

DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE		CERTIFICATE NUMBER	
REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671: 2008		DEIC	2015-50
CLIENT DETAILS		INSTALLATION ADDRESS	
Name and address of client	44 Cornwallis Street, Stoke, Stoke on Trent, Staffs	Installation Address	As Client
Postcode	ST4 1EA	Postcode	
INSTALLATION DETAILS		The Installation is:	
Extent of installation covered by this certificate	Part Rewire. New circuits to kitchen and bathroom. Fuse board and earthing update. Smoke detection. Change update outlets.	New installation	<input type="checkbox"/>
		An Addition	<input checked="" type="checkbox"/>
		An Alteration	<input checked="" type="checkbox"/>
FOR DESIGN, CONSTRUCTION, INSPECTION AND TESTING		The extent of the liability of the signatory is limited to the work described above as the subject of this Certificate.	
I/We being the person(s) responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my/our signature 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 said work for which I/we have been responsible is to the best of my knowledge and belief in accordance with BS 7671: 2008 amended to 2013 date except for the departures, if any, detailed as follows:		For the DESIGN , the CONSTRUCTION and the INSPECTION AND TESTING of the installation:	
Details of departures from BS 7671, as amended (Regulations 120.3, 120.4)		Signature	<i>D Chadwick</i> Name D Chadwick Date 23/04/15
		The results of the inspection and testing reviewed by the Qualified Supervisor	
		Signature	<i>D Chadwick</i> Name D Chadwick Date 27/04/15
DETAILS OF THE ELECTRICAL CONTRACTOR		NEXT INSPECTION	
Trading Title	Nationwide Securities & Electrical Ltd	I/We recommend that this installation is further inspected and tested after an interval of not more than: 5 year	
Address	HOLBORN COURT, FROG HALL, NEWCASTLE, STAFFS	COMMENTS ON EXISTING INSTALLATION	
Postcode	ST5 2RX	none	
Telephone No	01782 610444	SCHEDULE OF ADDITIONAL RECORDS	
		Domestic smoke detection install cert	
Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).			
			Page 1 of 3

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

CERTIFICATE NUMBER

DEIC **2015-50**

Earthing arrangements	Number and Type of Live Conductors		Nature of Supply Parameters						Characteristics of primary supply overcurrent protective device(s)							
TN-S	1-phase, 2-wire	✓	1-phase, 3-wire	Nominal voltages, U	230	V	Nominal Frequency	50	Hz	BS (EN)	1361					
TN-C-S	3 phase, 3-wire		3-phase, 4-wire	U _o	230	V	External earth fault loop impedance, Z _e	15	Ω	Type	2					
TT	✓	Other		Prospective fault current, I _{pf}	0.015	kA	3-phase	Prospective fault current, I _{pf}	na	kA	Rated current	80	A	Short-circuit capacity	33	kA

DETAILS OF INSTALLATION AT THE ORIGIN

Mean of Earthing	Details of Installation Earth Electrode				Measured Z _e		Main switch or circuit-breaker											
Distributor's Facility	Type	rod	Location	below consumer unit	Protective measures for fault protection	Maximum demand (load)	80	kVA / Amps	Type BS(EN)	61003	Voltage rating	230	V					
Installation earth electrode	✓	Electrode resistance R _A	15	Ω	Method of Measurement	Earth fault loop	ADS	Number of smoke alarms	3	No of poles	2	Current rating, I _n	100	A				
Earthing Conductor		Main protective bonding conductors of extraneous-conductive-parts						Supply conductors material		RCD operating current, I _{Δn} *								
Conductor material	copper	Conductor material	copper	Conductor csa	10	mm ²	Water service	✓	Oil service		Gas service	✓	Supply conductors csa	25	mm ²	RCD operating time, (at I _{Δn})*	na	ms
Conductor csa	10	mm ²	Continuity check	✓	Location (where not obvious)	Structural steel		Other incoming service(s)		* applicable only where an RCD is used as a main circuit-breaker								

SCHEDULE OF ITEMS INSPECTED

All boxes must be completed

Protective Measures against electric shock

Basic and fault protection	Additional protection
Extra low voltage ✓ SELV	✓ Presence of residual current device(s)
Double or reinforced insulation	N/A Presence of supplementary bonding conductors
✓ Double or reinforced insulation	Prevention of mutual detrimental influence
Basic protection	✓ Proximity of non-electrical services and other influences
✓ Insulation of live parts ✓ Barriers or enclosures	✓ Segregation of Band I and Band II circuits or Band II insulation used
Fault protection	N/A Segregation of safety circuits
Automatic disconnection of supply	Identification
✓ Presence of earthing conductor	✓ Presence of diagrams, instructions, circuit charts and similar information
✓ Presence of circuit protective conductors	✓ Presence of danger notices
✓ Presence of main protective bonding conductors	✓ Presence of other warning notices, including presence of mixed wiring colours
✓ Choice and setting of protective devices (for fault protection and/or overcurrent)	✓ Labelling of protective devices, switches and terminals
Electrical separation	Identification of conductors
✓ For one item of current-using equipment	Cables and conductors
	✓ Selection of conductors for current carrying capacity and voltage drop

