



ELECTRICAL INSTALLATION CERTIFICATE (SINGLE-SIGNATURE)

For use where design, construction, inspection and testing are the responsibility of one person

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671 [IET WIRING REGULATIONS])

SELECT
MEMBERSHIP
NUMBER
42040

SSC 280155
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This certificate is not valid if the number is defaced or altered

DETAILS OF THE CLIENT	INSTALLATION ADDRESS
Grant Property Solutions Ltd 14 Coates Crescent Edinburgh EH3 7AF	10 (4F2) Marchmont Crescent Edinburgh EH9 1HN

DESCRIPTION AND EXTENT OF THE INSTALLATION	
Description of installation: Domestic flat wired in PVC/PVC cabling with 18th Edition Consumer Unit Extent of installation covered by this Certificate: Full rewire and installation of new accessories throughout	New installation <input checked="" type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/>

FOR DESIGN, CONSTRUCTION, INSPECTION AND TESTING	
I being the person responsible for the Design, Construction, Inspection and Testing of the electrical installation (as indicated by my signature), 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 work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2018, amended to 01/07/2018 (date) except for the departures, if any, detailed as follows: Details of departures from BS 7671 (Regulations 120.3, 133.1.3 and 133.5) and comments on existing installation: Details of permitted exceptions (Regulation 411.3.3). Where applicable, a suitable risk assessment(s) must be attached to this Certificate. Risk assessment attached <input type="checkbox"/>	Name (IN BLOCK LETTERS): RORY MACKAY For and on behalf of CRB ELECTRICAL 16 West Gorgie Parks Edinburgh Position Electrician Date: 02/10/2021 Signature: I recommend that this installation is further inspected and tested after an interval of not more than 5 Years The attached schedule of inspections and schedule(s) of test results are part of this document and this Certificate is only valid when they are attached to it.

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS			
Nature of Supply Parameters Nominal voltage 230 V Nominal Frequency 50 Hz Prospective fault current, I_{pf} 1.2 kA External loop impedance, Z_e 0.29 Ω	Number and Type of Live Conductors 1-phase, 2-wire <input checked="" type="checkbox"/> 2-phase, 3-wire <input type="checkbox"/> 3-phase, 3-wire <input type="checkbox"/> 3-phase, 4-wire <input type="checkbox"/>	Supply Protective Device Characteristics BS (EN) BS 1361 Type 2 Rated current 60 A	Distributor's facility <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> TN-S <input type="checkbox"/> TN-C-S <input type="checkbox"/> TT <input type="checkbox"/> Other sources of supply
		Earthing arrangements Installation earth electrode <input type="checkbox"/> Type (e.g. rod(s), tape etc) N/A Location N/A Electrode resistance to earth Ω	

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE			
Maximum Demand Load 8 KVA	Main Switch / Switch-Fuse / Circuit-Breaker / RCD Location Hallway Current Rating 100 A Fuse/device rating or setting A Voltage rating 230 V		If RCD main switch Rated residual operating current ($I_{\Delta n}$) mA Rated time delay ms Measured operating time (at $I_{\Delta n}$) ms
Polarity and Phase Sequence Supply polarity confirmed <input checked="" type="checkbox"/> Phase sequence confirmed <input type="checkbox"/> (where appropriate)	BS (EN) EN 60947-3 No. of poles 2	Main Protective Conductors Earthing conductor: material Copper csa 16 mm ² Connection / continuity verified <input checked="" type="checkbox"/> Main protective bonding conductors: material Copper csa 10 mm ² Connection / continuity verified <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:	

ELECTRICAL INSTALLATION CERTIFICATE (SINGLE-SIGNATURE)

GUIDANCE FOR RECIPIENTS

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 one or more skilled persons competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 of this 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. 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.

The personal data entered on this form is gathered because it is necessary in order to allow the discharging of a contract, and to support the legitimate business interests of the contractor. If you would like to know more about your personal data rights under GDPR, please ask your contractor for more information, or visit www.ico.org.uk.

SCHEDULE OF INSPECTIONS

(for new installation work only)
SSC 280155

NOTE 1: All items inspected 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 Outcome for each item as follows:

To indicate that an inspection has been carried out and the result is **satisfactory**: ✓
To indicate that the inspection is **not applicable** to a particular item: N/A

ITEM NO.	DESCRIPTION	OUTCOME 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	✓
1.5	Metering equipment	✓
1.6	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 & protective bonding arrangements:	
	a) Distributors earthing arrangement (542.1.2.1; 542.1.2.2)	✓
	b) Installation earth electrode where applicable (542.1.2.3; 542.2)	N/A
	c) Earthing conductor and connections, including accessibility (542.3; 543.1.1; 543.3.2)	✓
	d) Main protective bonding conductors and connections including accessibility (411.3.1.2; 543.3.2; 544.1)	✓
	e) Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	✓
3.2	RCD(s) provided for fault protection (411.4.204; 411.5; 531.3)	✓
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 material (416.1)	✓
	b) Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of additional protection methods:	
	a) RCD(s) not exceeding 30 mA operating current (415.1; Part 7) see item 8.14 of this schedule	✓
	b) 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:	
	a) SELV systems, including the source & associated circuits (Section 414)	N/A
	b) PELV systems, including the source & associated circuits (Section 414)	N/A
	c) Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	✓
	d) Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	N/A

