Membership number: 360145

This certificate is not valid if the serial number has been defaced or altered **EIC/** R200120

ELECTRICAL INSTALLATION CERTIFICATE BS 7671:2018 - single signature

DETAILS OF THE CLIENT

Ross and Co

INSTALLATION ADDRESS

34-36 High Street, Seaford, East Sussex, BN25 1PL

DESCRIPTION AND EXTENT OF INSTALLATION COVERED BY THIS CERTIFICATE

New installation ☐ Addition ☐ Alteration ☑

Rectify code 1, 2, and FI items from EICR 370418. Works included replacing Main switch fuse and consumer units DB2, DB4, DB5, DB6, air con isolators, installing RCBO's to sockets via DB1, disconnecting numerous circuits no longer in use that could not be identified.

FOR DESIGN, CONSTRUCTION, INSPECTION AND TEST

I/We, being the person responsible for design, construction, inspection and 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 design, construction, inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledgeand belief, in accordance with BS 7671:2018 as amended to 2018 (date) except for the departures, if any, detailed as follows:

Departures and comments on existing installations (120.3; 133.1.3; 133.5)

See EICR 370418. Code C3 observations still apply. Appears 16mm2 distributor tails.

☐ Risk assessment attached* *Where appropriate a suitable risk assessment(s) must be attached to this certificate

Name Richard Vercoe Signature

Position Electrician Company Bay electrics Ltd

Address 57 Maresfield Drive, Pevensey Bay, East Sussex

Date 13/01/20

I/We recommend that the installation be further inspected and tested after an interval of not more than 3 years

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Nature & type of supply parameters

Nominal voltage, U / U_0	400/ 230	V	
Frequency, f	50	Hz	
Prospective fault current, I_{pf}	7.4	kA	☑
External loop impedance, Z_e	0.06	Ω	

Number & type of live conductors

1-phase, 2-wire ☐ Alternative source of supply ☐

3-phase, 3-wire ☐

3-phase, 4-wire ☐ Confirmation of supply polarity ☑

AC ☑ DC ☐

Supply protective device characteristics

Type/BS (EN) LIM

Rated current LIM A

Earthing arrangements

TN-S ☐ Distributor's facility ☑

TN-C-S ☑ Installation earth electrode ☐

TT ☐ Type (Rod, plate, tape, etc) N/A

Other N/A Resistance N/A Ω

Location N/A

PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Main switch or circuit breaker

BS 60947-3 Current rating 100 A

Type N/A No. of poles 3

Location Basement

Voltage Rating 415 V Fuse device rating or setting 100 A

RCD trip time N/A ms RCD $I_{\Delta n}$ N/A mA

(Applicable only where RCD is suitable and is used as a main circuit breaker)

Maximum demand

~~kVA~~ / Amps 50

Location of main protective bonding connections

Water - basement

Earthing conductor **Main protective conductors**

Copper ☑ Steel ☐ Aluminium ☐ CSA 35/16 mm² Connection continuity verified ☑

Main protective bonding conductor (to extraneous conductive parts)

Copper ☑ Steel ☐ Aluminium ☐ CSA 10 mm² Connections verified ☑

Main bonding: To installation pipes Water ☑ Gas ☐ Other ☐

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SCHEDULE OF INSPECTIONS (for new installation work only) for DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

NOTE 1: This form is suitable for many types of smaller installation, not exclusively domestic. All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671. The list of items and associated examples where given are not exhaustive.

NOTE 2: Insert ✓ to indicate an inspection had been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item.

Item no	Description	Outcome (See Note 2)
1.0	**EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)**	
1.1	Service cable	✓
1.2	Service head	✓
1.3	Earthing arrangement	✓
1.4	Meter tails	Evidence Attached
1.5	Metering equipment	✓
1.6	Isolator (where present)	N/A
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; 542.3.2)	✓
	• Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2: Section 544)	✓
	• 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	**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:**	
	• 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)	N/A
7.0	**CONSUMER UNIT(S) / DISTRIBUTION BOARDS(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, 411.5, 411.6; Sections 432, 433)	✓

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NOTE 1: This form is suitable for many types of smaller installation, not exclusively domestic. All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671. The list of items and associated examples where given are not exhaustive.

