ELECTRICAL INSTALLATION CERTIFICATE

Requirements for Electrical Installations - BS 7671: 2018+A2:2022
(IET Wiring Regulations 18th Edition)

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.

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 3486000001704

NICEIC APPROVED CONTRACTOR

Mr. Electric™

Client Details

Client	WESSEX RFCA	Installation	TORPOINT PLATOON
Address	MOUNT HOUSE MOUNT STREET TAUNTON SOMERSET	Address	TORPOINT PLATOON ANTHONY ROAD TORPOINT CORNWALL
Postcode	TA1 3QU	Postcode	PL11 2JX

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

INSTALLATION OF NEW DISTRIBUTION BOARD ONE AND COMPLETION OF ALL REMEDIAL WORKS PREVIOUSLY NOTED

Extent of the installation covered by this certificate

INSTALLATION OF NEW DISTRIBUTION BOARD ONE AND COMPLETION OF ALL REMEDIAL WORKS PREVIOUSLY NOTED

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

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

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 2015 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	Technical Electrical Engineering Ltd t/a Mr Electric	Position	Technician
Inspector Name	Leo Kessell	Date	12/10/2022
Address	Wheal Kitty Studios Wheal Kitty St Agnes TR5 0RD	Scheme No.	019875
		Branch No.	
		Signature	L. Kessell

Reviewed By	Steve Creese	Reviewed By Signature	
Reviewed By Date	03/11/2022		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 5 years

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 3486000001704

NICEIC APPROVED CONTRACTOR

Mr. Electric™

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: 3 No. of wires: 4

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

Nominal voltage, U/U_0 (1)	400/230 v	Nominal frequency, f (1)	50 Hz	Confirmation of polarity	☑
Prospective fault current, I_{pf} (2)	2.46 kA	External loop impedance, Z_e (2)	0.31 Ω		
Supply Protective Device BS (EN)	1361 Fuse HBC 1	Type: 1	Rated Current: 100 A		

No. of Additional Supplies: 0

Particulars of Installation at the Origin

Details of installation Earth Electrode (where applicable) Type (e.g. rod(s), tape etc): Location: Electrode resistance to earth: Ω

Means of Earthing: Distributors facility ☐ Installation Earth Electrode ☑

Maximum Demand (load): 100 Amps ☑ KVA ☐

Main Protective Conductors	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	25	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: MAIN HALL				Gas installation pipes	NA	Ω	To lightning protection	NA Ω
				Oil installation pipes	NA	Ω	Other	☐ Ω

Fuse/device rating or setting: 100 A Voltage rating: 400 V BS(EN): 60947-3 No. of Poles: 3 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

ARMOURY WAS LOCKED AND NOT ACCESSIBLE, THEREFORE LIMITAION ON INSPECTION AND TEST IN THIS AREA.

(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)	N/A	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	N/A	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: Leo Kessell Signature: L Kessell

Date: 12/10/2022

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

for Industrial/Commercial Premises

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

FT/EIC 3486000001704

NICEIC APPROVED CONTRACTOR

Mr. Electric™

Client Name	WESSEX RFCA	**Installation Address**	TORPOINT PLATOON, TORPOINT PLATOON, ANTHONY ROAD, TORPOINT, CORNWALL
Client Address	MOUNT HOUSE, MOUNT STREET TAUNTON, SOMERSET	**Postcode**	PL11 2JX
Client Postcode	TA1 3QU		

Distribution board details - Complete in every case

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

Location: MAIN HALL
Designation: DB 1
No. of ways: 12

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: 3 BS(EN): NA Type: NA Rating: NA A
Nominal voltage: NA V RCD BS(EN): N/A Type: N/A Rating: 100 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 § 100% (Ω)	RCD BS EN Number	RCD Type No.	RCD IΔn (mA)	RCD Rating (A)
1/L1	SOCKETS CRAFT ROOM	A	B	5	2.5	1.5	0.4	61009 RCD/RCBO	C	32	6	0.68	61009	A	30	32
1/L2	SOCKETS LECTURE RM & ARMOUR	A	B	4	2.5	1.5	0.4	61009 RCD/RCBO	C	32	6	0.68	61009	A	30	32
1/L3	SOCKETS NAFFI STORE & CANTEEN	A	B	4	2.5	1.5	0.4	61009 RCD/RCBO	C	32	6	0.68	61009	A	30	32
2/L1	SOCKETS DRILL HALL & CANTEEN	A	B	6	2.5	1.5	0.4	61009 RCD/RCBO	C	32	6	0.68	61009	A	30	32
2/L2	CANTEEN WATER HEATER	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	C	16	6	1.37	61009	A	30	16
2/L3	LADIES WATER HEATER	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	C	16	6	1.37	61009	A	30	16
3/L1	GENTS WATER HEATER	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	C	16	6	1.37	61009	A	30	16
3/L2	.LIGHTS DRILL HALL	A	B	12	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
3/L3	.LIGHTS CRAFT ROOM	A	B	10	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
4/L1	.LIGHTS CANTEEN & REAR OFFICE	A	B	11	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
4/L2	.LIGHTS DRILL HALL	A	B	12	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
4/L3	.LIGHTS LECTURE, NCO & WC	A	B	11	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
5/L1	.FIRE ALARM	A	A	1	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
5/L2	CONTACTOR CONTROL OVERIDE	A	A	1	1	1	0.4	61009 RCD/RCBO	C	6	6	3.64	61009	A	30	6
5/L3	HEATERS CRAFT ROOM	A	A	2	2.5	1.5	0.4	61009 RCD/RCBO	C	20	6	1.09	61009	A	30	20
6/L1	HEATER 5	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
6/L2	HEATER 1	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	C	16	6	1.37	61009	A	30	16
6/L3	HEATER 2	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
7/L1	HEATER 3	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
7/L2	HEATER 4	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
7/L3	HEATER 7	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
8/L1	HEATER 8	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
8/L2	HEATER 6	A	A	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009	A	30	16
8/L3	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
9/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
10/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
11/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
12/TP	SPARE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				

