Date 15/05/2023 | **Certificate Serial No/Ref:** 15342879

Allan Electrical

Domestic Electrical Installation Certificate

(Requirements for Electrical Installations – BS 7671 IET Wiring Regulations)

DETAILS OF THE CLIENT

Client and address

Derek Roberts
Whim House
West Linton

Postcode: EH46 7BD

ADDRESS OF THE INSTALLATION

Installation address

Whim House
West Linton

Postcode: EH46 7BD

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate

100% of installation
3 Pods
& path lighting

The Installation Is

New	✓
An addition	N/A
An alteration	N/A

DESIGN, CONSTRUCTION, INSPECTION AND TESTING

* BS 7671 amended to : 2018

I being the person/s responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature) particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing hereby Certify that the design, construction, inspection and testing work for which I/we have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671: amended to* except for the departures, if any, detailed as follows:

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

Testing installed Pods and circuits

The extent of liability of the signatory/signatories is limited to work described above as the subject of this certificate. For the DESIGN, CONSTRUCTION, INSPECTION & TESTING of the installation.

Signature		**Name (Capitals)**	WILLIAM ALLAN	**Date**	15/05/2023

The results of the inspection and testing reviewed by

Signature		**Name (Capitals)**	WILLIAM ALLAN	**Date**	15/05/2023

PARTICULARS OF THE CONTRACTOR

Trading title

Allan Electrical

1C Charles Street
Penicuik

Email

Web

Telephone No

Postcode EH260HH

Registration No: (if applicable)

Branch No: (if applicable) N/A

NEXT INSPECTION

* Interval in terms of years, months, or weeks, as appropriate

I RECOMMEND that this installation is further inspected and tested after an interval of not more than *: 5 years

COMMENTS ON EXISTING INSTALLATION

Additional information and report notes

SCHEDULE OF ADDITIONAL RECORDS

See attached schedule

N/A

Risk assessment attached: N/A

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System

TN-S	N/A
TN-C-S	✓
TT	N/A
* Other	N/A

Number and Type of Live Conductors

1-phase (2 wire)	✓	1-phase (3 wire)	N/A
2-phase (3 wire)	N/A	3-phase (4 wire)	N/A
other	N/A		

Nature of Supply Parameters

(1) by enquiry
(2) by enquiry or by measurement
(3) where more than one supply, the higher or highest values

AC or DC	A/C	Nominal Voltage U (1)	230/230 V	Nominal frequency f (1)	50 Hz
		Uo (1)	230 V	External earth fault loop impedance Ze (2/3)	0.34 Ω
Single-phase	Prospective fault current (2/3)	0.68 kA	3-phase	Prospective fault current (2/3)	N/A kA

*Characteristics of Primary Supply

*Other sources of supply to be detailed on attached schedules

BS(EN)	BS 1361 Type 2b		
Type	Type 2		
Rated current	100 A	Short-circuit capacity	10000 kA

PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing

Distributor's facility	✓
Installation earth electrode	N/A

Details of installation Earth Electrode (where applicable)

Type: (e.g rod(s), tape, etc)	N/A	Method of measurement:	N/A
Electrode resistance to Earth	N/A	Location:	N/A

Measured Ze	0.34	Ω
Maximum demand: (load)	100	Amps
Number of smoke alarms	3	
Protective measures for fault protection	ADS	

Main Switch/Switch-Fuse/Circuit-Breaker/RCD

Type BS(EN)	BS EN 60947-2	Voltage rating	230 V
No of poles	2	Rated Current	100 A
Supply conductor material	Copper	*RCD operating current IΔn	N/A mA
Supply conductor csa	25 mm²	*RCD rated time delay	N/A ms
		*RCD operating time (at IΔn)	N/A ms

* If RCD main switch

Earthing conductor

Conductor material:	Copper				
Conductor csa:	16 mm²	Continuity check ✓	N/A		

Main protective bonding conductors and bonding of extraneous conductive parts (√)

