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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 1 : DETAILS OF THE CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR

Registration No: 502605000 Branch No*: 000

Trading Title: TNA Electrical Ltd

Address: Unit 13 Heritage Park, Hayes Way, Cannock, Staffordshire

Postcode: WS11 7LT Tel No: 01543 425349

DETAILS OF THE CLIENT

Contractor Reference Number (CRN): E468

Name: Holloway Head Girl Guides Apartment.

Address: Winvic Construction Ltd, 19 Tenter Road, Moulton Park Industrial Estate, Northampton,

Postcode: NN3 6PZ Tel No: N/A

DETAILS OF THE INSTALLATION

Occupier: Girl Guides

Address: 2 Brownsea Drive, Birmingham, West Midlands

Postcode: B1 1WF Tel No: N/A

PART 2 : DETAILS OF THE ELECTRICAL WORK COVERED BY THIS INSTALLATION CERTIFICATE

Date works completed: 09/02/2023

The installation is –

New: (✔)

An addition: (N/A)

An alteration: (N/A)

Replacement of a distribution board: (N/A)

Description and extent of the installation covered by this certificate:

Complete new install to Girl Guides apartment including band 1 and 2 cables up to 230v.

Where necessary, continue on a separate numbered page: Page No(s) (N/A)

PART 3 : NEXT INSPECTION OF THE ELECTRICAL INSTALLATION

I/We, being the designer(s) of the electrical installation as documented in PART 4, RECOMMEND that this installation is further inspected and tested after an interval of not more than: 5 years/~~months~~** *(delete as appropriate)*

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(this option may be used where the design, construction, inspection & testing have been the responsibility of one person)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the design, construction, inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, hereby CERTIFY that the design, construction, inspection and testing for which I have been responsible is to the best of my knowledge and belief in accordance with *BS 7671: 2018*, amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): ~~YES~~/NA Risk assessment attached: (N/A) Page No(s) (N/A)

• Where selectivity is required, details of the verification appended (536.4): (N/A) Page No(s) (N/A)

Name (capitals): N/A Signature: Date:

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): N/A Signature: Date:

*Where applicable

** *The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.*

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Please see the 'Notes for Recipient'

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ELECTRICAL INSTALLATION CERTIFICATE

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Original (to the person ordering the work)

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(to be completed where different parties are responsible for the design, construction, inspection & testing)*

DESIGN *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I/We being the person(s) responsible for the design of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, 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 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): ~~Yes~~/NA Risk assessment attached: (N/A) Page No(s) (N/A) • Where selectivity is required, details of the verification appended (536.4): (N/A) Page No(s) (N/A)

DESIGNER 1 Name (capitals): GARRY CARTER Signature: GCarter Date: 09/02/2023

DESIGNER 2 ***(where there is divided responsibility for design)*** Name (capitals): N/A Signature: Date:

CONSTRUCTION *(The extent of liability of the signatory is limited to the work detailed in PART 2)*

I, being the person responsible for the construction of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018,* amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3 and 133.5).

Name (capitals): TNA ELECTRICAL Signature: TNA Date: 09/02/2023

INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018*, amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3 and 133.5).

Name (capitals): ADAM GREEN Signature: AGREEN Date: 09/02/2023

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): NEIL JONES Signature: NJones Date: 09/02/2023

PART 5 : COMMENTS ON THE EXISTING INSTALLATION *(in the case of an addition or alteration see Regulation 644.1.2)*

None

Where necessary, continue on a separate numbered page: Page No(s) (N/A)

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 6 : DETAILS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION *(signatures of which are in PART 4)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING

Organisation: N/A
Registration No*: N/A
Branch No*: N/A
Address:
Postcode:
Tel No:

DESIGN

DESIGNER 1

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire
Postcode: WS11 7LT
Tel No:

DESIGNER 2

Organisation: N/A
Registration No*: N/A
Branch No*: N/A
Address:
Postcode:
Tel No:

CONSTRUCTION

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire
Postcode: WS11 7LT
Tel No: 01543 425349

INSPECTION & TESTING

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire, Cardiff
Postcode: WS11 7LT
Tel No: 01543 425349

PART 7 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements

TN-C-S: (N/A) TN-S: (N/A) TT: (✔)
Other *(state)*: N/A

Supply protective device

(BS (EN) 60947-2)
Type: ( ) Rated current: (125) A

Number and type of live conductors

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

Confirmation of supply polarity: (✔)
Other sources of supply *(as detailed on attached schedule)* Page No:(N/A)

Nature of supply parameters

Nominal line voltage, U (1): (400) V
Nominal line voltage to Earth, U_0 (1): (230) V
Nominal frequency, f (1): (50) Hz
Prospective fault current, I_{pf} (1)**: (0.78) kA
External loop impedance, Z_e (1)**: (0.61) Ω

(1) *By enquiry, measurement, or by calculation*

PART 8 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand (load): (200) ~~kVA~~ / A *(delete as appropriate)*

Means of Earthing

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

Where an earth electrode is used insert

Type – rod(s), tape, etc: (Earth Rod)
Location: (Adjacent to Generator)
Electrode resistance to Earth: (99.9) Ω

Main protective conductors

Earthing conductor:
(material Copper csa 16 mm²)
Connection / continuity verified: (✔)

Main protective bonding conductors:
(material Copper csa 16 mm²)
Connection / continuity verified: (✔)

Main protective bonding connections

Water installation pipes: (✔)
Gas installation pipes: (NA)
Structural steel: (NA)
Oil installation pipes: (NA)
Lightning protection: (NA)
Other *(state)*: N/A

Main switch / Switch-fuse / Circuit-breaker / RCD

Type: (BS (EN) 61009)
Location: (Adjacent to Generator)
No. of poles: (4)
Rating / setting of device: (N/A) A
Current rating: (100) A
Voltage rating: (400) V

Where an RCD is used as the main switch

RCD rated residual operating current, $I_{\Delta n}$: (100) mA
Measured operating time: (40.1) ms
Rated time delay: (N/A) ms

**Where applicable*

*** Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, I_{pf}, and external earth fault loop impedance, Z_e, must be recorded.*

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ELECTRICAL INSTALLATION CERTIFICATE

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Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED – continues on next page

1. External condition of electrical intake equipment (visual inspection only)

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. Parallel or switched alternative sources of supply

2.1 Presence of adequate arrangements where generator to operate as a switched alternative:
- a) Dedicated earthing arrangement independent of that of the public supply (N/A)

2.2 Presence of adequate arrangements where generator to operate in parallel with public supply:
- a) Correct connection of generator in parallel (N/A)
- b) Compatibility of characteristics of means of generation (N/A)
- c) Means to provide automatic disconnection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values (N/A)
- d) Means to prevent connection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values (N/A)
- e) Means to isolate generator from public supply (N/A)

2.3 Presence of alternative / additional supply warning notices at or near:
- a) The origin (N/A)
- b) The meter position, if remote from origin (N/A)
- c) The consumer unit / distribution board to which the alternative / additional sources are connected (N/A)
- d) All points of isolation of ALL sources of supply (N/A)

3. Automatic disconnection of supply

3.1 Presence and adequacy of protective earthing / bonding arrangements as follows:
- a) Distributor's earthing arrangement or installation earth electrode arrangement (✔)
- b) Earthing conductor and connections (✔)
- c) Main protective bonding conductors and connections (✔)
- d) Earthing / bonding labels at all appropriate locations ( )

3.2 Accessibility of:
- a) Earthing conductor connections (✔)
- b) All protective bonding connections (✔)

3.3 FELV – requirements satisfied: (N/A)
3.4 Reduced low voltage – requirements satisfied: (✔)

4. Additional protection

4.1 The presence and effectiveness of additional protection methods used, as follows:
- a) RCDs not exceeding 30 mA operating current, as specified (✔)
- b) Supplementary bonding (N/A)

5. Basic protection *(‡ For use in controlled / supervised conditions only)*

5.1 Presence and adequacy of protective measures to provide basic protection:
- a) Insulation of live parts (✔)
- b) Barriers or enclosures (✔)
- c) Obstacles ‡ (✔)
- d) Placing out of reach ‡ (✔)

6. Basic and fault protection

- a) SELV (✔)
- b) PELV (N/A)
- c) Double or reinforced insulation (✔)

When used, provide details on a separate numbered page: Page No (8)

7. Distribution equipment

7.1 Adequacy of working space / accessibility: (✔)
7.2 Security of fixing: (✔)
7.3 Insulation of live parts not damaged during erection: (✔)
7.4 Adequacy / security of barriers: (✔)
7.5 Suitability of enclosures for IP and fire ratings: (✔)
7.6 Enclosures not damaged during installation: (✔)
7.7 Presence and effectiveness of obstacles: (✔)
7.8 Presence and operation (functional) check of main switch(es): (✔)
7.9 Components are suitable according to assembly manufacturer's instructions or literature: (✔)
7.10 Operation of circuit-breakers and RCDs to prove functionality: (✔)
7.11 RCD(s) provided for fault protection, where specified: (✔)
7.12 RCD(s) provided for protection against fire, where specified: (✔)
7.13 RCD(s) provided for additional protection, where specified: (✔)
7.14 Confirmation overvoltage protection (SPDs) provided, where specified: (N/A)
7.15 Indication of SPD(s) continued functionality confirmed: (N/A)
7.16 Selection of protective devices(s) and base(s); correct type and rating: (✔)
7.17 Single-pole protective devices in line conductors only: (✔)
7.18 Protection against mechanical damage where cables enter equipment: (✔)
7.19 Protection against electromagnetic effects where cables enter ferromagnetic enclosures: (✔)
7.20 Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure: (✔)
7.21 Presence of RCD six-monthly test notice, where required: (✔)
7.22 Presence of diagrams, charts or schedules at or near each distribution board, where required: (✔)
7.23 Presence of next inspection recommendation label: (✔)
7.24 Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required: (✔)
7.25 Presence of other required labelling: ( )

