Date	11/12/2023	Certificate Serial No/Ref:	AZT 000721250073

AZT Electrical Services LTD

Electrical Installation Certificate

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

DETAILS OF THE CLIENT

Client and address

Joshua Vasilev
31 Milson Grove
York, United Kingdom

Postcode: YO10 3AQ

ADDRESS OF THE INSTALLATION

Installation address

31 Milson Grove
York, United Kingdom

Postcode: YO10 3AQ

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate

Complete rewiring of the property.
Installed new consumer unit

The Installation Is

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

DESIGN, CONSTRUCTION, INSPECTION AND TESTING

*** BS 7671 amended to : 2022**

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)	ALEKSANDAR ALEKSANDROV	Date	11/12/2023

The results of the inspection and testing reviewed by

Signature		Name (Capitals)	ALEKSANDAR ALEKSANDROV	Date	11/12/2023

PARTICULARS OF THE CONTRACTOR

Trading title

AZT Electrical Services LTD

70 Capri Road
Croydon
London

Email **info@aztelectrical.co.Uk**

Web

Telephone No	**07787936532**	Postcode	CR06LF
Registration No: (if applicable)	31444	**Branch No:** (if applicable)	NAPIT

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)	0.08 Ω
Single-phase		Prospective fault current (2/3)	3.0 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	N/A 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	0.08	Ω
Maximum demand: (load)	86.4	Amps
Number of smoke alarms	11	
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
* If RCD main switch		*RCD operating time (at IΔn)	N/A ms

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)	N/A				
Gas installation pipes	✓	Water installation pipes	✓	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)	N/A

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	5403155	Other	N/A

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

- circuit 10- two dimmer switches and shaver socket
- circuit 12- shaver socket
- circuit 13- 11 smoke alarms

DESIGN OF FIRE DETECTION INSTALLATIONS FOR DWELLING

DESCRIPTION OF SYSTEM GRADE AND SYSTEM CATEGORY

System Grade D1

System Category LD1

Description of areas protected
(LD2 & PD2 systems only)

N/A

Signature

Date 11/12/2023

All of system tested for satisfactory operation in accordance with recommendations of BS 5839-6*

Tested

In accordance with BS 5839-6 instructions have been supplied to*

Client

Where design, installation and commissioning are not all the responsibility of a single organisation or person, the relevant words should be deleted.' The signatory of the certificate should sign only as confirmation that the work for which they have been responsible complies with the relevant recommendations of BS5839-6:. A separate certificate(s) should then be issued for other work.,'

This certificate may be required by an authority responsible for enforcement of fire safety legislation, such as the building control authority or housing authority. The recipient of this certificate might rely on the certificate as evidence of compliance with legislation. Liability could arise on the part of any organisation or person that issues a certificate without due care in ensuring its validity.

MECHANICAL VENTILATION FLOW RATE TESTING. Fixed System 1 Fans Only

Equipment used to measure airflow

Model: N/A

Model Number: N/A

Type: N/A

Certificate Number: N/A

UKAS calibration date: 16/12/2023

Test Method Used

N/A

Please refer to NHBC Guidance Note for further information on Methods

Airflow measurement

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Fan Reference	**Manufacturer**	**Model**	**Measured extract rate (l/s)**	**Fan correction factor**	**Corrected exract rate (l/s)**	**Design exract rate (l/s)**	**Pass/fail**	**Reason if failed**
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A

DISTRIBUTION BOARD DETAILS FOR 31 Milson Grove York, United Kingdom YO10 3AQ

DB ref:	DB1- Main DB	Zs at this board (Ω):	0.11	Ipf at this board (kA):	2.2	Main switch type BSEN	60947	Rating:	100	A	SPD Type(s)	T2	Supply	25	mm^2	Earth:	16	mm^2
Distribution board location:	In the corridor	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		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)	100% Max permitted Zs (Ω)	Type BS (EN)	Type	IΔn (mA)	Rating (A)	Ring final circuits only (measured end to end) r_1 (line)	Ring final circuits only r_n (neutral)	Ring final circuits only r_2 (cpc)	All circuits (At least 1 column to be completed) $(R_1 + R_2)$	All circuits 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	MCB for SPD	N/A	N/A	N/A	6	6	0.4	60898	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A
2	She'd	G	D	1	6	6	0.4	60898	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.14	N/A	500	N/A	+500	+500	+500	✓	0.22	N/A	N/A	N/A
3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	Cooker	A	C	2	6	2.5	0.4	62606	B	32	6	1.37	62606	A	30	32	N/A	N/A	N/A	0.11	N/A	500	N/A	+500	+500	+500	✓	0.23	37.5	✓	✓
5	Kitchen sockets	A	C	15	2.5	1.5	0.4	62606	B	32	6	1.37	62606	A	30	32	0.26	0.26	0.42	0.28	N/A	500	N/A	+500	+500	+500	✓	0.27	37.5	✓	✓
6	Ground floor sockets	A	C	12	2.5	1.5	0.4	62606	B	32	6	1.37	62606	A	30	32	0.59	0.58	0.97	0.39	N/A	500	N/A	+500	+500	+500	✓	0.27	37.9	✓	✓
7	First floor sockets	A	C	19	2.5	1.5	0.4	62606	B	32	6	1.37	62606	A	30	32	0.36	0.36	0.63	0.29	N/A	500	N/A	+500	+500	+500	✓	0.38	37.7	✓	✓
8	WiFi socket	A	C	1	2.5	1.5	0.4	62606	B	16	6	2.73	62606	A	30	16	N/A	N/A	N/A	0.14	N/A	500	N/A	+500	+500	+500	✓	0.25	37.9	✓	✓
9	Boiler	A	C	2	2.5	1.5	0.4	61009 type B	B	10	6	4.37	61009	A	30	10	N/A	N/A	N/A	0.25	N/A	500	N/A	+500	+500	+500	✓	0.42	38.6	✓	N/A
10	Ground floor lights	A	C	45	1.5	1.0	0.4	61009 type B	B	6	6	7.28	61009	A	30	6	N/A	N/A	N/A	1.27	N/A	500	N/A	+500	+500	+500	✓	1.08	38.8	✓	N/A
11	First floor lights	A	C	9	1.5	1.0	0.4	61009 type B	B	6	6	7.28	61009	A	30	6	N/A	N/A	N/A	0.87	N/A	500	N/A	+500	+500	+500	✓	0.84	38.6	✓	N/A
12	Hallway,top bathroom	A	C	6	1.5	1.0	0.4	61009 type B	B	6	6	7.28	61009	A	30	6	N/A	N/A	N/A	0.61	N/A	500	N/A	+500	+500	+500	✓	0.62	38.6	✓	N/A
13	Smoke alarms	A	C	11	1.5	1.0	0.4	61009 type B	B	6	6	7.28	61009	A	30	6	N/A	N/A	N/A	2.11	N/A	500	N/A	+500	+500	+500	✓	2.09	38.8	✓	N/A
14	Emergency lights	A	C	8	1.5	1.0	0.4	61009 type B	B	6	6	7.28	61009	A	30	6	N/A	N/A	N/A	2.11	N/A	500	N/A	+500	+500	+500	✓	2.09	38.8	✓	N/A
15	Spare	N/A	N/A	N/A	N/A	N/A	N/A	60898	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 reference: DB1- Main DB