Conductor material	Copper	Conductor csa	10	Location: (where not obvious)					
Gas installation pipes	N/A	Water installation pipes	N/A	Oil installation pipes	N/A	Structural steel	N/A	To other Specifiy	N/A

SCHEDULE OF INSPECTIONS ✓ Indicates satisfactory inspection, N/A indicates the inspection is not applicable

Item No	DESCRIPTION	OUTCOME	Item No	DESCRIPTION	OUTCOME
1.0	Condition of consumer's intake equipment (Visual inspection only)	✓	8.0	Circuits (Distribution and Final)	✓
2.0	Parallel or switched alternative sources of supply	N/A	9.0	Isolation and switching	✓
3.0	Protective measure: Automatic Disconnection of Supply (ADS)	✓	10.0	Current-using equipment (permanently connected)	N/A
4.0	Basic protection	✓	11.0	Identification and notices	✓
5.0	Protective measures other than ADS	✓	12.0	Location(s) containing a bath or shower	✓
6.0	Additional protection	✓	13.0	Other special installations or locations	N/A
7.0	Distribution equipment	✓	14.0	Prosumer's low voltage electrical installation(s)	✓

CODES FOR TYPES OF WIRING						
A	**B**	**C**	**D**	**E**	**F**	**G**
Thermoplastic insulated/ sheathed cables	**Thermoplastic cables in metallic conduit**	**Thermoplastic cables in non-metallic conduit**	**Thermoplastic cables in metallic trunking**	**Thermoplastic cables in non-metallic trunking**	**Thermoplastic SWA cables**	**Thermosetting SWA cables**

TEST INSTRUMENT(S) USED

Earth fault loop impedance	N/A	Insulation resistance	N/A
Continuity	N/A	RCD	N/A
MFT	101332365	Other	N/A

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

Aico Smoke detector

DISTRIBUTION BOARD DETAILS FOR Whim House West Linton EH46 7BD

DB ref:	DB1	Zs at this board (Ω):		Ipf at this board (kA):		Main switch type BSEN	60947	Rating: 100 **A**	SPD Type(s)		Supply 25 **mm^2**	Earth: 16 **mm^2**
Distribution board location:		Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type BSEN reference:	BS 1361 Type 2b			Rating: **Amps**

CIRCUIT DETAILS / TEST RESULTS

Circuit reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors: Live (mm^2)	Circuit conductors: cpc (mm^2)	Max disconnection time	Overcurrent protective device: Type BS (EN)	Type	Rating	Breaking capacity (kA)	80% Max permitted Zs (Ω)	RCD: Type BS (EN)	Type	IΔn (mA)	Rating (A)	Continuity Ω – Ring final circuits only (measured end to end): r_1 (line)	r_n (neutral)	r_2 (cpc)	All circuits (At least 1 column to be completed): ($R_1 + R_2$)	R_2	Insulation resistance: Test voltage V	Live - Live (MΩ)	Live - Neutral (MΩ)	Live - Earth (MΩ)	Neutral - Earth (MΩ)	Polarity	Maximum measured Zs Ω	RCD: Disconnection time (ms)	Test button/fucntionality	AFDD: Manual test button/ functionality
1	Shower	A	101	1	10	4	0.4	60898	B	40	6	1.10	61008	AC	30	N/A	N/A	N/A	N/A	0.16	N/A	500v	N/A	>200	>200	>200	✓	0.50	27.6	✓	N/A
2	Ring Circuit	A	101	4	2.5	1.5	0.4	60898	B	32	6	1.10	61008	AC	30	N/A	0.22	0.22	0.22	0.29	N/A	500v	N/A	>200	>200	>200	✓	0.63	32.5	✓	N/A
3	Water heater	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.18	61008	AC	30	N/A	N/A	N/A	N/A	0.16	N/A	500v	N/A	>200	>200	>200	✓	0.50	32.5	✓	N/A
4	Panel heater	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.18	N/A	500v	N/A	>200	>200	>200	✓	0.52	32.5	N/A	N/A
5	Towel Rail	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.18	61008	AC	30	N/A	N/A	N/A	N/A	0.17	N/A	500v	N/A	>200	>200	>200	✓	0.51	32.5	✓	N/A
6	Lights	A	101	12	1.0	1.0	0.4	60898	B	6	6	5.82	61008	AC	30	N/A	N/A	N/A	N/A	0.47	N/A	500v	N/A	>200	>200	>200	✓	0.81	32.5	✓	N/A

