

ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with British Standard 7671 – Requirements for Electrical Installations by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX

Block of flats (15-19) on flats

Original (To the person ordering the work)

DETAILS OF THE CLIENT			
Client / Address:		WINDSOR ROAD RESIDENTS ASSOCIATION	
DETAILS OF THE INSTALLATION			The installation is:
Address:		Block of flats Nos 15-19. BROUGHTON GRANGE, WINDSOR RD, SWINDON	New <input checked="" type="checkbox"/>
Extent of the installation covered by this certificate:		Install 4 way Distribution Board to supply double socket in entrance to flats	An addition <input type="checkbox"/> An alteration <input type="checkbox"/>
DESIGN			
I/We, being the person(s) responsible for the design 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, 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 amended to 2011 (date) except for the departures, if any, detailed as follows:			
Details of departures from BS 7671, 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: **(Where there is divided responsibility for the design)			
Signature	Date	Name (CAPITALS)	Designer 1
<i>[Signature]</i>	8/8/11	M. S. ALEXANDER	
Signature	Date	Name (CAPITALS)	** Designer 2
CONSTRUCTION			
I/We, being the person(s) responsible for the construction 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 construction, hereby CERTIFY that the construction 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 (date) except for the the departures, if any, detailed as follows:			
Details of departures from BS 7671, 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 CONSTRUCTION of the installation:			
Signature	Date	Name (CAPITALS)	Constructor
INSPECTION AND 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, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the 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 (date) except for the departures, if any, detailed as follows:			
Details of departures from BS 7671, 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 INSPECTION AND TESTING of the installation:			
Signature	Date	Signature	Date
Name (CAPITALS)	Inspector	Name (CAPITALS)	Qualified Supervisor †
DESIGN, CONSTRUCTION, INSPECTION AND TESTING *			
* This box to be completed only where the design, construction, inspection and testing have been the responsibility of one person.			
I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my 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 have been responsible is to the best of my knowledge and belief in accordance with BS 7671, amended to 2011. (date) except for the departures, if any, detailed as follows:			
Details of departures from BS 7671, 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 AND TESTING of the installation.			
Signature	Date	Signature	Date
<i>[Signature]</i>	8/8/11	<i>[Signature]</i>	8/8/11
Name (CAPITALS)		Name (CAPITALS)	Qualified Supervisor ††
M. S. ALEXANDER		M. S. ALEXANDER	

† Where the inspection and testing have been carried out by an Approved Contractor, the inspection and testing results are to be reviewed by the registered Qualified Supervisor.
 †† Where the design, the construction, and the inspection and testing have been the responsibility of one person, the inspection and testing results are to be reviewed by the registered Qualified Supervisor.

PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION			
DESIGN (1)	Organisation †		
Address:		NICEIC Enrolment No (where appropriate)	
	Postcode	Branch number: (if applicable)	
DESIGN (2)	Organisation †		
Address:		NICEIC Enrolment No (where appropriate)	
	Postcode	Branch number: (if applicable)	
CONSTRUCTION	Organisation <i>Alexander Electrical Services</i>		
Address:	<i>1 Fulmeath Grove Swindon SN31ET</i>	NICEIC Enrolment No (Essential information) <i>027139</i>	
	Postcode	Branch number: (if applicable)	
INSPECTION AND TESTING	Organisation †		
Address:		NICEIC Enrolment No (where appropriate)	
	Postcode	Branch number: (if applicable)	

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS				<i>Tick boxes and enter details, as appropriate</i>	
System Type(s)	Number and Type of Live Conductors	Nature of Supply Parameters		Characteristics of Primary Supply Overcurrent Protective Device(s)	
TN-S	a.c. <input checked="" type="checkbox"/> d.c.	Nominal voltage(s): $U_n^{(1)}$ V	$U_0^{(1)}$ <i>230</i> V		
TN-C-S <input checked="" type="checkbox"/>	1-phase (2 wire) <input checked="" type="checkbox"/> 1-phase (3 wire)	Nominal frequency, $f^{(1)}$ Hz	<i>50</i> Hz	BS(EN) <i>1361</i>	
TN-C	2-phase (3 wire)	Prospective fault current, $I_{pf}^{(2/3)}$ kA	<i>1.2</i> kA	Type <i>110</i>	
TT	3-phase (3 wire)	External earth fault loop impedance, $Z_e^{(2/3)}$ Ω	<i>0.21</i> Ω	Rated current <i>100</i> A	
IT	Other <small>Please state</small>	Number of supplies	<i>1</i>	Short-circuit capacity <i>33</i> kA	

