APPROVED CONTRACTOR

This safety certificate is an important and valuable document which should be retained for future reference

This certificate is not valid if the serial number has been defaced or altered **DCN7C/ 02110073**

DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with *British Standard 7671 – Requirements for Electrical Installations* by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX

Original (To the person ordering the work)

CRN/ Contractor's Reference Number

DETAILS OF THE CLIENT

Client and address: Palm Properties
Leopold Road
Kensington
Liverpool
Lancashire

Postcode L7 8SR

ADDRESS OF THE INSTALLATION

Installation address: Leopold Road
Kensington
Liverpool
Lancashire

Postcode L7 8SR

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate: Full Rewire.

The installation is

New	✔
An addition	--
An alteration	--

DESIGN, CONSTRUCTION, INSPECTION AND TESTING

I, being the person(s) responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature adjacent), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671, 17th Edition amended to 2015 (date) except for the departures, if any, detailed as follows:

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

None

The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the **DESIGN**, the **CONSTRUCTION** and the **INSPECTION AND TESTING** of the installation

Signature B. Howard Name (CAPITALS) BRETT HOWARD Date 23/07/2017

The results of the inspection and testing reviewed by the Qualified Supervisor

Signature B. Howard Name (CAPITALS) BRETT HOWARD Date 23/07/2017

PARTICULARS OF THE APPROVED CONTRACTOR

Trading title: GB Electrical

Address: 35 Davenham Avenue
Birkenhead

Telephone No 07809429801 Postcode CH43 2LN

NICEIC Enrolment No (Essential information) 6 0 8 8 1 9 Branch No (if applicable) 0 0 0

NEXT INSPECTION

§ *Enter interval in terms of years, months or weeks, as appropriate*

I RECOMMEND that this installation is further inspected and tested after an interval of not more than § 5 years

COMMENTS ON EXISTING INSTALLATION

Note: Enter 'NONE' or, where appropriate, the page number(s) of additional page(s) of comments on the existing installation

In the case of an alteration or additions see Section 633 of BS 7671

SCHEDULE OF ADDITIONAL RECORDS*

See attached schedule

** Where the electrical work to which this certificate relates includes the installation of a fire detection/alarm system (or a part of such a system), this electrical safety certificate should be accompanied by the particular certificate for the system.*

This certificate is based on the model forms shown in Appendix 6 of BS 7671.

Please see the 'Notes for Recipients' on the reverse of this page.

NOTES FOR RECIPIENT

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

IF YOU WERE THE PERSON ORDERING THE WORK, BUT NOT THE OWNER OR USER OF THE INSTALLATION, YOU SHOULD PASS THIS CERTIFICATE, OR A FULL COPY OF IT INCLUDING THESE NOTES, IMMEDIATELY TO THE OWNER OR USER OF THE INSTALLATION.

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, British Standard 7671 (as amended) - *Requirements for Electrical Installations* (the IET Wiring Regulations).

Where, as will often be the case, the installation incorporates a residual current device (RCD), there should be a notice at or near the consumer unit stating that the device should be tested at quarterly intervals. For safety reasons, it is important that you carry out the test regularly.

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 Approved Contractor for this purpose. The maximum interval recommended before the next inspection is stated on Page 1 under *Next Inspection*. There should also be a notice at or near the consumer unit indicating when the inspection of the installation is next due.

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

The Domestic Electrical Installation Certificate consists of at least four pages. The certificate is invalid if pages (containing schedules) are missing. The certificate has a printed seven-digit serial number which is traceable to the Approved Contractor to which it was supplied.

This certificate is intended to be issued for either the initial certification of a new electrical installation, or for new work associated with an alteration or addition to an existing electrical installation, in a single dwelling (house or individual flat). For new electrical installation work in other than a single dwelling, a full Electrical Installation Certificate should have been issued.

This certificate should not have been issued for reporting on the condition of an existing electrical installation. An Electrical Installation Condition Report or, where appropriate, a Domestic Electrical Installation Condition Report should be issued for such an inspection.

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

The 'Original' certificate should be kept in a safe place and shown to any person inspecting or undertaking work on the electrical installation in the future. If you later vacate the property, this certificate will demonstrate to the new owner or user that the electrical installation work complied with the requirements of the national electrical safety standard at the time the certificate was issued.

Page 1 of this certificate provides details of the electrical installation, together with the names and signatures of the persons certifying the installation work and reviewing the results of inspection and testing on behalf of the Approved Contractor responsible for the work, details of which are also given on that page.

