

ELECTRICAL INSTALLATION CERTIFICATE

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS BS 7671 (IET WIRING REGULATIONS)
Acknowledgement: this certificate is based on the model in appendix 6 of BS 7671: 2018

Certificate No.

26 ROTHESAY

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CLIENT DETAILS		INSTALLATION ADDRESS	
PARR HOUSES		26 ROTHESAY AVENUE	
90 PAGER STREET		LENTON	
LOUGHBOROUGH		NOTTINGHAM	
Postcode	LE11 5DT	Postcode	NG7 1PU

DESCRIPTION AND EXTENT OF THE INSTALLATION (tick boxes as appropriate)

NEW INSTALLATION ADDITION TO AN EXISTING INSTALLATION ALTERATION TO AN EXISTING INSTALLATION

Description of installation Full installation

Extent of installation covered by this certificate AS ABOVE

(Use continuity sheet if necessary) See continuation sheet No

DESIGN

I/We being the person(s) responsible for the design of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, 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:

BS7671:2018 amended to 2020 (date) except for the departures, if any, details as follows:-

Details of departure from BS7671: Regulations 120:3, 133.1.3 and 133.5

NONE

Details of permitted exceptions (Regulation 411.3.3). Where applicable, a suitable risk assessment(s) must be attached to this Certificate

NONE

Risk assessment attached

The extent of liability of the signatory or the signatories is limited to the work described above as the subject of this Certificate.
For the design of the installation: * (Where there is mutual responsibility for the design)

Designer No1 Signature 	Name Capitals <u>O. CLAYTON</u>	Date <u>14-9-2020</u>
Designer No2* Signature	Name Capitals	Date

CONSTRUCTION

I being the person responsible for the construction of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which I have been responsible is to the best of my knowledge and belief in accordance with:

BS7671:2018 amended to 2020 (date) except for the departures, if any, details as follows:-

Details of departure from BS7671: Regulations 120:3 and 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 construction of the installation:

Constructor Signature 	Name Capitals <u>O. CLAYTON</u>	Date <u>14-9-2020</u>
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INSPECTION & TESTING

I being the person responsible for the inspection & testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing hereby CERTIFY that the work for which I have been responsible is to the best of my/our knowledge and belief in accordance with:

BS7671:2018 amended to 2020 (date) except for the departures, if any, details as follows:-

Details of departure from BS7671: Regulations 120:3 and 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 inspection and testing of the installation:

Inspector Signature 	Name Capitals <u>O. CLAYTON</u>	Date <u>14-9-2020</u>
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NEXT INSPECTION

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

ELECTRICAL INSTALLATION CERTIFICATE cont.

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PARTICULARS OF SIGNATORIES TO THE ELECTRICAL INSTALLATION CERTIFICATE

Designer (No1)		Designer (No2) if applicable	
Name	O. CLAYTON	Name	N/A
Company	C. CLAYTON ELECTRICAL LTD	Company	
Address	90 SHELTON ROAD, RADCLIFFE - ON-TRENT, NOTTS	Address	
Postcode	NG12 1AW	Postcode	
Tel No		Tel No	
Constructor		Inspector	
Name	O. CLAYTON	Name	O. CLAYTON
Company	C. CLAYTON ELECTRICAL LTD	Company	C. CLAYTON ELECTRICAL LTD
Address	90 SHELTON ROAD, RADCLIFFE - ON-TRENT, NOTTS	Address	90 SHELTON ROAD, RADCLIFFE - ON-TRENT
Postcode	NG12 1AW	Postcode	NG12 1AW
Tel No		Tel No	
CP Scheme:	ECECSA	Membership No:	22348

SUPPLY CHARACTERISTICS & EARTHING ARRANGEMENTS

Earthing Arrangements		Number of Live Conductors		Nature of Supply Parameters	
TNC	TN-S	Phase	Wire 2	AC <input checked="" type="checkbox"/>	DC <input type="checkbox"/>
TN-C-S <input checked="" type="checkbox"/>	TT	Other		Nominal Voltage U_0	230 V
IT		Confirmation of supply polarity	<input type="checkbox"/>	Nominal Frequency f	50 Hz
Supply Protective Device				Prospective fault current I_{pf}	1.1 kA
Type/BSEN	1361	Current rating	100 A	External loop impedance Z_e	0.21 Ω
Other sources of supply (as detailed on attached schedule)				* by enquiry * by enquiry or by measurement	