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)	100% Max permitted Zs (Ω)	Type BS (EN)	Type	IΔn (mA)	Rating (A)	Ring final circuits only (measured end to end) r_1 (line)	Ring final circuits only (measured end to end) r_n (neutral)	Ring final circuits only (measured end to end) r_2 (cpc)	All circuits (At least 1 column to be completed) $(R_1 + R_2)$	All circuits (At least 1 column to be completed) 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
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DISTRIBUTION BOARD DETAILS FOR 31 Milson Grove York, United Kingdom YO10 3AQ

DB ref:	DB2	Zs at this board (Ω):	0.21	Ipf at this board (kA):	1.2	Main switch type BSEN	60947	Rating:	100	A	SPD Type(s)	N/A	Supply	6	mm^2	Earth:	6	mm^2
Distribution board location:	In the shed	Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Main Board	No. Of phases:	Single	Supply protective device type BSEN reference:	BS EN 60898 MCB Type B							Rating:	32	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)	100% Max permitted Zs (Ω)	Type BS (EN)	Type	IΔn (mA)	Rating (A)	Ring final circuits only (measured end to end) r_1 (line)	Ring final circuits only r_n (neutral)	Ring final circuits only r_2 (cpc)	All circuits (At least 1 column to be completed) $(R_1 + R_2)$	All circuits 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	Sockets	A	B	5	2.5	1.5	0.4	62606	B	32	6	1.37	62606	A	30	32	0.13	0.13	0.15	0.21	N/A	500	N/A	+500	+500	+500	✓	0.30	37.7	✓	✓
2	Lights	A	B	2	1.5	1.0	0.4	61009 type B	B	6	6	7.28	61009	A	30	6	N/A	N/A	N/A	0.24	N/A	500	N/A	+500	+500	+500	✓	0.52	38.6	✓	N/A
3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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.

Electrical Test Instrument

Calibration Certificate Copy

CERTIFICATE OF CALIBRATION

Issued By Direct Calibration Solutions
Date of Issue 26 September 2023

Certificate Number S32972

Direct Calibration Solutions
Unit 11 Cophall Farm Business Park, Effingham Road
Crawley, West Sussex, RH10 3HZ
T: 01293 387107
E: Info@directcal.co.uk

Approved Signatory

Dave Robbins ☐ Liam Bean ☑ Chris Tymms ☐

Customer : AZT Electrical Services
70 Capri Road, London
Croydon, CR0 6LF

Date Received : 26 September 2023

Instrument :

System ID :	ID43995	Procedure Version	1.00/AUTO
Description :	Multifunction Tester	Job Number :	J34199
Manufacturer :	Fluke	Customer Ref :	
Model Number :	1664FC		
Serial Number :	5403155		
Procedure No. :	2740		

Environmental Conditions

Temperature :	23°C ± 3°C	Mains Voltage :	240V ± 10V
Relative Humidity :	50%RH ± 20%RH	Mains Frequency :	50Hz ± 1Hz

Comments

Instrument was placed in lab and allowed to stablise before calibration.
Unit calibrated to manufacturer's tolerances.

Traceability Information

Instrument Description	*Serial Number*	*Certificate Number*	*Cal. Date*	*Cal. Period*
3200B Electrical Test Calibrator	M1536F20	UKAS 48792	26/05/2023	52

Calibrated By : Kevin Miret Noriega

Date of Calibration : 26 September 2023

This certificate complies with the requirements of BS EN ISO 10012:2003.

AZT Electrical Services LTD

Certifies this certificate is a true likeness of the original calibration certificate for the test instrument(s) used to asses electrical compliance for the installation