NAPIT *Electrical Installation Certificate (Single Signature)*

Domestic and Similar Premises with up to 100 A Supply

Requirements for Electrical Installations – BS 7671:2018
(IET Wiring Regulations 18th Edition)

NA/EIC 006414

1 Details of the Installation

Client MRS. S. VASILI	Installation (If different from client)
Address 14 HALL PARK YORK	Address 42 BARBICAN MEWS YORK
Postcode YO10 5DT	Postcode YO10 5BZ

2 Description, extent and limitations of the installation

Installation is New ☐ Additional ☐ Alteration ☑ Records Available Yes ☑ No ☐ Date of original installation NA

Description of Installation	Extent of installation covered by this Certificate
REPLACEMENT CONSUMER UNIT	ALL ELECTRICAL CIRCUITS.

Details of departure from BS 7671:2018 (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 — Risk assessment attached (Non-dwelling only) —

3 For design, construction, inspection and testing [for sole person responsibility]

I being the person responsible for design, construction, inspection and test of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the design, construction, inspection and test hereby CERTIFY that the design, construction, inspection and test for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2018, in Section 2 as subject of this certificate. The extent of liability of the signatory is limited to the work described.

Next inspection I the designer recommend that this Installation Is further Inspected after an Interval of not more than ☐ (date).

For the DESIGN / CONSTRUCTION / INSPECTION AND TEST of the installation:

Company name P.D. CLARK ELEC LTD	Signature [signature]
Installer P. CLARK	Position TESTER
Company address 57 BRAMLEY GARTH	Date 10/10/23
Postcode YO31 6PQ	NAPIT membership No. 14236

4 Supply characteristics and earthing arrangements

Earthing Arrangements TN-S ☐ TN-C-S ☑ TT ☐ Other ☐ Please specify:

Number and Type of Live Conductors AC ☑ DC ☐ No. of phases 1 No. of wires 2 Confirmation of supply polarity ☑

Nature of Supply Parameters *(Note: (1) by enquiry, (2) by enquiry or by measurement)* Nominal voltage, U/U_0 (1) 240 V Nominal frequency, f (1) 50 Hz

Prospective fault current, I_{pf} (2) 1.6 kA External loop Impedance, Z_e (2) .16 Ω

Supply Protective Device BS (EN) 1361 Type TT Nominal current rating 60 A

Other Sources of Supply (as detailed on attached schedule) —

5 Particulars of installation referred to in this certificate

Means of Earthing Distributor's facility ☑ Installation earth electrode —

Details of installation earth electrode *(where applicable)* Type (e.g. rod(s), tape etc) — Maximum Demand (load) — KVA/Amps

Location — Electrode resistance to earth — Ω

Main Protective Conductors	Material	csa	✓ or Ohm	(Connection/continuity	✓ or Ohm		✓ or Ohm
Earthing conductor	CU	16	✓	To water installation pipes	✓	To structural steel	
Main protective bonding conductor *(to extraneous-conductive-parts)*	CU	10	✓	To gas installation pipes		To lightning protection	
Main supply conductor				To oil installation pipes		Other	

Main Switch

Location CONSUMER UNIT BS(EN) 60947-3 No. of poles 2 Current rating 100

Fuse/device rating or setting — A Voltage rating 230 V

If RCD main switch: Rated residual operating current $I_{\Delta n}$ 30 mA Rated time delay — ms

Measured operating trip time 18 ms Schedule of Inspections and Test Results attached ☐

Comments on existing installation (In the case of addition or alteration see Regulation 644.1.2) use continuation sheet if needed.

PVC/PVC Installation

(For additions or alterations) cables concealed within trunking and conduits, or cables or conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground may not have been Inspected.