ITEM NO.	DESCRIPTION	OUTCOME Note 2
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; 513.1)	✓
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 Section 537)	✓
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 & rating of protective devices for overcurrent & fault protection (Sections 411, 432, 433)	✓
7.10	Presence of appropriate circuit charts, warning and other notices:	
	a) Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
	b) Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	N/A
	c) Periodic inspection and testing notice (514.12.1)	✓
	d) RCD six-monthly test notice; where required (514.12.2)	✓
	e) AFDD six-monthly test notice; where required (421.1.7; 532.6; 643.10)	N/A
	f) Warning notice of non-standard (mixed) colours of conductors present (514.14)	N/A
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) & Band II (LV) circuits, & electrical & non-electrical services (Section 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)	✓
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 30 mA (415.1):	
	a) Socket-outlets rated at 32 A or less, unless exempt (411.3.3)	✓
	b) Supplies for mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	N/A
	c) Cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	✓
	d) Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	✓
	e) Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
	a) Means of switching off for mechanical maintenance (Section 464; 537.3.2)	✓
	b) Emergency switching off (Section 465; 537.3.3)	N/A
	c) Functional switching, for control of parts of the installation and current-using equipment (463.1; 537.3.1)	✓
	d) Firefighters 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 machine, 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.	✓
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



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

Zs at DB 0.29 (Ω)

DB Reference no: DB1

RCD Main Switches, Lighting, Boiler, Smoke Detectors

Ipf at DB 1.2 (kA)

DB Location & Type Hallway 10Way Dual RCD CU

Phase sequence confirmed (where appropriate):

Correct supply polarity confirmed:

CIRCUIT DETAILS										TEST RESULTS												
No	Circuit Description	No of points	Wiring Details				Protective Device (lowest breaking capacity 6 kA)		Continuity				# Insulation Resistance (Lowest values measured)		Polarity	Z _s (Max measured values)	RCD Protection (500% test for RCDs rated at 30 mA or less only)			Functional tests of switch-gear etc. *	Remarks Indicate points of note e.g: •Additional outlets equipment supplied •Provision of AFDD for circuit •Reduced IR test voltage	
			Type (See code below)	Ref Method †	Conductor csa				(R ₁ + R ₂) or R ₂		Ring Final Circuit						MΩ	IΔ _n				Time (ms)
					mm ²	Type			Amps	(R ₁ + R ₂)	R ₂	L-L						N-N	cpc-cpc			
			Live	cpc	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω			Ω	Ω	Ω			Ω
1	Shower	1	A	C	10	4	B	40	0.20					299	299	✓	0.49	30	123.0	27.4	✓	
2	Kitchen Sockets	7	A	C	2.5	1.5	B	32	0.16		0.24	0.24	0.41	299	299	✓	0.38	30	123.0	27.4	✓	
3	Boiler	1	A	C	2.5	1.5	B	16	0.13					299	299	✓	0.42	30	123.0	27.4	✓	
4	Smoke Alarm	6	A	C		1	B	6	0.75					299	299	✓	1.04	30	123.0	27.4	✓	
5	Security Alarm	1	A	C	2.5	1.5	B	6	0.03					299	299	✓	0.32	30	123.0	27.4	✓	
6	Cooker	1	A	C	6	2.5	B	32	0.30					299	299	✓	0.59	30	159.2	38.1	✓	
7	Sockets	7	A	C	2.5	1.5	B	32	0.14		0.21	0.21	0.36	299	299	✓	0.38	30	159.2	38.1	✓	
8	Sockets	7	A	C	2.5	1.5	B	32	0.22		0.32	0.32	0.54	299	299	✓	0.39	30	159.2	38.1	✓	
9	Lighting		A	C	1.5	1	B	6	0.63					299	299	✓	0.92	30	159.2	38.1	✓	
10	Lighting		A	C	1.5	1	B	6	1.14					299	299	✓	1.43	30	159.2	38.1	✓	

† Insert Reference Method (see Table 4A2 from BS 7671 Appendix 4)

#IR test voltage 500 V DC unless stated in 'Remarks'

*Includes RCD and/or AFDD test button

Code for Wiring Type	A	B	C	D	E	F	G	H	O (Other - please specify)
	PVC/PVC	PVC in Metal Conduit	PVC in Plastic Conduit	PVC in Metal Trunking	PVC in Plastic Trunking	PVC/SWA	XLPE/SWA	Mineral Insulated	

TEST INSTRUMENTS USED											
Manufacturer	Type	Serial No.	Date Accuracy Verified	Manufacturer	Type	Serial No.	Date Accuracy Verified	Manufacturer	Type	Serial No.	Date Accuracy Verified
Megger	Multi-function Instalatic	6111-754	17/03/2021								