8. Circuits

8.1 Identification of conductors: (✔)
8.2 Cables correctly supported throughout, with protection against abrasion: (✔)
8.3 Examination of cables for signs of mechanical damage during installation: (✔)
8.4 Examination of installation of live parts, not damaged during erection: (✔)
8.5 Non-sheathed cables protected by enclosure in conduit, ducting or trunking: (✔)
8.6 Suitability of containment systems (including flexible conduit): (✔)
8.7 Correct temperature rating of cable insulation: (✔)
8.8 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation: (✔)
8.9 Adequacy of protective devices: type and fault current rating for fault protection: (✔)
8.10 Adequacy of AFDD(s), where specified: (N/A)
8.11 Presence and adequacy of circuit protective conductors: (✔)
8.12 Coordination between conductors and overload protective devices: (✔)

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Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED

8.13 Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences: (✔)

8.14 Cables concealed under floors, above ceilings, in walls / partitions, adequately protected against damage: (✔)

8.15 Cables installed in walls / partitions, installed in prescribed zones: (✔)

8.16 Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA:

a) For all socket-outlets with a rated current not exceeding 32 A or less, unless exempt (✔)

b) For supplies to mobile equipment with a current rating not exceeding 32 A for use outdoors (✔)

c) For cables concealed in walls / partitions at a depth of less than 50 mm (✔)

d) For cables concealed in walls / partitions containing metal parts regardless of depth (✔)

e) For circuits supplying luminaires within domestic (household) premises only (✔)

8.17 Provision of fire barriers, sealing arrangements so as to minimise the spread of fire: (✔)

8.18 Band II cables segregated / separated from Band I cables: (✔)

8.19 Cables segregated / separated from non-electrical services: (✔)

8.20 Termination of cables at enclosures:

a) Connections under no undue strain (✔)

b) No basic insulation of a conductor visible outside enclosure (✔)

c) Connections of live conductors adequately enclosed (✔)

d) Adequately connected at point of entry to enclosure (✔)

8.21 Suitability of circuit accessories for external influences: (✔)

8.22 Circuit accessories not damaged during erection: (✔)

8.23 Single-pole devices for switching or protection in line conductors only: (✔)

8.24 Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment: (✔)

9. Isolation and switching

9.1 Isolators:

a) Presence and location of appropriate devices (✔)

b) Capable of being secured in the OFF position (✔)

c) Correct operation verified (functional check) (✔)

d The installation, circuit or part thereof that will be isolated is clearly identified by location and / or durable marking (✔)

e) Warning notice posted in situations where live parts cannot be isolated by the operation of a single device (✔)

9.2 Switching off for mechanical maintenance:

a) Presence of appropriate devices (✔)

b) Acceptable location (local or remote) (✔)

c) Capable of being secured in the OFF position (✔)

d) Correct operation verified (functional check) (✔)

e) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (✔)

9.3 Emergency switching / stopping:

a) Presence of appropriate devices (N/A)

b) Readily accessible for operation where danger might occur (N/A)

c) Correct operation verified (functional check) (N/A)

d) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (N/A)

e) Firefighter's switches present, where required: (N/A)

9.4 Functional switching:

a) Presence of appropriate devices (✔)

b) Correct operation verified (functional check) (✔)

10. Current-using equipment (permanently connected)

10.1 Suitability of equipment in terms of IP and fire ratings: (✔)

10.2 Enclosure not damaged / deteriorated during installation so as to impair safety: (✔)

10.3 Suitability for the environment and external influences: (✔)

10.4 Security of fixing: (✔)

10.5 Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire: (✔)

10.6 Recessed luminaires (downlighters):

a) Correct type of lamps fitted (✔)

b) Installed to minimise build-up of heat (✔)

10.7 Provision of undervoltage protection, where specified: (✔)

10.8 Provision of overload protection, where specified: (✔)

10.9 Adequacy of working space / accessibility to equipment: (✔)

11. Special installations or locations

List below any special installations or locations which are part of the installation to be verified, and confirm that the additional requirements given in the respective section of Part 7 are fulfilled:

Bathroom and En suite. (✔)

( ) ( )

( ) ( )

( ) ( )

( ) ( )

Details must be appended on a separate numbered page (see PART 10 below)

SCHEDULE OF ITEMS INSPECTED BY

Name (capitals): ADAM GREEN

Signature: AGREEN Date: 08/02/2023

PART 10 : SCHEDULES AND ADDITIONAL PAGES

Schedule of Inspections	Schedule of Circuit Details and Test Results for the installation	Additional pages, including data sheets for additional sources	Special installations or locations *(indicated in item 11 above)*	Continuation sheets
Page No(s): (4 & 5)	Page No(s): (6)	Page No(s): (8)	Page No(s): (7)	Page No(s): (None)

The pages identified are an essential part of this certificate.

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PART 11 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing ': .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: N/A

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
														Ring final circuits only (measured end to end)			All circuits (complete at least one column)									
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	(Line) r_1	(Neutral) r_n	(cpc) r_2	$(R_1 + R_2)$	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
	RCD							61008		100		30													✔	
1	Lounge, Kitchen lights	A	102	8	2.5	1.5	0.2	60898	C	6	10		1667				1.71		999	999	250	✔	1.78			
2	Hob Supply	A	102	1	6	2.5	0.2	60898	B	32	10		1667				0.19		999	999	500	✔	0.26			
3	Smoke alarm	A	102	6	1.5	1	0.2	60898	B	6	10		1667				1.42		999	999	250	✔	1.49			
4	Bed/bathroom heaters	A	102	5	2.5	1.5	0.2	60898	B	20	10		1667				0.89		999	999	500	✔	0.96			
5	MVHR, Purge fans	A	102	3	2.5	1.5	0.2	60898	B	20	10		1667				0.20		999	999	500	✔	0.27			
6	Bedroom sockets	A	102	9	2.5	1.5	0.2	60898	C	20	10		1667				0.97		999	999	500	✔	1.05			
7	Spare																									
	RCD							61008		100		30													✔	
8	Bedroom lights, shaver sockets	A	102	10	1.5	1	0.2	60898	C	6	10		1667				1.56		999	999	250	✔	1.63			
9	Lounge sockets	A	102	5	2.5	1.5	0.2	60898	C	20	10		1667				0.76		999	999	500	✔	0.85			
10	Kitchen sockets	A	102	7	2.5	1.5	0.2	60898	C	32	10		1667	0.29	029	0.41	0.39		999	999	500	✔	0.46			
11	Living room/kitchen panel heaters	A	102	2	2.5	1.5	0.2	60898	B	20	10		1667				0.49		999	999	500	✔	0.56			
12	Spare																									

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DB01 Apartment

Location of DB: Apartment utility cupboard

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrician

Signature: AGREEN

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (DBGG1) Nominal voltage: (230) V No. of phases: (1)

Overcurrent protection device for the distribution circuit Type: (BS EN 60898) Rating: (63) A

Associated RCD (if any) Type: (BS EN 61009) No. of poles: (4) $I_{\Delta n}$ (100) mA Operating time (40.1) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.07) Ω I_{pf} (3.5) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This certificate is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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NOTES

Bathroom and En suite. Additional protection provided by means of RCD protection. ✔

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NOTES

Basic and fault protection

Shaver sockets installed to Girl Guides apartment bathrooms.

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NOTES FOR RECIPIENT

THIS CERTIFICATE IS AN IMPORTANT AND VALUABLE DOCUMENT WHICH SHOULD BE RETAINED FOR FUTURE USE

If you were the person ordering the work, but not the user of the installation, you should pass this certificate, or a full copy of it including these notes, the schedules and additional pages (if any), immediately to the user.

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected, tested and verified in accordance with the national standard for the safety of electrical installations, *BS 7671: 2018 (as amended) - Requirements for Electrical Installations* (the IET Wiring Regulations).

Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested every six months. For safety reasons it is important that this instruction is followed.

Also for safety reasons, the complete electrical installation will need to be inspected and tested at appropriate intervals by a skilled person or persons competent in such work. NICEIC* recommends that you engage the services of an NICEIC Approved Contractor for this purpose. The maximum interval recommended before the next inspection is stated in PART 3. There should be a notice at or near the main switchboard or distribution board indicating the date when the next inspection is due.

Only an NICEIC Approved Contractor or Conforming Body responsible for the construction of the electrical installation is authorised to issue this NICEIC Electrical Installation Certificate.

The certificate, which consists of at least six numbered pages, is only valid if accompanied by the *Schedule of Items Inspected* and the *Schedule of Circuit Details and Test Results*. The certificate has a printed serial number which is traceable to the Contractor to which it was supplied.

For installations having more than one distribution board (or consumer unit) or more circuits than can be recorded on Page 6, one or more additional *Schedules of Circuit Details and Test Results*, should form part of the certificate.

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, or for the replacement of a distribution board (or consumer unit). It should not have been issued for the inspection of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such a periodic inspection.

This certificate should not have been issued for electrical work in a potentially explosive atmosphere (hazardous area) unless the Approved Contractor holds an appropriate extension to their NICEIC registration for such work.

You should have received the certificate marked 'Original' and the Approved Contractor should have retained the certificate marked 'Duplicate'.

The 'Original' certificate should be retained in a safe place and shown to any skilled 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 user 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.

Page 1 and 2 of this certificate provide details of the electrical installation, together with the name(s) and signature(s) of the person(s) certifying the three elements of installation work: design, construction and inspection and testing, and page 3 identifies the organisation(s) responsible for the work certified by their representative(s).

Certification for inspection and testing provides an assurance that the electrical installation work has been fully inspected and tested, and that the electrical work has been carried out in accordance with the requirements of *BS 7671: 2018* (as amended) (except for any departures sanctioned by the designer and appended to the certificate).

Where responsibility for the design, the construction and the inspection and testing of the electrical work is divided between the Approved Contractor and one or more other bodies, the division of responsibility should have been established and agreed before commencement of the work. In such a case, NICEIC considers that the absence of certification for the construction, or the inspection and testing elements of the work would render the certificate invalid. If the design section of the certificate has not been completed, NICEIC recommends that you question why those responsible for the design have not certified that this important element of the work is in accordance with *BS 7671*.

