M01

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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003661

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M01 on Mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

None

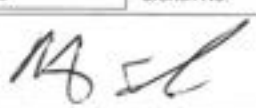
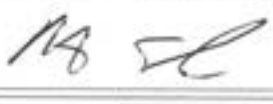
Details of permitted exception (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate

None

Declaration for Design

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners.	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra Nova Way, Penarth Marina Cardiff	Signature	
Reviewed By	M Cole	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

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

FT/EIC 9334000003661

Declaration for Construction

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The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	P.D. Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Gareth Davies
Reviewed By	R Bird	Reviewed By Signature	
Reviewed By Date	21-08-23		

Supply Characteristics and Earthing Arrangements

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

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]	400/230 V	Nominal frequency, f [1]	50 H_z	Confirmation of polarity	☑
Prospective fault current, I_{pf} [2]	2.43 kA	External loop impedance, Z_e [2]	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type gG	Rated Current 80 A		
No. of Additional Supplies	N/A				

ELECTRICAL INSTALLATION CERTIFICATE
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for Domestic and Similar Premises up to 100 A

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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) 80 Amps ✓ KVA

	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	16	mm²	Continuity Verified ✓	Ω	Connection Verified ✓	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified	N/A Ω	Connection Verified	N/A Ω

	Material	csa	
Main Supply Conductor	Copper	16	mm²

Main Switch Location: Utility cupboard in Appartment

(connection / continuity)

	(✓) or Value			(✓) or Value	
Water installation	N/A	Ω	To structural steel	N/A	Ω
Gas installation pipes	N/A	Ω	To lightning protection	N/A	Ω
Oil installation pipes	N/A	Ω	Other	N/A	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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies

Signature: Gareth Davies

Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003661

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment
Designation: Apartment M01
No. of ways: 18

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: Main incomer

No. of phases: 1 BS(EN): 60947-3 Type: N/A Rating: 100 A
Nominal voltage: 230 V RCD BS(EN): 61008 Type: A Rating: 30 IΔn mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductors csa (mm²) L / N	CPC	Maximum disconnection time (BS7671) (S)	Overcurrent protective devices: BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	BS 7671 Max permitted Zs Other Other § 100% (Ω)	RCD: BS EN Number	Type No.	IΔn (mA)	Rating (A)
1/S	Bed/Store sockets	O	103	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Kitchen Sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Living room sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance grid switches	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	1/10	4	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE														30	
7/S	RCD MODULE														30	
8/S	Hob	O	1/10	2	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	
9/S	Immersion/ASHP	O	1/10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	
10/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
11/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	61009	N/A	N/A	
12/S	SPARE															
13/S	RCD MODULE														30	
14/S	RCD MODULE														30	
15/S	Towel Radiator	O	1/10	2	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
16/S	Lighting	O	1/10	25	1.5	1.0	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	
17/S	SPARE															
18/S	SPARE															

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.
† 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.)
‡ 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 Domestic and Similar Premises up to 100 A

Requirements for Electrical Installations
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FT/EIC 9334000003661

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Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode** CF3 2ET	**Installation Postcode** CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M01
No. of ways: 18 ☑ 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) 61008
Z_{ds} 0.10 Ω Operating at $I\Delta n$ ms
I_{pf} 2.27 kA No. of poles 2 Time delay (if applicable) N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	r2	Ring continuity (✓)	R1+R2 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	Earth fault loop impedance Zs (Ω)	RCD testing: All RCDs IΔn ms	Manual test button operation: RCD (✓)	AFDD (✓)
1/S	0.40	0.20	✓	0.18	N/A	500	>500	>500	✓	0.29	37.9	✓	✓
2/S	0.30	0.41	✓	0.15	N/A	500	>500	>500	✓	0.28	37.5	✓	✓
3/S	0.38	0.33	✓	0.22	N/A	500	>500	>500	✓	0.23	38.0	✓	✓
4/S	0.11	0.18	✓	0.38	N/A	500	>500	>500	✓	0.32	38.0	✓	✓
5/S	N/A	N/A	N/A	0.54	N/A	250	>500	>500	✓	0.59	28.5	✓	N/A
6/S	N/A	N/A	N/A						N/A		58.9	✓	N/A
7/S	N/A	N/A	N/A						N/A		58.9	✓	N/A
8/S	N/A	N/A	N/A	0.09	N/A	500	>500	>500	✓	0.27	N/A	N/A	N/A
9/S	N/A	N/A	N/A	0.17	N/A	500	>500	>500	✓	0.37	N/A	N/A	N/A
10/S	N/A	N/A	N/A	0.35	N/A	500	>500	>500	✓	0.34	N/A	N/A	N/A
11/S	N/A	N/A	N/A	0.50	N/A	500	>500	>500	✓	0.53	N/A	N/A	N/A
12/S	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A						N/A		59.0	✓	N/A
14/S	N/A	N/A	N/A						N/A		59.0	✓	N/A
15/S	N/A	N/A	N/A	0.31	N/A	500	>500	>500	✓	0.34	N/A	N/A	N/A
16/S	N/A	N/A	N/A	1.12	N/A	250	>500	>500	✓	1.22	N/A	N/A	N/A
17/S	N/A	N/A	N/A						N/A			N/A	N/A
18/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
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 18/10/2022 To 31/10/2022
Date(s) live testing: 31/10/2022 To 18/11/2022

Test instrument serial number(s)
Loop impedance 233382 Insulation resistance 233382 Continuity 233382 RCD 233382 E/Electrode n/a

Tested by: Name (capital letters) GARETH DAVIES
Position Approved Electrician Date 18/08/2023
Signature Gareth Davies

M02

ELECTRICAL INSTALLATION CERTIFICATE

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[BS 7671: 2018+A2:2022 as amended]

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003662

Client Details

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Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M02 on mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

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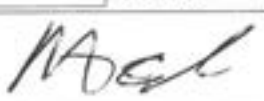
The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann partners	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra nova way, Penarth Marina Cardiff	Signature	
Reviewed By	M. COLE	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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for Domestic and Similar Premises up to 100 A

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The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922
		Branch No.	11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	PD Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922
		Branch No.	
		Signature	Gareth Davies
Reviewed By	R Bird	Reviewed By Signature	
Reviewed By Date	21-08-23		

Supply Characteristics and Earthing Arrangements

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

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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type	gG	Rated Current	80 A
No. of Additional Supplies	N/A				

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003662

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) 80 Amps ✓ KVA

Main Protective Conductors	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	16	mm²	Continuity Verified ✓	Ω	Connection Verified ✓	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified	N/A Ω	Connection Verified	N/A Ω

	Material	csa		(connection / continuity)	(✓) or Value		(✓) or Value
Main Supply Conductor	Copper	16	mm²	Water installation	N/A Ω	To structural steel	N/A Ω
Main Switch Location: Utility cupboard in Appartment				Gas installation pipes	N/A Ω	To lightning protection	N/A Ω
				Oil installation pipes	N/A Ω	Other	N/A 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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies

Signature: *Gareth Davies*

Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

FT/EIC 9334000003662

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment

Designation: Apartment M02

No. of ways: 22

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: Main incomer

No. of phases: 1 — BS(EN): 60947-3 — Type: N/A — Rating: 100 A

Nominal voltage: 230 V — RCD BS(EN): 61008 — Type: A — Rating: 30 ⎓n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Link	Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductors csa (mm²) L / N	CPC	Minimum disconnection times (s)	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	BS 7671 Max permitted Zs 100% (Ω)	RCD BS EN Number	RCD Type No.	RCD I∆n (mA)	RCD Rating (A)
1/S	Store sockets	O	0/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
2/S	Kitchen sockets	O	0/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
3/S	Bedroom sockets	O	0/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
4/S	Bedroom/Living room sockets	O	0/10	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
5/S	Kitchen appliance grid switch	O	0/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
6/S	Fire Alarm	O	0/10	6	1.5	1.0	0.4	61009 RCD/RCBO	B	6	0.4	7.28	61009	A	30	N/A
7/S	RCD MODULE														30	
8/S	RCD MODULE														30	
9/S	Hob	O	0/10	2	6	2.5	0.4	60898 MCB	C	32	0.4	0.68	N/A	N/A	N/A	N/A
10/S	Immersion/ ASHP	O	0/10	1	2.5	1.5	0.4	60898 MCB	C	20	0.4	1.09	N/A	N/A	N/A	N/A
11/S	Heater	O	0/10	1	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
12/S	Towel Radiator	O	0/10	2	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
13/S	Heater	O	0/10	1	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
14/S	RCD MODULE														30	
15/S	RCD MODULE														30	
16/S	Towel Radiator	O	0/10	2	2.5	1.5	0.4	60898 MCB	C	16	0.4	1.37	N/A	N/A	N/A	N/A
17/S	Heater	O	0/10	1	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
18/S	Lighting	O	0/10	34	1.5	1.0	0.4	60898 MCB	C	6	0.4	3.64	N/A	N/A	N/A	N/A
19/S	SPARE															
20/S	SPARE															
21/S	SPARE															
22/S	SPARE															

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.
† 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.)
‡: 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

FT/EIC 9334000003662

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode** CF3 2ET	**Installation Postcode** CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M02
No. of ways: 22 ☑ 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): 61008
Z_{db}: 0.10 Ω Operating at IΔn: ms
I_{pf}: 2.28 kA No. of poles: 2 Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω						Insulation resistance (Record lower reading)			Polarity	Max. Measured Zs (Ω)	RCD testing	Manual test button operation	
	Ring final circuits only			Fig 6 check	R1R2 or R2		Test voltage	L/L, L/N	L/E, N/E			All RCDs IΔn ms	RCD	AFDD
	r1	rn	r2	(✓)	R1 + R2	R2	V	M(Ω)	M(Ω)				(✓)	(✓)
1/S	0.16	0.16	0.13	✓	0.12	N/A	500	>500	>500	✓	0.18	38.0	✓	✓
2/S	0.22	0.20	0.20	✓	0.12	N/A	500	>500	>500	✓	0.19	37.9	✓	✓
3/S	0.28	0.28	0.19	✓	0.14	N/A	500	>500	>500	✓	0.23	37.9	✓	✓
4/S	0.56	0.55	0.39	✓	0.27	N/A	500	>500	>500	✓	0.37	38.0	✓	✓
5/S	0.11	0.10	0.19	✓	0.23	N/A	500	>500	>500	✓	0.30	38.1	✓	✓
6/S	N/A	N/A	N/A	N/A	0.64	N/A	500	>500	>500	✓	0.68	28.3	✓	✓
7/S	N/A	N/A	N/A	N/A						N/A		60.4	✓	N/A
8/S	N/A	N/A	N/A	N/A						N/A		60.4	✓	N/A
9/S	N/A	N/A	N/A	N/A	0.11	N/A	500	>500	>500	✓	0.31	N/A	N/A	N/A
10/S	N/A	N/A	N/A	N/A	0.05	N/A	500	>500	>500	✓	0.35		N/A	N/A
11/S	N/A	N/A	N/A	N/A	0.10	N/A	500	>500	>500	✓	0.39		N/A	N/A
12/S	N/A	N/A	N/A	N/A	0.13	N/A	500	>500	>500	✓	0.36		N/A	N/A
13/S	N/A	N/A	N/A	N/A	0.14	N/A	500	>500	>500	✓	0.38		N/A	N/A
14/S				N/A						N/A		60.6	✓	N/A
15/S	N/A	N/A	N/A	N/A						N/A		60.6	✓	N/A
16/S	N/A	N/A	N/A	N/A	0.18	N/A	500	>500	>500	✓	0.40		N/A	N/A
17/S	N/A	N/A	N/A	N/A	0.28	N/A	500	>500	>500	✓	0.39		N/A	N/A
18/S	N/A	N/A	N/A	N/A	1.44	N/A	500	>500	>500	✓	1.13		N/A	N/A
19/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
20/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
21/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
22/S	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:
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 18/10/2022 To: 31/10/2022
Date(s) live testing: 31/10/2023 To: 18/11/2022

Test instrument serial number(s)
Loop impedance: 233382 Insulation resistance: 233382 Continuity: 233382 RCD: 233382 E/Electrode: n/a

Tested by: Name (capital letters): GARETH DAVIES Signature: Gareth Davies
Position: Approved Electrician Date: 18/08/2023

M03

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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003663

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M03 on Mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners.	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra Nova Way, Penarth Marina Cardiff	Signature	MC
Reviewed By	M. Cole	Reviewed By Signature	MC
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003663

Declaration for Construction

I being the person responsible for construction 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	PD Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Gareth Davies
Reviewed By	R Bird	Reviewed By Signature	
Reviewed By Date	21-08-23		

Supply Characteristics and Earthing Arrangements

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

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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type	gG	Rated Current	80 A
No. of Additional Supplies	N/A				

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003663

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) 80 Amps ☑ KVA ☐

	Main Protective Conductors	Material	csa		(✓)	or Value		(✓)	or Value	
Earthing Conductor		Copper	16	mm²	Continuity Verified	☑	Ω	Connection Verified	☑	Ω
Protective Bonding Conductor		N/A	N/A	mm²	Continuity Verified	☐	N/A Ω	Connection Verified	☐	N/A Ω

	Material	csa		(connection / continuity)	(✓)	or Value		(✓)	or Value
Main Supply Conductor	Copper	16	mm²	Water installation	N/A	Ω	To structural steel	N/A	Ω
Main Switch Location: Utility cupboard in Appartment.				Gas installation pipes	N/A	Ω	To lightning protection	N/A	Ω
				Oil installation pipes	N/A	Ω	Other	N/A	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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies
Signature: *Gareth Davies*
Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

FT/EIC 9334000003663

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment
Designation: Apartment M03
No. of ways: 18

