

ELECTRICAL INSTALLATION CERTIFICATE

Requirements For Electrical Installations - BS 7671

Certificate Number:

CGANH10

1 DETAILS OF THE CLIENT

Client: Clive Graham Associates Limited

Address: 1 Vincent Square , London, SW1P 2PN

2 DETAILS AND EXTENT OF THE INSTALLATION

Installation Address: Apartment 10, The Pembridge , 1a Pembridge Gardens , London, W2 4EE

Extent of the installation covered by this certificate: New Build Flats

The installation is: New installation Addition to an existing installation N/A Alteration to an existing installation N/A

3 COMMENTS ON EXISTING INSTALLATION

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

None

4 NEXT INSPECTION

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

5 Years or change of tenant/owner

5 DESIGN, CONSTRUCTION, INSPECTION AND TESTING

I/We being the person(s) responsible for the design, construction, inspection and testing 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, construction, inspection and testing, 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 BS 7671:2018, amended to 2022 except for the departures, if any, detailed as follows.

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

Regarding the cabelling of the fan coil units back to the fuse spurs, this was carried out by a third party company.

Details of permitted exceptions (Regulations 411.3.3):

Risk assessment attached

N/A

No SPD due to Design being before new Amendment.

The extent of liability of the signatory/signatories 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:

Name: Jordan Heavens Position: Electrical Site Supervisor Signature:  Date: 28/11/2023

6 DETAILS OF THE ELECTRICAL CONTRACTOR

Trading Title: DTX Solutions

Address: Unit 4 Katherine Mews
Warlingham
Whyteleafe

Registration Number (if applicable): 18578

Telephone Number: 02039729212

Postcode: CR3 0HJ

7 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements	Number and Type of Live Conductors		Nature of Supply Parameters		Supply Protective Device
TN-S: <input type="checkbox"/> N/A	1-phase (2-wire): <input type="checkbox"/> N/A	2-phase (3-wire): <input checked="" type="checkbox"/>	Nominal voltage, U/Uo: <input type="text" value="400/230V"/>	BS (EN): <input type="text" value="88-2"/>	
TN-C-S: <input checked="" type="checkbox"/>	3-phase (3-wire): <input type="checkbox"/> N/A	3-phase (4-wire): <input type="checkbox"/> N/A	Nominal frequency, f: <input type="text" value="50 Hz"/>	Type: <input type="text" value="2"/>	
TT: <input type="checkbox"/> N/A	Other: <input type="text" value="N/A"/>		Prospective fault current, Ipf: <input type="text" value="1.72 kA"/>	Rated current: <input type="text" value="100 A"/>	
	Confirmation of supply polarity: <input checked="" type="checkbox"/>		External earth fault loop impedance, Ze: <input type="text" value="0.13 Ω"/>		

8 PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing	Details of Installation Earth Electrode (where applicable)			
Distributor's facility: <input checked="" type="checkbox"/>	Type: <input type="text" value="N/A"/>	Location: <input type="text" value="N/A"/>		
Installation earth electrode: <input type="checkbox"/> N/A	Resistance to Earth: <input type="text" value="N/A Ω"/>	Method of measurement: <input type="text" value="N/A"/>		
Maximum Demand (Load): <input type="text" value="100 Amp"/>				
Main Switch / Switch-Fuse / Circuit-Breaker / RCD				
Location: <input type="text" value="Basement Meter Room"/>	BS (EN): <input type="text" value="88-2"/>	Number of poles: <input type="text" value="2"/>		
Current rating: <input type="text" value="100 A"/>	Fuse/device rating or setting: <input type="text" value="100 A"/>	Voltage rating: <input type="text" value="240 V"/>		
If RCD main switch:				
RCD Type: <input type="text" value="N/A"/>	Rated residual operating current (I _{Δn}): <input type="text" value="N/A mA"/>	Rated time delay: <input type="text" value="N/A ms"/>	Measured operating time: <input type="text" value="N/A ms"/>	
Earthing and Protective Bonding Conductors		Bonding of extraneous-conductive parts		
Earthing conductor	Conductor material: <input type="text" value="Copper"/>	csa: <input type="text" value="35 mm<sup>2</sup>"/>	Connection/continuity verified: <input checked="" type="checkbox"/>	
			To water installation pipes: <input checked="" type="checkbox"/>	To gas installation pipes: <input type="checkbox"/> N/A
Main protective bonding conductors	Conductor material: <input type="text" value="Copper"/>	csa: <input type="text" value="35 mm<sup>2</sup>"/>	Connection/continuity verified: <input checked="" type="checkbox"/>	To oil installation pipes: <input type="checkbox"/> N/A
			To structural steel: <input type="checkbox"/> N/A	To lightning protection: <input type="checkbox"/> N/A
				To other service(s): <input type="text" value="N/A"/>

9 SCHEDULE OF INSPECTIONS

Item	Description	Outcome
1.0	Condition of consumer's intake equipment (visual inspection only)	Pass
2.0	Parallel or switched alternative sources of supply	N/A
3.0	Protective measure: Automatic disconnection of supply	Pass
4.0	Basic protection	Pass
5.0	Protective measures other than ADS	Pass
6.0	Additional protection	Pass
7.0	Distribution equipment	Pass
8.0	Circuits (Distribution and Final)	Pass
9.0	Isolation and switching	Pass
10.0	Current-using equipment (permanently connected)	Pass
11.0	Identification and notices	Pass
12.0	Location(s) containing a bath or shower	Pass
13.0	Other special installations or locations	N/A
14.0	Prosumer's low voltage electrical installation(s)	N/A

All boxes must be completed. 'Pass' indicates that an inspection or test was carried out and that the result was satisfactory. 'Fail' indicates that an inspection or test was carried out and the result is not satisfactory. 'N/A' indicates that an inspection or test was not applicable to the particular installation. 'LIM' indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection or test being carried out.

