NORWOOD ELECTRICAL (UK) LTD

ELECTRICAL INSTALLATION CERTIFICATE

Requirements For Electrical Installations - BS 7671

Certificate Number: 99971

1 DETAILS OF THE CLIENT

Client Address: ~University of Warwick, Estates Office, Porta Cabin, R/O Boiler House, Lord Bhattacharyya Way, Coventry, CV4 7AL

2 DETAILS OF THE INSTALLATION

Installation Address: 8 The Crescent, Wellsbourne, Warwick, CV35 9EQ

Extent of the installation covered by this certificate: All C2 + FI remedial work from EICR no. 77460 complete. See FI sheet for more info.

The installation is: New installation N/A | Addition to an existing installation N/A | Alteration to an existing installation ✔

3 DESIGN

I/We being the person(s) responsible for the design of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2022 except for the departures, if any, detailed as follows.

Details of departures from BS 7671 (Regulations 120.3, 133.5): None

Details of permitted exceptions (Regulations 411.3.3): Risk assessment attached

None

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

For the DESIGN of the installation:

Name:	Position:	Signature:	Date:

Where there is divided responsibility for the design:

Name:	Position:	Signature:	Date:

4 CONSTRUCTION

I/We being the person(s) responsible for the construction of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the construction work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2022 except for the departures, if any, detailed as follows.

Details of departures from BS 7671 (Regulations 120.3, 133.5): None

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

For the CONSTRUCTION of the installation:

Name:	Position:	Signature:	Date:

5 INSPECTION AND TESTING

I/We being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the inspection and testing work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2022 except for the departures, if any, detailed as follows.

Details of departures from BS 7671 (Regulations 120.3, 133.5): None

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

For the INSPECTION AND TESTING of the installation:

Name:	Position:	Signature:	Date:

Report reviewed and confirmed by:

Name:	Position:	Signature:	Date:

6 DESIGN, CONSTRUCTION, INSPECTION AND TESTING

I/We being the person(s) responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2022 except for the departures, if any, detailed as follows.

Details of departures from BS 7671 (Regulations 120.3, 133.5): None

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

For the DESIGN, the CONSTRUCTION, and the INSPECTION AND TESTING of the installation:

Name:	Position:	Signature:	Date:
Glen Mason	Electrician		06/07/2023

Report reviewed and confirmed by:

Name:	Position:	Signature:	Date:
Brett Irving	Qualified Supervisor		03/08/2023

7 NEXT INSPECTION

I/We the designer(s), RECOMMEND that this installation is further inspected and tested after an interval of not more than: 5 Years

8 DETAILS OF THE ELECTRICAL CONTRACTOR

Design (1) — Trading Title: ~Norwood Electrical (UK) Ltd

Address: The Coach House, Lockington Hall, Lockington, Derbyshire, Postcode: DE74 2RH

Registration Number (if applicable): 032788

Telephone Number: 0844 800 5540

Design (2) — Trading Title: N/A

Address: N/A, N/A, N/A, Postcode: N/A

Registration Number (if applicable): N/A

Telephone Number: N/A

Construction — Trading Title: ~Norwood Electrical (UK) Ltd

Address: The Coach House, Lockington Hall, Lockington, Derbyshire, Postcode: DE74 2RH

Registration Number (if applicable): 032788

Telephone Number: 0844 800 5540

Inspection and Testing — Trading Title: ~Norwood Electrical (UK) Ltd

Address: The Coach House, Lockington Hall, Lockington, Derbyshire, Postcode: DE74 2RH

Registration Number (if applicable): 032788

Telephone Number: 0844 800 5540

9 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements

TN-S:	N/A
TN-C-S:	✔
TNC:	N/A
TT:	N/A
IT:	N/A

Number and Type of Live Conductors

AC:	✔	1-phase (2-wire):	✔	2-phase (3-wire):	N/A
		3-phase (3-wire):	N/A	3-phase (4-wire):	N/A
DC:	N/A	2-wire:	N/A	3-wire:	N/A

Other: N/A

Confirmation of supply polarity: ✔

Nature of Supply Parameters

Nominal voltage, U/Uo:	230 V
Nominal frequency, f:	50 Hz
Prospective fault current, Ipf:	0.81 kA
External earth fault loop impedance, Ze:	0.28 Ω
Number of supplies:	1

Supply Protective Device

BS (EN):	1361 Fuse HBC
Type:	2
Rated current:	60 A

10 PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing

Distributor's facility:	✔
Installation earth electrode:	N/A

Details of Installation Earth Electrode (where applicable)

Type: N/A — Location: N/A

Resistance to Earth: N/A Ω — Method of measurement: N/A

Maximum Demand (Load): N/V

Main Switch / Switch-Fuse / Circuit-Breaker / RCD

Location: Rear Entrance Lobby .8 — BS (EN): 60947-3 Isolator — Number of poles: 2

Current rating: 100 A — Fuse/device rating or setting: N/A A — Voltage rating: 240 V

If RCD main switch:

RCD Type: — Rated residual operating current ($I_{\Delta n}$): mA — Rated time delay: ms — Measured operating time: ms

Earthing and Protective Bonding Conductors

Earthing conductor — Conductor material: Copper — csa: 16 mm² — Connection/continuity verified: ✔

Main protective bonding conductors — Conductor material: Copper — csa: 10 mm² — Connection/continuity verified: ✔

Bonding of extraneous-conductive parts

To water installation pipes:	✔	To gas installation pipes:	✔
To oil installation pipes:	N/A	To lightning protection:	N/A
To structural steel:	N/A	To other service(s):	N/A