NOTE 2: Insert ✓ to indicate an inspection had been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item.

Item no	Description	Outcome (see Note 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)	N/A
	• Periodic inspection and testing notice (514.12.1)	✓
	• RCD six-monthly test notice; where required (514.12.2)	✓
	• Warning notice of non-standard (mixed) colours of conductors present (514.14)	✓
7.11	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓
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)	✓
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203, 522.6.204)	✓
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 by RCD not exceeding 30mA:**	
	• 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
8.15	**Presence of appropriate devices for isolation and switching correctly located including:**	
	• Means of switching off for mechanical maintenance (Section 464; 537.3.2)	✓
	• Emergency switches (465.1; 537.3.3)	N/A
	• Functional switches, for control of parts of the installation and current-using equipment (463.1; 537.3.1)	✓
	• Firefighter's switches (537.4)	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)	N/A
9.3	Installed to minimise 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.	N/A
11.0	**OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**	
11.1	List all other special installations or locations present, if any. (Record separately the result of particular inspections applied)	N/A

INSPECTED BY:

Name *(CAPITALS)* Richard Vercoe Signature  Date 13/01/20

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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. Main Switch Fuse

Location Basement

Z_s at DB (Ω) 0.06 I_{pf} at DB (kA) 8.2

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☑

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

DB1/ Off peak DB and contactor

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

Continuity: Megger MFT 1720 100239810 1322462

RCD: Megger MFT 1720 100239810 1322462

Insulation resistance: Megger MFT 1720 100239810 1322462

Multi-functional: Megger MFT 1720 100239810 1322462

Earth fault loop Impedance: Megger MFT 1720 100239810 1322462

Earth electrode resistance: Megger MFT 1720 100239810 1322462

Tested by: Name *(CAPITALS)* Richard Vercoe

Signature

Date 13/01/20

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	Protective device: BS (EN)	Protective device: Type	Protective device: Rating (A)	Protective device: Breaking capacity (kA)	Protective device: RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω): $(R_1 + R_2)$ or R_2	Continuity (Ω): R_2	Insulation Resistance Test Voltage V	Insulation resistance (MΩ): Live - Live	Insulation resistance (MΩ): Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD: RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
L1	DB1 & Off peak	88	2	100	80	N/A	0.42	B	35	35	N/A	N/A	N/A	0.01		500	>200	>200	✓	0.06	N/A	N/A	N/A	1 point
L2	DB1 & Off peak	88	2	100	80	N/A	0.42	B	35	35	N/A	N/A	N/A	0.01		500	>200	>200	✓	0.06	N/A	N/A	N/A	1 point
L3	DB1 & Off peak	88	2	100	80	N/A	0.42	B	35	35	N/A	N/A	N/A	0.01		500	>200	>200	✓	0.06	N/A	N/A	N/A	1 point

* Where the maximum permitted earth fault loop impedance value stated in column 8 is taken from a source other than the tabulated values given in Chapter 41 of this Standard, state the source of the data in the appropriate cell for the circuit in the Remarks column (column 25) of the schedule.

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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. DB1

Location BASEMENT ELECTRIC INTAKE

Z_s at DB (Ω) 0.06 I_{pf} at DB (kA) 7.4

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☑

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

LIGHTS / SOCKETS / APPLIANCES

CONSUMER UNITS/ RCBO's

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

Continuity: Megger MFT 1720 1002398101322462 RCD: Megger MFT 1720 1002398101322462

Insulation resistance: Megger MFT 1720 1002398101322462 Multi-functional: Megger MFT 1720 1002398101322462