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

for Industrial/Commercial Premises

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

FT/EIC 3486000001704

NICEIC APPROVED CONTRACTOR

Mr. Electric™

Client Name	WESSEX RFCA	**Installation Address**	TORPOINT PLATOON, TORPOINT PLATOON, ANTHONY ROAD, TORPOINT, CORNWALL
Client Address	MOUNT HOUSE, MOUNT STREET TAUNTON, SOMERSET	**Client Postcode**	TA1 3QU
		Installation Postcode	PL11 2JX

Distribution board details - Complete in every case

Location: MAIN HALL
Designation: DB 1
No. of ways: 12 ☑ Supply polarity confirmed ☑ Phase sequence confirmed
No. of phases: 3 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): N/A
Z_{db}: 0.31 Ω Operating at IΔn: N/A ms
I_{pf}: 2.45 kA No. of poles: N/A Time delay (if applicable): N/A

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/L1	0.64	0.64	LIM	N/A	LIM	N/A	250	LIM	100	✓	0.66	28.5	✓	N/A
1/L2	0.33	0.33	0.55	N/A	0.37	N/A	250	LIM	100	✓	0.42	28.1	✓	N/A
1/L3	0.83	0.83	1.37	N/A	0.48	N/A	250	LIM	100	✓	0.7	28.1	✓	N/A
2/L1	0.53	0.53	0.89	N/A	0.4	N/A	250	LIM	100	✓	0.57	28.2	✓	N/A
2/L2	N/A	N/A	N/A	N/A	0.15	N/A	250	LIM	100	✓	0.53	28.2	✓	N/A
2/L3	N/A	N/A	N/A	N/A	0.24	N/A	250	LIM	100	✓	0.46	28.1	✓	N/A
3/L1	N/A	N/A	N/A	N/A	0.15	N/A	250	LIM	100	✓	0.53	28.2	✓	N/A
3/L2	N/A	N/A	N/A	N/A	0.57	N/A	250	LIM	100	✓	0.82	28	✓	N/A
3/L3	N/A	N/A	N/A	N/A	0.66	N/A	250	LIM	100	✓	0.65	28.1	✓	N/A
4/L1	N/A	N/A	N/A	N/A	0.58	N/A	250	LIM	100	✓	0.69	28.3	✓	N/A
4/L2	N/A	N/A	N/A	N/A	0.5	N/A	250	LIM	100	✓	0.7	28.1	✓	N/A
4/L3	N/A	N/A	N/A	N/A	0.63	N/A	250	LIM	100	✓	0.81	28.2	✓	N/A
5/L1	N/A	N/A	N/A	N/A	0.11	N/A	250	LIM	100	✓	0.41	28.9	✓	N/A
5/L2	N/A	N/A	N/A	N/A	0.03	N/A	250	LIM	100	✓	0.46	27.3	✓	N/A
5/L3	N/A	N/A	N/A	N/A	0.28	N/A	250	LIM	100	✓	0.72	27.2	✓	N/A
6/L1	N/A	N/A	N/A	N/A	0.19	N/A	250	LIM	100	✓	0.75	28.8	✓	N/A
6/L2	N/A	N/A	N/A	N/A	0.1	N/A	250	LIM	100	✓	0.41	28.3	✓	N/A
6/L3	N/A	N/A	N/A	N/A	0.13	N/A	250	LIM	100	✓	0.47	28	✓	N/A
7/L1	N/A	N/A	N/A	N/A	0.14	N/A	250	LIM	100	✓	0.69	27.8	✓	N/A
7/L2	N/A	N/A	N/A	N/A	0.17	N/A	250	LIM	100	✓	0.57	28.1	✓	N/A
7/L3	N/A	N/A	N/A	N/A	0.14	N/A	250	LIM	100	✓	0.5	28.3	✓	N/A
8/L1	N/A	N/A	N/A	N/A	0.12	N/A	250	LIM	100	✓	0.44	27.8	✓	N/A
8/L2	N/A	N/A	N/A	N/A	0.18	N/A	250	LIM	100	✓	0.53	27.4	✓	N/A
8/L3	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
9/TP	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
10/TP	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
11/TP	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
12/TP	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

Details of circuits and/or installed equipment vulnerable to damage when testing
ANY ELECTRONIC DEVICES.

Date(s) dead testing: 12/10/2022 To: 12/10/2022
Date(s) live testing: 12/10/2022 To: 12/10/2022

Test instrument serial number(s)
Loop impedance: 009986101940215 Insulation resistance: 009986101940215 Continuity: 009986101940215 RCD: 009986101940215 E/Electrode:

Tested by: Name (capital letters): LEO KESSELL Signature: L. Kessell
Position: Technician Date: 12/10/2022

Generic Continuation