Certification provides an assurance that the electrical installation work has been fully inspected and tested, and that the work has been carried out in accordance with the requirements of BS 7671 (except for any departures recorded in the appropriate part of the certificate).

All unshaded boxes should have been completed either by insertion of the relevant details or by entering 'N/A', meaning 'Not Applicable', where appropriate.

Where the electrical work to which this certificate relates includes the provision of a mains powered fire detection and alarm system (such as one or more smoke alarms), this electrical safety certificate must be accompanied by a separate certificate for that system in accordance with British Standard BS 5839-6: 2013: *Fire detection and fire alarm systems for buildings - Part 6: Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises.*

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 electrical work for which the Approved Contractor has accepted responsibility (as indicated by the signatures on this certificate) does not comply with the requirements of the national electrical safety standard (BS 7671), the person 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 and from the website. 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, the 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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DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

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SUPPLY CHARACTERISTICS

Tick boxes and enter details, as appropriate

System type(s)

TN-S	✔
TN-C-S	N/A
TT	N/A

Number and type of live conductors

1-phase (2-wire)	✔	1-phase (3-wire)	N/A
3-phase (3-wire)	N/A	3-phase (4-wire)	N/A
Other	Please state		

Nature of supply parameters *Notes: (1) by enquiry (2) by enquiry or by measurement (3) where more than one supply, record the higher or highest values*

Number of sources	1	Nominal voltage(s) $U^{(1)}$	230 V	Nominal frequency, $f^{(1)}$	50 Hz
		$U_o^{(1)}$	230 V	External earth fault loop impedance, $Z_e^{(1)}$	0.22 Ω

Single-phase Prospective fault current, $I_{pf}^{(2)(3)}$ 1.9 kA

3-phase Prospective fault current, $I_{pf}^{(2)(3)}$ N/A kA

Characteristics of primary supply overcurrent protective device(s)

BS(EN)	BS 1361 Fuse HBC Domestic Type 2	Short-circuit capacity	16 kA
Type	2	Confirmation of supply polarity	✔ ✓
Rated current	100 A		

PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of earthing

Distributor's facility	✔
Installation earth electrode	N/A

Details of installation earth electrode (where applicable)

Type (eg rod(s), tape etc)	N/A	Location	N/A
Electrode resistance, R_A	N/A Ω	Method of measurement	N/A

Protective measure(s) for fault protection	ADS	Measured Z_e	N/A Ω
		Maximum demand (Load)	N/A [redacted] Amps
			Delete as appropriate
		Number of smoke alarms	‡

Earthing conductor

Conductor material	copper		
Conductor csa	16 mm²	Continuity/ connection verified	✔ ✓

Main protective bonding conductors and bonding of extraneous-conductive-parts (✓)

Continuity/ connection verified	✔ ✓	Conductor material	copper	Conductor csa	10 mm²
Location (where not obvious)					

Water installation pipes	✔	Structural steel	N/A
Oil installation pipes		Other	
Gas installation pipes	✔		

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

Type BS(EN)	BS EN 60947-3 Isolator	Voltage rating	230 V
No of poles	2	Rated current, I_n	100 A
Supply conductors material	copper	RCD operating current, $I_{\Delta n}$*	N/A mA
Supply conductors csa	25 mm²	RCD operating time (at $I_{\Delta n}$) *	N/A ms
		Rated time delay*,	N/A ms

**** applicable only where an RCD is used as a main circuit-breaker***

SCHEDULE OF ITEMS INSPECTED

† *See note below*

1.0 CONDITION/ADEQUACY OF DISTRIBUTOR'S/SUPPLY INTAKE EQUIPMENT (the Distributor should be notified of any unsatisfactory equipment)

1.1	Service cable	✔
1.2	Service head	✔
1.3	Distributor's earthing arrangement	✔
1.4	Meter tails - Distributor/Consumer	✔
1.5	Metering equipment	✔
1.6	Means of main isolation (where present)	✔

2.0 PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY

2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply	N/A
2.3	Presence of alternative/additional supply warning notice(s)	N/A

3.0 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	✔

4.0 BASIC PROTECTION

4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:	
	a) Insulation of live parts e.g. conductors completely covered with durable insulating materials	✔
	b) Barriers or enclosures e.g. correct IP rating	✔