Earth fault loop impedance: Megger MFT 1720 1002398101322462 Earth electrode resistance: Megger MFT 1720 1002398101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS											TEST RESULTS													
			Protective device					Conductor details			Ring final circuit continuity (Ω)			Continuity (Ω) (R_1+ R_2) or R_2		Insulation Resistance Test Voltage	Insulation resistance (MΩ)		Polarity	Z_s (Ω)	RCD		AFDD	Remarks (continue on a separate sheet if necessary)
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Reference method	Live (mm²)	cpc (mm²)	r_1 (line)	r_n (neutral)	r_2 (cpc)	(R_1 + R_2)	R_2	V	Live - Live	Live - Earth	Insert ✓	Maximum measured	Disconnection time (ms)	RCD test button operation	Manual AFDD test button operation	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
L1-1	Spare																		☐					
L2-1	Spare																		☐					
L3-1	Spare																		☐					
L1-2	Spare																		☐					
L2-2	Spare																		☐					
L3-2	2 skts front left shop	61009	B	16	10	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.24		500	>200	>200	✓	0.29	19.1	ok	N/A	2 points
L1-3	DB2 Kitchen	60898	B	40	6	N/A	1.09	B	10	4	N/A	N/A	N/A	0.07		500	>200	>200	✓	0.13	N/A	N/A	N/A	1 point
L2-3	2 skts front right shop	61009	B	16	10	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.19		500	>200	>200	✓	0.25	10.4	ok	N/A	2 points
L3-3	Left shop wall sockets	61009	B	32	10	30	1.37	B	2.5	1.5	0.50	0.50	0.78	0.33		500	>200	>200	✓	0.37	10.3	ok	N/A	11 points
L1-4	AC1	60898	C	20	10	N/A	1.09	B	2.5	1.5	N/A	N/A	N/A	0.64		500	>200	>200	✓	0.72	N/A	N/A	N/A	1 point
L2-4	AC2	60898	C	20	10	N/A	1.09	B	2.5	1.5	N/A	N/A	N/A	0.64		500	>200	>200	✓	0.71	N/A	N/A	N/A	1 point
L3-4	basement and left shop floor skts	61009	B	32	10	30	1.37	B	2.5	1.5	0.37	0.37	0.66	0.26		500	>200	>200	✓	0.44	10.4	ok	N/A	1 points
L1-5	AC3	60898	C	20	10	N/A	1.09	B	2.5	1.5	N/A	N/A	N/A	0.66		500	>200	>200	✓	0.72	N/A	N/A	N/A	1 point
L2-5	AC4	60898	C	20	10	N/A	1.09	B	2.5	1.5	N/A	N/A	N/A	0.65		500	>200	>200	✓	0.70	N/A	N/A	N/A	1 point
L3-5	2 skts front left shop	61009	B	20	10	30	2.19	B	2.5	1.5	N/A	N/A	N/A	0.23		500	>200	>200	✓	0.28	10.3	ok	N/A	2 points
																			☐					

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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. DB1

Location BASEMENT ELECTRIC INTAKE

Z_s at DB (Ω) 0.06 I_{pf} at DB (kA) 7.4

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☑

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

LIGHTS / SOCKETS / APPLIANCES

CONSUMER UNITS/ RCBO's

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

Continuity: Megger MFT 1720 1002398101322462 RCD: Megger MFT 1720 1002398101322462

Insulation resistance: Megger MFT 1720 1002398101322462 Multi-functional: Megger MFT 1720 1002398101322462

Earth fault loop impedance: Megger MFT 1720 1002398101322462 Earth electrode resistance: Megger MFT 1720 1002398101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	Protective device: BS (EN)	Type	Rating (A)	Breaking capacity (kA)	RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Live (mm²)	cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω): $(R_1 + R_2)$ or R_2		Insulation Resistance Test Voltage V	Insulation resistance (MΩ): Live - Live	Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
L1-6	Spare																		☐					
L2-6	Spare																		☐					
L3-6	Spare																		☐					
L1-7	Right shop fan heater	60898	B	16	6	N/A	2.73	B	4.0	1.5	N/A	N/A	N/A	0.12		500	>200	>200	✓	0.19	N/A	N/A	N/A	1 point
L2-7	Spare																		☐					
L3-7	DB4 rear left shop	60898	C	32	10	N/A	0.68	B	10	4	N/A	N/A	N/A	0.13		500	>200	>200	✓	0.20	N/A	N/A	N/A	1 point
L1-8	Spare																		☐					
L2-8	DB5 Right shop	60898	B	40	6	N/A	1.09	B	16	6	N/A	N/A	N/A	0.12		500	>200	>200	✓	0.18	N/A	N/A	N/A	1 point
L3-8	DB6 Left Shop	60898	B	32	6	N/A	1.37	B	6	2.5	N/A	N/A	N/A	0.13		500	>200	>200	✓	0.20	N/A	N/A	N/A	1 point
L1-9	Spare																		☐					
L2-9	Basement Ventilation	60898	B	16	6	N/A	2.73	B	2.5	1.5	N/A	N/A	N/A	0.03		500	>200	>200	✓	0.09	N/A	N/A	N/A	1 point
L3-9	Basement Lights	60898	B	16	6	N/A	2.73	B	2.5	1.5	N/A	N/A	N/A	0.20		500	>200	>200	✓	0.27	N/A	N/A	N/A	lights via spur 5 amp
L1-10	Spare																		☐					
L2-10	Spare																		☐					
L3-10	Spare																		☐					
																			☐					