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems) in accordance with British Standards *BS 5839* and *BS 5266* respectively, this electrical safety certificate should be accompanied by a separate certificate or certificates as prescribed by those standards.

Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, an additional page should have been provided which gives the relevant information relating to each additional source, and to the associated earthing arrangements and main switchgear.

Should the person ordering the work (e.g. the client, as identified on Page 1 of this certificate), have reason to believe that any element of the work for which the Approved Contractor has accepted responsibility (as indicated by the signatures on this certificate) does not comply with *BS 7671: 2018* (as amended), the client should in the first instance raise the specific concerns in writing with the Approved Contractor. If the concerns remain unresolved, the client may make a formal complaint to NICEIC, for which purpose a standard complaint form is available on request.

The complaints procedure offered by NICEIC is subject to certain terms and conditions, full details of which are available upon application. NICEIC does not investigate complaints relating to the operational performance of electrical installations (such as lighting levels), or to contractual or commercial issues (such as time or cost).

** NICEIC is operated by Certsure LLP, a partnership between the Electrical Contractors' Association and the charity, Electrical Safety First. NICEIC maintains and publishes registers of electrical contractors that it has assessed against particular scheme requirements (including the technical standard of electrical work).*

For further information about electrical safety and how NICEIC can help you, visit **www.niceic.com**

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NICEIC APPROVED CONTRACTOR

TNA

This certificate is not valid if the serial number has been defaced or altered **26837155** **ICN18C**

ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 1 : DETAILS OF THE CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR

Registration No: 502605000 Branch No*: 000

Trading Title: TNA Electrical Ltd

Address: Unit 13 Heritage Park, Hayes Way, Cannock, Staffordshire

Postcode: WS11 7LT Tel No: 01543 425349

DETAILS OF THE CLIENT

Contractor Reference Number (CRN): E468

Name: Holloway Head Girl Guides Shop

Address: Winvic Construction Ltd, 19 Tenter Road, Moulton Park Industrial Estate, Northampton,

Postcode: NN3 6PZ Tel No: N/A

DETAILS OF THE INSTALLATION

Occupier: Girl Guides

Address: 51 Holloway Head, Birmingham, West Midlands

Postcode: B1 1QP Tel No: N/A

PART 2 : DETAILS OF THE ELECTRICAL WORK COVERED BY THIS INSTALLATION CERTIFICATE

Date works completed: 02/02/2023

The installation is –

New: (✔)

An addition: (N/A)

An alteration: (N/A)

Replacement of a distribution board: (N/A)

Description and extent of the installation covered by this certificate:

Complete new install to Girl Guides Shop including band 1 and 2 cables up to 230v.

Where necessary, continue on a separate numbered page: Page No(s) (N/A)

PART 3 : NEXT INSPECTION OF THE ELECTRICAL INSTALLATION

I/We, being the designer(s) of the electrical installation as documented in PART 4, RECOMMEND that this installation is further inspected and tested after an interval of not more than: 5 years/~~months~~** *(delete as appropriate)*

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(this option may be used where the design, construction, inspection & testing have been the responsibility of one person)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the design, construction, inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, hereby CERTIFY that the design, construction, inspection and testing for which I have been responsible is to the best of my knowledge and belief in accordance with *BS 7671: 2018*, amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): ~~YES~~/NA Risk assessment attached: (N/A) Page No(s) (N/A)

• Where selectivity is required, details of the verification appended (536.4): (N/A) Page No(s) (N/A)

Name (capitals): N/A Signature: Date:

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): N/A Signature: Date:

*Where applicable

** *The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.*

This certificate is based on the model forms shown in Appendix 6 of *BS 7671*
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Please see the 'Notes for Recipient'

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Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(to be completed where different parties are responsible for the design, construction, inspection & testing)*

DESIGN *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I/We being the person(s) responsible for the design of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, 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 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): ~~Yes~~/NA Risk assessment attached: (N/A) Page No(s) (N/A) • Where selectivity is required, details of the verification appended (536.4): (N/A) Page No(s) (N/A)

DESIGNER 1 Name (capitals): GARRY CARTER Signature: G Carter Date: 16/02/2023

DESIGNER 2 ***(where there is divided responsibility for design)*** Name (capitals): N/A Signature: Date:

CONSTRUCTION *(The extent of liability of the signatory is limited to the work detailed in PART 2)*

I, being the person responsible for the construction of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018,* amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3 and 133.5).

Name (capitals): TNA ELECTRICAL Signature: TNA Date: 16/02/2023

INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018*, amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3 and 133.5).

Name (capitals): ADAM GREEN Signature: AGREEN Date: 16/02/2023

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): NEIL JONES Signature: N Jones Date: 16/02/2023

PART 5 : COMMENTS ON THE EXISTING INSTALLATION *(in the case of an addition or alteration see Regulation 644.1.2)*

None

Where necessary, continue on a separate numbered page: Page No(s) (N/A)

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 6 : DETAILS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION *(signatures of which are in PART 4)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING

Organisation: N/A
Registration No*: N/A
Branch No*: N/A
Address:
Postcode:
Tel No:

DESIGN

DESIGNER 1

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire
Postcode: WS11 7LT
Tel No:

DESIGNER 2

Organisation: N/A
Registration No*: N/A
Branch No*: N/A
Address:
Postcode:
Tel No:

CONSTRUCTION

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire
Postcode: WS11 7LT
Tel No: 01543 425349

INSPECTION & TESTING

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire, Cardiff
Postcode: WS11 7LT
Tel No: 01543 425349

PART 7 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements

TN-C-S: (N/A) TN-S: (N/A) TT: (✔)
Other *(state)*: N/A

Supply protective device

(BS (EN) 60947-2)
Type: ( ) Rated current: (125) A

Number and type of live conductors

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

Confirmation of supply polarity: (✔)
Other sources of supply *(as detailed on attached schedule)* Page No:(N/A)

Nature of supply parameters

Nominal line voltage, U (1): (400) V
Nominal line voltage to Earth, U_0 (1): (230) V
Nominal frequency, f (1): (50) Hz
Prospective fault current, I_{pf} (1)**: (0.78) kA
External loop impedance, Z_e (1)**: (0.61) Ω

(1) *By enquiry, measurement, or by calculation*

PART 8 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand (load): (200) ~~kVA~~ / A *(delete as appropriate)*

Means of Earthing

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

Where an earth electrode is used insert

Type – rod(s), tape, etc: (None)
Location: (N/A)
Electrode resistance to Earth: (N/A) Ω

Main protective conductors

Earthing conductor:
(material Copper csa 35 mm²)
Connection / continuity verified: (✔)

Main protective bonding conductors:
(material N/A csa N/A mm²)
Connection / continuity verified: (N/A)

Main protective bonding connections

Water installation pipes: (✔)
Gas installation pipes: (NA)
Structural steel: (NA)
Oil installation pipes: (NA)
Lightning protection: (NA)
Other *(state)*: N/A

Main switch / Switch-fuse / Circuit-breaker / RCD

Type: (BS (EN) 88-2)
Location: (Girl Guides plant room)
No. of poles: (4)
Current rating: (200) A
Rating / setting of device: (N/A) A
Voltage rating: (400) V

Where an RCD is used as the main switch

RCD rated residual operating current, $I_{\Delta n}$: (N/A) mA
Measured operating time: (N/A) ms
Rated time delay: (N/A) ms

**Where applicable*

*** Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, I_{pf}, and external earth fault loop impedance, Z_e, must be recorded.*

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ELECTRICAL INSTALLATION CERTIFICATE

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Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED – continues on next page

1. External condition of electrical intake equipment (visual inspection only)

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. Parallel or switched alternative sources of supply

2.1 Presence of adequate arrangements where generator to operate as a switched alternative:
- a) Dedicated earthing arrangement independent of that of the public supply (N/A)

2.2 Presence of adequate arrangements where generator to operate in parallel with public supply:
- a) Correct connection of generator in parallel (N/A)
- b) Compatibility of characteristics of means of generation (N/A)
- c) Means to provide automatic disconnection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values (N/A)
- d) Means to prevent connection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values (N/A)
- e) Means to isolate generator from public supply (N/A)

2.3 Presence of alternative / additional supply warning notices at or near:
- a) The origin (N/A)
- b) The meter position, if remote from origin (N/A)
- c) The consumer unit / distribution board to which the alternative / additional sources are connected (N/A)
- d) All points of isolation of ALL sources of supply (N/A)

3. Automatic disconnection of supply

3.1 Presence and adequacy of protective earthing / bonding arrangements as follows:
- a) Distributor's earthing arrangement or installation earth electrode arrangement (✔)
- b) Earthing conductor and connections (✔)
- c) Main protective bonding conductors and connections (✔)
- d) Earthing / bonding labels at all appropriate locations ( )

3.2 Accessibility of:
- a) Earthing conductor connections (✔)
- b) All protective bonding connections (✔)

3.3 FELV – requirements satisfied: (N/A)
3.4 Reduced low voltage – requirements satisfied: (✔)

4. Additional protection

4.1 The presence and effectiveness of additional protection methods used, as follows:
- a) RCDs not exceeding 30 mA operating current, as specified (✔)
- b) Supplementary bonding (N/A)

5. Basic protection *(‡ For use in controlled / supervised conditions only)*

5.1 Presence and adequacy of protective measures to provide basic protection:
- a) Insulation of live parts (✔)
- b) Barriers or enclosures (✔)
- c) Obstacles ‡ (✔)
- d) Placing out of reach ‡ (✔)

6. Basic and fault protection

- a) SELV (✔)
- b) PELV (N/A)
- c) Double or reinforced insulation (✔)

When used, provide details on a separate numbered page: Page No (8)

