2018 (IET Wiring Regulations 18th Edition)

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and Line No.	Distribution board Designation: DB D Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices: BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 80% (Ω)	Circuit impedance Ω: Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both: R1 + R2	R2	Insulation resistance (Record lower reading): Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing: IΔn ms	30mA or below 5 IΔn ms	Manual test button operation: RCD (✓)	AFDD (✓)
5/L2	SOCKETS F3	A	B	LIM	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	0.27	0.26	0.34	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	31	11	✓	N/A
5/L3	SHOWER F5	A	B	1	6	4	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	NA	NA	NA	N/A	0.20	NA	500	>99.9	>99.9	✓	0.3	23.8	9.1	✓	N/A
6/L1	SHOWER FEMALE WC	A	B	1	6	4	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	NA	NA	NA	N/A	0.19	NA	500	>99.9	>99.9	✓	0.34	23.8	9.12	✓	N/A
6/L2	SOCKETS OFFICE	A	B	LIM	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	NA	NA	NA	N/A	LIM	NA	500	>99.9	>99.9	✓	LIM	32	22	✓	N/A
6/L3	TV AMP + HOT WATER TAP	A	B	2	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.01	NA	500	>99.9	>99.9	✓	0.31	N/A	N/A	N/A	N/A
7/L1	Skt Ring Circuit	A	B	1	6	4	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.09	NA	NA	NA	N/A	0.26	NA	500	>99.9	>99.9	✓	0.29	29	12	✓	N/A
7/L2	Lights OFFICE	A	B	12	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.47	NA	500	>99.9	>99.9	✓	0.77	N/A	N/A	N/A	N/A
7/L3	SHOWER	A	B	1	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.01	NA	500	>99.9	>99.9	✓	0.2	N/A	N/A	N/A	N/A
8/L1	SOCKET ADJENT DB + KITCHEN SKT	A	B	2	2.5	1.5	0.4	60898 MCB Type B	B	20	10	N/A	1.75	NA	NA	NA	N/A	0.18	NA	500	>99.9	>99.9	✓	0.42	N/A	N/A	N/A	N/A
8/L2	Lights SMALL OFFICE	A	B	2	1.5	1.5	0.4	60898 MCB Type B	B	10	10	N/A	3.49	NA	NA	NA	N/A	0.22	NA	500	>99.9	>99.9	✓	0.58	N/A	N/A	N/A	N/A
8/L3	HEATER LARGE ROOM	A	B	1	2.5	1.5	0.4	60898 MCB Type B	B	16	10	N/A	2.18	NA	NA	NA	N/A	0.11	NA	500	>99.9	>99.9	✓	0.33	N/A	N/A	N/A	N/A
9/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing

Date(s) dead testing 13/05/2022 To 13/05/2022

Date(s) live testing 13/05/2022 To 13/05/2022

Tested by: Name (capital letters) STEVE CREESE

Position Qualified Supervisor

Date 13/05/2022

Signature

Wiring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, G SWA/XPLE cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other
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