



Date 05/02/2013

Certificate Serial No/Ref:

OSE Test Results - Example

O.S Electrical

DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

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



DETAILS OF THE CLIENT

Client and address
Mr. Smith
/
/

Postcode: /

ADDRESS OF THE INSTALLATION

Installation address
/
/

Postcode: /

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate
Complete Electrical Installation - All Circuits Within DB1 & DB2 only.

The installation is:

New	<input checked="" type="checkbox"/>
An addition	N/A
An alteration	N/A

DESIGN, CONSTRUCTION, INSPECTION AND TESTING

I/we, being the person/s responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my/our signature/s below, 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/our knowledge and belief, in accordance with BS 7671: amended to 01/01/2012 except for the departures, if any, detailed as follows:

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

1. One double 13A socket above 1200mm in the Garage at the clients request for a TV Aerial Distribution Amplifier.

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

Signature

Name
(Capitals)

OWEN SKINNER

Date 05/02/2013

The results of the inspection and testing reviewed by

Signature

Name
(Capitals)

OWEN SKINNER

Date 05/02/2013

PARTICULARS OF THE CONTRACTOR

Trading title
O.S Electrical58 Trelawney Avenue,
St. Ives,
Cornwall,

Telephone No 07816067921

Postcode TR26 1AS

Registration No:
(if applicable)

18543

Branch No:
(if applicable)

NEXT INSPECTION

* Enter 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 *
10 Years

COMMENTS ON EXISTING INSTALLATION

Additional information and report notes

SCHEDULE OF ADDITIONAL RECORDS

See attached schedule

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS
Tick boxes & enter details as appropriate

System Type(s)

TN-S

N/A

TN-C-S

N/A

TT

✓

* 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

(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)

400/230

V

Nominal frequency f (1)

50

Hz

Uo (1)

230

V

External earth fault loop impedance Ze (2/3)

190

Ω

Single-phase Prospective fault current (2/3)

0.669

kA

3-phase Prospective fault current (2/3)

kA

*Characteristics of Primary Supply Over current Protective

*Other sources of supply to be detailed on attached schedules

BS(EN)

1361

Type

Type 2

Rated current

80

A

Short-circuit capacity

16

kA

PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing

Distributor's facility

N/A

Installation earth electrode

✓

Details of installation Earth Electrode (where applicable)

Type:

Rod

Location:

Side of House Next To DNO Fuse Box

Electrode resistance, RA:

190

Method of measurement:

Loop Impedance Tester

Measured Ze

190

Ω

Maximum demand: (load)

80

kVA/Amps

Number of smoke alarms

5

Protective measures for fault protection

ADS

Main Switch or circuit-breaker

Type BS(EN)

BS EN 61009 RCD/RCBO - Type B

Voltage rating

230

V

No of poles

2

Rated Current

80

A

Supply conductor material

Copper

RCD operating current IΔn

100

mA

Supply conductor csa

25

mm²

RCD operating time (at IΔn)

200

ms

Earthing conductor

Conuctor material:

Copper

Conuctor csa:

10

mm²

Continuity check (✓)

✓

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

Conductor material

Copper

Conductor csa

16

Water service

✓

Oil service

N/A

Location:

Gas service

✓

Structural steel

✓

Other service

✓

SCHEDULE OF ITEMS TESTED

✓ External earth loop impedance, Ze

✓ Polarity

✓ Protection by separation of circuits

✓ Installation earth electrode resistance, Ra

✓ Earth fault loop impedance Zs

N/A Other (*Please note below)

✓ Continuity of protective conductors

N/A Verification of phase sequence

* Further notes for items tested, if applicable

✓ Continuity of ring final circuit conductors

✓ Operation of residual current device(s)

✓ Insulation resistance between live conductors

✓ Functional testing of assemblies

✓ Insulation resistance between live conductors and earth

✓ Verification of voltage drop

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Report pages including inspection and test schedules 2 of 7

SCHEDULE OF ITEMS INSPECTED

Note: All boxes must be completed

Protective measures against electric shock

Basic and fault protection

Extra low voltage

Double or reinforced insulation

✓

SELV or PELV

✓

Double or reinforced insulation

Basic protection

✓

Insulation of live parts

✓

Barriers and enclosures

Fault protection

Automatic disconnection of supply

✓

Presence of earthing conductor

✓

Presence of circuit protection conductors

✓

Presence of main protective bonding conductors

✓

Choice and setting of protective devices (for fault protect and/or overcurrent)

