

ELECTRICAL INSTALLATION CERTIFICATE

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671 [IEE WIRING REGULATIONS])

DETAILS OF CLIENT

Client
 Address

DETAILS OF THE INSTALLATION

Address

Extent of the installation covered by this certificate

Installation:

New

Addition

Alteration

DESIGN

I/We, being the person(s) responsible for the design of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2008 (Date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671:2008, as amended (Regulations 120.3, 120.4):

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.
 For the DESIGN of the installation:

Signature Date Name Designer No 1

Signature Date Name Designer No 2

CONSTRUCTION

I/We, being the person(s) responsible for the construction of the electrical installation (as indicated by my/our signatures below), of which are described above, have exercised reasonable skill and care when carrying out the construction, and hereby CERTIFY that the construction work for which responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2008 (Date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671:2008, as amended:

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.
 For the CONSTRUCTION of the installation:

Signature Date Name Constructor

INSPECTION & TESTING

I/We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, have exercised reasonable skill and care when carrying out the inspection and testing, and hereby CERTIFY that the inspection and testing for which I/we responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2008 (Date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671:2008, as amended:

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.
 For the INSPECTION & TESTING of the installation:

Signature Date Signature Date

Name Inspector Name Reviewed by: Qualifying Manager

DESIGN CONSTRUCTION INSPECTION & TESTING

This section to be completed only when the design, construction, inspection and testing of the electrical installation has been the responsibility of one person

I, being the person(s) responsible for the Design, Construction, Inspection and Testing of the electrical installation (as indicated by my signature below), particulars of which are described above, have exercised reasonable skill and care when carrying out the Design, Construction, Inspection and Testing, hereby CERTIFY that the said work for which I have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2008 (Date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671:2008, as amended (Regulations 120.3, 120.4):

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

Signature Date Signature Date

Name Reviewed by: Qualifying Manager

PARTICULARS OF SIGNATORIES	DESIGN (1)	Organisation Address	<input type="text"/>
			Postcode
	DESIGN (2)	Organisation Address	<input type="text"/>
			Postcode
CONSTRUCTION	Organisation Address	<input type="text"/>	
		Postcode	
INSPECTION & TEST	Organisation Address	<input type="text"/>	
		Postcode	

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details as appropriate

System	Type of Live Conductors	Nature of Supply Parameters	Protective Device(s) Characteristics
TN-S <input type="checkbox"/>	a.c. <input type="checkbox"/> d.c. <input type="checkbox"/>	Nominal voltage(s) U_n (1) <input type="text"/> V U_o (1) <input type="text"/> V	BS <input type="text"/> Type <input type="text"/> Nominal current rating <input type="text"/> A Short-circuit capacity <input type="text"/> kA
TN-C-S <input type="checkbox"/>	1-phase (2 wire) <input type="checkbox"/> 1-phase (3 wire) <input type="checkbox"/> 2 pole <input type="checkbox"/>	Nominal Frequency (1) <input type="text"/> Hz	
TN-C <input type="checkbox"/>	2-phase (3 wire) <input type="checkbox"/> 3-pole <input type="checkbox"/>	Prospective fault current (2)(3) <input type="text"/> kA	
TT <input type="checkbox"/>	3-phase (3 wire) <input type="checkbox"/> 3-phase (4 wire) <input type="checkbox"/> other <input type="checkbox"/>	External loop impedance Z_e (3)(4) <input type="text"/> Ohms	
IT <input type="checkbox"/>	Other <input type="text"/>	Number of sources <input type="text"/>	

Notes:
 (1) by enquiry
 (2) by enquiry or by measurement
 (3) Where more than one supply, record the higher value.
 (4) by measurement

PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details as appropriate

Means of Earthing	Details of Installation Earth Electrode (where applicable)		
Distributor's facility <input type="checkbox"/>	Type of earth eg rod(s), tape etc <input type="text"/>	Location <input type="text"/>	
Installation earth electrode <input type="checkbox"/>	Electrode resistance <input type="text"/> Ohms	Method of measurement <input type="text"/>	
Main Switch or Circuit-Breaker <small>*(Applicable only where an RCD is suitable and is used as a main circuit breaker)</small>		Maximum Demand <input type="text"/> A per phase	Protective measures against electric shock: <input type="text"/>
Type: BS <input type="text"/>	Voltage rating <input type="text"/> V	Main Protective Conductors	
No of Poles <input type="text"/>	Current rating <input type="text"/> A	Earthing conductor Conductor material <input type="text"/> c.s.a. <input type="text"/> mm ² Continuity check <input type="checkbox"/>	Equipotential bonding conductors Conductor material <input type="text"/> c.s.a. <input type="text"/> mm ² Continuity check <input type="checkbox"/>
Cables' material <input type="text"/>	RCD operating current <input type="text"/> mA	Extraneous-conductive-parts bonded Water service <input type="checkbox"/> Gas service <input type="checkbox"/> Oil service <input type="checkbox"/> Structural steel <input type="checkbox"/> Lightning protection <input type="checkbox"/> Other incoming service(s) <input type="checkbox"/>	
Cable's csa <input type="text"/> mm ²	RCD operating time (at 1 x I) <input type="text"/> ms		

COMMENTS ON EXISTING INSTALLATION

Note: Enter 'NONE' or, where appropriate, the page number(s) of separate sheet(s) of comments on the existing installation.