PARTICULARS OF INSTALLATION AT THE ORIGIN				<i>Tick boxes and enter details, as appropriate</i>	
Means of Earthing		Details of Installation Earth Electrode (where applicable)			
Distributor's facility: <input checked="" type="checkbox"/>	Type: (eg rod(s), tape etc)	Location:			
Installation earth electrode: <input checked="" type="checkbox"/>	Electrode resistance, R_A : <i>/</i> (Ω)	Method of measurement: <i>/</i>			
Main Switch or Circuit-Breaker		Maximum Demand (Load): <i>3</i> kVA / Amps	Protective measures against electric shock: <i>ADS</i>		
<small>* (Applicable only where an RCD is suitable and is used as a main circuit-breaker)</small>					
Type: BS(EN) <i>61008</i>	Voltage rating <i>230</i> V	Earthing conductor		Earthing and Protective Bonding Conductors	
No of Poles <i>2</i>	Rated current, I_n <i>100</i> A	Conductor material <i>Cu</i>	Main protective bonding conductors		Bonding of extraneous-conductive-parts (✓)
Supply conductors: material <i>Cu</i>	RCD operating current, $I_{\Delta n}$ * <i>30</i> mA	Conductor csa <i>16</i> mm ²	Conductor material <i>N/A</i>	Water service	Gas service
Supply conductors: csa <i>25</i> mm ²	RCD operating time (at $I_{\Delta n}$)* <i>38</i> ms	Continuity check <input checked="" type="checkbox"/> (✓)	Conductor csa	Oil service	Structural steel
			Continuity check (✓)	Lightning protection	Other incoming service(s)

COMMENTS ON EXISTING INSTALLATION	
In the case of an alteration or additions see Section 633	<i>N/A.</i>
<small>Note: Enter 'NONE' or, where appropriate, the page number(s) of additional page(s) of comments on the existing installation.</small>	

NEXT INSPECTION	<small>§ Enter interval in terms of years, months or weeks, as appropriate</small>
I/We, the designer(s), RECOMMEND that this installation is further inspected and tested after an interval of not more than	<i>5 YEARS</i>

† Where the Approved Contractor responsible for the construction of the electrical installation has also been responsible for the design and the inspection and testing of that installation, the 'Particulars of the Organisation responsible for the Electrical Installation' may be recorded only in the section entitled 'CONSTRUCTION'.

‡ Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, a separate sheet must be provided which identifies the relevant information relating to each additional source.

SCHEDULE OF ITEMS INSPECTED † See note below

PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK

Basic and fault protection

Extra low voltage
 NT SELV NA PELV

Double or reinforced insulation
 NA Double or Reinforced Insulation

Basic protection

✓ Insulation of live parts ✓ Barriers or enclosures

NT Obstacles ** NA Placing out of reach **

Fault protection

Automatic disconnection of supply

✓ Presence of earthing conductor

✓ Presence of circuit protective conductors

✓ Presence of main protective bonding conductors

NA Presence of earthing arrangements for combined protective and functional purposes

NA Presence of adequate arrangements for alternative source(s), where applicable

NA FELV

✓ Choice and setting of protective and monitoring devices (for fault protection and/or overcurrent protection)

Non-conducting location **

NA Absence of protective conductors

Earth-free equipotential bonding **

NA Presence of earth-free equipotential bonding

Electrical separation

NA For one item of current using equipment

NA For more than one item of current using equipment **

Additional protection

✓ Presence of residual current device(s)

NA Presence of supplementary bonding conductors

** For use in controlled supervised/conditions only

Prevention of mutual detrimental influence

✓ Proximity of non-electrical services and other influences

NA Segregation of Band I and Band II circuits or Band II insulation used

NA Segregation of Safety Circuits

Identification

✓ Presence of diagrams, instructions, circuit charts and similar information

✓ Presence of danger notices and other warning notices

✓ Labelling of protective devices, switches and terminals

✓ Identification of conductors

Cables and Conductors

✓ Selection of conductors for current carrying capacity and voltage drop

NA Erection methods

NA Routing of cables in prescribed zones

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

NA Additional protection by 30mA RCD for cables concealed in walls (where required, in premises not under the supervision of skilled or instructed persons)

✓ Connection of conductors

NA 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

NA Particular protective measures for special installations and locations

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

✓ Correct connection of accessories and equipment

NA 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 † See note below

✓ External earth fault loop impedance, Z_b

NA Installation earth electrode resistance, R_A

✓ Continuity of protective conductors

NA Continuity of ring final circuit conductors

✓ Insulation resistance between live conductors

✓ Insulation resistance between live conductors and Earth

NA Protection by separation of circuits

NA Basic protection by barrier or enclosure provided during erection

NA Insulation of non-conducting floors or walls

✓ Polarity

✓ Earth fault loop impedance, Z_s

NA Verification of phase sequence

✓ Operation of residual current devices

✓ Functional testing of assemblies

✓ Verification of voltage drop

SCHEDULE OF ADDITIONAL RECORDS* (See attached schedule)

Note: Additional page(s) must be identified by the Electrical Installation Certificate serial number and page number(s). Page No(s)

† All boxes must be completed. '✓' indicates that an inspection or a 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.

* 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).

