ELECTRICAL INSTALLATION CERTIFICATE
[BS 7671: 2018+A2:2022 as amended]

for Industrial/Commercial Premises

Requirements for Electrical Installations
BS7671 :2018+A2:2022 (IET Wiring Regulations 18th Edition)

FT/EIC 8170000001274

Andrews' Building Contractors

Client Details

Client	Dart & Partners	Installation	C/O Dart & Partners
Address	12 The Triangle Triangle Park Teignmouth Devon	Address	11 Brunswick Place Brunswick Barbers DAWLISH
Postcode	TQ14 8AT	Postcode	TQ14 0EA

Details of the Installation

Description of premises Domestic ☐ Commercial ☑ Industrial ☐ Date of original installation: Not specified

Installation is New ☐ Addition ☐ Alteration ☑ Records Available Yes ☐ No ☑ RCD Risk assessment attached ☐

Description of the installation

Consumer Unit Change - Earthing Upgrade - Bonding to water. - Note: This test certificate covers the current earthing setup and main fuse, National Grid are due to attend site on March 2nd to replace the main head and alter earthing system to TNC-S, at this point a re-test will need to be carried out.

Extent of the installation covered by this certificate

100% of fixed wiring without access to cables in walls, above ceilings or anywhere that may cause damage to the property.

Details of departures from BS 7671 (regulations 120.3, 133.1.3 and 133.5)

none

Details of permitted exception. (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate

none

Declaration for Design, Construction, Inspection and Testing (for sole person responsibility)

I being the person responsible for design, construction, inspection and the 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, amended to 2022 except for the departures, if any, listed below. The extent of liability of the signatory or the signatories is limited to work described in Section 2 as subject of this certificate.

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

Company	Andrews' Building Contractors Ltd	Position	Electrician
Inspector Name	Simon Hammond	Date	02/02/2023
Address	Casa Blanca Lower Penns Road Paignton TQ3 1JE	Scheme No.	Branch No. 001
		Signature	

Reviewed By	Simon Hammond	Reviewed By Signature	
Reviewed By Date	06/02/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 1 months

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Supply Characteristics and Earthing Arrangements

Earthing Arrangements TN-S ☐ TN-C-S ☐ TT ☑ Other ☐ If Other please specify: N/A

Number & Type of live conductors AC ☑ DC ☐ No. of phases: 1 No. of wires: 2

Nature of Supply Parameters (Note: (1) by enquiry, (2) by enquiry or by measurement)

Nominal voltage, U/U_0 (1)	230 v	Nominal frequency, f (1)	50 Hz	Confirmation of polarity	☑
Prospective fault current, I_{pf} (2)	2.04 kA	External loop impedance, Z_e (2)	286 Ω		
Supply Protective Device BS (EN)	LIM	Type: LIM	Rated Current: LIM A		
No. of Additional Supplies	N/A				

Particulars of Installation at the Origin

Means of Earthing

Details of installation Earth Electrode (where applicable) Type (e.g. rod(s), tape etc): Rods — Distributors facility ☐ Installation Earth Electrode ☑

Location: Shop Front & Next Door — Electrode resistance to earth: 284 Ω — Maximum Demand (load): 50 Amps ☑ KVA ☐

Main Protective Conductors	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	10x2	mm²	Continuity Verified ☑	Ω	Connection Verified ☑	Ω
Protective Bonding Conductor	Copper	10	mm²	Continuity Verified ☑	Ω	Connection Verified ☑	Ω

	Material	csa		(connection / continuity)	(✓) or Value		(✓) or Value	
Main Supply Conductor	Copper	25	mm²	Water installation ☑	Ω	To structural steel NA	Ω	
Main Switch Location: Cupboard Left of front door				Gas installation pipes NA	Ω	To lightning protection NA	Ω	
				Oil installation pipes NA	Ω	Other	NA	Ω

Fuse/device rating or setting Switch A Voltage rating: 230 V BS(EN): 60947-3 No. of Poles: 2 Current Rating: 100 A

If RCD main switch: Rated residual operating current I Δn: N/A mA Rated time delay: N/A ms Measured operating trip time: N/A ms

Comments on existing installation (in case of addition or alteration see section 644.1.2) use continuation sheet if needed

Generally good client side installation - service head and incoming earthing have issues that will be address shortly

(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.

