Minor Electrical Installation Works Certificate

FT/MEIW 8170000001270

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

Andrews' Building Contractors

PART 1 Details of minor works

Client	Richardson Hotels Ltd	Installation	Richardson Hotels Ltd
Address	C/O The Grand Hotel, Seafront Torquay	Address	Grand Hotel, Seafront Torbay Road Torquay
Postcode	TQ2 6NT	Postcode	TQ2 6NT

Work type New ☑ Addition ☐ Alteration ☐ (Schedule of Inspections required if new)

Description of installation work covered by this certificate: 2 X SOCKET / POWER CIRCUIT IN SPA AREA

This installation has been carried out in accordance with BS 7671:2018 (IET Wiring Regulations), amended to: 2022 Records Available Yes ☐ No ☑

Details of departures from BS 7671:2018 (Regulations 120.3, 133.5). See page(s): N/A Date of original installation: 7-25

Comments on the existing installation:

GENERALLY GOOD FOR CONTINUED USE AND SERVICE.

Details of permitted execption (Regulation 411.3.3) Where applicable, a suitable risk assessment(s) must be attached to this certificate. RCD Risk assessment attached ☐

PART 2 Supply Characteristics and Earthing Arrangements

Earthing Arrangements TN-S ☑ TN-C-S ☐ TT ☐ Other ☐ If Other please specify

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 H_z Confirmation of polarity ☑

Prospective fault current, I_{pf} (2): 3.8 kA External loop impedance, Z_e (2): 0.08 Ω

Supply Protective Device BS (EN): LIM Type: LIM Rated Current: LIM A

No. of Additional Supplies: N/A

PART 3 Particulars of Installation Referred to in this Certificate

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) 181 Amps ☑ KVA ☐

	Material	csa	(✓)	or Value
Earthing Conductor	Copper	95	☑	Ω
Protective Bonding Conductor	Copper	70	☑	
Main Supply Conductor	Copper	240		

(connection / continuity)

	(✓)	or Value		(✓)	or Value
Water installation	☑	Ω	To structural steel	☑	Ω
Gas installation pipes	☑	Ω	To lightning protection	☑	Ω
Oil installation pipes	☐	Ω	Other	☐	Ω

Main Switch Location: MAINS ROOM

Fuse/device rating or setting Switch A Voltage rating: 400 V BS(EN): 60947-2 MCCB No. of Poles: 4 Current Rating: 1000 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

Distribution board details - complete in every case

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

Location of distribution board (DB): OLD PULLMAN BAR

DB designation: DB PULLMAN

No. of ways: 6

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: MAINS MCCB UNIT 21TP

No. of phases: 3 BS(EN): 60947-2 MCCB Type: 2 Rating: 63 A

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

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line No.	Circuit designation	Type of wiring	Ref. method ‡	No. of points served	Circuit conductors csa (mm²) Live	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 value Zs Other § 80% Ω	RCD BS EN Number	RCD Type No.	RCD IΔn (mA)	RCD Rating (A)
4L3	NEAR SPA RM SKTS	A	C	6	2.5	1.5	0.4	61009 RCD/RC BO	C	20	10	0.87	61009	AC	30	20
5L2	FAR RM & HALL SKTS	A	C	10	2.5	1.5	0.4	61009 RCD/RC BO	C	20	10	0.87	61009	AC	30	20

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

A/A1 - Single Core PVC Cables (4D1A), A/A2 - Multicore PVC Cables (4D2A), F/F1 - Single-core armoures PVC SWA Cables (4D3A), F/F2 - PVC SWA Cables (4D4A), A/A3 - PVC Twin & Earth (4D5), O/O1 - LSF single core cables 90°C rated (4E1A), O/O2 - Multi-core LSF cables 90°C rated (4E2A), G/G1 - Single-core armoured XLPE cables or 90°C rated (4E3A), G/G2 - Multi-core armoured XLPE cables or 90°C rated (4E4A), H/H1 - MICC exposed to touch (4G1A)

* 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 a protect sensitive equipment, enter Details of Circuites, of the Schedule of Test Results. (See Section 534 of BS 7671:2018+A2:2022.)
‡: 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 Circuit Details

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Distribution board details - complete in every case

Location: OLD PULLMAN BAR

Designation: DB PULLMAN

No. of ways: 6

No. of phases: 3

Supply polarity confirmed: ☑ Phase sequence confirmed: ☑

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} 0.17 Ω Operating at IΔn: ms

I_{pf} 1.45 kA No. of poles:

Time delay (if applicable):

SCHEDULE OF TEST RESULTS

Circuit No. and Line No.	Circuit impedence (Ω)						Insulation resistance (record lower reading)			Polarity	Maximum measured Zs	RCD testing	Manual test button operation		Details of circuits and / or installed equipment vulnerable to damage when testing
	Ring final circuits only (measured end to end)			Figure 8 check	All circuits to be completed using R_1 R_2 or R_2, not both		Test Voltage	L/L, L/N	L/E, N/E			All RCDs IΔn ms	RCD	AFDD	
	r_1	r_n	r_2	(✓)	$R_1 + R_2$	R_2	V	(MΩ)	(MΩ)	(✓)	(Ω)		(✓)	(✓)	
4L3	N/A	N/A	N/A	N/A	0.55	N/A	250	>299	>299	✔	0.72	17	✔	N/A	N/A
5L2	N/A	N/A	N/A	N/A	0.60	N/A	250	>299	>299	✔	0.76	18	✔	N/A	N/A

Test instrument serial number(s)

Multifunction 18091173 E/Electrode 18091173 RCD 18091173

Loop imp. 18091173 Cont. 18091173 Insul res. 18091173

Date(s) dead testing from 20/12/2022 To 22/12/2022

Date(s) live testing from 23/12/2022 To 23/12/2022

Inspector Name: Simon Hammond

Position: Electrician

Reviewed By Date: 23/12/2022

Signature:

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	✓
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

PART 4 Declaration

I, being the person responsible for design, construction, inspection and testing 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 in Section 1. The extent of liability of the signatory or the signatures is limited to work described in Section 1 of this certificate.

Company: Andrews' Building Contractors Ltd

Inspector Name: Simon Hammond

Address: Casa Blanca, Lower Penns Road, Paignton, TQ3 1JE

Reviewed By: Simon Hammond

Reviewed By Date: 10/01/2023

Signature:

Position: Electrician

Date: 23/12/2022

Scheme No.: Branch No. 001

Reviewed By Signature:

NEXT INSPECTION: **I recommend that this installation is further inspected and tested after an interval of not more than** 5 years or on change of occupancy.

Minor Electrical Installation Works 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 contractor 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 copy of it, to the owner.

Separate Certificate(s) should received for each existing circuit on which the minor works have been carried out or each new single circuit.

This Certificate is not appropriate if you have requested the contractor to undertake more extensive installation work, for which you should have received an Electrical Installation Certificate.

The original Certificate is to 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 minor electrical or circuit installation work carried out complied with the requirements of BS 7671 at the time the Certificate was issued.

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.

If this work is domestic and notifiable you should also receive a ‘Compliance with Building Regulations Declaration’ within 30 days of the electrical installation being completed

(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 unless specifically agreed between the client and the inspector prior to the 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 included in the 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.