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Used as primary sheet ☑ or used as continuation sheet 7 of 13

GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. Off peak DB

Location BASEMENT ELECTRIC INTAKE

Z_s at DB (Ω) 0.06 I_{pf} at DB (kA) 7.4

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☑

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

Kitchen Storage heater

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

Continuity: Megger MFT 1720 1002396101322462 RCD: Megger MFT 1720 1002396101322462

Insulation resistance: Megger MFT 1720 1002396101322462 Multi-functional: Megger MFT 1720 1002396101322462

Earth fault loop impedance: Megger MFT 1720 1002396101322462 Earth electrode resistance: Megger MFT 1720 1002396101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	Protective device: BS (EN)	Protective device: Type	Protective device: Rating (A)	Protective device: Breaking capacity (kA)	Protective device: RCD $I_{\Delta n}$ (mA)	Protective device: Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω): $(R_1 + R_2)$ or R_2	Continuity (Ω): R_2	Insulation Resistance Test Voltage: V	Insulation resistance (MΩ): Live - Live	Insulation resistance (MΩ): Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD: RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
L1-1	Spare																		☐					
L2-1	Spare																		☐					
L3-1	Spare																		☐					
L1-2	Spare																		☐					
L2-2	Spare																		☐					
L3-2	Spare																		☐					
L1-3	Spare																		☐					
L2-3	Kitchen storage heater	60898	B	16	6	N/A	2.73	B	2.5	1.5	N/A	N/A	N/A	0.70		500	>200	>200	☑	0.75	N/A	N/A	N/A	1 point
L3-3	Spare																		☐					
L1-4	Spare																		☐					
L2-4	Spare																		☐					
L3-4	Spare																		☐					
																			☐					
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* Where the maximum permitted earth fault loop impedance value stated in column 8 is taken from a source other than the tabulated values given in Chapter 41 of this Standard, state the source of the data in the appropriate cell for the circuit in the Remarks column (column 25) of the schedule.

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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. DB 2

Location Lobby area by kitchen

Z_s at DB (Ω) 0.19 I_{pf} at DB (kA) 1.23

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☐

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

Light fittings/ Alarm/ Water Heater

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

Continuity: Megger MFT 1720 1002396101322462 RCD: Megger MFT 1720 1002396101322462

Insulation resistance: Megger MFT 1720 1002396101322462 Multi-functional: Megger MFT 1720 1002396101322462

Earth fault loop impedance: Megger MFT 1720 1002396101322462 Earth electrode resistance: Megger MFT 1720 1002396101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/20