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of Earthing		Details of Installation Earth Electrode (where applicable)	
Distributor's facility	<input checked="" type="checkbox"/>	Type [eg. rod(s) tape etc]	N/A
Installation earth electrode	<input checked="" type="checkbox"/>	Electrode resistance to Earth	N/A Ω
Maximum Demand		Location	N/A
Maximum demand (load)	100 A / Amps		
Main Protective Conductors			
Earthing conductor	Material	CSA	Continuity and connection verified
	COPPER	16 mm ²	<input checked="" type="checkbox"/>
Main protective bonding conductors (to extraneous-conductive-parts)	Material	CSA	Continuity and connection verified
	COPPER	10 mm ²	<input checked="" type="checkbox"/>
To water installation pipes	<input checked="" type="checkbox"/>	To gas installation pipes	<input checked="" type="checkbox"/>
To oil installation pipes	<input type="checkbox"/>	To structural steel	<input type="checkbox"/>
To lightning protection	<input type="checkbox"/>	To other	<input type="checkbox"/> Specify

Main Switch / Switch-Fuse / Circuit Breaker / RCD

BS(EN)	60947-3	No. of poles	2	Voltage rating	230 V
Location	DIS-BOARD	Current rating	100 A	Fuse / device rating or setting	N/A A
If RCD main switch: Rated residual operating current $I_{\Delta n}$	= N/A mA	Rated time delay	N/A ms	Measured operating time	N/A ms

Comments on existing installation (in the case of an addition or alteration see Regulation 644.1.2)

N/A

Schedules

The attached Schedules are part of this document and this Certificate is valid only when they are attached to it.

No. of Inspection Schedules attached: 2 pages

No. of Test Result Schedules attached: 2 pages

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All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671. The list of items is not exhaustive. Insert ✓ to indicate an inspection has been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item.

Item	Description	Outcome (✓ or N/A)
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT (Visual inspection only)	
1.1	Condition of service cable	✓
1.2	Condition of service head	✓
1.3	Condition of earthing arrangement	✓
1.4	Condition of meter tails - Distributor / Consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of isolator (where present)	✓
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of earthing and protective bonding arrangements:	✓
	• Distributor's earthing arrangement (542.1.2.1, 542.1.2.2)	✓
	• Installation earth electrode (where applicable) (542.1.2.3)	N/A
	• Earthing conductor and connections, including accessibility (542.3; 543.3.2)	✓
	• Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2, 544.1)	✓
	• Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	✓
	• RCD(s) provided for fault protection (411.4.204; 411.5.3)	N/A
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:	✓
	• Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓
	• Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	ADDITIONAL PROTECTION	
5.1	5.1 Presence and effectiveness of additional protection methods:	✓
	• RCD(s) not exceeding 30 mA operating current (415.1; Part 7), see Item 8.14 of this schedule	✓
	• Supplementary bonding (415.2; Part 7)	N/A
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection:	N/A
	• SELV system, including the source and associated circuits (Section 414)	N/A
	• PELV system, including the source and associated circuits (Section 414)	N/A
	• Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	N/A
	• Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	✓
7.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)	
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓
7.2	Components are suitable according to assembly manufacturer's instructions or literature (536.4.203)	✓
7.3	Presence of linked main switch(es) (462.1.201)	✓
7.4	Isolators, for every circuit or group of circuits and all items of equipment (462.2)	✓
7.5	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201, 526.5)	✓
7.6	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5, 522.8.11)	✓
7.7	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.8	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
7.9	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, .5, .6; Sections 432, 433, 537.3.1.1)	✓
7.10	Presence of appropriate circuit charts, warning and other notices:	✓
	• Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
	• Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓
	• Periodic inspection and testing notice (514.12.1)	✓
	• RCD six-monthly test notice; where required (514.12.2)	✓
	• AFDD six-monthly test notice, where required	N/A
	• Warning notice of non-standard (mixed) colour of conductors present (514.14)	✓
7.11	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓

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Item	Description	Outcome (✓ or N/A)
8.0 CIRCUITS		
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	✓
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	✓
8.4	Cables correctly erected and supported throughout, with protection against abrasion (Sections 521, 522)	✓
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	✓
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	N/A
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, .202, .203, .204)	✓
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	✓
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3, 643.6)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓
8.14	Provision of additional protection / requirements by RCD not exceeding 30mA: <ul style="list-style-type: none">• Socket-outlets rated at 32 A or less, unless exempt (411.3.3)• Supplies for mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)• Cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)• Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)• Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓ N/A N/A N/A
8.15	Presence of appropriate devices for isolation and switching correctly located including: <ul style="list-style-type: none">• Means of switching off for mechanical maintenance (Section 464, 537.3.2)• Emergency switching (465.1, 537.3.3)• Functional switching, for control of parts of the installation and current-using equipment (463.1, 537.3.1)• Firefighter's switches (537.4)	✓ N/A N/A N/A
9.0 CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)		
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	✓
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	✓
9.3	Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	✓
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	✓
10.0 LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)		
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc.	✓
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)	N/A

GUIDANCE FOR RECIPIENTS

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

The 'original' Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the Certificate was issued. The Construction (Design and Management) Regulations require that, for a project covered by those Regulations, a copy of this Certificate, together with schedules, is included in the project health and safety documentation.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under 'NEXT INSPECTION'.

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

This Certificate is only valid if accompanied by the Schedule of Inspections and the Schedule(s) of Test Results

Inspected by:
Name (Capitals) O. CLAYTON

Signature 

Date 14-09-2020

SCHEDULE OF TEST RESULTS

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DB reference no. 001		Details of circuits and/or installed equipment vulnerable to damage when testing						Details of test instruments used (state serial and/or asset numbers)															
Location CEWAN STAIRS								Multifunction 1652c, 2577038															
Zs at DB (Ω) 0.21		Ipf at DB (kA) 1.1						Insulation / continuity -11-															
Correct supply polarity confirmed <input checked="" type="checkbox"/>								Earth fault loop impedance -11-															
Phase sequence confirmed (where appropriate) <input checked="" type="checkbox"/>								Earth electrode res. N/A															
Tested by: Name Capital O. CAYTON		Date 14-09-2020						Test Results															
Signature		Circuit Details						Test Results															
Circuit number	Circuit Description	Protective Device				Conductor Details		Ring Final Circuit Continuity (Ω)		Continuity (Ω) (R1+R2) or R2		Insulation Resistance (MΩ)		Zs (Ω)	RCD (ms)	RCD test button operation	AFDD test button operation	Remarks / observations No. See separate sheet (TC7)					
		BS (EN)	Type	Rating (A)	Breaking Capacity (kA)	RCD Idn (mA)	Ref. Method	Live (mm ²)	cpc (mm ²)	r1 (line)	r2 (cpc)	(R1+R2)	R2						Ins. Resistance Test Voltage	Live - Live	Live - Earth	Polarity	Maximum measured
1	2nd Floor Sockets	60898	B	32	6	30	B	2.5	1.5	0.60	0.60	0.90	0.35	250	250	250	250	0.47	28.1	✓	✓	✓	
2	5 Ring Hobs	60898	B	32	6	30	B	6.0	2.5	✓	✓	✓	0.16	250	250	250	250	0.29	28.1	✓	✓	✓	
3	Data Sockets	60898	B	16	6	30	B	2.5	1.5	✓	✓	✓	0.54	250	250	250	250	0.35	28.1	✓	✓	✓	
4	Ground Floor Lights	60898	B	6	6	30	B	1.0	1.0	✓	✓	✓	1.56	250	250	250	250	1.68	28.1	✓	✓	✓	
5	Boiler	60898	B	6	6	30	B	1.0	1.0	✓	✓	✓	0.70	250	250	250	250	0.78	28.1	✓	✓	✓	
	Rep no 2																						
1	1st Floor Sockets	60898	B	32	6	30	B	2.5	1.5	0.65	0.65	1.00	0.41	250	250	250	250	0.57	10.1	✓	✓	✓	
2	oven	60898	B	30	6	30	B	6.0	2.5	✓	✓	✓	0.16	250	250	250	250	0.29	10.1	✓	✓	✓	
3	Rear Ground Floor Sockets	60898	B	16	6	30	B	2.5	1.5	✓	✓	✓	0.82	250	250	250	250	0.87	10.1	✓	✓	✓	
4	2nd Floor Lights	60898	B	6	6	30	B	1.0	1.0	✓	✓	✓	1.21	250	250	250	250	1.21	10.1	✓	✓	✓	
5	Fire Alarm	60898	B	6	6	30	B	1.5	1.0	✓	✓	✓	0.26	250	250	250	250	0.43	10.1	✓	✓	✓	