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: Main incomer

No. of phases: 1 BS(EN): 60947-3 Type: N/A Rating: 100 A
Nominal voltage: 230 V RCD BS(EN): 61008 Type: A Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method ‡	No. of points served	Circuit conductors csa (mm²) L / N	CPC	Maximum disconnection time (BS 7671) (s)	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	BS 7671 Max. permitted Zs Other Other § 100% (Ω)	RCD BS EN Number	RCD Type No.	RCD I∆n (mA)	RCD Rating (A)
1/S	Bed/Store sockets	O	1/10	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Kitchen Sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Living room sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance grid switches	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	1/10	4	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE														30	
7/S	RCD MODULE														30	
8/S	Hob	O	1/10	2	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	
9/S	Immersion/ASHP	O	1/10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	
10/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
11/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
12/S	SPARE															
13/S	RCD MODULE														30	
14/S	RCD MODULE														30	
15/S	Towel Radiator	O	1/10	2	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
16/S	Lighting	O	1/10	25	1.5	1.0	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	
17/S	SPARE															
18/S	SPARE															

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.
† 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.)
‡ 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

FT/EIC 9334000003663

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode** CF3 2ET	**Installation Postcode** CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M03
No. of ways: 18 ☑ 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) 61008
Z_{db} 0.12 Ω Operating at 1Δn ms
I_{pf} 1.86 kA No. of poles 2 Time delay (if applicable) N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	r2	Polarity ✓	R1+R2 or R2: R1 + R2	R2	Insulation resistance (Record lower reading): Test voltage V	L/L, L/N MΩ	L/E, N/E MΩ	Polarity	Max. Measured Zs (Ω)	RCD testing: All RCDs IΔn ms	Manual test button operation: RCD ✓	AFDD ✓
1/S	0.35	0.24	✓	0.20	N/A	500	>500	>500	✓	0.16	38.0	✓	✓
2/S	0.35	0.26	✓	0.15	N/A	500	>500	>500	✓	0.16	38.0	✓	✓
3/S	0.21	0.16	✓	0.12	N/A	500	>500	>500	✓	0.17	38.0	✓	✓
4/S	0.14	0.23	✓	0.20	N/A	500	>500	>500	✓	0.22	28.2	✓	✓
5/S	N/A	N/A	N/A	0.47	N/A	500	>500	>500	✓	0.33	28.5	✓	✓
6/S	N/A	N/A	N/A						N/A		91	✓	N/A
7/S	N/A	N/A	N/A						N/A		91	✓	N/A
8/S	N/A	N/A	N/A	0.08	N/A	500	>500	>500	✓	0.26	N/A	N/A	N/A
9/S	N/A	N/A	N/A	0.08	N/A	500	>500	>500	✓	0.35	N/A	N/A	N/A
10/S	N/A	N/A	N/A	0.22	N/A	500	>500	>500	✓	0.37	N/A	N/A	N/A
11/S	N/A	N/A	N/A	0.14	N/A	500	>500	>500	✓	0.34	N/A	N/A	N/A
12/S	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A						N/A		88.5	✓	N/A
14/S	N/A	N/A	N/A						N/A		88.5	✓	N/A
15/S	N/A	N/A	N/A	0.11	N/A	500	>500	>500	✓	0.32	N/A	N/A	N/A
16/S	N/A	N/A	N/A	1.10	N/A	500	>500	>500	✓	1.27	N/A	N/A	N/A
17/S	N/A	N/A	N/A						N/A			N/A	N/A
18/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
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing 18/10/2022 To 31/10/2022
Date(s) live testing 31/10/2022 To 18/11/2022

Test instrument serial number(s)
Loop impedance 233382 Insulation resistance 233382 Continuity 233382 RCD 233382 E/Electrode n/a

Tested by Name (capital letters) GARETH DAVIES Signature *Gareth Davies*
Position Approved Electrician Date 18/08/2023

M04

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.

4th Floor, Mill 3, Pleasley Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003664

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M04 on mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

none

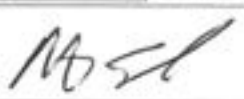
Details of permitted exception (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate

None

Declaration for Design

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann partners	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra nova way, Penarth Marina Cardiff	Signature	
Reviewed By	M. Cole	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003664

Declaration for Construction

I being the person responsible for construction 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	P.D Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Gareth Davies
Reviewed By	R Bird	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Supply Characteristics and Earthing Arrangements

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

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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type gG	Rated Current 80 A		
No. of Additional Supplies	N/A				

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003664

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) 80 Amps [✓] KVA [ ]

	Main Protective Conductors	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	16	mm²	Continuity Verified [✓]		Ω	Connection Verified [✓]	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified [ ]	N/A	Ω	Connection Verified [ ]	N/A Ω

	Material	csa		(connection / continuity)	(✓) or Value		(✓) or Value
Main Supply Conductor	Copper	16	mm²	Water installation	N/A	Ω	To structural steel N/A Ω
Main Switch Location	Utility cupboard in Appartment			Gas installation pipes	N/A	Ω	To lightning protection N/A Ω
				Oil installation pipes	N/A	Ω	Other [ ] N/A 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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies
Signature: *Gareth Davies*
Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

FT/EIC 9334000003664

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment

Designation: Apartment M04

No. of ways: 22

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: Main incomer

No. of phases: 1 BS(EN): 60947-3 Type: N/A Rating: 100 A

Nominal voltage: 230 V RCD BS(EN): 61008 Type: A Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method	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 I∆n (mA)	RCD Rating (A)
1/S	Store/Study sockets	O	0/10	7	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
2/S	Kitchen sockets	O	0/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
3/S	Hall sockets	O	0/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
4/S	Bedroom/Living room sockets	O	0/10	6	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
5/S	Kitchen appliance grid switch	O	0/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	0.4	1.37	61009	A	30	N/A
6/S	Fire Alarm	O	0/10	7	1.5	1.0	0.4	61009 RCD/RCBO	B	6	0.4	7.28	61009	A	30	N/A
7/S	RCD MODULE														30	
8/S	RCD MODULE														30	
9/S	Hob	O	0/10	2	6	2.5	0.4	60898 MCB	C	32	0.4	0.68	N/A	N/A	N/A	N/A
10/S	Immersion/ ASHP	O	0/10	1	2.5	1.5	0.4	60898 MCB	C	20	0.4	1.09	N/A	N/A	N/A	N/A
11/S	Heater	O	0/10	1	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
12/S	Towel Radiator	O	0/10	2	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
13/S	Heater	O	0/10	1	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
14/S	RCD MODULE														30	
15/S	RCD MODULE														30	
16/S	Towel Radiator	O	0/10	2	2.5	1.5	0.4	60898 MCB	C	16	0.4	1.37	N/A	N/A	N/A	N/A
17/S	Heater	O	0/10	1	2.5	1.5	0.4	60898 MCB	B	16	0.4	2.73	N/A	N/A	N/A	N/A
18/S	Heater	O	0/10	40	1.5	1.0	0.4	60898 MCB	C	6	0.4	3.64	N/A	N/A	N/A	N/A
19/S	Lighting	O	0/10	40	1.5	1.0	0.4	60898 MCB	C	6	0.4	3.64	N/A	N/A	N/A	N/A
20/S	SPARE															
21/S	SPARE															
22/S	SPARE															