Electrical separation

✓

For one item of current-using equipment

N/A

For more than one item of current using equipment

Additional protection

✓

Presence of residual current devices(s)

✓

Presence of supplementary bonding conductors

Prevention of mutual detrimental influences

✓

Proximity of non-electrical services and other influences

✓

Segregation of band I and band II circuits or band II insulation used

✓

Segregation of safety circuits

Identification

✓

Presence of diagrams, instructions, circuit charts and similar information

✓

Presence of danger notices

✓

Presence of other warning notices, including presence of mixed wiring colours

✓

Labelling of protective devices, switches and terminals

✓

Identification of conductors

Cables and conductors

✓

Selection of of conductors for current carrying capacity and voltage drop

✓

Erection methods

✓

Routing of cables in prescribed zones

✓

Cables incorporating earthed armour, sheath or run in an earthed wiring system, or otherwise protected against nails, screws and the like

✓

Additional protection by 30mA RCD (where required in premises not under the supervision of skilled or instructed persons)

✓

Connection of conductors

N/A

Presence of fire barriers, suitable seals and protection against thermal effects

General

✓

Presence and correct location of appropriate devices for isolation and switching

✓

Adequacy of access to switchgear and other equipment

N/A

Particular protective measures for special installations and locations

✓

Connection of single pole devices for protection or switching in line conductors only

✓

Correct connection of accessories and equipment

✓

Selection of equipment and protective measures appropriate to external influences

✓

Selection of appropriate functional switching devices

✓

To indicate that an inspection or test has been carried out and the result is satisfactory

N/V

To indicate that details could not be verified

X

To indicate that an inspection or test has been carried out and the result was unsatisfactory

N/A

To indicate the inspection or test is not applicable

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TEST INSTRUMENTS USED			
Earth fault loop impedance		Insulation resistance	
Continuity		RCD	
MFT	16120312	Other	

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

Rcds
Fans
Fluro Pro Solar Thermal Controller
Gas Boiler

Distribution Board Details for / / /																
DB ref:	DB2	Zs at this board (Ω):	190	Ip at this board (kA):	0.669	Main switch type BSEN reference:	60947-3 Isolator	Rating:	100	Amps	Supply conductors:	25	mm ²	Earth:	10	mm ²
Distribution board location:	Garage	Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Double Pole 100mA S-Type Rcd In DNO Fuse Box			No. Of phases:	Single	Supply protective device type BSEN reference:	BS3161 Fuse HBC - Type 2			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 permitted	Over current devices			RCD	Maximum Permitted Zs	Continuity Ω					Insulation resistance				Polarity	Measured Zs Ω	RCD		
Live (mm ²)					cpc (mm ²)	Type BS EN		Rating (A)	Short circuit capacity (kA)	IΔn mA	Ring final circuits only (Measured end to end)			All circuits (At least one column to be completed)		Line/Line M Ω	Line/Neutral M Ω	Line/Earth M Ω	Neutral/Earth M Ω	Test button functionality	At IΔn ms			At 5 x IΔn ms		
											r ₁		r _n	r ₂	R ₁ + R ₂										R ₂	