7. Distribution equipment

7.1 Adequacy of working space / accessibility: (✔)
7.2 Security of fixing: (✔)
7.3 Insulation of live parts not damaged during erection: (✔)
7.4 Adequacy / security of barriers: (✔)
7.5 Suitability of enclosures for IP and fire ratings: (✔)
7.6 Enclosures not damaged during installation: (✔)
7.7 Presence and effectiveness of obstacles: (✔)
7.8 Presence and operation (functional) check of main switch(es): (✔)
7.9 Components are suitable according to assembly manufacturer's instructions or literature: (✔)
7.10 Operation of circuit-breakers and RCDs to prove functionality: (✔)
7.11 RCD(s) provided for fault protection, where specified: (✔)
7.12 RCD(s) provided for protection against fire, where specified: (✔)
7.13 RCD(s) provided for additional protection, where specified: (✔)
7.14 Confirmation overvoltage protection (SPDs) provided, where specified: (N/A)
7.15 Indication of SPD(s) continued functionality confirmed: (N/A)
7.16 Selection of protective devices(s) and base(s); correct type and rating: (✔)
7.17 Single-pole protective devices in line conductors only: (✔)
7.18 Protection against mechanical damage where cables enter equipment: (✔)
7.19 Protection against electromagnetic effects where cables enter ferromagnetic enclosures: (✔)
7.20 Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure: (✔)
7.21 Presence of RCD six-monthly test notice, where required: (✔)
7.22 Presence of diagrams, charts or schedules at or near each distribution board, where required: (✔)
7.23 Presence of next inspection recommendation label: (✔)
7.24 Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required: (✔)
7.25 Presence of other required labelling: ( )

8. Circuits

8.1 Identification of conductors: (✔)
8.2 Cables correctly supported throughout, with protection against abrasion: (✔)
8.3 Examination of cables for signs of mechanical damage during installation: (✔)
8.4 Examination of installation of live parts, not damaged during erection: (✔)
8.5 Non-sheathed cables protected by enclosure in conduit, ducting or trunking: (✔)
8.6 Suitability of containment systems (including flexible conduit): (✔)
8.7 Correct temperature rating of cable insulation: (✔)
8.8 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation: (✔)
8.9 Adequacy of protective devices: type and fault current rating for fault protection: (✔)
8.10 Adequacy of AFDD(s), where specified: (N/A)
8.11 Presence and adequacy of circuit protective conductors: (✔)
8.12 Coordination between conductors and overload protective devices: (✔)

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Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED

8.13 Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences: (✔)

8.14 Cables concealed under floors, above ceilings, in walls / partitions, adequately protected against damage: (✔)

8.15 Cables installed in walls / partitions, installed in prescribed zones: (✔)

8.16 Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA:

a) For all socket-outlets with a rated current not exceeding 32 A or less, unless exempt (✔)

b) For supplies to mobile equipment with a current rating not exceeding 32 A for use outdoors (✔)

c) For cables concealed in walls / partitions at a depth of less than 50 mm (✔)

d) For cables concealed in walls / partitions containing metal parts regardless of depth (✔)

e) For circuits supplying luminaires within domestic (household) premises only (✔)

8.17 Provision of fire barriers, sealing arrangements so as to minimise the spread of fire: (✔)

8.18 Band II cables segregated / separated from Band I cables: (✔)

8.19 Cables segregated / separated from non-electrical services: (✔)

8.20 Termination of cables at enclosures:

a) Connections under no undue strain (✔)

b) No basic insulation of a conductor visible outside enclosure (✔)

c) Connections of live conductors adequately enclosed (✔)

d) Adequately connected at point of entry to enclosure (✔)

8.21 Suitability of circuit accessories for external influences: (✔)

8.22 Circuit accessories not damaged during erection: (✔)

8.23 Single-pole devices for switching or protection in line conductors only: (✔)

8.24 Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment: (✔)

9. Isolation and switching

9.1 Isolators:

a) Presence and location of appropriate devices (✔)

b) Capable of being secured in the OFF position (✔)

c) Correct operation verified (functional check) (✔)

d The installation, circuit or part thereof that will be isolated is clearly identified by location and / or durable marking (✔)

e) Warning notice posted in situations where live parts cannot be isolated by the operation of a single device (✔)

9.2 Switching off for mechanical maintenance:

a) Presence of appropriate devices (✔)

b) Acceptable location (local or remote) (✔)

c) Capable of being secured in the OFF position (✔)

d) Correct operation verified (functional check) (✔)

e) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (✔)

9.3 Emergency switching / stopping:

a) Presence of appropriate devices (N/A)

b) Readily accessible for operation where danger might occur (N/A)

c) Correct operation verified (functional check) (N/A)

d) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (N/A)

e) Firefighter's switches present, where required: (N/A)

9.4 Functional switching:

a) Presence of appropriate devices (✔)

b) Correct operation verified (functional check) (✔)

10. Current-using equipment (permanently connected)

10.1 Suitability of equipment in terms of IP and fire ratings: (✔)

10.2 Enclosure not damaged / deteriorated during installation so as to impair safety: (✔)

10.3 Suitability for the environment and external influences: (✔)

10.4 Security of fixing: (✔)

10.5 Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire: (✔)

10.6 Recessed luminaires (downlighters):

a) Correct type of lamps fitted (✔)

b) Installed to minimise build-up of heat (✔)

10.7 Provision of undervoltage protection, where specified: (✔)

10.8 Provision of overload protection, where specified: (✔)

10.9 Adequacy of working space / accessibility to equipment: (✔)

11. Special installations or locations

List below any special installations or locations which are part of the installation to be verified, and confirm that the additional requirements given in the respective section of Part 7 are fulfilled:

N/A (N/A)

Details must be appended on a separate numbered page (see PART 10 below)

SCHEDULE OF ITEMS INSPECTED BY

Name (capitals): ADAM GREEN

Signature: AGREEN Date: 16/02/2023

PART 10 : SCHEDULES AND ADDITIONAL PAGES

Schedule of Inspections	Schedule of Circuit Details and Test Results for the installation	Additional pages, including data sheets for additional sources	Special installations or locations *(indicated in item 11 above)*	Continuation sheets
Page No(s): (4 & 5)	Page No(s): (6, 7)	Page No(s): (8)	Page No(s): (None)	Page No(s): (None)

The pages identified are an essential part of this certificate.

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ELECTRICAL INSTALLATION CERTIFICATE

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Original (to the person ordering the work)

PART 11 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing ': .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: N/A

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
														Ring final circuits only (measured end to end)			All circuits (complete at least one column)									
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	(Line) r_1	(Neutral) r_n	(cpc) r_2	(R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
1L1	Shop lighting	A	102		1.5	1	0.4	61009	B	6	10	30	1667				0.44		999	999	250	✔		19.3	✔	
1L2	Spare																									
1L3	Spare																									
2L1	Shop Sockets	A	102		2.5	1.5	0.4	61009	B	20	10	30	1667				1.94		999	999	500	✔		19.5	✔	
2L2	Hand dryer	A	102	1	2.5	1.5	0.4	61009	C	20	10	30	1667				0.24		999	999	500	✔		19.3	✔	
2L3	Water heater	A	102	1	6	2.5	0.4	61009	C	32	10	30	1667				0.28		999	999	500	✔		19.3	✔	
3L1	Disabled alarm	A	102	1	2.5	1.5	0.4	61009	C	20	10	30	1667				0.26		999	999	500	✔		19.3	✔	
3L2	Shop panel heaters	A	102		2.5	1.5	0.4	61009	B	20	10	30	1667				0.83		999	999	500	✔		19.3	✔	
3L3	W/C, Kitchen panel heaters	A	102	2	2.5	1.5	0.4	61009	B	20	10	30	1667				0.81		999	999	500	✔		19.9	✔	
4L1	AC supply	A	E	1	2.5	1.5	0.4	61009	C	20	10	30	1667				0.35		999	999	500	✔		19.5	✔	
4L2	Lift supply	A	B	1	2.5	1.5	0.4	60898	D	10	10		500				0.16		999	999	500	✔				
4L3	Lift outlets	A	B	1	2.5	1.5	0.4	61009	B	20	10	30	1667				0.12		999	999	500	✔		19.3	✔	
5L1	Shop access control	A	E	1	2.5	1.5	0.4	61009	B	20	10	30	1667				0.46		999	999	500	✔		19.3	✔	
5L2	Kitchen sockets	A	102	4	2.5	1.5	0.4	61009	B	20	10	30	1667				0.65		999	999	500	✔		19.7	✔	
5L3	Spare																									
6L1	Spare																									
6L2	Spare																									
6L3	Spare																									

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DB GG Shop

Location of DB: GG Shop Store

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: AGREEN

Date: 16/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (DBGG1 14TP) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60898) Rating: (63) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.64) Ω I_{pf} (0.6) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This certificate is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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NICEIC APPROVED CONTRACTOR

TNA

This continuation sheet is not valid if the serial number is not the same as the corresponding certificate or report. **26837155** **ISN18C**

CONTINUATION SHEET:
ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

ICN / ~~XXX~~ : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing :

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: N/A

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
														Ring final circuits only (measured end to end)			All circuits (complete at least one column)									
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	(Line) r_1	(Neutral) r_n	(cpc) r_2	$(R_1 + R_2)$	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
7L1	Spare																									
7L2	Spare																									
7L3	Spare																									
8L1	Spare																									
8L2	Spare																									
8L3	Spare																									
9L1	Spare																									
9L2	Spare																									
9L3	Spare																									
10L1	Spare																									
10L2	Spare																									
10L3	Spare																									
11L1	Spare																									
11L2	Spare																									
11L3	Spare																									
12L1	Spare																									
12L2	Spare																									
12L3	Spare																									

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

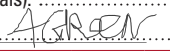
DB designation: DB GG Shop

Location of DB: GG Shop Store

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: 

Date: 16/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (DBGG1 14TP) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60898) Rating: (63) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.64) Ω I_{pf} (0.6) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This form is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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Original (to the person ordering the work)

NOTES

Basic and fault protection

Shaver sockets installed to Girl Guides apartment.