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.
† 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.)
‡ 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

FT/EIC 9334000003664

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode**	CF3 2ET
		Installation Postcode	CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment

Designation: Apartment M04

No. of ways: 22 — [x] Supply polarity confirmed — [ ] Phase sequence confirmed

No. of phases: 1 — SPD: [ ] Operational status confirmed — [x] Not applicable

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

Associated RCD (if any): BS (EN) 61008

Z_{db} 0.22 Ω — Operating at IΔn: ms

I_{pf} 1.04 kA — No. of poles: 2 — Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	rn	r2	Ring 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	0.39	0.41	0.16	✓	0.08	N/A	500	>500	>500	✓	0.36	38.1	✓	✓
2/S	0.20	0.20	0.26	✓	0.14	N/A	500	>500	>500	✓	0.24	28.0	✓	✓
3/S	0.32	0.34	0.28	✓	0.24	N/A	500	>500	>500	✓	0.25	37.9	✓	✓
4/S	0.48	0.48	0.40	✓	0.28	N/A	500	>500	>500	✓	0.32	38.0	✓	✓
5/S	0.09	0.10	0.15	✓	0.26	N/A	500	>500	>500	✓	0.29	38.2	✓	✓
6/S	N/A	N/A	N/A	N/A	0.86	N/A	500	>500	>500	✓	0.79	28.1	✓	✓
7/S	N/A	N/A	N/A	N/A						N/A		57.9	✓	N/A
8/S	N/A	N/A	N/A	N/A						N/A		57.9	✓	N/A
9/S	N/A	N/A	N/A	N/A	0.10	N/A	500	>500	>500	✓	0.25	N/A	N/A	N/A
10/S	N/A	N/A	N/A	N/A	0.09	N/A	500	>500	>500	✓	0.52		N/A	N/A
11/S	N/A	N/A	N/A	N/A	0.14	N/A	500	>500	>500	✓	0.55		N/A	N/A
12/S	N/A	N/A	N/A	N/A	0.23	N/A	500	>500	>500	✓	0.68		N/A	N/A
13/S	N/A	N/A	N/A	N/A	0.21	N/A	500	>500	>500	✓	0.62		N/A	N/A
14/S	N/A	N/A	N/A	N/A						N/A		52.3	✓	N/A
15/S	N/A	N/A	N/A	N/A						N/A		52.3	✓	N/A
16/S	N/A	N/A	N/A	N/A	0.23	N/A	500	>500	>500	✓	0.59		N/A	N/A
17/S	N/A	N/A	N/A	N/A	0.24	N/A	500	>500	>500	✓	0.57		N/A	N/A
18/S	N/A	N/A	N/A	N/A	0.27	N/A	500	>500	>500	✓	0.58		N/A	N/A
19/S	N/A	N/A	N/A	N/A	1.71	N/A	500	>500	>500	✓	1.42	N/A	N/A	N/A
20/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
21/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
22/S	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: RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 18/10/2022 To 31/10/2022

Date(s) live testing: 31/10/2022 To 18/11/2022

Test instrument serial number(s)

Loop impedance: 233382 — Insulation resistance: 233382 — Continuity: 233382 — RCD: 233382 — E/Electrode: n/a

Tested by: Name (capital letters): GARETH DAVIES — Signature: *Gareth Davies*

Position: Approved Electrician — Date: 18/10/2022

M05

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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003665

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises: Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation: 01/11/2022

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

Description of the installation

Electrical installation in apartment M05 on Mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners.	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889
Address	Faraday House Terra Nova Way, Penarth Marina Cardiff	Branch No.	Cardiff
		Signature	
Reviewed By	M. CO	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003665

Declaration for Construction

I being the person responsible for construction 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
The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No	NICEIC-11922 Branch No 11922
		Signature	Paul Clapham
Reviewed By	P.D. CLAPHAM	Reviewed By Signature	P.D Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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
The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No	NICEIC-11922 Branch No
		Signature	Gareth Davies
Reviewed By	R Bird	Reviewed By Signature	
Reviewed By Date	21-08-23		

Supply Characteristics and Earthing Arrangements

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

Number & Type of live conductors AC ☑ DC ☐ No. of phases 3 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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type gG	Rated Current 80 A		
No. of Additional Supplies	N/A				

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003665

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) 80 Amps ☑ KVA ☐

	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	16	mm²	Continuity Verified ☑	Ω	Connection Verified ☑	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified ☐	N/A Ω	Connection Verified ☐	N/A Ω

	Material	csa		(connection / continuity)	(✓) or Value		(✓) or Value
Main Supply Conductor	Copper	16	mm²	Water installation	N/A Ω	To structural steel	N/A Ω
Main Switch Location: Utility cupboard in Appartment.				Gas installation pipes	N/A Ω	To lightning protection	N/A Ω
				Oil installation pipes	N/A Ω	Other	N/A 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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies Signature *Gareth Davies*

Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

FT/EIC 9334000003665

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment

Designation: Apartment M05

No. of ways: 18

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: Main incomer

No. of phases: 1 BS(EN): 60947-3 Type: N/A Rating: 100 A

Nominal voltage: 230 V RCD BS(EN): 61008 Type: A Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method	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 I∆n (mA)	RCD Rating (A)
1/S	Bed/Store sockets	O	1/10	6	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Kitchen Sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Living room sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance grid switches	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	1/10	3	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE															
7/S	RCD MODULE															
8/S	Hob	O	1/10	2	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	
9/S	Immersion/ASHP	O	1/10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	
10/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
11/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
12/S	SPARE															
13/S	RCD MODULE															
14/S	RCD MODULE															
15/S	Towel Radiator	O	1/10	2	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
16/S	Lighting	O	1/10	20	1.5	1.0	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	
17/S	SPARE															
18/S	SPARE															

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.
† 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.)
‡ 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