Not all SPDs have visible functionality indication. RCD effectiveness is verified using an alternating current test at rated residual operating current (Ian). Not all AFDDs have a test button

DISTRIBUTION BOARD DETAILS FOR Whim House West Linton EH46 7BD

DB ref:	DB2	Zs at this board (Ω):		Ipf at this board (kA):		Main switch type BSEN	60947	Rating:	100	A	SPD Type(s)		Supply	25	mm²
Distribution board location:		Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type BSEN reference:	BS 1361 Type 2b	Rating:		Amps	Earth:	16	mm²

CIRCUIT DETAILS

TEST RESULTS

Circuit reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors: Live (mm^2)	Circuit conductors: cpc (mm^2)	Max disconnection time	Overcurrent protective device: Type BS (EN)	Type	Rating	Breaking capacity (kA)	80% Max permitted Zs (Ω)	RCD: Type BS (EN)	Type	IΔn (mA)	Rating (A)	Continuity Ω – Ring final circuits only (measured end to end): r_1 (line)	r_n (neutral)	r_2 (cpc)	All circuits (At least 1 column to be completed): ($R_1 + R_2$)	R_2	Insulation resistance: Test voltage V	Live - Live (MΩ)	Live - Neutral (MΩ)	Live - Earth (MΩ)	Neutral - Earth (MΩ)	Polarity	Maximum measured Zs Ω	RCD: Disconnection time (ms)	Test button/fucntionality	AFDD: Manual test button/ functionality
1	Shower	A	101	1	10	4	0.4	60898	B	40	6	1.10	61008	AC	30	N/A	N/A	N/A	N/A	0.14	N/A	500	N/A	>200	>200	>200	✓	0.48	27.6	✓	N/A
2	Ring Circuit	A	101	4	2.5	1.5	0.4	60898	B	32	6	1.10	61008	AC	30	N/A	0.24	0.25	0.47	0.56	N/A	500	N/A	>200	>200	>200	✓	0.90	32.5	✓	N/A
3	Panel heater	A	101	2	2.5	1.5	0.4	60898	B	16	6	2.18	61008	AC	30	N/A	N/A	N/A	N/A	0.34	N/A	500	N/A	>200	>200	>200	✓	0.68	32.5	✓	N/A
4	Towel Rail	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.18	61008	AC	30	N/A	N/A	N/A	N/A	0.29	N/A	500	N/A	>200	>200	>200	✓	0.63	32.5	✓	N/A
5	Lights	A	101	12	1.0	1.0	0.4	60898	B	6	6	5.82	61008	AC	30	N/A	N/A	N/A	N/A	0.68	N/A	500	N/A	>200	>200	>200	✓	1.02	32.5	✓	N/A

Not all SPDs have visible functionality indication. RCD effectiveness is verified using an alternating current test at rated residual operating current (Ian). Not all AFDDs have a test button

DISTRIBUTION BOARD DETAILS FOR Whim House West Linton EH46 7BD

DB ref:	DB3	Zs at this board (Ω):		Ipf at this board (kA):		Main switch type BSEN	60947	Rating:	100	A	SPD Type(s)		Supply	25	mm²	Earth: 16 mm²
Distribution board location:		Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type BSEN reference:	BS 1361 Type 2b	Rating:		Amps				