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NOTES FOR RECIPIENT

THIS CERTIFICATE IS AN IMPORTANT AND VALUABLE DOCUMENT WHICH SHOULD BE RETAINED FOR FUTURE USE

If you were the person ordering the work, but not the user of the installation, you should pass this certificate, or a full copy of it including these notes, the schedules and additional pages (if any), immediately to the user.

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected, tested and verified in accordance with the national standard for the safety of electrical installations, *BS 7671: 2018 (as amended) - Requirements for Electrical Installations* (the IET Wiring Regulations).

Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested every six months. For safety reasons it is important that this instruction is followed.

Also for safety reasons, the complete electrical installation will need to be inspected and tested at appropriate intervals by a skilled person or persons competent in such work. NICEIC* recommends that you engage the services of an NICEIC Approved Contractor for this purpose. The maximum interval recommended before the next inspection is stated in PART 3. There should be a notice at or near the main switchboard or distribution board indicating the date when the next inspection is due.

Only an NICEIC Approved Contractor or Conforming Body responsible for the construction of the electrical installation is authorised to issue this NICEIC Electrical Installation Certificate.

The certificate, which consists of at least six numbered pages, is only valid if accompanied by the *Schedule of Items Inspected* and the *Schedule of Circuit Details and Test Results*. The certificate has a printed serial number which is traceable to the Contractor to which it was supplied.

For installations having more than one distribution board (or consumer unit) or more circuits than can be recorded on Page 6, one or more additional *Schedules of Circuit Details and Test Results*, should form part of the certificate.

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, or for the replacement of a distribution board (or consumer unit). It should not have been issued for the inspection of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such a periodic inspection.

This certificate should not have been issued for electrical work in a potentially explosive atmosphere (hazardous area) unless the Approved Contractor holds an appropriate extension to their NICEIC registration for such work.

You should have received the certificate marked 'Original' and the Approved Contractor should have retained the certificate marked 'Duplicate'.

The 'Original' certificate should be retained in a safe place and shown to any skilled 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 user 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.

Page 1 and 2 of this certificate provide details of the electrical installation, together with the name(s) and signature(s) of the person(s) certifying the three elements of installation work: design, construction and inspection and testing, and page 3 identifies the organisation(s) responsible for the work certified by their representative(s).

Certification for inspection and testing provides an assurance that the electrical installation work has been fully inspected and tested, and that the electrical work has been carried out in accordance with the requirements of *BS 7671: 2018* (as amended) (except for any departures sanctioned by the designer and appended to the certificate).

Where responsibility for the design, the construction and the inspection and testing of the electrical work is divided between the Approved Contractor and one or more other bodies, the division of responsibility should have been established and agreed before commencement of the work. In such a case, NICEIC considers that the absence of certification for the construction, or the inspection and testing elements of the work would render the certificate invalid. If the design section of the certificate has not been completed, NICEIC recommends that you question why those responsible for the design have not certified that this important element of the work is in accordance with *BS 7671*.

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems) in accordance with British Standards *BS 5839* and *BS 5266* respectively, this electrical safety certificate should be accompanied by a separate certificate or certificates as prescribed by those standards.

Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, an additional page should have been provided which gives the relevant information relating to each additional source, and to the associated earthing arrangements and main switchgear.

Should the person ordering the work (e.g. the client, as identified on Page 1 of this certificate), have reason to believe that any element of the work for which the Approved Contractor has accepted responsibility (as indicated by the signatures on this certificate) does not comply with *BS 7671: 2018* (as amended), the client should in the first instance raise the specific concerns in writing with the Approved Contractor. If the concerns remain unresolved, the client may make a formal complaint to NICEIC, for which purpose a standard complaint form is available on request.

The complaints procedure offered by NICEIC is subject to certain terms and conditions, full details of which are available upon application. NICEIC does not investigate complaints relating to the operational performance of electrical installations (such as lighting levels), or to contractual or commercial issues (such as time or cost).

** NICEIC is operated by Certsure LLP, a partnership between the Electrical Contractors' Association and the charity, Electrical Safety First. NICEIC maintains and publishes registers of electrical contractors that it has assessed against particular scheme requirements (including the technical standard of electrical work).*

For further information about electrical safety and how NICEIC can help you, visit **www.niceic.com**

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NICEIC APPROVED CONTRACTOR

TNA

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 1 : DETAILS OF THE CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR

Registration No: 502605000 Branch No*: 000

Trading Title: TNA Electrical Ltd

Address: Unit 13 Heritage Park, Hayes Way, Cannock, Staffordshire

Postcode: WS11 7LT Tel No: 01543 425349

DETAILS OF THE CLIENT

Contractor Reference Number (CRN): E468

Name: Holloway Head Girl Guides.

Address: Winvic Construction Ltd, 19 Tenter Road, Moulton Park Industrial Estate, Northampton,

Postcode: NN3 6PZ Tel No: N/A

DETAILS OF THE INSTALLATION

Occupier: Girl Guides

Address: Trefoil House, 2 Ellis Street, Birmingham, West Midlands

Postcode: B1 1HL Tel No: N/A

PART 2 : DETAILS OF THE ELECTRICAL WORK COVERED BY THIS INSTALLATION CERTIFICATE

Date works completed: 09/02/2023

The installation is –

New: (✔)

An addition: (N/A)

An alteration: (N/A)

Replacement of a distribution board: (N/A)

Description and extent of the installation covered by this certificate:

Complete new install to Girl Guides premises including band 1 and 2 cables up to 230v.

Where necessary, continue on a separate numbered page: Page No(s) (N/A)

PART 3 : NEXT INSPECTION OF THE ELECTRICAL INSTALLATION

I/We, being the designer(s) of the electrical installation as documented in PART 4, RECOMMEND that this installation is further inspected and tested after an interval of not more than: 5 years/~~months~~** *(delete as appropriate)*

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(this option may be used where the design, construction, inspection & testing have been the responsibility of one person)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the design, construction, inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, hereby CERTIFY that the design, construction, inspection and testing for which I have been responsible is to the best of my knowledge and belief in accordance with *BS 7671: 2018*, amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): ~~YES~~/NA Risk assessment attached: (N/A) Page No(s) (N/A)

• Where selectivity is required, details of the verification appended (536.4): (N/A) Page No(s) (N/A)

Name (capitals): N/A Signature: Date:

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): N/A Signature: Date:

*Where applicable

** *The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.*

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Please see the 'Notes for Recipient'

NICEIC APPROVED CONTRACTOR

TNA

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(to be completed where different parties are responsible for the design, construction, inspection & testing)*

DESIGN *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I/We being the person(s) responsible for the design of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, 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 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): ~~Yes~~/NA Risk assessment attached: (N/A) Page No(s) (N/A) • Where selectivity is required, details of the verification appended (536.4): (N/A) Page No(s) (N/A)

DESIGNER 1 Name (capitals): GARRY CARTER Signature: G Carter Date: 09/02/2023

DESIGNER 2 ***(where there is divided responsibility for design)*** Name (capitals): N/A Signature: Date:

CONSTRUCTION *(The extent of liability of the signatory is limited to the work detailed in PART 2)*

I, being the person responsible for the construction of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018,* amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3 and 133.5).

Name (capitals): TNA ELECTRICAL Signature: TNA Date: 09/02/2023

INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018*, amended to 2020 (date) except for the departures, if any, detailed on attached page(s) (N/A) (Regulations 120.3 and 133.5).

Name (capitals): ADAM GREEN Signature: AGREEN Date: 09/02/2023

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): NEIL JONES Signature: N Jones Date: 09/02/2023

PART 5 : COMMENTS ON THE EXISTING INSTALLATION *(in the case of an addition or alteration see Regulation 644.1.2)*

None

Where necessary, continue on a separate numbered page: Page No(s) (N/A)

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

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NICEIC APPROVED CONTRACTOR

TNA

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 6 : DETAILS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION *(signatures of which are in PART 4)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING

Organisation: N/A
Registration No*: N/A
Branch No*: N/A
Address:
Postcode:
Tel No:

DESIGN

DESIGNER 1

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire
Postcode: WS11 7LT
Tel No:

DESIGNER 2

Organisation: N/A
Registration No*: N/A
Branch No*: N/A
Address:
Postcode:
Tel No:

CONSTRUCTION

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire
Postcode: WS11 7LT
Tel No: 01543 425349

INSPECTION & TESTING

Organisation: TNA Electrical Ltd
Registration No*: 502605000
Branch No*: 000
Address: Unit 13 Heritage Park, Hayes Way Cannock Staffordshire, Cardiff
Postcode: WS11 7LT
Tel No: 01543 425349

PART 7 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements

TN-C-S: (N/A) TN-S: (N/A) TT: (✔)
Other *(state)*: N/A

Supply protective device

(BS (EN) 60947-2)
Type: ( ) Rated current: (125) A

Number and type of live conductors

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

Confirmation of supply polarity: (✔)
Other sources of supply *(as detailed on attached schedule)* Page No:(N/A)

Nature of supply parameters

Nominal line voltage, U (1): (400) V
Nominal line voltage to Earth, U_0 (1): (230) V
Nominal frequency, f (1): (50) Hz
Prospective fault current, I_{pf} (1)**: (0.78) kA
External loop impedance, Z_e (1)**: (0.61) Ω

(1) *By enquiry, measurement, or by calculation*

PART 8 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand (load): (200) ~~kVA~~ / A *(delete as appropriate)*

Means of Earthing

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

Where an earth electrode is used insert

Type – rod(s), tape, etc: (Earth Rod)
Location: (Adjacent to Generator)
Electrode resistance to Earth: (99.9) Ω

Main protective conductors

Earthing conductor:
(material Copper csa 16 mm²)
Connection / continuity verified: (✔)

Main protective bonding conductors:
(material Copper csa 16 mm²)
Connection / continuity verified: (✔)