FT/EIC 9334000003665

for Domestic and Similar Premises up to 100 A

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

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Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode**	CF3 2ET
		Installation Postcode	CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M05
No. of ways: 18 ☑ 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): 61008
Z_{cb}: 0.14 Ω Operating at I∆n: ms
I_{pf}: 1.85 kA No. of poles: 2 Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω						Insulation resistance (Record lower reading)			Polarity	Max. Measured Zs (Ω)	RCD testing	Manual test button operation	
	Ring final circuits only			Fig 8 tests	R1/R2 or R2		Test voltage	L-L, L-N	L-E, N-E			All RCDs I∆n	RCD	AFDD
	r1	rn	r2	(✓)	R1 + R2	R2	V	M(Ω)	M(Ω)			ms	(✓)	(✓)
1/S	0.40	0.40	0.11	✓	0.18	N/A	500	>500	>500	✓	0.23	38.1	✓	✓
2/S	0.16	0.16	0.20	✓	0.14	N/A	500	>500	>500	✓	0.18	38.1	✓	✓
3/S	0.32	0.32	0.23	✓	0.19	N/A	500	>500	>500	✓	0.19	38.1	✓	✓
4/S	0.10	0.10	0.16	✓	0.56	N/A	500	>500	>500	✓	0.31	38.1	✓	✓
5/S	N/A	N/A	N/A	N/A	0.39	N/A	500	>500	>500	✓	0.45	28.5	✓	✓
6/S	N/A	N/A	N/A	N/A						N/A		80.6	✓	N/A
7/S	N/A	N/A	N/A	N/A						N/A		80.6	✓	N/A
8/S	N/A	N/A	N/A	N/A	0.09	N/A	500	>500	>500	✓	0.22	N/A	N/A	N/A
9/S	N/A	N/A	N/A	N/A	0.05	N/A	500	>500	>500	✓	0.39	N/A	N/A	N/A
10/S	N/A	N/A	N/A	N/A	0.17	N/A	500	>500	>500	✓	0.36	N/A	N/A	N/A
11/S	N/A	N/A	N/A	N/A	0.21	N/A	500	>500	>500	✓	0.38	N/A	N/A	N/A
12/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A	N/A						N/A		70.9	✓	N/A
14/S	N/A	N/A	N/A	N/A						N/A		70.9	✓	N/A
15/S	N/A	N/A	N/A	N/A	0.32	N/A	500	>500	>500	✓	0.37	N/A	N/A	N/A
16/S	N/A	N/A	N/A	N/A	2.19	N/A	500	>500	>500	✓	1.27	N/A	N/A	N/A
17/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
18/S	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:
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 18/10/2022 To: 31/10/2022
Date(s) live testing: 31/10/2022 To: 18/11/2022

Test instrument serial number(s)
Loop impedance: 233382 Insulation resistance: 233382 Continuity: 233382 RCD: 233382 E/Electrode: n/a

Tested by: Name (capital letters): GARETH DAVIES
Position: Approved Electrician Date: 18/08/2023
Signature: Gareth Davies

M06

ELECTRICAL INSTALLATION CERTIFICATE

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

Guidance for recipients:

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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.

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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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003666

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M06 on mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

None

Declaration for Design

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra Nova way, Penarth Marina Cardiff	Signature	MCol
Reviewed By	M. Cole	Reviewed By Signature	MCol
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003666

Declaration for Construction

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The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	PD Clapham.
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Gareth Davies
Reviewed By	P B. [illegible]	Reviewed By Signature	[signature]
Reviewed By Date	18/08/2023		

Supply Characteristics and Earthing Arrangements

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

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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type	gG	Rated Current	80 A
No. of Additional Supplies	N/A				

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003666

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) 80 Amps ☑ KVA ☐

Main Protective Conductors	**Material**	**csa**		(✓) **or Value**			(✓) **or Value**	
Earthing Conductor	Copper	16	mm²	Continuity Verified	☑	Ω	Connection Verified ☑	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified	☐	N/A Ω	Connection Verified ☐	N/A Ω

	Material	**csa**		**(connection / continuity)**	(✓) **or Value**		(✓) **or Value**	
Main Supply Conductor	Copper	16	mm²	Water installation	N/A	Ω	To structural steel N/A	Ω
Main Switch Location	Utility cupboard in Appartment			Gas installation pipes	N/A	Ω	To lightning protection N/A	Ω
				Oil installation pipes	N/A	Ω	Other N/A	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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies

Signature *Gareth Davies*

Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003666

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment
Designation: Apartment M06
No. of ways: 18

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: Main incomer

No. of phases: 1 — BS(EN): 60947-3 — Type: N/A — Rating: 100 A

Nominal voltage: 230 V — RCD BS(EN): 61008 — Type: A — Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref method	No. of points served	Circuit conductors csa (mm²) L / N	CPC	Maximum disconnection time (BS 7671) (S)	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	BS 7671 Max permitted Zs (Other Other §) 100% (Ω)	RCD BS EN Number	Type No.	IΔn (mA)	Rating (A)
1/S	Store/Hallway sockets	O	0-10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Bedroom/ Living room sockets	O	0-10	7	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Kitchen sockets	O	0-10	3	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance and grid switch	O	0-103	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	0-10	3	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE														30	
7/S	RCD MODULE														30	
8/S	Hob	O	0-10	3	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	N/A
9/S	Immersion/ASHP	O	0-10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	N/A
10/S	Heater	O	0-10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	N/A
11/S	Towel Radiator	O	0-10	2	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	N/A
12/S	SPARE															
13/S	RCD MODULE														30	
14/S	RCD MODULE														30	
15/S	Lighting	O	0-10	24	1.5	1	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	N/A
16/S	SPARE															
17/S	SPARE															
18/S	SPARE															

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.
† 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.)
‡ 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

FT/EIC 9334000003666

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode** CF3 2ET	**Installation Postcode** CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M06
No. of ways: 18 ☑ 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): 61008
Z_{db}: 0.09 Ω Operating at IΔn: ms
I_{pf}: 2.59 kA No. of poles: 2 Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	r2	Polarity ✓	R1+R2 or R2: R1+R2	R2	Insulation resistance (Record lower reading): Test voltage V	L/L, L/N MΩ	L/E, N/E MΩ	Polarity	Max. Measured Zs (Ω)	RCD testing: All RCDs IΔn ms	Manual test button operation: RCD ✓	AFDD ✓
1/S	0.24	0.15	✓	0.30	N/A	500	>500	>299	✓	0.30	38.2	✓	✓
2/S	0.46	0.24	✓	0.45	N/A	500	>500	>299	✓	0.30	37.9	✓	✓
3/S	0.18	0.20	✓	0.15	N/A	500	>500	>299	✓	0.19	38.0	✓	✓
4/S	0.09	0.15	✓	0.21	N/A	500	>500	>299	✓	0.28	38.2	✓	✓
5/S	N/A	N/A	N/A	0.49	N/A	250	>500	>299	✓	0.32	28.6	✓	✓
6/S	N/A	N/A	N/A						N/A		69.0	✓	N/A
7/S	N/A	N/A	N/A						N/A		69.0	✓	N/A
8/S	N/A	N/A	N/A	0.24	N/A	500	>299	>299	✓	0.35	N/A	N/A	N/A
9/S	N/A	N/A	N/A	0.13	N/A	500	>299	>299	✓	0.53	N/A	N/A	N/A
10/S	N/A	N/A	N/A	0.10	N/A	500	>299	>299	✓	0.39	N/A	N/A	N/A
11/S	N/A	N/A	N/A	0.16	N/A	500	>299	>299	✓	0.33	N/A	N/A	N/A
12/S	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A						N/A		61.1	✓	N/A
14/S	N/A	N/A	N/A						N/A		61.1	✓	N/A
15/S	N/A	N/A	N/A	1.30	N/A	500	>299	>299	✓	0.92	N/A	N/A	N/A
16/S	N/A	N/A	N/A						N/A			N/A	N/A
17/S	N/A	N/A	N/A						N/A			N/A	N/A
18/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:
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 19/10/2022 To: 31/10/2022
Date(s) live testing: 31/10/2022 To: 18/11/2022