5.0 ADDITIONAL PROTECTION

5.1	Presence and effectiveness of additional protection methods	
	a) RCD(s) not exceeding 30 mA operating current	✔
	b) Supplementary bonding	N/A

6.0 OTHER METHODS OF PROTECTION

			LOCATION
6.1	Basic and fault protection		
	a) SELV	N/A	
	b) PELV	N/A	
	c) Double insulation/Reinforced insulation	N/A	
	d) Electrical separation for one item of equipment	N/A	

† ***All boxes must be completed.*** *'✓' indicates that an inspection was carried out and that the result was* ***satisfactory****. 'N/A' indicates that an inspection was* ***not applicable*** *to the particular installation.*

‡ *Where a smoke alarm has been installed, separate certification is required on the appropriate form.*

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DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

Original (To the person ordering the work)

SCHEDULE OF ITEMS INSPECTED

† *See note below*

7.0	**CONSUMER UNIT(S)**	
7.1	Adequacy of working space/accessibility	✔
7.2	Security of fixing	✔
7.3	Adequacy / security of barriers	✔
7.4	Insulation of live parts not damaged during erection	✔
7.5	Enclosures not damaged during installation	✔
7.6	Suitability of enclosures for IP and fire ratings	✔
7.7	Presence and operation of main switch(es), linked, where appropriate	✔
7.8	Operation of circuit-breakers and RCDs to prove functionality	✔
7.9	Correct identification of circuit protective devices	✔
7.10	RCD(s) provided for fault protection, where specified	✔
7.11	RCD(s) provided for additional protection, where specified	✔
7.12	Confirmation overvoltage protection (SPDs) provided and functional where specified	N/A
7.13	Presence of RCD quarterly test notice at or near the origin	✔
7.14	Presence of diagrams, charts or schedules at or near each Consumer unit(s)	✔
7.15	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required	✔
7.16	Presence of next inspection recommendation label	✔
7.17	Presence of other required labelling	✔
7.18	Selection of protective device(s) and base(s); correct type and rating	✔
7.19	Single-pole protective devices in line conductor only	✔
7.20	Protection against mechanical damage where cables enter equipment	✔
7.21	Protection against electromagnetic effects where cables enter ferromagnetic enclosures	✔
7.22	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	✔
8.0	**CIRCUITS**	
8.1	Identification of conductors	✔
8.2	Cables adequately supported throughout their length	✔
8.3	Examination of cables for signs of mechanical damage during installation	✔
8.4	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	✔
8.5	Adequacy of protective devices: type and rated current for fault protection	✔
8.6	Presence and adequacy of circuit protective conductors	✔
8.7	Coordination between conductors and overload protective devices	✔
8.8	Non-sheathed cables enclosed throughout (e.g. in conduit/trunking)	N/A
8.9	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage	
	a) Installed in prescribed zones	✔
	b) Incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like	✔
8.10	Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA	
	a) For mobile equipment with a current rating not exceeding 32 A for use outdoors	✔
	b) For all socket-outlets of rating 20 A or less, unless exempt	✔
	c) For cables installed in walls/partitions at a depth of less than 50 mm	✔
	d) For cables installed in walls/partitions containing metal parts regardless of depth	✔
8.11	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire	✔
8.12	Band II cables segregated/separated from Band I cables	N/A
8.13	Cables segregated/separated from non-electrical services	✔
8.14	Termination of cables at enclosures	
	a) Connections under no undue strain	✔
	b) No basic insulation of a conductor visible outside enclosure	✔
8.15	Circuit accessories not damaged during erection	✔
8.16	Single-pole devices for switching or protection in the line conductors only	✔
8.17	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment	✔
8.18	Presence of appropriate devices for isolation and switching correctly located	
	a) Accessible means of switching off for mechanical maintenance	✔
	b) Correct operation verified (functional check)	✔
9.0	**CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)**	
9.1	Adequacy of working space/accessibility	✔
9.2	Suitability of equipment in terms of IP and fire ratings	✔
9.3	Enclosure not damaged/deteriorated during installation so as to impair safety	✔
9.4	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire	✔
9.5	Recessed luminaires (downlighters)	
	a) Correct type of lamps fitted	✔
	b) Installed to minimise build-up of heat	✔
10.0	**LOCATION(S) CONTAINING A BATH OR SHOWER**	
10.1	Additional protection by RCD not exceeding 30 mA	
	a) For low voltage circuits serving the location	✔
	b) For low voltage circuits passing through Zone 1 and Zone 2 not serving the location	✔
10.2	Where used as a protective measure, requirements for SELV or PELV are met	N/A
10.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535	N/A
10.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008	N/A
10.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1	✔
10.6	Suitability of equipment for external influences for installed location in terms of IP rating	✔
10.7	Suitability of electrical equipment for installation in a particular zone	✔
11.0	**OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**	
11.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied separately)	