Main protective bonding connections

Water installation pipes: (✔)
Gas installation pipes: (NA)
Structural steel: (NA)
Oil installation pipes: (NA)
Lightning protection: (NA)
Other *(state)*: N/A

Main switch / Switch-fuse / Circuit-breaker / RCD

Type: (BS (EN) 61009)
Location: (Adjacent to Generator)
No. of poles: (4)
Current rating: (100) A
Rating / setting of device: (N/A) A
Voltage rating: (400) V

Where an RCD is used as the main switch

RCD rated residual operating current, $I_{\Delta n}$: (100) mA
Measured operating time: (40.1) ms
Rated time delay: (N/A) ms

**Where applicable*

*** Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, I_{pf}, and external earth fault loop impedance, Z_e, must be recorded.*

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED – continues on next page

1. External condition of electrical intake equipment (visual inspection only)

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. Parallel or switched alternative sources of supply

2.1 Presence of adequate arrangements where generator to operate as a switched alternative:
- a) Dedicated earthing arrangement independent of that of the public supply (N/A)

2.2 Presence of adequate arrangements where generator to operate in parallel with public supply:
- a) Correct connection of generator in parallel (N/A)
- b) Compatibility of characteristics of means of generation (N/A)
- c) Means to provide automatic disconnection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values (N/A)
- d) Means to prevent connection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values (N/A)
- e) Means to isolate generator from public supply (N/A)

2.3 Presence of alternative / additional supply warning notices at or near:
- a) The origin (N/A)
- b) The meter position, if remote from origin (N/A)
- c) The consumer unit / distribution board to which the alternative / additional sources are connected (N/A)
- d) All points of isolation of ALL sources of supply (N/A)

3. Automatic disconnection of supply

3.1 Presence and adequacy of protective earthing / bonding arrangements as follows:
- a) Distributor's earthing arrangement or installation earth electrode arrangement (✔)
- b) Earthing conductor and connections (✔)
- c) Main protective bonding conductors and connections (✔)
- d) Earthing / bonding labels at all appropriate locations ( )

3.2 Accessibility of:
- a) Earthing conductor connections (✔)
- b) All protective bonding connections (✔)

3.3 FELV – requirements satisfied: (N/A)
3.4 Reduced low voltage – requirements satisfied: (✔)

4. Additional protection

4.1 The presence and effectiveness of additional protection methods used, as follows:
- a) RCDs not exceeding 30 mA operating current, as specified (✔)
- b) Supplementary bonding (N/A)

5. Basic protection *(‡ For use in controlled / supervised conditions only)*

5.1 Presence and adequacy of protective measures to provide basic protection:
- a) Insulation of live parts (✔)
- b) Barriers or enclosures (✔)
- c) Obstacles ‡ (✔)
- d) Placing out of reach ‡ (✔)

6. Basic and fault protection

- a) SELV (N/A)
- b) PELV (N/A)
- c) Double or reinforced insulation (✔)

When used, provide details on a separate numbered page: Page No (N/A)

7. Distribution equipment

7.1 Adequacy of working space / accessibility: (✔)
7.2 Security of fixing: (✔)
7.3 Insulation of live parts not damaged during erection: (✔)
7.4 Adequacy / security of barriers: (✔)
7.5 Suitability of enclosures for IP and fire ratings: (✔)
7.6 Enclosures not damaged during installation: (✔)
7.7 Presence and effectiveness of obstacles: (✔)
7.8 Presence and operation (functional) check of main switch(es): (✔)
7.9 Components are suitable according to assembly manufacturer's instructions or literature: (✔)
7.10 Operation of circuit-breakers and RCDs to prove functionality: (✔)
7.11 RCD(s) provided for fault protection, where specified: (✔)
7.12 RCD(s) provided for protection against fire, where specified: (✔)
7.13 RCD(s) provided for additional protection, where specified: (✔)
7.14 Confirmation overvoltage protection (SPDs) provided, where specified: (N/A)
7.15 Indication of SPD(s) continued functionality confirmed: (N/A)
7.16 Selection of protective devices(s) and base(s); correct type and rating: (✔)
7.17 Single-pole protective devices in line conductors only: (✔)
7.18 Protection against mechanical damage where cables enter equipment: (✔)
7.19 Protection against electromagnetic effects where cables enter ferromagnetic enclosures: (✔)
7.20 Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure: (✔)
7.21 Presence of RCD six-monthly test notice, where required: (✔)
7.22 Presence of diagrams, charts or schedules at or near each distribution board, where required: (✔)
7.23 Presence of next inspection recommendation label: (✔)
7.24 Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required: (✔)
7.25 Presence of other required labelling: ( )

8. Circuits

8.1 Identification of conductors: (✔)
8.2 Cables correctly supported throughout, with protection against abrasion: (✔)
8.3 Examination of cables for signs of mechanical damage during installation: (✔)
8.4 Examination of installation of live parts, not damaged during erection: (✔)
8.5 Non-sheathed cables protected by enclosure in conduit, ducting or trunking: (✔)
8.6 Suitability of containment systems (including flexible conduit): (✔)
8.7 Correct temperature rating of cable insulation: (✔)
8.8 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation: (✔)
8.9 Adequacy of protective devices: type and fault current rating for fault protection: (✔)
8.10 Adequacy of AFDD(s), where specified: (N/A)
8.11 Presence and adequacy of circuit protective conductors: (✔)
8.12 Coordination between conductors and overload protective devices: (✔)

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED

8.13 Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences: (✔)

8.14 Cables concealed under floors, above ceilings, in walls / partitions, adequately protected against damage: (✔)

8.15 Cables installed in walls / partitions, installed in prescribed zones: (✔)

8.16 Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA:

a) For all socket-outlets with a rated current not exceeding 32 A or less, unless exempt (✔)

b) For supplies to mobile equipment with a current rating not exceeding 32 A for use outdoors (✔)

c) For cables concealed in walls / partitions at a depth of less than 50 mm (✔)

d) For cables concealed in walls / partitions containing metal parts regardless of depth (✔)

e) For circuits supplying luminaires within domestic (household) premises only (✔)

8.17 Provision of fire barriers, sealing arrangements so as to minimise the spread of fire: (✔)

8.18 Band II cables segregated / separated from Band I cables: (✔)

8.19 Cables segregated / separated from non-electrical services: (✔)

8.20 Termination of cables at enclosures:

a) Connections under no undue strain (✔)

b) No basic insulation of a conductor visible outside enclosure (✔)

c) Connections of live conductors adequately enclosed (✔)

d) Adequately connected at point of entry to enclosure (✔)

8.21 Suitability of circuit accessories for external influences: (✔)

8.22 Circuit accessories not damaged during erection: (✔)

8.23 Single-pole devices for switching or protection in line conductors only: (✔)

8.24 Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment: (✔)

9. Isolation and switching

9.1 Isolators:

a) Presence and location of appropriate devices (✔)

b) Capable of being secured in the OFF position (✔)

c) Correct operation verified (functional check) (✔)

d The installation, circuit or part thereof that will be isolated is clearly identified by location and / or durable marking (✔)

e) Warning notice posted in situations where live parts cannot be isolated by the operation of a single device (✔)

9.2 Switching off for mechanical maintenance:

a) Presence of appropriate devices (✔)

b) Acceptable location (local or remote) (✔)

c) Capable of being secured in the OFF position (✔)

d) Correct operation verified (functional check) (✔)

e) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (✔)

9.3 Emergency switching / stopping:

a) Presence of appropriate devices (N/A)

b) Readily accessible for operation where danger might occur (N/A)

c) Correct operation verified (functional check) (N/A)

d) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (N/A)

e) Firefighter's switches present, where required: (N/A)

9.4 Functional switching:

a) Presence of appropriate devices (✔)

b) Correct operation verified (functional check) (✔)

10. Current-using equipment (permanently connected)

10.1 Suitability of equipment in terms of IP and fire ratings: (✔)

10.2 Enclosure not damaged / deteriorated during installation so as to impair safety: (✔)

10.3 Suitability for the environment and external influences: (✔)

10.4 Security of fixing: (✔)

10.5 Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire: (✔)

10.6 Recessed luminaires (downlighters):

a) Correct type of lamps fitted (✔)

b) Installed to minimise build-up of heat (✔)

10.7 Provision of undervoltage protection, where specified: (✔)

10.8 Provision of overload protection, where specified: (✔)

10.9 Adequacy of working space / accessibility to equipment: (✔)

11. Special installations or locations

List below any special installations or locations which are part of the installation to be verified, and confirm that the additional requirements given in the respective section of Part 7 are fulfilled:

Shower rooms (✔)

( ) ( )

( ) ( )

( ) ( )

( ) ( )

Details must be appended on a separate numbered page (see PART 10 below)

SCHEDULE OF ITEMS INSPECTED BY

Name (capitals): ADAM GREEN

Signature: A GREEN Date: 04/02/2023

PART 10 : SCHEDULES AND ADDITIONAL PAGES

Schedule of Inspections	Schedule of Circuit Details and Test Results for the installation	Additional pages, including data sheets for additional sources	Special installations or locations *(indicated in item 11 above)*	Continuation sheets
Page No(s): 4 & 5	Page No(s): 6, 7-11	Page No(s): None	Page No(s): 12	Page No(s): None

The pages identified are an essential part of this certificate.

