Date	29/03/2023	Certificate Serial No/Ref:	29032023

Aled Jones Electrical Services
Domestic Electrical Installation Certificate

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

DETAILS OF THE CLIENT

Client and address: Llanfair Caereinion Town Council

Postcode:

ADDRESS OF THE INSTALLATION

Installation address: Chapel Of Rest
Watergate Street

Postcode: SY210RG

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate: Consumer unit change

The Installation Is

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

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)

N/A

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)	ALED JONES	Date	29/03/2023

The results of the inspection and testing reviewed by

Signature		Name (Capitals)	A W JONES	Date	29/03/2023

PARTICULARS OF THE CONTRACTOR

Trading title: **Aled Jones Electrical Services**

Glasfryn
Wesley Street
Llanfair Caereinion

Email

Web

Telephone No

Postcode: SY210RX

Registration No: (if applicable): 52570

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

N/A

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)	0.28 Ω
Single-phase	Prospective fault current (2/3)	0.829 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	80 A	Short-circuit capacity	33 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	0.28	Ω
Maximum demand: (load)	30	Amps
Number of smoke alarms	0	
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	16 mm²	*RCD rated time delay	N/A ms
* If RCD main switch		*RCD operating time (at IΔn)	N/A ms

Earthing conductor

Conductor material:	Copper		
Conductor csa:	16 mm²	Continuity check ✓	✓

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

Conductor material	Copper	Conductor csa	10	Location: (where not obvious)	Out building (disconnected gas pipe)		
Gas installation pipes	✓	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
1.0	Condition of consumer's intake equipment (Visual inspection only)	✓
2.0	Parallel or switched alternative sources of supply	N/A
3.0	Protective measure: Automatic Disconnection of Supply (ADS)	✓
4.0	Basic protection	✓
5.0	Protective measures other than ADS	N/A
6.0	Additional protection	N/A
7.0	Distribution equipment	✓

Item No	DESCRIPTION	OUTCOME
8.0	Circuits (Distribution and Final)	✓
9.0	Isolation and switching	✓
10.0	Current-using equipment (permanently connected)	✓
11.0	Identification and notices	✓
12.0	Location(s) containing a bath or shower	N/A
13.0	Other special installations or locations	N/A
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	101620529	Other	N/A

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

Cold room compressor

DISTRIBUTION BOARD DETAILS FOR Chapel Of Rest Watergate Street SY210RG

DB ref:	DB1	Zs at this board (Ω):	0.28	Ipf at this board (kA):	0.834	Main switch type BSEN	60947	Rating:	100	A	SPD Type(s)	N/A	Supply	16	mm²	Earth: 16 mm²
Distribution board location:	Above main entrance	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: 80 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)	Overcurrent protective device: Type	Overcurrent protective device: Rating	Overcurrent protective device: Breaking capacity (kA)	Overcurrent protective device: Max permitted Zs (Ω) 80%	RCD: Type BS (EN)	RCD: Type	RCD: IΔn (mA)	RCD: Rating (A)	Continuity Ω, Ring final circuits only (measured end to end): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity Ω, 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)	RCD: Test button/fucntionality	AFDD: Manual test button/ functionality
1	Ring Circuit	A	101	4	2.5	1.5	0.4	61009	B	32	6	1.10	61009	A	30	32	0.34	0.34	0.6	0.24	N/A	500v	N/A	>999	>999	>999	✓	0.48	28.1	✓	N/A
2	Radial Circuit	A	101	1	2.5	1.5	0.4	61009	B	16	6	2.18	61009	A	30	16	N/A	N/A	N/A	0.25	N/A	500v	N/A	>999	>999	>999	✓	0.54	28	✓	N/A
3	Lights	A	101	8	1.0	1.0	0.4	61009	B	6	6	5.82	61009	A	30	6	N/A	N/A	N/A	0.23	N/A	500v	N/A	>999	>999	>999	✓	0.53	28.4	✓	N/A
4	Lights	A	101	2	1.0	1.0	0.4	61009	B	6	6	5.82	61009	A	30	6	N/A	N/A	N/A	0.15	N/A	500v	N/A	>999	>999	>999	✓	0.41	28.4	✓	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.