Test instrument serial number(s)
Loop impedance: 233382 Insulation resistance: 233382 Continuity: 233382 RCD: 233382 E/Electrode: n/a

Tested by: Name (capital letters): GARETH DAVIES
Position: Approved Electrician Date: 18/08/2023
Signature: Gareth Davies

MO7

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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003667

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M07 on mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

none

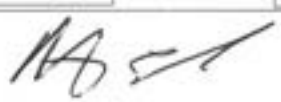
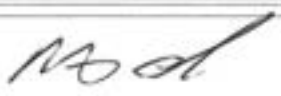
Details of permitted exception. (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate

None

Declaration for Design

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners	Date	18/08/2023		
Designer Name	Martin Cole	Scheme No.	6889	Branch No.	Cardiff
Address	Faraday House Terra Nova way, Penarth Marina Cardiff	Signature			
Reviewed By	M. Cole	Reviewed By Signature			
Reviewed By Date	18/08/2023				

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003667

Declaration for Construction

I being the person responsible for construction 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	P.D. Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Gareth Davies
Reviewed By	Gareth Davies R Davies	Reviewed By Signature	Gareth Davies
Reviewed By Date	18/08/2023		

Supply Characteristics and Earthing Arrangements

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

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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω		
Supply Protective Device BS (EN)	88-2 HRC gG	Type gG	Rated Current 80 A		
No. of Additional Supplies	N/A				

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003667

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) 80 Amps ☑ KVA ☐

Main Protective Conductors	Material	csa		(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	16	mm²	Continuity Verified ☑	Ω	Connection Verified ☑	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified ☐ N/A	Ω	Connection Verified ☐ N/A	Ω

	Material	csa		(connection / continuity)	(✓) or Value		(✓) or Value
Main Supply Conductor	Copper	16	mm²	Water installation	N/A Ω	To structural steel	N/A Ω
Main Switch Location	Utility cupboard in Appartment.			Gas installation pipes	N/A Ω	To lightning protection	N/A Ω
				Oil installation pipes	N/A Ω	Other	N/A 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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies Signature *Gareth Davies*

Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

FT/EIC 9334000003667

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment

Designation: Apartment M07

No. of ways: 18

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: Main incomer

No. of phases: 1 — BS(EN): 60947-3 — Type: N/A — Rating: 100 A

Nominal voltage: 230 V — RCD BS(EN): 61008 — Type: A — Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method	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 I∆n (mA)	RCD Rating (A)
1/S	Store/Hallway sockets	O	0-10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Bedroom/ Living room sockets	O	0-10	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Kitchen sockets	O	0-10	3	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance and grid switch	O	0-103	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	0-10	3	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE														30	
7/S	RCD MODULE														30	
8/S	Hob	O	0-10	2	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	N/A
9/S	Immersion/ASHP	O	0-10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	N/A
10/S	Heater	O	0-10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	N/A
11/S	Towel Radiator	O	0-10	2	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	N/A
12/S	SPARE															
13/S	MODULE														30	
14/S	MODULE														30	
15/S	Lighting	O	0-10	23	1.5	1	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	N/A
16/S	SPARE															
17/S	SPARE															
18/S	SPARE															

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, **M** 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.
† 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.)
‡ 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

FT/EIC 9334000003667

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode**	CF3 2ET
		Installation Postcode	CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M07
No. of ways: 18 ☑ 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): 61008
Z_{db}: 0.21 Ω Operating at IΔn: ms
I_{pf}: 1.08 kA No. of poles: 2 Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	rn	r2	Ring & circuit (✓)	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	0.25	0.23	0.13	✓	0.15	N/A	500	>500	>299	✓	0.23	37.9	✓	✓
2/S	0.56	0.55	0.40	✓	0.21	N/A	500	>500	>299	✓	0.35	37.8	✓	✓
3/S	0.10	0.10	0.14	✓	0.08	N/A	500	>500	>299	✓	0.18	37.9	✓	✓
4/S	0.08	0.09	0.15	✓	0.15	N/A	500	>500	>299	✓	0.32	37.8	✓	✓
5/S	N/A	N/A	N/A	N/A	0.14	N/A	500	>500	>299	✓	0.55	28.5	✓	✓
6/S	N/A	N/A	N/A	N/A						N/A		88.4	✓	N/A
7/S	N/A	N/A	N/A	N/A						N/A		88.4	✓	N/A
8/S	N/A	N/A	N/A	N/A	0.07	N/A	250	>299	>299	✓	0.20	N/A	N/A	N/A
9/S	N/A	N/A	N/A	N/A	0.03	N/A	500	>299	>299	✓	0.40	N/A	N/A	N/A
10/S	N/A	N/A	N/A	N/A	0.14	N/A	500	>299	>299	✓	0.41	N/A	N/A	N/A
11/S	N/A	N/A	N/A	N/A	0.15	N/A	500	>299	>299	✓	0.42	N/A	N/A	N/A
12/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A	N/A						N/A		97.0	✓	N/A
14/S	N/A	N/A	N/A	N/A						N/A		97.0	✓	N/A
15/S	N/A	N/A	N/A	N/A	1.74	N/A	250	>299	>299	✓	0.91	N/A	N/A	N/A
16/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
17/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
18/S	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: RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 19/10/2022 To: 31/10/2022
Date(s) live testing: 31/10/2022 To: 18/11/2022

Test instrument serial number(s)
Loop impedance: 233382 Insulation resistance: 233382 Continuity: 233382 RCD: 233382 E/Electrode: n/a

Tested by Name (capital letters): GARETH DAVIES Signature: *Gareth Davies*
Position: Approved Electrician Date: 18/08/2023

MoB

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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003668

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M08 on Mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

none

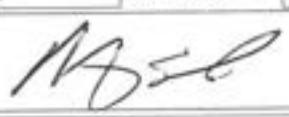
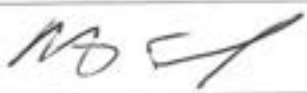
Details of permitted exception. (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate

None

Declaration for Design

I being the person responsible for design of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skil 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra Nova Way, Penarth Marina Cardiff	Signature	
Reviewed By	M. Cole	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003668

Declaration for Construction

I being the person responsible for construction 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No	NICEIC-11922 Branch No 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	P.D Clapham.
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No	NICEIC-11922 Branch No 11922
		Signature	Gareth Davies
Reviewed By	R Bird	Reviewed By Signature	
Reviewed By Date	18/08/2023		

Supply Characteristics and Earthing Arrangements

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

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) 2.43 kA External loop impedance, Z_e (2) 0.24 Ω