NEXT INSPECTION

I/We, the designer(s), RECOMMEND that this installation is further inspected after an interval of not more than

SCHEDULE OF ITEMS INSPECTED (See Section 611 of BS 7671)

Methods of protection against electric shock
Both basic and fault protection:

- (i) SELV
- (ii) PELV
- (iii) Double insulation
- (iv) Reinforced insulation

Basic protection:

- (i) Insulation of live parts
- (ii) Barriers or enclosures
- (iii) Obstacles
- (iv) Placing out of reach

Fault protection:

- (i). Automatic disconnection of supply:
 - Presence of earthing conductors
 - Presence of circuit protective conductors
 - Presence of protective bonding conductors
 - Presence of supplementary bonding conductors
 - Presence of earthing arrangements for combined protective and functional purposes
 - Presence of adequate arrangements for alternative source(s), where applicable
 - FELV
 - Choice and setting of protective and monitoring devices (for fault and/or overcurrent protection)
- (ii). Non-conducting location:
 - Absence of protective conductors
- (iii) Earth-free local equipotential bonding:
 - Presence of earth-free equipotential bonding conductors
- (iv) Electrical separation:
 - Provided for one item of current using equipment
 - Provided for more than one item of current using equipment

Additional protection:

- Presence of residual current devices
- Presence of supplementary bonding conductors

Prevention of mutual detrimental influence

- (a) Proximity of non-electrical services and other influences
- (b) Segregation of Band I and Band II cables or Band II insulation used.
- (c) Segregation of safety circuits

Identification

- (a) Presence of diagrams, instructions, circuit charts and similar information
- (b) Presence of danger notices and other warning notices
- (c) Labelling of protective devices, switches and terminals
- (d) Identification of conductors

Cables and conductors

- Selection of conductors for current carrying capacity and voltage drop
- Erection methods
- Routing of cables in prescribed zones
- Cables incorporating armour or sheath, or run within an earthed wiring system, or otherwise adequately protected against nails screws and the like
- Additional protection provided by 30mA RCD for cables in concealed walls (where required in premises not under the supervision of a skilled or instructed person)
- Connection of conductors
- Presence of fire barriers, suitable seals and protection against thermal effects

General

- Presence of 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
- Presence of undervoltage protective devices
- 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, (Ze)
- Installation earth electrode resistance, (Ra)
- Continuity of protective conductors
- Continuity of ring final circuit conductors
- Insulation resistance between live conductors
- Insulation resistance between live conductors and earth
- Protection by separation of circuits

- Protection against direct contact, by barrier or enclosure provided during erection
- Insulation of non-conducting floors or walls
- Polarity
- Earth fault loop impedance
- Verification of phase sequence
- Operation of residual current devices
- Functional testing of assemblies
- Verification of voltage drop

SCHEDULE OF ADDITIONAL RECORDS (See attached schedule)

Page No(s)

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

DISTRIBUTION BOARD DETAILS				
Location		Supplied from		Phases <input type="text"/> Voltage <input type="text"/> V
DB No.		Overcurrent protective device at supply to this Distribution Board		Associated RCD <input type="text"/>
		Type BS(EN)	Rating (A)	RCD No poles <input type="text"/> I _n <input type="text"/> mA

CIRCUIT DETAILS												
Circuit number and phase	Circuit Designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit Conductors			Overcurrent Protective Devices			RCD	
					Live	cpc	Maximum permitted disconnection time (s)	BS(EN) & Type No.		Short circuit capacity (kA)	Rated residual operating current (In) (mA)	Maximum permitted Zs (Ω)
					(mm ²)	(mm ²)		Type No.	Rating (A)			