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	Protective device: BS (EN)	Type	Rating (A)	Breaking capacity (kA)	RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Live (mm²)	cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) $(R_1 + R_2)$ or R_2: $(R_1 + R_2)$	R_2	Insulation Resistance Test Voltage: V	Insulation resistance (MΩ): Live - Live	Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Spare																		☐					
2	This area Sockets	61009	B	32	6	30	1.37	B	2.5	1.5/ 1	0.29	0.29	0.57	0.22		500	76.8	35.9	✓	0.33	28.3	ok	N/A	3 points
3	Rear area sockets/ Burglar alarm	61009	B	32	6	30	1.37	B	2.5	1.5/ 1	0.21	0.21	0.33	0.15		500	LIM	LIM	✓	0.55	18.5	ok	N/A	4 points
4	Surge protection	60898	B	32	6		1.37	B	6	6	N/A	N/A	N/A	0.01		500	>200	>200	✓	0.20	N/A	N/A	N/A	1 point
5	Spare																		☐					
6	Water Heater	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.10		500	>200	>200	✓	0.29	18.9	ok	N/A	1 point
7	Side rooms sockets	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.56		500	>200	>200	✓	0.74	18.8	ok	N/A	6 points
8	Spare																		☐					
9	Rear areas Lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	0.61		500	LIM	30.1	✓	0.81	28.6	ok	N/A	10 points
10	Mid/ side rooms lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	0.73		500	LIM	141	✓	0.92	28.2	ok	N/A	11 points
11	Spare																		☐					
12	Spare																		☐					
13	Spare																		☐					
14	SPD Module	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	N/A	N/A	N/A	N/A	N/A
																			☐					
																			☐					

* Where the maximum permitted earth fault loop impedance value stated in column 8 is taken from a source other than the tabulated values given in Chapter 41 of this Standard, state the source of the data in the appropriate cell for the circuit in the Remarks column (column 25) of the schedule.

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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. DB4

Location left hand shop rear riser cupboard

Z_s at DB (Ω) 0.20 I_{pf} at DB (kA) 1.15

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☐

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

Extractor fan, light fittings

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

Continuity: Megger MFT 1720 1002396101322462 RCD: Megger MFT 1720 1002396101322462

Insulation resistance: Megger MFT 1720 1002396101322462 Multi-functional: Megger MFT 1720 1002396101322462

Earth fault loop impedance: Megger MFT 1720 1002396101322462 Earth electrode resistance: Megger MFT 1720 1002396101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	Protective device: BS (EN)	Type	Rating (A)	Breaking capacity (kA)	RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Live (mm²)	cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω): $(R_1 + R_2)$ or R_2: $(R_1 + R_2)$	R_2	Insulation Resistance Test Voltage V	Insulation resistance (MΩ): Live - Live	Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Rear wall right side sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.20	0.20	0.31	0.13		500	>200	>200	✓	0.28	18.3	ok	N/A	6 points
2	Rear wall left side sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.24	0.24	0.38	0.16		500	>200	>200	✓	0.29	18.6	ok	N/A	6 points
3	Right wall sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.23	0.22	0.35	0.14		500	>200	>200	✓	0.26	18.7	ok	N/A	6 points
4	Left wall sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.27	0.27	0.42	0.18		500	>200	>200	✓	0.40	18.8	ok	N/A	6 points
5	Surge protection device	60898	B	32	6	N/A	1.37	B	10	10	N/A	N/A	N/A	0.01		500	>200	>200	✓	0.21	N/A	N/A	N/A	1 point
6	Spare																							
7	1 x mid shop socket	61009	B	16	6	30	2.37	B	2.5	1.5	N/A	N/A	N/A	0.07		500	>200	>200	✓	0.28	28.6	ok	N/A	1 point
8	Spare																							
9	Extractor fan rear wall	61009	B	6	6	30	7.28	B	1.5/ 1	1	N/A	N/A	N/A	0.92		500	LIM	>200	✓	1.14	28.4	ok	N/A	1 point
10	Right shop side room lights	61009	B	6	6	30	7.28	B	1.5/ 1	1	N/A	N/A	N/A	1.06		500	LIM	71.8	✓	1.24	28.5	ok	N/A	3 points
11	Spare																							
12	Spare																							
13	Spare																							
14	Surge Device	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A

* Where the maximum permitted earth fault loop impedance value stated in column 8 is taken from a source other than the tabulated values given in Chapter 41 of this Standard, state the source of the data in the appropriate cell for the circuit in the Remarks column (column 25) of the schedule.