DISTRIBUTION BOARD DETAILS

DB reference: **DB Apartment 110** Location: **Utility Cupboard** Supplied from: **Basement Meter Room Isolator 01**

Distribution circuit OCPD: BS (EN): **60947** Type: **2** Rating/Setting: **100 A** No of phases: **1**

SPD Details: Types: T1 **N/A** T2 **N/A** T3 **N/A** **N/A** **N/A** Status indicator checked (where functionality indicator present) **N/A**

Confirmation of supply polarity Confirmation of phase sequence Zs at DB: **0.12 Ω** Ipf at DB: **1.97 kA**

SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

CIRCUIT DETAILS													TEST RESULT DETAILS																			
Circuit number	Circuit description	Conductor details						Overcurrent protective device					RCD				Continuity (Ω)				Insulation resistance			Zs	RCD	AFDD						
		Type of wiring	Reference method	Number of points served	Number and size		Max disconnect time permitted by BS7671 (s)	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Maximum permitted Zs (Ω)	BS (EN)	Type	Rated operating current (mA)	Rating (A)	Ring final circuit			R1+R2 or R2		Test voltage (V)	Live - Live (MΩ)				Live - Earth (MΩ)	Polarity (tick)	Maximum measured (Ω)	Disconnection time (ms)	Test button operation (tick)	Manual test button operation (tick)
					Live (mm ²)	cpc (mm ²)											r1 (line)	r _n (neutral)	r2 (cpc)	R1+R2	R2											
Circ 1	Smoke Alarms	A	C	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	A	30	N/A	-	-	-	0.47	N/A	500	>999	> 999	✓	0.55	-	N/A	N/A			
Circ 2	Condensor	A	C	1	6	6	0.4	60898	B	32	6	1.37	61008	A	30	N/A	-	-	-	0.33	N/A	500	>999	> 999	✓	0.45	-	N/A	N/A			
RCD	RCD 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61008	A	30	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.6	✓	N/A			
Circ 3	HOB	A	C	1	6	2.5	0.4	60898	B	32	6	1.37	61008	A	30	N/A	-	-	-	0.15	N/A	500	>999	> 999	✓	0.27	RCD1	N/A	N/A			
Circ 4	Kitchen Ring	A	C	3	2.5	1.5	0.4	60898	B	32	6	1.37	61008	A	30	N/A	0.32	0.32	0.49	0.17	N/A	500	>999	> 999	✓	0.29	RCD1	N/A	N/A			
Circ 5	MVHR	A	C	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	A	30	N/A	-	-	-	0.14	N/A	500	>999	> 999	✓	0.26	RCD1	N/A	N/A			
Circ 6	Living Room Ring	A	C	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	A	30	N/A	0.39	0.39	0.30	0.23	N/A	500	>999	> 999	✓	0.35	RCD1	N/A	N/A			
Circ 7	Kitchen Lights	A	C	6	1.5	1.0	0.4	60898	B	10	6	4.37	61008	A	30	N/A	-	-	-	1.52	N/A	500	>999	> 999	✓	1.64	RCD1	N/A	N/A			
Circ 8	Utility Sockets + UFH	A	C	2	2.5	1.5	0.4	60898	B	16	6	2.73	61008	A	30	N/A	-	-	-	0.16	N/A	500	>999	> 999	✓	0.28	RCD1	N/A	N/A			
RCD	RCD 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61008	A	30	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	✓	N/A			
Circ 9	Bedroom Ring	A	C	3	2.5	1.5	0.4	60898	B	32	6	1.37	61008	A	30	N/A	0.67	0.64	0.30	0.26	N/A	500	>999	> 999	✓	0.38	RCD2	N/A	N/A			

CODES FOR TYPE OF WIRING	A	B	C	D	E	F	G	H	O - Other
	Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in nonmetallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in nonmetallic trunking	Thermoplastic /SWA cables	Thermosetting /SWA cables	Mineral insulated cables	N/A

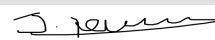
DETAILS OF TEST INSTRUMENTS

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

Multi-functional: Insulation resistance: Continuity:

Earth electrode resistance: Earth fault loop impedance: RCD:

TESTED BY

Name: **Jordan Heavens** Position: **Electrical Site Supervisor** Signature:  Date: **13/06/2023**

ELECTRICAL INSTALLATION CERTIFICATE 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 and inspected and tested in accordance with BS 7671.

You should have received an 'original' Certificate and the person that issued the certificate 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 BS 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 alteration or addition to an existing installation. It should not have been issued for a periodic inspection 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(s) of Inspections and the Schedule(s) of Test Results.

Where the installation includes a residual current device (RCD) it should be tested six-monthly by pressing the button marked 'T' or Test. The device should switch off the supply and should then be switched on to restore the supply. If the device does not switch off the supply when the button is pressed, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes an arc fault detection device (AFDD) having a manual test facility it should be tested six-monthly by pressing the test button. Where an AFDD has both a test button and automatic test function, manufacturer's instructions shall be followed with respect to test button operation.

Where the installation includes a surge protective device (SPD) the status indicator should be checked to confirm it is in operational condition in accordance with manufacturer's information. If the indication shows that the device is not operational, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes alternative or additional sources of supply, warning notices should be found at the origin or meter position or, if remote from the origin, at the consumer unit or distribution board and at all points of isolation of all sources of supply.