SCHEDULE OF ITEMS INSPECTED BY:

Signature B Howard Name (Capitals): BRETT HOWARD Date: 23/07/2017

† ***All boxes must be completed.*** *'✓' indicates that an inspection was carried out and that the result was* ***satisfactory****. 'N/A' indicates that an inspection was* ***not applicable*** *to the particular installation.*

‡ *Where a smoke alarm has been installed, separate certification is required on the appropriate form.*

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CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit designation * To be completed only where this consumer unit is remote from the origin of the installation. Record details of the circuit supplying this consumer unit in the bold box.	Type of wiring (see code)	Reference method (see Appendix 4 of BS 7671)	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity	RCD Operating current $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)	Circuit impedances (Ω) Ring final circuits only (measured end to end) r_1 (Line)	r_n (Neutral)	r_2 (cpc)	All circuits (At least one column to be completed) $(R_1 + R_2)$	R_2	Insulation resistance Line/Line (MΩ)	Line/Neutral (MΩ)	Line/Earth (MΩ)	Neutral/Earth (MΩ)	Polarity (✓)	Maximum measured earth fault loop impedance, Z_s (Ω)	RCD operating times at $I_{\Delta n}$ (ms)	RCD operating times at 5 $I_{\Delta n}$ (if applicable) (ms)	RCD Test button operation (✓)
*																											
1	RCD																										
2	Shower Top	A	A	1	10	4	0.4	60898	B	40	6	30	1.09	N/A	N/A	N/A	0.18	N/A	N/A	+200	+200	+200	✔	0.38	26	18	✔
3	Cooker	A	A	1	6	2.5	0.4	60898		32	6	30	1.36	N/A	N/A	N/A	0.13	N/A	N/A	+200	+200	+200	✔	0.32	26	18	✔
4	Sockets Middle	A	A	12	2.5	1.5	0.4	60898	B	20	6	30	2.18	N/A	N/A	N/A	0.30	N/A	N/A	+200	+200	+200	✔	0.42	26	18	✔
5	Lights Ground	A	A	8	1	1	0.4	60898	B	6	6	30	7.28	N/A	N/A	N/A	0.54	N/A	N/A		+200	+200	✔	0.70	26	18	✔
6	Lights Top	A	A	4	1	1	0.4	60898	B	6	6	30	7.28	N/A	N/A	N/A	0.82	N/A	N/A	+200	+200	+200	✔	1.13	26	18	✔
7	SPARE																										
8	RCD																										
9	Shower Middle	A	A	1	10	4	0.4	60898	B	40	6	30	1.09	N/A	N/A	N/A	0.11	N/A	N/A	+200	+200	+200	✔	0.30	31	11	✔
10	Sockets Ground	A	A	15	2.5	1.5	0.4	60898	B	32	6	30	1.36	0.31	0.31	0.56	0.24	N/A	N/A	+200	+200	+200	✔	0.45	31	11	✔
11	Sockets Top	A	A	7	2.5	1.5	0.4	60898	B	20	6	30	2.18	N/A	N/A	N/A	0.36	N/A	N/A	+200	+200	+200	✔	0.53	31	11	✔
12	Alarm	A	A	1	1	1	0.4	60898	B	6	6	30	7.28	N/A	N/A	N/A	0.13	N/A	N/A	+200	+200	+200	✔	0.25	31	11	✔
13	Fire Alarm	A	A	13	1.5	1	0.4	60898	B	6	6	30	7.28	N/A	N/A	N/A	0.10	N/A	N/A	+200	+200	+200	✔	0.22	31	11	✔
14	Lights Middle	A	A	5	1	1	0.4	60898	B	6	6		7.28	N/A	N/A	N/A	0.67	N/A	N/A	+200	+200	+200	✔		31	11	✔

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 - please state)

Location of consumer unit

Designation of consumer unit: Distribution Board

Prospective fault current at consumer unit: kA

TEST INSTRUMENTS

Test instruments (serial numbers) used

Multi-function | Insulation resistance | Continuity | Earth electrode resistance | Earth fault loop impedance | RCD