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All items inspected to confirm as appropriate, compliance with the relevant clauses in BS 7671:2018

Schedule of Inspections
Outcomes

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

Item No.	Description (Where inadequacies in intake equipment are encountered, it is recommended that the person ordering the report informs the appropriate authority).	Outcome
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]	NA
2.2	Adequate arrangements where a generating set operates in parallel with the public supply [551.7]	NA
3.0	**AUTOMATIC DISCONNECTION OF SUPPLY, PRESENCE AND ADEQUACY OF EARTHING AND PROTECTIVE BONDING ARRANGEMENTS**	
3.1	Distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	✓
3.2	Installation earth electrode (where applicable) (542.1.2.3)	✓
3.3	Earthing conductor and connections, including accessibility (542.3; 543.3.2)	✓
3.4	Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2)	✓
3.5	Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	✓
3.6	RCD(s) provided for fault protection (411.4.204; 411.5.3)	✓
4.0	**BASIC PROTECTION, PRESENCE AND ADEQUACY OF MEASURES TO PROVIDE BASIC PROTECTION (PREVENTION OF CONTACT WITH LIVE PARTS) WITHIN THE INSTALLATION**	
4.1	Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓
4.2	Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	**ADDITIONAL PROTECTION, PRESENCE AND EFFECTIVENESS OF ADDITIONAL PROTECTION METHODS**	
5.1	RCD(s)not exeeding 30 mA operating current (415.1; Part 7) see item 8.14 of this schedule	✓
5.2	Supplementary bonding (415.2; Part 7)	✓
6.0	**OTHER METHODS OF PROTECTION, PRESENCE AND EFFECTIVENESS OF METHODS WHICH GIVE BOTH BASIC AND FAULT PROTECTION**	
6.1	SELV system, including the source and associated circuits (Section 414)	✓
6.2	PELV system, including the source and associated circuits (Section 414)	NA
6.3	Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	✓
6.4	Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	NA
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; 432; 433; 537.3.1.1)	✓
7.10	**CONSUMER UNIT(S) / DISTRIBUTION BOARDS(S) PRESENCE OF APPROPRIATE CIRCUIT CHARTS, WARNING AND OTHER NOTICES**	
7.10.1	Provision of circuit charts/schedules or equivalent forms of information (514.9)	NA
7.10.2	Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓
7.10.3	Periodic inspection and testing notice (514.12.1)	✓
7.10.4	RCD six-monthly test notice; where required (514.12.2)	✓
7.10.5	AFDD six monthly test notice; where required	✓
7.10.6	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)	✓

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Schedule of Inspections
Outcomes

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Item No.	Description	Outcome
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)	NA
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)	NV
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:**	
8.14.1	Socket-outlets rated at 32 A or less, unless exempt (411.3.3)	✓
8.14.2	Supplies for mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	✓
8.14.3	Cables concealed in walls at a depth of less than 50 mm (522.6.202, 522.6.203)	NV
8.14.4	Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	NV
8.14.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
8.15	**PRESENCE OF APPROPRIATE DEVICES FOR ISOLATION AND SWITCHING CORRECTLY LOCATED INCLUDING:**	
8.15.1	Means of switching off for mechanical maintenance (Section 464; 537.3.2)	✓
8.15.2	Emergency switching (465.1; 537.3.3.)	NA
8.15.3	Functional switching, for control of parts of the installation and current-using equipment (463.1; 537.3.1)	✓
8.15.4	Firefighter's switches (537.4)	NA
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 (LIST ALL OTHER SPECIAL INSTALLATIONS OR LOCATIONS PRESENT)**	
11.2		✓
11.3		✓

12.0 SCHEDULE OF TESTS (RESULTS TO BE RECORDED ON SCHEDULE(S) OF TEST RESULT)

12.1	External earth loop impedance Z_e		12.9	Insulation Resistance between Live conductors	✓
12.2	Installation earth electrode R_A		12.10	Insulation Resistance between Live conductors & Earth	✓
12.3	Prospective fault current I_{pf}		12.11	Polarity (prior to energisation)	✓
12.4	Continuity of Earth Conductors		12.12	Polarity (after energisation) including phase sequence	✓
12.5	Continuity of circuit protective conductors		12.13	Earth fault loop impedance	✓
12.6	Continuity of ring final circuit conductors		12.14	RCD(s) / RCBO(s) including selectivity	✓
12.7	Continuity of protective bonding conductors		12.15	Functional testing of RCD devices	✓
12.8	Volt drop verified		12.16	Functional testing of AFDD devices	✓