Supply Protective Device BS (EN) 88-2 HRC gG Type gG Rated Current 80 A

No. of Additional Supplies N/A

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003668

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) 80 Amps ☑ KVA ☐

Main Protective Conductors	Material	csa		(✓)	or Value		(✓)	or Value	
Earthing Conductor	Copper	16	mm²	Continuity Verified	☑	Ω	Connection Verified	☑	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified	☐	N/A Ω	Connection Verified	☐	N/A Ω

	Material	csa		(connection / continuity)	(✓)	or Value		(✓)	or Value
Main Supply Conductor	Copper	16	mm²	Water installation	N/A	Ω	To structural steel	N/A	Ω
Main Switch Location	Utility cupboard in Appartment.			Gas installation pipes	N/A	Ω	To lightning protection	N/A	Ω
				Oil installation pipes	N/A	Ω	Other	N/A	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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies
Signature: *Gareth Davies*
Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

FT/EIC 9334000003668

for Domestic and Similar Premises up to 100 A

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

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment

Designation: Apartment M08

No. of ways: 18

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: Main incomer

No. of phases: 1 — BS(EN): 60947-3 — Type: N/A — Rating: 100 A

Nominal voltage: 230 V — RCD BS(EN): 61008 — Type: A — Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method	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 I∆n (mA)	RCD Rating (A)
1/S	Bed/Store sockets	O	1/10	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Kitchen Sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Living Room Sockets	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance grid switches	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	1/10	5	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE														30	
7/S	RCD MODULE														30	
8/S	Hob	O	1/10	2	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	
9/S	Immersion/ASHP	O	1/10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	
10/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
11/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
12/S	SPARE															
13/S	RCD MODULE														30	
14/S	RCD MODULE														30	
15/S	Towel Radiator	O	1/10	2	2.5	1.5	0.4	60898 MCB	B	16	1	2.73	N/A	N/A	N/A	
16/S	Lighting	O	1/10	26	1.5	1.0	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	
17/S	SPARE															
18/S	SPARE															

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.
† 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.)
‡ 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

FT/EIC 9334000003668

for Domestic and Similar Premises up to 100 A

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

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Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode**	CF3 2ET
		Installation Postcode	CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M08
No. of ways: 18 ☑ 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): 61008
Z_{db}: 0.16 Ω Operating at IΔn: ms
I_{pf}: 1.41 kA No. of poles: 2 Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω						Insulation resistance (Record lower reading)			Polarity	Max. Measured Zs (Ω)	RCD testing	Manual test button operation	
	Ring final circuits only			(r1 + rn)	R1+R2 or R2		Test voltage	L/L, L/N	L/E, N/E			All RCDs IΔn ms	RCD	AFDD
	r1	rn	r2	(✓)	R1 + R2	R2	V	MΩ	MΩ				(✓)	(✓)
1/S	0.36	0.36	0.12	✓	0.15	N/A	500	>500	>500	✓	0.25	37.7	✓	✓
2/S	0.27	0.27	0.34	✓	0.18	N/A	500	>500	>500	✓	0.21	37.9	✓	✓
3/S	0.36	0.36	0.44	✓	0.24	N/A	500	>500	>500	✓	0.34	37.9	✓	✓
4/S	0.21	0.22	0.32	✓	0.20	N/A	500	>500	>500	✓	0.33	37.8	✓	✓
5/S	N/A	N/A	N/A	N/A	0.50	N/A	250	>500	>500	✓	0.62	28.4	✓	✓
6/S	N/A	N/A	N/A	N/A						N/A		97.0	✓	N/A
7/S	N/A	N/A	N/A	N/A						N/A		97.0	✓	N/A
8/S	N/A	N/A	N/A	N/A	0.05	N/A	500	>500	>500	✓	0.32	N/A	N/A	N/A
9/S	N/A	N/A	N/A	N/A	0.12	N/A	500	>500	>500	✓	0.43	N/A	N/A	N/A
10/S	N/A	N/A	N/A	N/A	0.12	N/A	500	>500	>500	✓	0.50	N/A	N/A	N/A
11/S	N/A	N/A	N/A	N/A	0.08	N/A	500	>500	>500	✓	0.45	N/A	N/A	N/A
12/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A	N/A						N/A		90.3	✓	N/A
14/S	N/A	N/A	N/A	N/A						N/A		90.3	✓	N/A
15/S	N/A	N/A	N/A	N/A	0.08	N/A	500	>500	>500	✓	0.47	N/A	N/A	N/A
16/S	N/A	N/A	N/A	N/A	0.87	N/A	250	>500	>500	✓	0.98	N/A	N/A	N/A
17/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
18/S	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:
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 18/10/2023 To: 31/10/2022
Date(s) live testing: 31/10/2022 To: 18/11/2022

Test instrument serial number(s)
Loop impedance: 233382 Insulation resistance: 233382 Continuity: 233382 RCD: 233382 E/Electrode: n/a

Tested by: Name (capital letters): GARETH DAVIES Signature: Gareth Davies
Position: Approved Electrician Date: 16/08/2023

M07

ELECTRICAL INSTALLATION CERTIFICATE

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(IET Wiring Regulations 18th Edition)

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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".

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

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003669

Client Details

Client	B E C T Building Contractors Ltd	Installation	Landore Court
Address	Unit 22, Waterside Business Park Lamby Way Rumney Cardiff	Address	Charles street Cardiff
Postcode	CF3 2ET	Postcode	CF10 2GD

Details of the Installation

Description of premises Domestic ☑ Commercial ☐ Industrial ☐ Date of original installation 01/11/2022

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

Description of the installation

Electrical installation in apartment M09 on Mezz level

Extent of the installation covered by this certificate

All electrical services fed from Distribution board local in the apartment.
Small power and lighting, cooker/hob, Smoke detectors, heating/ ventilation

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

none

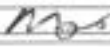
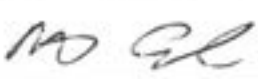
Details of permitted exception. (regulation 411.3.3) where applicable a suitable risk assessment(s) must be attached to this certificate

None

Declaration for Design

I being the person responsible for design 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

The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	MCCann and partners.	Date	18/08/2023
Designer Name	Martin Cole	Scheme No.	6889 Branch No. Cardiff
Address	Faraday House Terra Nova Way, Penarth Marina Cardiff	Signature	
Reviewed By		Reviewed By Signature	
Reviewed By Date	18/08/2023		

Next inspection I the designer recommend that this installation is further inspected after an interval of not more than 10 years

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

FT/EIC 9334000003669

for Domestic and Similar Premises up to 100 A

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

Declaration for Construction

I being the person responsible for construction 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
The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Project Manager
Inspector Name	Paul Clapham	Date	02/01/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Paul Clapham
Reviewed By	PD CLAPHAM	Reviewed By Signature	P.D Clapham
Reviewed By Date	18/08/2023		

Declaration for Inspection and Testing

I being the person responsible for 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
The extent of liability of the signatory is limited to work described in Section 2 as subject of this certificate.