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Original (to the person ordering the work)

PART 11 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing ': .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: N/A

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	Ring final circuits only (measured end to end) (Line) r_1	(Neutral) r_n	(cpc) r_2	All circuits (complete at least one column) (R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
1L1	Hot water heater 1 LG WC	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.37		999	999	250	✔	0.72	19.3	✔	
1L2	Hot water heater 2 LG	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.41		999	999	250	✔	0.76	19.3	✔	
1L3	Hot water heater 3 LG	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.37		999	999	250	✔	0.72	19.3	✔	
2L1	Office/ common room sockets LG	A	102	10	4	1.5	0.4	61009	B	20	10	30	1667				1.76		999	999	500	✔	2.12	19.3	✔	
2L2	Security and cc office sockets LG	A	102	9	4	1.5	0.2	61009	B	20	10	30	1667				1.17		999	999	500	✔	1.52	19.3	✔	
2L3	Main hall sockets LG	A	102	9	4	1.5	0.2	61009	B	16	10	30	1667				2.64		999	999	500	✔	2.99	19.5	✔	
3L1	Kitchen hob LG	A	102	1	10	4	0.2	61009	B	32	10	30	1667				0.39		999	999	500	✔	0.74	19.5	✔	
3L2	Kitchen hand dryers	A	102	2	4	1.5	0.2	61009	B	20	10	30	1667				0.77		999	999	500	✔	1.12	19.5	✔	
3L3	Kitchen Sockets LG	A	102	9	4	1.5	0.2	61009	B	32	10	30	1667	0.55	0.56	1.20	0.85		999	999	500	✔	1.20	19.7	✔	
4L1	WC hand dryer 1 LG	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.57		999	999	500	✔	0.92	19.7	✔	
4L2	WC hand dryer 2 LG	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.72		999	999	500	✔	1.07	19.5	✔	
4L3	WC Hand dryer 3 LG	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.65		999	999	500	✔	1.00	19.3	✔	
5L1	Cleaners sockets LG	A	102	5	4	1.5	0.2	61009	B	20	10	30	1667				1.06		999	999	500	✔	1.41	19.3	✔	
5L2	WC panel heaters	A	102	6	4	1.5	0.2	61009	B	20	10	30	1667				1.34		999	999	500	✔	1.69	19.5	✔	
5L3	Corridor panel heaters/ sockets	A	102	2	4	1.5	0.2	61009	B	20	10	30	1667				0.64		999	999	500	✔	0.99	19.7	✔	
6L1	Corridor/kitchen panel heaters	A	102	4	4	1.5	0.2	61009	B	20	10	30	1667				1.67		999	999	500	✔	2.02	19.3	✔	
6L2	Hot water heater 4 LG kitchen	A	102	1	10	4	0.2	61009	B	40	10	30	1667				0.37		999	999	500	✔	0.72	19.3	✔	
6L3	Hot water heater 5 LG wc	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.38		999	999	250	✔	0.73	19.3	✔	

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DBGG1

Location of DB: Girl Guides plant room

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: AGREEN

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (ELU Mains TBS) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (200) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.35) Ω I_{pf} (0.8) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This certificate is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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CONTINUATION SHEET:
ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

ICN / ~~XXX~~ : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing : .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: N/A

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	Ring final circuits only (measured end to end) (Line) r_1	(Neutral) r_n	(cpc) r_2	All circuits (complete at least one column) (R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
7L1	Hot water heater 6 LG wc	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.40		999	999	250	✔	0.75	19.5	✔	
7L2	Spare																									
7L3	Main hall sockets	A	102	10	4	1.5	0.2	61009	B	20	10	30	1667				1.36		999	999	500	✔	1.71	19.7	✔	
8L1	FCU / BC box LG	A	E	1	4	1.5	0.2	61009	B	20	10	30	1667				0.94		999	999	500	✔	1.29	19.3	✔	
8L2	Hot water heater 7 LG wc	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.41		999	999	500	✔	0.76	19.3	✔	
8L3	Corridor cleaners sockets LG	A	102	7	4	1.5	0.2	61009	B	16	10	30	1667				2.64		999	999	500	✔	2.99	19.3	✔	
9L1	Hot water heater 8 LG cleaners store	A	102	1	10	4	0.2	61009	B	45	10	30	1667				0.33		999	999	250	✔	0.68	19.3	✔	
9L2	Hot water heater 9 LG mz-ac shower	A	102	1	10	4	0.2	61009	B	45	10	30	1667				0.21		999	999	250	✔	0.56	19.3	✔	
9L3	Hot water heater 10 kitchenette	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.49		999	999	250	✔	0.84	19.3	✔	
10L1	WC hand dryers mezz	A	102	2	4	1.5	0.2	61009	B	20	10	30	1667				0.92		999	999	500	✔	1.27	19.3	✔	
10L2	Hot water heater 11 mezz shower	A	102	1	10	4	0.2	61009	B	45	10	30	1667				0.36		999	999	250	✔	0.71	19.3	✔	
10L3	Hot water heater 12 mezz shower	A	102	1	10	4	0.2	61009	B	45	10	30	1667				0.35		999	999	250	✔	0.70	19.3	✔	
11L1	Hot water heater 13 mezz wc	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.53		999	999	250	✔	0.88	19.3	✔	
11L2	Hot water heater 14 mezz ac wc	A	102	1	6	2.5	0.2	61009	B	32	10	30	1667				0.57		999	999	250	✔	0.92	19.3	✔	
11L3	Activity 1 sockets	A	102	6	4	1.5	0.2	61009	B	20	10	30	1667				1.13		999	999	500	✔	1.48	19.3	✔	
12L1	Activity 2 sockets	A	102	7	4	1.5	0.2	61009	B	20	10	30	1667				1.74		999	999	500	✔	2.09	19.5	✔	
12L2	Activity 3 sockets	A	102	6	4	1.5	0.2	61009	B	20	10	30	1667				1.34		999	999	500	✔	1.69	19.5	✔	
12L3	MVHR supplies LG	A	102	8	4	1.5	0.2	61009	B	20	10	30	1667				1.39		999	999	500	✔	1.74	19.7	✔	

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DBGG1

Location of DB: Girl Guides plant room

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: .....

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (ELU Mains TBS) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (200) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.35) Ω I_{pf} (0.8) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This form is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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CONTINUATION SHEET:
ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

ICN / ~~XXX~~ : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing :

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: N/A

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
														Ring final circuits only (measured end to end)			All circuits (complete at least one column)									
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	(Line) r_1	(Neutral) r_n	(cpc) r_2	(R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
13L1	DDS/projector, clocks mezz 01/02	A	102	18	4	1.5	0.2	61009	B	20	10	30	1667				0.78		999	999	500	✔	1.13	19.5	✔	
13L2	FCU supply mezz 01/02/03	A	102	10	4	1.5	0.2	61009	B	20	10	30	1667				0.88		999	999	500	✔	1.23	19.5	✔	
13L3	Spare																									
14TP	GG Shop DB TP	G	E	1			1	60898	C	63	10		500				0.29		999	999	500	✔	0.64			
14L2	GG Shop DB TP																									
14L3	GG Shop DB TP																									
15L1	GG Apartment supply	G	E	1	16	16	1	60898	C	63	10		500				0.12		999	999	500	✔	0.47			
15L2	Spare																									
15L3	Spare																									
16L1	Spare																									
16L2	Spare																									
16L3	Spare																									
17L1	Spare																									
17L2	Spare																									
17L3	Spare																									
18TP	3 phase temp supply metre	F	B	1	4	4	0.2	60898	C	10	10		500				0.03		999	999	500	✔	0.38			
18L2	Spare																									
18L3	Spare																									

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DBGG1

Location of DB: Girl Guides plant room

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature:

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (ELU Mains TBS) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (200) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.35) Ω I_{pf} (0.8) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This form is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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CONTINUATION SHEET:
ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

ICN / ~~XXX~~ : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing : .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: FP200 Enhanced

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	Ring final circuits only (measured end to end) (Line) r_1	(Neutral) r_n	(cpc) r_2	All circuits (complete at least one column) (R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
1L1	Plant, common, sec, office lighting LG	A	102	9	2.5	1.5	0.2	61009	C	10	10	30	1667				1.53		999	999	250	✔	1.88	19.3	✔	
1L2	Reception office, wc lighting LG	A	102	11	2.5	1.5	0.2	61009	B	10	10	30	1667				1.81		999	999	250	✔	2.16	19.3	✔	
1L3	Main hall, corridor lighting	A	102	19	2.5	1.5	0.2	61009	B	10	10	30	1667				2.10		999	999	250	✔	2.45	19.5	✔	
2L1	Mezz, stair corridor lighting	A	102	12	2.5	1.5	0.2	61009	B	10	10	30	1667				0.78		999	999	250	✔	1.13	19.5	✔	
2L2	Mezz activity 1,2 lighting	A	102	4	2.5	1.5	0.2	61009	B	10	10	30	1667				1.51		999	999	250	✔	1.86	19.5	✔	
2L3	Mezz activity 3, cleaners cup lighting	A	102	2	2.5	1.5	0.2	61009	B	10	10	30	1667				0.82		999	999	250	✔	1.17	19.3	✔	
3L1	Mezz shower room lighting	A	102	7	2.5	1.5	0.2	61009	B	10	10	30	1667				0.88		999	999	250	✔	1.23	19.7	✔	
3L2	Dis/refuge, WC alarm LG	O	102	3	4	1.5	0.2	61009	B	20	10	30	1667				0.69		999	999	500	✔	1.03	19.7	✔	
3L3	Girl Guides access control	A	102	2	4	1.5	0.2	61009	B	20	10	30	1667				1.06		999	999	500	✔	1.41	19.3	✔	
4L1	Secretary, CC office intercom LG	A	102	3	4	1.5	0.2	61009	B	20	10	30	1667				1.09		999	999	500	✔	1.44	19.3	✔	
4L2	Mezz lobby, stair lift access control	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.89		999	999	500	✔	1.24	19.5	✔	
4L3	induction loop supplies LG	A	102	5	4	1.5	0.2	61009	B	10	10	30	1667				3.08		999	999	500	✔	3.42	19.3	✔	
5L1	Kitchen/common room shutter	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.57		999	999	500	✔	0.92	19.7	✔	
5L2	DDS/ projector, electric clock LG	A	102	11	4	1.5	0.2	61009	B	20	10	30	1667				1.50		999	999	500	✔	1.85	19.3	✔	
5L3	Twin sockets USB LG	A	102	11	4	1.5	0.2	61009	B	10	10	30	1667				3.04		999	999	500	✔	3.39	19.3	✔	
6L1	Cleaners, USB sockets Mezz	A	102	4	4	1.5	0.2	61009	B	20	10	10	1667				1.68		999	999	500	✔	2.02	19.5	✔	
6L2	LG blinds	A	E	2	4	1.5	0.2	61009	B	20	10	30	1667				0.73		999	999	500	✔	1.08	19.5	✔	
6L3	Main hall blinds	A	E	10	4	1.5	0.2	61009	B	20	10	30	1667				1.01		999	999	500	✔	1.36	19.7	✔	

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DBGG2

Location of DB: Girl Guides plant room

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: .....