Schedule of Inspection - Outcomes

Indicates an inspection has been carried out and the result is satisfactory	✓	Indicates the inspection is not applicable to a particular item	N/A

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

SCHEDULES: **This cerificate is only valid when** (enter quantities of schedules attached) 1 **schedules of circuit details and test results are attached**

Inspector's Name: Simon Hammond Signature

Date: 02/02/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

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Client Address	12, The Triangle Triangle Park, Teignmouth, Devon	**Postcode**	TQ14 0EA
Client Postcode	TQ14 8AT		

Distribution board details - Complete in every case

SPD Details: Type(s)* T1 ☐ T2 ☐ T3† ☐ N/A ☐

Location: Cupboard Left of Front Door

Designation: DB 1

No. of ways: 8

Complete only if the distribution board is not connected directly to the origin of the installation

Overcurrent protective device for the distribution circuit: Supply to distribution board is from

No. of phases: 1 BS(EN): Type: Rating: A

Nominal voltage: 230 V RCD BS(EN): Type: Rating: IΔn mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method :j:	No. of points served	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection time (BS 7671) (S)	Overcurrent protective devices BS EN Number	Overcurrent protective devices Type No.	Overcurrent protective devices Rating (A)	Breaking capacity (KA)	BS 7671 Max. permitted Zs Other Other § 80% (Ω)	RCD BS EN Number	RCD Type No.	RCD IΔn (mA)	RCD Rating (A)
1/S	WATER HEATER	A	100	1	10	4	1	61009 RCD/RCBO	B	40	6	1667	61009	AC	30	40
2/S	SOCKETS FRONT	A	100	14	2.5	1.5	0.2	61009 RCD/RCBO	B	32	6	1667	61009	AC	30	32
3/S	SOCKETS REAR	A	100	6	2.5	1.5	0.2	61009 RCD/RCBO	B	32	6	1667	61009	AC	30	32
4/S	LIGHTING	A	100	11	1	1	0.2	61009 RCD/RCBO	B	6	6	1667	61009	AC	30	6
5/S	SPARE	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
6/S	SPARE	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
7/S	SURGE MCB	A	C	1	6	6	0.4	60898 MCB	B	32	6	1.09	-	-	-	-
8/S	SURGE UNIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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, **MW** Metal Work, **FM** Ferrous Metal, **O** Other

* SPD Type. Where a combined T1 + T2 or T2 + T3 device is installed, indicate by ticking both boxes.
t Where a T3 SPD is installed to protect sensitive equipment, enter Details of Circuits, of the Schedule of Test Results. (See Section 534 of BS 7671:2018+A2:2022.)
:j: See Table 4A2 of Appendix 4 of BS 7671:2018+A2:2022.
§ Where the maximum permitted earth fault loop impedance value stated in Max Zs column is taken from a source other than the tabulated values given in Chapter 41 of BS 7671:2018+A2:2022, state the source of the data in the appropriate cell for the circuit in the change to Schedule of Test Results

ELECTRICAL INSTALLATION CERTIFICATE - Test Results

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		Installation Postcode	TQ14 0EA

Distribution board details - Complete in every case

Location: Cupboard Left of Front Door
Designation: DB 1
No. of ways: 8 ☑ Supply polarity confirmed ☐ Phase sequence confirmed
No. of phases: 1 SPD: ☑ Operational status confirmed ☐ Not applicable

Complete only if the distribution board is not connected directly to the origin of the installation

Associated RCD (if any): BS (EN)
Z_{db} 286 Ω Operating at IΔn ms
I_{pf} 2.04 kA No. of poles Time delay (if applicable)

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	rn	r2	Fig 8 check (✓)	R1R2 or R2: R1 + R2	R2	Insulation resistance (Record lower reading): Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity	Max. Measured Zs (Ω)	RCD testing: All RCDs IΔn ms	Manual test button operation: RCD (✓)	AFDD (✓)
1/S	N/A	N/A	N/A	N/A	0.18	N/A	250	>299	>299	✓	286	24	✓	N/A
2/S	0.27	0.28	0.50	✓	0.21	N/A	250	>299	>299	✓	286	24	✓	N/A
3/S	0.35	0.35	0.54	✓	0.23	N/A	250	>299	>299	✓	286	24	✓	N/A
4/S	N/A	N/A	N/A	N/A	1.27	N/A	250	>299	>299	✓	287	24	✓	N/A
5/S	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
6/S	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
7/S	N/A	N/A	N/A	N/A	-	-	-	-	-	✓	-	-	N/A	N/A
8/S	N/A	N/A	N/A	N/A	-	-	-	-	-	✓	-	-	N/A	N/A

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

Date(s) dead testing 02/02/2023 To 02/02/2023
Date(s) live testing 02/02/2023 To 02/02/2023

Test instrument serial number(s)

Loop impedance 18091173 Insulation resistance 18091173 Continuity 18091173 RCD 18091173 E/Electrode 18091173

Tested by: Name (capital letters) SIMON HAMMOND Signature

Position Electrician Date 06/02/2023

Andrews' Building Contractors

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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 BS 7671 (the IET Wiring Regulations).

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 this work, but not the owner of the installation, you should pass this Certificate, or a full copy of it, immediately to the owner. The original Certificate is to be retained in a safe place and be shown to any person inspecting or undertaking 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 document.

For safety reasons, the electrical installation will need to be re-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 in Section 3 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 the Schedule of Inspections has been completed to confirm that all relevant inspections have been carried out and where accompanied by Schedule(s) of Circuit Details and 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.