Inspector's Name P. CLARK

Signature:

Date: 10/10/23

NAPIT *Electrical Installation Test Schedule*

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Client: VASILI | Installation address: 42 BARBICAN MEWS | Postcode:

Complete in every case
- Location of distribution board: HALL
- Distribution board designation: HOUSE
- Number of ways: 10

Complete only if the distribution board is not connected directly to the origin of the installation
- Supply to DB is from:
- Overcurrent protective device for the distribution circuit: No. of phases: Nominal Voltage: V
- Type BS(EN): Rating: A
- Supply polarity confirmed: Phase sequence confirmed:

Characteristics at this distribution board
- Zdb: Ω
- Ipf: kA
- Associated RCD (if any): BS (EN):
- No. of poles:
- $I_{\Delta n}$: mA
- Time Delay (if applicable): ms
- Above 30mA: Operating at 1 $I_{\Delta n}$: ms
- 30mA or below: Operating at 5 $I_{\Delta n}$: ms (if applicable)

Test instrument serial number(s)
- Loop imped.: DTE 554 XL
- Insulation resistance:
- Continuity:
- RCD:

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and line No.	Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductor csa L/N (mm²)	Circuit conductor csa CPC (mm²)	Maximum disconnection time (BS 7671) (s)	Overcurrent protective devices: BS EN Number	Type No.	Rating (A)	Breaking Capacity (kA)	RCD operating current $I_{\Delta n}$ (mA)	BS 7671 Max. permitted value Zs Other 80% Ω	Circuit impedence Ω: Ring final circuits only (measured end to end) r_1	r_n	r_2	Fig 8 check (✓)	All circuits to be completed using R_1, R_2, or R_2, not both: R_1+R_2	R_2	Insulation resistance (Record lower reading): Test Voltage V	L/L L/N (MΩ)	L/E N/E (MΩ)	Polarity (✓)	Max. measured Z_s (Ω)	RCD testing: Above 30mA $I_{\Delta n}$ ms	30mA or below 5 $I_{\Delta n}$ ms	Manual test button operation: RCD (✓)	AFDD (✓)
1	SHOWER	A	A	1	6	2.5	.4	60898	B	40	6	30	.75					.23		500	+900	+900	✓	.30	18	7	✓	✓
2	COOKER	A	A	2	6	2.5	.4	"	B	32	6	"	.99					.26		"	"	"	✓	.36	"	"	✓	✓
3	WATER HEATER	A	A	1	2.5	1	.4	"	B	16	6	"	2.43					.22		"	"	"	✓	.34	"	"	✓	✓
4																												
5	LIGHTS	A	A	11	1	1	.4	"	B	6	6	"	7.8					.77		"	"	"	✓	.96	"	"	✓	✓
6	SOCKETS	A	A	19	2.5	1	.4	60898	B	32	6	"	.99					.38		"	"	"	✓	.59	21	10	✓	✓
7	BATHROOM HEATER	A	A	1	2.5	1.5	.4	"	B	16	6	"	2.43					.18		"	"	"	✓	.37	"	"	✓	✓
8																												
9	SURGE PROTECTION	-		1	6	6	.4	"	B	40	6	"	.75					NA		"	"	"	✓	NA	"	"	✓	✓
10	"																											

Details of Circuits and/or installed equipment vulnerable to damage when testing: NONE

Date(s) dead testing: 10/10/23 To

Date(s) live testing: To

See attached sheets page(s): Of

Tested by: Name (capital letters): P. CLARK

Position: TESTER

Date(s): 10/10/23

Signature:

Wiring Types: A PVC/PVC B PVC cables in metallic conduit C PVC cables in non-metallic conduit D PVC cables in metallic trunking E PVC cables in non-metallic trunking F PVC/SWA cables G SWA/XPLE cables H Mineral insulated O Other