Cables and conductors (cont)

✓ Erection methods
✓ Routing of cables in prescribed zones
N/A Cables incorporating earthed armour or sheath or run in an earthed system, or otherwise protected against nails, screws etc
✓ Additional protection, by 30mA RCD (where required, in premises not under the supervision of skilled or instructed persons)
✓ 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
✓ Particular protective measures for special installations and locations
✓ Connection of single-pole devices for protection or switching in phase conductors only
✓ Correct connection of accessories and equipment
✓ Selection of equipment and protective measures appropriate to external influences
✓ Selection of appropriate functional switching devices

SCHEDULE OF ITEMS TESTED

✓ External earth fault loop impedance Z _e
✓ Installation earth electrode resistance, R _A
✓ Continuity of protective conductors
✓ Continuity of ring final circuit conductors
✓ Insulation resistance between live conductors
✓ Insulation resistance between live conductors and earth
✓ Polarity
✓ Earth fault loop impedance, Z _s
N/A Verification of phase sequence
✓ Operation of residual current device(s)
✓ Functional testing of assemblies
✓ Verification of voltage drop

Key: ✓ indicates that an inspection or test was carried out and that the result was **satisfactory**. N/A indicates that an inspection or test was **not applicable** to the particular installation.

CIRCUIT DETAILS														TEST RESULTS													CERTIFICATE NUMBER		
Circuit number	Circuit designation			D = Distribution circuit F = Final circuit	Type of wiring (see code)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD		Circuit impedances (Ω)					Insulation resistance				Max measure earth fault loop impedance, Z_s	RCD operating times		
	* To be completed only when this consumer unit is remote from the origin of the installation							Live	cpc	Max discon time permitted by BS7671	BS(EN)	Type No	Rating	Capacity	Operating current, $I_{\Delta n}$	Maximum Z_s permitted by BS7671	Ring final circuits only (measured end to end)		All circuits (At least one column to be completed)			Line/ Line	Line/ Neutral	Line/ Earth	Neutral/ Earth		Polarity	at $I_{\Delta n}$	at $5I_{\Delta n}$
	Record details of the circuit supplying this consumer unit in the bold box			(mm ²)	(mm ²)	(s)			(A)	(kA)	(mA)		r_{11} Line	r_{1n} Neutral	r_{21} cpc	$R_1 + R_2$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)	(\checkmark)	(Ω)	(ms)	(ms)				
*																													
1	Shower			F	A	100	2	10	6.0	0.4	60898	B	40	6	30	0.92	na	na	na	0.08		>200	>200	>200	√	15.08	26	8	
2	Kitchen Sockets			F	A	100	13	2.5	1.5	0.4	60898	B	32	6	30	1.15	0.37	0.38	0.68	0.25		>200	>200	>200	√	15.25	26	8	
3	House Lights			F	A	100	6	1.0	1.0	0.4	60898	B	6	6	30	6.13	na	na	na	1.03		>200	>200	>200	√	16.03	26	8	
4	Smoke Detection			F	A	100	4	1.0	1.0	0.4	60898	B	6	6	30	6.13	na	na	na	1.10		>200	>200	>200	√	16.10	26	8	
5																													
6	Cooker			F	A	100	2	6.0	2.5	0.4	60898	B	32	6	30	1.15	na	na	na	0.09		>200	>200	>200	√	15.09	27	9	
7	House Sockets			F	A	100	12	2.5	1.5	0.4	60898	B	32	6	30	1.15	0.54	0.54	0.90	0.36		>200	>200	>200	√	15.36	27	9	
8	Kitchen/cupboard lights			F	A	100	9	1.0	1.0	0.4	60898	B	6	6	30	6.13	na	na	na	1.08		>200	>200	>200	√	16.08	27	9	
9																													

Location of consumer unit(s) **Front Room** Designation of consumer unit(s) **House P & L** Prospective fault current at consumer unit(s) **0.015** kA

Codes for Type of Wiring **A** PVC/PVC cables **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** XLPE/SWA cables **H** Mineral Insulated cables **O** Other Details (please state)

TEST INSTRUMENTS (Serial Numbers)

Insulation resistance **1118168/NSE5** Continuity **1118168/NSE5** Earth fault loop impedance **1118168/NSE5**

Multi-functional **1118168/NSE5** Earth electrode resistance **1118168/NSE5** RCD **1118168/NSE5**

Page 3 of 3

DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

GUIDANCE FOR RECIPIENTS

This 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 IEE 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 user 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. 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 competent person. 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 alteration or addition to an existing installation. It should not have been issued for the inspection of an existing electrical installation. A "Periodic Inspection Report" should be issued for such a periodic inspection.

This certificate is only valid if a Schedule of Inspections and a Schedule of Test Results are appended.