Company	Whitehead Building Services Ltd	Position	Approved Electrician
Inspector Name	Gareth Davies	Date	18/08/2023
Address	Lanyon House Mission Court Newport NP20 2DW	Scheme No.	NICEIC-11922 Branch No. 11922
		Signature	Gareth Davies
Reviewed By	Gareth Davies	Reviewed By Signature	Gareth Davies
Reviewed By Date	18/08/2023		

Supply Characteristics and Earthing Arrangements

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

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)	2.43 kA	External loop impedance, Z_e (2)	0.24 Ω
Supply Protective Device BS (EN)	88-2 HRC gG	Type	gG
Rated Current	80 A		
No. of Additional Supplies	N/A		

ELECTRICAL INSTALLATION CERTIFICATE
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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) 80 Amps ☑ KVA ☐

Main Protective Conductors	**Material**	**csa**			(✓)	**or Value**		(✓)	**or Value**	
Earthing Conductor	Copper	16	mm²	Continuity Verified	☑		Ω	Connection Verified	☑	Ω
Protective Bonding Conductor	N/A	N/A	mm²	Continuity Verified	☐	N/A	Ω	Connection Verified	☐	N/A Ω

	Material	**csa**	
Main Supply Conductor	Copper	16	mm²

Main Switch Location: Utility cupboard in Appartment.

(connection / continuity)	(✓)	**or Value**			(✓)	**or Value**	
Water installation	N/A		Ω	To structural steel	N/A		Ω
Gas installation pipes	N/A		Ω	To lightning protection	N/A		Ω
Oil installation pipes	N/A		Ω	Other		N/A	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

None- All new install

(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	✓	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	✓
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

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: Gareth Davies

Signature: Gareth Davies

Date: 18/08/2023

ELECTRICAL INSTALLATION CERTIFICATE - Circuit Details

for Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003669

Client Name	B E C T Building Contractors Ltd	**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Postcode**	CF10 2GD
Client Postcode	CF3 2ET		

Distribution board details - Complete in every case

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

Location: Utility cupboard in apartment
Designation: Apartment M09
No. of ways: 18

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: Main incomer

No. of phases: 1 BS(EN): 60947-3 Type: N/A Rating: 100 A
Nominal voltage: 230 V RCD BS(EN): 61008 Type: A Rating: 30 I∆n mA

SCHEDULE OF CIRCUIT DETAILS

Circuit No. and Line	Circuit designation	Type of wiring	Ref. method	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 I∆n (mA)	RCD Rating (A)
1/S	Bed/Store sockets	O	1/10	8	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
2/S	Kitchen Sockets	O	1/10	4	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
3/S	Living room sockets	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
4/S	Kitchen appliance grid switches	O	1/10	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	61009	A	30	N/A
5/S	Fire Alarm	O	1/10	4	1.5	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009	A	30	N/A
6/S	RCD MODULE														30	
7/S	RCD MODULE														30	
8/S	Hob	O	1/10	2	6	2.5	0.4	60898 MCB	C	32	6	0.68	N/A	N/A	N/A	
9/S	Immersion/ASHP	O	1/10	1	2.5	1.5	0.4	60898 MCB	C	20	6	1.09	N/A	N/A	N/A	
10/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
11/S	Heater	O	1/10	1	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
12/S	SPARE															
13/S	RCD MODULE														30	
14/S	RCD MODULE														30	
15/S	Towel Radiator	O	1/10	2	2.5	1.5	0.4	60898 MCB	B	16	6	2.73	N/A	N/A	N/A	
16/S	Lighting	O	1/10	26	1.5	1.0	0.4	60898 MCB	C	6	6	3.64	N/A	N/A	N/A	
17/S	SPARE															
18/S	SPARE															

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.
† 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.)
‡ 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 Domestic and Similar Premises up to 100 A

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

FT/EIC 9334000003669

Client Name	B E C T Building Contractors Ltd			**Installation Address**	Landore Court, Charles street , Cardiff
Client Address	Unit 22, Waterside Business Park, Lamby Way Rumney, Cardiff	**Client Postcode**	CF3 2ET	**Installation Postcode**	CF10 2GD

Distribution board details - Complete in every case

Location: Utility cupboard in apartment
Designation: Apartment M09
No. of ways: 18 — ☑ 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): 61008
Z_{db}: 0.14 Ω — Operating at IΔn: ms
I_{pf}: 1.6 kA — No. of poles: 2 — Time delay (if applicable): N/A

TEST RESULTS

Circuit No. and Line	Circuit impedance Ω: Ring final circuits only r1	m	r2	Fig 8 check (✓)	R1+R2 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	0.50	0.50	0.10	✓	0.45	N/A	500	>500	>500	✓	0.27	38.1	✓	✓
2/S	0.21	0.21	0.29	✓	0.44	N/A	500	>500	>500	✓	0.28	38.1	✓	✓
3/S	0.25	0.25	0.28	✓	0.44	N/A	500	>500	>500	✓	0.21	37.9	✓	✓
4/S	0.15	0.15	0.22	✓	0.31	N/A	500	>500	>500	✓	0.23	38.0	✓	✓
5/S	N/A	N/A	N/A	N/A	0.42	N/A	250	>500	>500	✓	0.53	28.4	✓	✓
6/S	N/A	N/A	N/A	N/A						N/A		88.4	✓	N/A
7/S	N/A	N/A	N/A	N/A						N/A		88.4	✓	N/A
8/S	N/A	N/A	N/A	N/A	0.30	N/A	500	>500	>500	✓	0.27	N/A	N/A	N/A
9/S	N/A	N/A	N/A	N/A	0.32	N/A	500	>500	>500	✓	0.36	N/A	N/A	N/A
10/S	N/A	N/A	N/A	N/A	0.28	N/A	500	>500	>500	✓	0.42	N/A	N/A	N/A
11/S	N/A	N/A	N/A	N/A	0.21	N/A	500	>500	>500	✓	0.42	N/A	N/A	N/A
12/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
13/S	N/A	N/A	N/A	N/A						N/A			N/A	N/A
14/S	N/A	N/A	N/A	N/A						N/A		61.7	✓	N/A
15/S	N/A	N/A	N/A	N/A						N/A		61.7	✓	N/A
16/S	N/A	N/A	N/A	N/A	012	N/A	500	>500	>500	✓	0.37	N/A	N/A	N/A
17/S	N/A	N/A	N/A	N/A	1.14	N/A	500	>500	>500	✓	0.92	N/A	N/A	N/A
18/S	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:
RCBO'S,AFDD'S, Lamps, USB sockets

Date(s) dead testing: 18/10/2022 To: 31/10/2022
Date(s) live testing: 31/10/2022 To: 18/11/2022

Test instrument serial number(s)
Loop impedance: 233382 Insulation resistance: 233382 Continuity: 233382 RCD: 233382 E/Electrode: n/a

Tested by: Name (capital letters): GARETH DAVIES
Position: Approved Electrician Date: 18/08/2023
Signature: Gareth Davies