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

CODES FOR TYPE 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	N/A

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

SOURCE DETAILS	TEST INSTRUMENTS																						
<p>Only required if not connected directly to the origin of the installation</p> <p><input type="checkbox"/> Confirmation of supply polarity</p> <p>Zs <input style="width: 60px;" type="text"/></p> <p>I_{pf} <input style="width: 60px;" type="text"/></p> <p style="text-align: center;">Operating times of associated RCD</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">At 1xIn</td> <td style="width: 60px; height: 20px;"><input type="text"/></td> </tr> <tr> <td style="padding: 2px;">At 5 In</td> <td style="width: 60px; height: 20px;"><input type="text"/></td> </tr> </table>	At 1xIn	<input type="text"/>	At 5 In	<input type="text"/>	<table style="width: 100%;"> <tr> <td style="width: 40%;">(Serial numbers) Earth loop impedance</td> <td style="width: 20%; text-align: center;">-</td> <td style="width: 20%; text-align: center;"><input style="width: 80px;" type="text"/></td> <td style="width: 20%;">RCD</td> <td style="width: 20%; text-align: center;">-</td> <td style="width: 20%; text-align: center;"><input style="width: 80px;" type="text"/></td> </tr> <tr> <td>Insulation resistance</td> <td style="text-align: center;">-</td> <td style="text-align: center;"><input style="width: 80px;" type="text"/></td> <td>Other</td> <td style="text-align: center;">-</td> <td style="text-align: center;"><input style="width: 80px;" type="text"/></td> </tr> <tr> <td>Continuity</td> <td style="text-align: center;">-</td> <td style="text-align: center;"><input style="width: 80px;" type="text"/></td> <td>Other</td> <td style="text-align: center;">-</td> <td style="text-align: center;"><input style="width: 80px;" type="text"/></td> </tr> </table>	(Serial numbers) Earth loop impedance	-	<input style="width: 80px;" type="text"/>	RCD	-	<input style="width: 80px;" type="text"/>	Insulation resistance	-	<input style="width: 80px;" type="text"/>	Other	-	<input style="width: 80px;" type="text"/>	Continuity	-	<input style="width: 80px;" type="text"/>	Other	-	<input style="width: 80px;" type="text"/>
At 1xIn	<input type="text"/>																						
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Continuity	-	<input style="width: 80px;" type="text"/>	Other	-	<input style="width: 80px;" type="text"/>																		

TEST RESULTS													
Circuit number and phase	Circuit impedances					Insulation resistance <small>Record lower or lowest values</small>				Polarity	Max measured Earth loop impedance (Zs)	RCD operating times	
	Ring final circuits only (Ω)			All circuits (Ω)		Phase/ Phase (MΩ)	Phase/ Neutral (MΩ)	Phase/ Earth (MΩ)	Neutral/ Earth (MΩ)			at 1xIn	at 5xIn
	r ₁	r _n	r ₂	R ₁ +R ₂ *	R ₂ *					(-)		(ms)	(ms)

This form is based on the recommendations of Appendix 6 of BS 7671: 2008 * Complete column 5 or 6

TESTED BY	
Signature _____	Position <input style="width: 80px;" type="text" value="Electrician"/>
Name <input style="width: 80px;" type="text" value="David Monks"/>	Date <input style="width: 80px;" type="text" value="31/10/2008"/>

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

DISTRIBUTION BOARD DETAILS					
Location	<input style="width: 90%;" type="text"/>	Supplied from	<input style="width: 90%;" type="text"/>	Phases	<input style="width: 80%;" type="text"/> Voltage <input style="width: 10%;" type="text"/> V
DB No.	<input style="width: 90%;" type="text"/>	Overcurrent protective device at supply to this Distribution Board		Associated RCD	<input style="width: 90%;" type="text"/>
		Type BS(EN)	<input style="width: 90%;" type="text"/>	Rating (A)	<input style="width: 80%;" type="text"/> RCD No poles <input style="width: 10%;" type="text"/> I _n <input style="width: 10%;" type="text"/> mA

CIRCUIT DETAILS													
Circuit number and phase	Circuit Designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit Conductors			Overcurrent Protective Devices				RCD	
					Live (mm ²)	cpc (mm ²)	Maximum permitted disconnection time (s)	BS(EN) & Type No.			Rated residual operating current (In) (mA)	Maximum permitted Zs (Ω)	
								Type No.	Rating (A)	Short circuit capacity (kA)			

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

CODES FOR TYPE 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	<input style="width: 90%;" type="text"/>

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

SOURCE DETAILS	TEST INSTRUMENTS
Only required if not connected directly to the origin of the installation	(Serial numbers)
<input type="checkbox"/> Confirmation of supply polarity	Earth loop impedance RCD -
Zs 	Insulation resistance Other -
Operating times of associated RCD	Continuity Other -
At 1xIn 	
At 5 In 	

TEST RESULTS													
Circuit number and phase	Circuit impedances					Insulation resistance <small>Record lower or lowest values</small>				Polarity	Max measured Earth loop Impedance (Zs)	RCD operating times	
	Ring final circuits only (Ω)			All circuits (Ω)		Phase/Phase (MΩ)	Phase/Neutral (MΩ)	Phase/Earth (MΩ)	Neutral/Earth (MΩ)			at 1xIn	at 5xIn
	r ₁	r _n	r ₂	R ₁ +R ₂ *	R ₂ *					(✓)	(Ω)	(ms)	(ms)

This form is based on the recommendations of Appendix 6 of BS 7671: 2008 * Complete column 5 or 6

TESTED BY	
Signature _____	Position
Name 	Date

ELECTRICAL INSTALLATION CERTIFICATE

GUIDANCE FOR RECIPIENTS (to be appended to the Certificate)

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 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.