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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. DB5

Location Right hand shop ground floor high level

Z_s at DB (Ω) 0.18 I_{pf} at DB (kA) 1.38

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☐

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

Light Fittings/ Appliances

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

Continuity: Megger MFT 1720 1002398101322462 RCD: Megger MFT 1720 1002398101322462

Insulation resistance: Megger MFT 1720 1002398101322462 Multi-functional: Megger MFT 1720 1002398101322462

Earth fault loop impedance: Megger MFT 1720 1002398101322462 Earth electrode resistance: Megger MFT 1720 1002398101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	BS (EN)	Protective device: Type	Protective device: Rating (A)	Protective device: Breaking capacity (kA)	Protective device: RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω): $(R_1 + R_2)$ or R_2: $(R_1 + R_2)$	R_2	Insulation Resistance Test Voltage V	Insulation resistance (MΩ): Live - Live	Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD: RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Spare																		☐					
2	Rear Shop/ store sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.52	0.52	0.81	0.33		500	78.1	45.2	✓	0.51	28.7	ok	N/A	4 points
3	Front/ Mid shop sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.26	0.26	0.39	0.17		500	75.0	22.5	✓	0.39	18.7	ok	N/A	6 points
4	Surge Device circuit	60898	B	32	6	N/A	1.37	B	10	10	N/A	N/A	N/A	0.01		500	>200	>200	✓	0.19	N/A	N/A	N/A	1 point
5	Spare																		☐					
6	Mid shop/ side room sockets	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.09		500	>200	130	✓	0.27	18.8	ok	N/A	3 points
7	Fan heater 1 controller(rear store)	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.50		500	>200	99.8	✓	0.67	18.6	ok	N/A	1 point
8	Fan heater 2 controller(rear store)	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.38		500	>200	>200	✓	0.57	28.8	ok	N/A	1 point
9	Spare																		☐					
10	Rear Store Lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	1.50		500	LIM	>200	✓	1.65	18.7	ok	N/A	10 points
11	Spare																		✓					
12	Front shop Lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	0.60		500	LIM	>200	✓	0.79	18.5	ok	N/A	8 points
13	Rear shop lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	1.01		500	LIM	>200	✓	1.20	17.9	ok	N/A	13 points
14	Spare																		☐					
15	Spare																		☐					
16	Spare																		☐					

* Where the maximum permitted earth fault loop impedance value stated in column 8 is taken from a source other than the tabulated values given in Chapter 41 of this Standard, state the source of the data in the appropriate cell for the circuit in the Remarks column (column 25) of the schedule.

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GENERIC SCHEDULE OF TEST RESULTS

ECA Excellence in Electrotechnical & Engineering Services

DB Reference no. DB5 Location Right hand shop ground floor high level Z_s at DB (Ω) 0.18 I_{pf} at DB (kA) 1.38 Correct polarity of supply confirmed YES ☑ NO ☐ Phase sequence confirmed *(where appropriate)* ☐	Details of circuits and/or installed equipment vulnerable to damage when testing Light Fittings/ Appliances	Details of test instruments used (state serial and/or asset numbers) Continuity: Megger MFT 1720 1002398101322462 RCD: Megger MFT 1720 1002398101322462 Insulation resistance: Megger MFT 1720 1002398101322462 Multi-functional: Megger MFT 1720 1002398101322462 Earth fault loop impedance: Megger MFT 1720 1002398101322462 Earth electrode resistance: Megger MFT 1720 1002398101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS											TEST RESULTS													
		Protective device						Conductor details			Ring final circuit continuity (Ω)			Continuity (Ω) $(R_1 + R_2)$ or R_2		Insulation Resistance Test Voltage	Insulation resistance (MΩ)		Polarity	Z_s (Ω)	RCD		AFDD	Remarks (continue on a separate sheet if necessary)
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Reference method	Live (mm²)	cpc (mm²)	r_1 (line)	r_n (neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	V	Live - Live	Live - Earth	Insert ✓	Maximum measured	Disconnection time (ms)	RCD test button operation	Manual AFDD test button operation	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
17	Surge device	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	N/A	N/A	N/A	N/A	
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GENERIC SCHEDULE OF TEST RESULTS