1	Cooker + Hob	A	A	3	6	2.5	0.2s	60898 type B	32	6	30	1.15	N/A	N/A	N/A	0.04	N/A		1000	246	246	✓	70.2	✓	45.6	13.4
2	Ring B - GF04, 05	A	A	14	2.5	1.5	0.2s	60898 type B	32	6	30	1.15	0.65	0.65	1.02	0.42	N/A		1000	444	444	✓	70.3	✓	45.6	13.4
3	Ring D - 1F03, 07 & 2F01	A	A	11	2.5	1.5	0.2s	60898 type B	32	6	30	1.15	0.64	0.64	1.05	0.42	N/A		1000	837	837	✓	70.1	✓	45.6	13.4
4	Immersion Heater	A	A	1	2.5	1.5	0.2s	60898 type B	16	6	30	6.13	N/A	N/A	N/A	0.15	N/A		1000	1000	1000	✓	70.2	✓	45.6	13.4
5	GF Heating/ Back Boiler	A	A	4	2.5	1.5	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	0.10	N/A		1000	1000	1000	✓	74.2	✓	45.6	13.4
6	Lights A - GF01, 02, 03, 06, 07	A	A	32	1.5	1.0	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	3.27	N/A		1000	77.5	77.5	✓	76.9	✓	45.6	13.4
7	Lights C - GF 08, 09	A	A	12	1.5	1.0	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	2.52	N/A		1000	179.4	179.4	✓	75.7	✓	45.6	13.4
8	Lights E - 1F04, 05 & 2F01	A	A	6	1.5	1.0	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	1.16	N/A		1000	223	223	✓	69.2	✓	45.6	13.4
9	Ring A - GF01, 02, 06, 07	A	A	9	2.5	1.5	0.2s	60898 type B	32	6	30	1.15	0.56	0.54	0.90	0.40	N/A		1000	961	961	✓	70.4	✓	54.8	13.2
10	Ring C - GF08, 09	A	A	8	2.5	1.5	0.2s	60898 type B	32	6	30	1.15	0.73	0.72	1.19	0.48	N/A		1000	459	459	✓	70.7	✓	54.8	13.2
11	Ring E - 1F01, 04, 05	A	A	9	2.5	1.5	0.2s	60898 type B	32	6	30	1.15	0.47	0.46	0.78	0.31	N/A		1000	319	319	✓	69.2	✓	54.8	13.2
12	Shower Pump - 1F09	A	A	1	2.5	1.5	0.2s	60898 type B	16	6	30	2.30	N/A	N/A	N/A	0.15	N/A		1000	981	981	✓	68.9	✓	54.8	13.2
13	1F Heating/ Gas Boiler	A	A	16	2.5	1.5	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	0.18	N/A		1000	1000	1000	✓	69.6	✓	54.8	13.2
14	Lights B - GF04, 05	A	A	17	1.5	1.0	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	1.79	N/A		1000	116.2	116.2	✓	74.6	✓	54.8	13.2
15	Lights D - 1F01, 03, 06, 07, 08	A	A	22	1.5	1.0	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	1.37	N/A		1000	186.3	186.3	✓	75.6	✓	54.8	13.2
16	Smokes - GF02, 04, 08 & 1F01 & 2F01	A	A	5	1.5	1.0	0.2s	60898 type B	6	6	30	6.13	N/A	N/A	N/A	1.43	N/A		1000	357	357	✓	69.7	✓	54.8	13.2



DISTRIBUTION BOARD DETAILS FOR / //

DB ref:	DB1	Zs at this board (Ω):	190	Ipf at this board (kA):	0.669	Main switch type BSEN reference:	61008 RCD	Rating:	80	Amps	Supply conductors:	25	mm ²	Earth:	10	mm ²
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Distribution board location:	DNO Fuse Box	Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	DNO Fuse & Meter	No. Of phases:	Single	Supply protective device type BSEN reference:	BS3161 Fuse HBC - Type 2	Rating:	80	Amps
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CIRCUIT DETAILS

TEST RESULTS

Circuit Reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors		Max.Disconnection time permitted	Over current devices			RCD	Maximum Permitted Zs	Continuity Ω					Insulation resistance				Polarity	Measured Zs Ω	RCD			
					Live (mm ²)	cpc (mm ²)		Type BS EN	Rating (A)	Short circuit capacity (kA)			IΔn mA	Ring final circuits only (Measured end to end)			All circuits (At least one column to be completed)		Line/Line M Ω	Line/Neutral M Ω	Line/Earth M Ω			Neutral/Earth M Ω	Test button functionality	At IΔn ms	At 5 x IΔn ms
														r ₁	r _n	r ₂	R ₁ + R ₂	R ₂									

[illegible]

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CODES FOR TYPES OF WIRING								
A	B	C	D	E	F	G	H	O (other please state)
PVC/PVC CABLES	PVC CABLES IN METALLIC CONDUIT	PVC CABLES IN NON-METALLIC CONDUIT	PVC CABLES IN METALLIC TRUNKING	PVC CABLES IN NON-METALLIC TRUNKING	PVC/SWA CABLES	XLPE/SWA CABLES	MINERAL INSULATED CABLES	

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 and inspected and tested in accordance with British Standard 7671 (The IET Wiring Regulations).

You should have received an original Certificate and the contractor should have retained a duplicate Certificate. 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 user.

The original 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 British Standard 7671 at the time the certificate was issued 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 health and safety documentations.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection is stated in the certificate under "Next Inspection."

This certificate is intended to be issued only for a new electrical installation or for new work associated with an alteration or addition to a existing installation. It should not have been issued for the inspection of an existing electrical installation. An “Electrical Installation Condition Report” should be issued for such an inspection.

The certificate is only valid if a Schedule of Inspection of Test Results is attached.