CIRCUIT DETAILS / TEST RESULTS

Circuit reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors: Live (mm²)	Circuit conductors: cpc (mm²)	Max disconnection time	Overcurrent protective device: Type BS (EN)	Type	Rating	Breaking capacity (kA)	80% Max permitted Zs (Ω)	RCD: Type BS (EN)	Type	IΔn (mA)	Rating (A)	Continuity Ω – Ring final circuits only (measured end to end): r_1 (line)	r_n (neutral)	r_2 (cpc)	All circuits (At least 1 column to be completed): $(R_1 + R_2)$	R_2	Insulation resistance: Test voltage V	Live - Live (MΩ)	Live - Neutral (MΩ)	Live - Earth (MΩ)	Neutral - Earth (MΩ)	Polarity	Maximum measured Zs Ω	RCD: Disconnection time (ms)	Test button/fucntionality	AFDD: Manual test button/ functionality
1	Shower	A	101	1	10	4	0.4	60898	B	40	6	1.10	61008	AC	30	N/A	N/A	N/A	N/A	0.16	N/A	500	N/A	>200	>200	>200	✓	0.50	27.6	✓	N/A
2	Ring Circuit	A	101	4	2.5	1.5	0.4	60898	B	32	6	1.10	61008	AC	30	N/A	0.34	0.33	0.67	0.29	N/A	500	N/A	>200	>200	>200	✓	0.63	32.5	✓	N/A
3	Panel heater	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.18	N/A	500	N/A	>200	>200	>200	✓	0.52	32.5	N/A	N/A
4	Towel Rail	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.18	61008	AC	30	N/A	N/A	N/A	N/A	0.17	N/A	500	N/A	>200	>200	>200	✓	0.51	32.5	✓	N/A
5	Lights	A	101	12	1.0	1.0	0.4	60898	B	6	6	5.82	61008	AC	30	N/A	N/A	N/A	N/A	0.47	N/A	500v	N/A	>200	>200	>200	✓	0.81	32.5	✓	N/A

Not all SPDs have visible functionality indication. RCD effectiveness is verified using an alternating current test at rated residual operating current (Ian). Not all AFDDs have a test button

DISTRIBUTION BOARD DETAILS FOR Whim House West Linton EH46 7BD

DB ref:	DB4	Ze at this board (Ω):	0.38	Ipf at this board (kA):	0.67	Main switch type BSEN	60947	Rating:	100	**A**	SPD Type(s)	N/A	Supply	25	**mm²**	Earth:	16	**mm²**
Distribution board location:	Electrical unit	Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type BSEN reference:	BS 1361 Type 2b							Rating:	63	**Amps**

CIRCUIT DETAILS

TEST RESULTS

Circuit reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors		Max disconnection time	Overcurrent protective device					RCD				Continuity Ω					Insulation resistance					Polarity	Maximum measured Zs Ω	RCD		AFDD
					Live (mm^2)	cpc (mm^2)		Type BS (EN)	Type	Rating	Breaking capacity (kA)	80% Max permitted Zs (Ω)	Type BS (EN)	Type	IΔn (mA)	Rating (A)	Ring final circuits only (measured end to end) r_1 (line)	r_n (neutral)	r_2 (cpc)	All circuits (At least 1 column to be completed) $(R_1 + R_2)$	R_2	Test voltage V	Live - Live (MΩ)	Live - Neutral (MΩ)	Live - Earth (MΩ)	Neutral - Earth (MΩ)			Disconnection time (ms)	Test button/fucntionality	Manual test button/ functionality
1	Lights	A	101	22	1.5	1.5	0.4	60898	B	6	6	5.82	61008	AC	30	63	N/A	N/A	N/A	1.67	N/A	500v	N/A	>200	>200	>200	✓	2.01	23.5	✓	N/A

Not all SPDs have visible functionality indication. RCD effectiveness is verified using an alternating current test at rated residual operating current (Ian). Not all AFDDs have a test button

NOTES FOR RECIPIENT

THIS CERTIFICATE IS A VALUABLE DOCUMENT AND SHOULD BE RETAINED FOR FUTURE REFERENCE

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. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the owner.

This Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of BS 7671 at the time the Certificate was issued. The Construction (Design and Management) Regulations require that, for a project covered by those Regulations, a copy of this Certificate, together with schedules, is included in the project health and safety documentation. For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under 'NEXT INSPECTION'.

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an 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.