DB Reference no. DB6

Location Left shop ground floor middle

Z_s at DB (Ω) 0.20 I_{pf} at DB (kA) 1.13

Correct polarity of supply confirmed YES ☑ NO ☐

Phase sequence confirmed *(where appropriate)* ☐

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

Light fittings

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

Continuity: Megger MFT 1720 1002396101322462 RCD: Megger MFT 1720 1002396101322462

Insulation resistance: Megger MFT 1720 1002396101322462 Multi-functional: Megger MFT 1720 1002396101322462

Earth fault loop impedance: Megger MFT 1720 1002396101322462 Earth electrode resistance: Megger MFT 1720 1002396101322462

Tested by: Name *(CAPITALS)* RICHARD VERCOE

Signature [signature] Date 13/01/2020

CIRCUIT DETAILS

TEST RESULTS

Circuit number	Circuit description	Protective device: BS (EN)	Type	Rating (A)	Breaking capacity (kA)	RCD $I_{\Delta n}$ (mA)	Maximum permitted Z_s (Ω*)	Conductor details: Reference method	Live (mm²)	cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) $(R_1 + R_2)$ or R_2: $(R_1 + R_2)$	R_2	Insulation Resistance Test Voltage V	Insulation resistance (MΩ): Live - Live	Live - Earth	Polarity: Insert ✓	Z_s (Ω): Maximum measured	RCD: Disconnection time (ms)	RCD test button operation	AFDD: Manual AFDD test button operation	Remarks (continue on a separate sheet if necessary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Surge Device	60898	B	32	6	N/A	1.37	B	6	6	N/A	N/A	N/A	0.01		500	>200	>200	☑	0.21	N/A	N/A	N/A	1 point
2	2 x front shop sockets	61009	B	32	6	30	1.37	B	2.5	1.5	0.24	0.24	0.36	0.14		500	>200	>200	☑	0.28	18.4	ok	N/A	2 points
3	Spare																		☐					
4	1 x middle shop socket	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.10		500	>200	>200	☑	0.31	28.5	ok	N/A	1 point
5	Socket below DB6	61009	B	16	6	30	2.73	B	2.5	1.5	N/A	N/A	N/A	0.08		500	>200	>200	☑	0.28	28.6	ok	N/A	1 point
6	Spare																		☐					
7	Rear shop lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	0.46		500	LIM	>200	☑	0.63	28.5	ok	N/A	9 points
8	Front shop lights	61009	B	6	6	30	7.28	B	1	1	N/A	N/A	N/A	0.68		500	LIM	>200	☑	0.89	18.7	ok	N/A	14 points
9	Spare																		☐					
10	SPD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	N/A	N/A	N/A	N/A	
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* Where the maximum permitted earth fault loop impedance value stated in column 8 is taken from a source other than the tabulated values given in Chapter 41 of this Standard, state the source of the data in the appropriate cell for the circuit in the Remarks column (column 25) of the schedule.

ELECTRICAL INSTALLATION CERTIFICATE

Notes for the person producing the Certificate:

1. The Electrical Installation Certificate is to be used only for the initial certification of a new installation or for an addition or alteration to an existing installation where new circuits have been introduced, or the replacement of a consumer unit/ distribution board.

   It is not to be used for a Periodic Inspection, for which an Electrical Installation Condition Report form should be used. For an addition or alteration which does not extend to the introduction of new circuits, a Minor Electrical Installation Works Certificate may be used.

   The 'original' Certificate is to be issued to the person ordering the work (Regulation 644.4). A duplicate should be retained by the contractor.

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

3. The signatures appended are those of the persons authorised by the companies executing the work of design, construction, inspection and testing respectively. A signatory authorised to certify more than one category of work should sign in each of the appropriate places.

4. The time interval recommended before the first periodic inspection must be inserted. The proposed date for the next inspection should take into consideration the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life, and the period should be agreed between the designer, installer and other

   together with the total number of sheets involved.

6. The maximum prospective value of fault current (I_{pf}) recorded should be greater of either the prospective value of short-circuit current or the prospective value of earth fault current.

Guidance for Recipients (to be appended to the Certificate)

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

You should have received an 'original' Certificate and the contractor should have retained a duplicate. If you were the person ordering 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 of 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.