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (ELU Mains TBS) Nominal voltage: (N/A) V No. of phases: (N/A)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (200) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.35) Ω I_{pf} (0.8) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This form is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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CONTINUATION SHEET:
ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

ICN / ~~XXX~~ : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing : .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: FP200 Enhanced

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	Ring final circuits only (measured end to end) (Line) r_1	(Neutral) r_n	(cpc) r_2	All circuits (complete at least one column) (R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
7L1	Mezz blinds	A	E	10	4	1.5	0.2	61009	B	20	10	30	1667				1.93		999	999	500	✔	2.28	19.5	✔	
7L2	Mezz kitchen sockets	A	102	5	4	1.5	0.2	61009	B	32	10	30	1667	0.49	0.48	1.13	0.79		999	999	500	✔	1.14	19.5	✔	
7L3	Mezz kitchen cooker supply	A	102	1	10	4	0.2	61009	B	45	10	30	1667				0.40		999	999	500	✔	0.75	19.3	✔	
8L1	Fire alarm panel reception	O	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.68		999	999	500	✔	1.03	19.7	✔	
8L2	Spare																									
8L3	Intruder alarm LG/Mezz	A	102	3	4	1.5	0.2	61009	B	16	10	30	1667				1.69		999	999	500	✔	2.04	19.3	✔	
9L1	Spare																									
9L2	Spare																									
9L3	Spare																									
10L1	Data Cab supply	A	B	1	2.5	1.5	0.2	61009	B	16	10	30	1667				0.27		999	999	500	✔	0.62	19.3	✔	
10L2	AC controller supply	A	B	1	2.5	1.5	0.2	61009	B	20	10	30	1667				0.19		999	999	500	✔	0.54	19.5	✔	
10L3	Spare																									
11L1	Spare																									
11L2	Sare																									
11L3	Spare																									
12L1	Spare																									
12L2	Spare																									
12L3	Spare																									

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DBGG2

Location of DB: Girl Guides plant room

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: .....

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (ELU Mains TBS) Nominal voltage: (N/A) V No. of phases: (N/A)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (200) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.35) Ω I_{pf} (0.8) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

This form is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (N/A)

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CONTINUATION SHEET:
ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

ICN / ~~XXX~~ : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing : .....

CODES for Type of wiring (A) Thermoplastic insulated / sheathed cables (B) Thermoplastic cables in metallic conduit (C) Thermoplastic cables in non-metallic conduit (D) Thermoplastic cables in metallic trunking (E) Thermoplastic cables in non-metallic trunking (F) Thermoplastic / SWA cables (G) Thermosetting / SWA cables (H) Mineral-insulated cables (O) other - state: FP200 Enhanced

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (*BS 7671*)	Number of points served	Circuit conductor csa		Max. disconnection time (*BS 7671*)	Protective device				RCD	Maximum permitted Z_s for installed protective device*	Circuit impedances (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Z_s	RCD operating time	Test buttons	
					Live (mm^2)	cpc (mm^2)	(s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	(Ω)	Ring final circuits only (measured end to end) (Line) r_1	(Neutral) r_n	(cpc) r_2	All circuits (complete at least one column) (R_1+R_2)	R_2	Live / Live (MΩ)	Live / Earth (MΩ)	Test voltage DC (V)	(✓)	(Ω)	(ms)	RCD (✓)	AFDD (✓)
13L1	Spare																									
13L2	Spare																									
13L3	Spare																									
14L1	Spare																									
14L2	AC Condencer unit 3 CP	G	102	1	4	4	0.2	61009	B	25	10	30	1667				0.40		999	999	500	✔	0.75	19.3	✔	
14L3	Spare																									
15TP	AC Conencer unit 1 CP	G	102	1	16	Arm	1	60898	B	63	10		1667				0.29		999	999	500	✔	0.64			
16TP	AC Conencer unit 1 CP	G	102	1	4	Arm	0.2	60898	B	16	10		1667				0.60		999	999	500	✔	0.95			
17L1	MVHR and Extract	A	102	4	4	1.5	0.2	61009	B	20	10	30	1667				0.80		999	999	500		1.25	19.5	✔	
17L2	Platform lift	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.51		999	999	500	✔	0.68	19.3	✔	
17L3	Stair lift	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				1.20		999	999	500	✔	1.55	19.3	✔	
18L1	Spare																									
18L2	Platform lift supply	A	102	1	4	1.5	0.2	61009	B	20	10	30	1667				0.87		999	999	500	✔	1.22	19.7	✔	
18L3	Platform lift oil heater	A	102	1	4	1.5	0.2	61009	B	16	10	30	1667				0.86		999	999	500	✔	1.21	19.7	✔	

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DBGG2

Location of DB: Girl Guides plant room

TESTED BY

Name (capitals): ADAM GREEN

Position: Electrical Tester

Signature: .....

Date: 09/02/2023

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: (ELU Mains TBS) Nominal voltage: (N/A) V No. of phases: (N/A)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (200) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) $I_{\Delta n}$ ( ) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✔) Phase sequence confirmed (where appropriate): (✔) Z_s (0.35) Ω I_{pf} (0.8) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (5156127)

Continuity: (N/A)

Insulation resistance: (N/A)

Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A)

RCD: (N/A)

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NOTES

Shower rooms	Additional protection provided by means of RCD protection.	✔

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NOTES FOR RECIPIENT

THIS CERTIFICATE IS AN IMPORTANT AND VALUABLE DOCUMENT WHICH SHOULD BE RETAINED FOR FUTURE USE

If you were the person ordering the work, but not the user of the installation, you should pass this certificate, or a full copy of it including these notes, the schedules and additional pages (if any), immediately to the user.

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected, tested and verified in accordance with the national standard for the safety of electrical installations, *BS 7671: 2018 (as amended) - Requirements for Electrical Installations* (the IET Wiring Regulations).

Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested every six months. For safety reasons it is important that this instruction is followed.

Also for safety reasons, the complete electrical installation will need to be inspected and tested at appropriate intervals by a skilled person or persons competent in such work. NICEIC* recommends that you engage the services of an NICEIC Approved Contractor for this purpose. The maximum interval recommended before the next inspection is stated in PART 3. There should be a notice at or near the main switchboard or distribution board indicating the date when the next inspection is due.

Only an NICEIC Approved Contractor or Conforming Body responsible for the construction of the electrical installation is authorised to issue this NICEIC Electrical Installation Certificate.

The certificate, which consists of at least six numbered pages, is only valid if accompanied by the *Schedule of Items Inspected* and the *Schedule of Circuit Details and Test Results*. The certificate has a printed serial number which is traceable to the Contractor to which it was supplied.

For installations having more than one distribution board (or consumer unit) or more circuits than can be recorded on Page 6, one or more additional *Schedules of Circuit Details and Test Results*, should form part of the certificate.

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, or for the replacement of a distribution board (or consumer unit). It should not have been issued for the inspection of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such a periodic inspection.

This certificate should not have been issued for electrical work in a potentially explosive atmosphere (hazardous area) unless the Approved Contractor holds an appropriate extension to their NICEIC registration for such work.

You should have received the certificate marked 'Original' and the Approved Contractor should have retained the certificate marked 'Duplicate'.

The 'Original' certificate should be retained in a safe place and shown to any skilled 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 user 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.

Page 1 and 2 of this certificate provide details of the electrical installation, together with the name(s) and signature(s) of the person(s) certifying the three elements of installation work: design, construction and inspection and testing, and page 3 identifies the organisation(s) responsible for the work certified by their representative(s).

Certification for inspection and testing provides an assurance that the electrical installation work has been fully inspected and tested, and that the electrical work has been carried out in accordance with the requirements of *BS 7671: 2018* (as amended) (except for any departures sanctioned by the designer and appended to the certificate).

Where responsibility for the design, the construction and the inspection and testing of the electrical work is divided between the Approved Contractor and one or more other bodies, the division of responsibility should have been established and agreed before commencement of the work. In such a case, NICEIC considers that the absence of certification for the construction, or the inspection and testing elements of the work would render the certificate invalid. If the design section of the certificate has not been completed, NICEIC recommends that you question why those responsible for the design have not certified that this important element of the work is in accordance with *BS 7671*.

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems) in accordance with British Standards *BS 5839* and *BS 5266* respectively, this electrical safety certificate should be accompanied by a separate certificate or certificates as prescribed by those standards.

Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, an additional page should have been provided which gives the relevant information relating to each additional source, and to the associated earthing arrangements and main switchgear.

Should the person ordering the work (e.g. the client, as identified on Page 1 of this certificate), have reason to believe that any element of the work for which the Approved Contractor has accepted responsibility (as indicated by the signatures on this certificate) does not comply with *BS 7671: 2018* (as amended), the client should in the first instance raise the specific concerns in writing with the Approved Contractor. If the concerns remain unresolved, the client may make a formal complaint to NICEIC, for which purpose a standard complaint form is available on request.

The complaints procedure offered by NICEIC is subject to certain terms and conditions, full details of which are available upon application. NICEIC does not investigate complaints relating to the operational performance of electrical installations (such as lighting levels), or to contractual or commercial issues (such as time or cost).

** NICEIC is operated by Certsure LLP, a partnership between the Electrical Contractors' Association and the charity, Electrical Safety First. NICEIC maintains and publishes registers of electrical contractors that it has assessed against particular scheme requirements (including the technical standard of electrical work).*

For further information about electrical safety and how NICEIC can help you, visit **www.niceic.com**

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