11 COMMENTS ON EXISTING INSTALLATION

12 SCHEDULE OF INSPECTIONS

Item No	Description	Outcome
1.0	Condition of consumer's intake equipment (visual inspection only)	Pass
2.0	Parallel or switched alternative sources of supply	N/A
3.0	Protective measure: Automatic disconnection of supply	Pass
4.0	Basic protection	Pass
5.0	Protective measures other than ADS	N/A
6.0	Additional protection	Pass
7.0	Distribution equipment	Pass
8.0	Circuits (Distribution and Final)	Pass
9.0	Isolation and switching	Pass
10.0	Current-using equipment (permanently connected)	Pass
11.0	Identification and notices	Pass
12.0	Location(s) containing a bath or shower	Pass
13.0	Other special installations or locations	N/A
14.0	Prosumer's low voltage electrical installation(s)	N/A

All boxes must be completed. 'Pass' indicates that an inspection or test was carried out and that the result was satisfactory. 'Fail' indicates than an inspection or test was carried out and the result is not satisfactory. 'N/A' indicates that an inspection or test was not applicable to the particular installation. 'LIM' indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection or test being carried out.

DISTRIBUTION BOARD DETAILS

DB reference: DB 1 (Eaton Memshield 3) | Location: Rear Entrance Lobby #8 | Supplied from:

Distribution circuit OCPD: BS (EN): 60497-3 | Type: --- | Rating/Setting: 100 A | No of phases: 1

SPD Details: Types: T1 | T2 | T3 | N/A ✔ | Status indicator checked (where functionality indicator present): N/A

Confirmation of supply polarity ✔ | Confirmation of phase sequence ✔ | Zs at DB: 0.29 Ω | Ipf at DB: 0.78 kA

SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

CIRCUIT DETAILS															TEST RESULT DETAILS												
		Conductor details						Overcurrent protective device					RCD				Continuity (Ω)					Insulation resistance				Zs	RCD		AFDD
					Number and size												Ring final circuit			R_1+R_2 or R_2								
Circuit number	Circuit description	Type of wiring	Reference method	Number of points served	Live (mm²)	cpc (mm²)	Max disconnect time permitted by BS7671 (s)	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Maximum permitted Zs (Ω)	BS (EN)	Type	Rated operating current (mA)	Rating (A)	r_1 (line)	r_n (neutral)	r_2 (cpc)	R_1+R_2	R_2	Test voltage (V)	Live - Live (MΩ)	Live - Earth (MΩ)	Polarity (tick)	Maximum measured (Ω)	Disconnection time (ms)	Test button operation (tick)	Manual test button operation (tick)
9	Sockets - Far Side Of House	A	101	8	2.5	1.5	0.4	60898	B	32	6	1.10	61008		30		0.55	0.55	1.55	0.46	---	500	>999	>999	✔	0.98	8	✔	---

CODES FOR TYPE OF WIRING	A Thermoplastic insulated/sheathed cables	B Thermoplastic cables in metallic conduit	C Thermoplastic cables in nonmetallic conduit	D Thermoplastic cables in metallic trunking	E Thermoplastic cables in nonmetallic trunking	F Thermoplastic /SWA cables	G Thermosetting /SWA cables	H Mineral insulated cables	O - Other
									N/A

DETAILS OF TEST INSTRUMENTS

Details of test instruments used (serial and/or asset numbers):

Multi-functional: 101750951 | Insulation resistance: - | Continuity: -

Earth electrode resistance: - | Earth fault loop impedance: - | RCD: -

TESTED BY

Name: Danny Allen | Position: Electrician | Signature: | Date: 06/07/2023

OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Item No	Observations	Classification Code
DB-1 (Eton mem 3)		
1	Exposed buzz bar	C3
2	Circuit 9 High cpc reading end to end- Work done-all conections checked and tightend- Retested and reading ok via additional protection	FI

One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action:

- C1 Danger Present. Risk of injury. Immediate remedial action required
- C2 Potentially dangerous. Urgent remedial action required
- C3 Improvement recommended
- FI Further investigation required without delay

Immediate remedial action required for items:	N/A
Urgent remedial action required for items:	N/A
Improvement recommended for items:	1
Further investigation required for items:	2

ELECTRICAL INSTALLATION CERTIFICATE
GUIDANCE FOR RECIPIENTS

(to be appended to the Certificate)

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

You should have received an 'original' Certificate and the person that issued the certificate should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the owner.

The 'original' Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further 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 documentation.

For safety reasons, the electrical installation will need to be 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 1 under 'NEXT INSPECTION'.

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an alteration or addition to an existing installation. It should not have been issued for a periodic inspection 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(s) of Inspections and the Schedule(s) of Test Results.

Where the installation includes a residual current device (RCD) it should be tested six-monthly by pressing the button marked 'T' or Test. The device should switch off the supply and should then be switched on to restore the supply. If the device does not switch off the supply when the button is pressed, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes an arc fault detection device (AFDD) having a manual test facility it should be tested six-monthly by pressing the test button. Where an AFDD has both a test button and automatic test function, manufacturer's instructions shall be followed with respect to test button operation.

Where the installation includes a surge protective device (SPD) the status indicator should be checked to confirm it is in operational condition in accordance with manufacturer's information. If the indication shows that the device is not operational, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes alternative or additional sources of supply, warning notices should be found at the origin or meter position or, if remote from the origin, at the consumer unit or distribution board and at all points of isolation of all sources of supply.