

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 (5-8)
OF
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:		BROUGHTON GRANGE, WINDSOR RD, SWINDON	New <input checked="" type="checkbox"/>
Extent of the installation covered by this certificate:		Install 4 way distributor 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>M. S. Alexander</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>M. S. Alexander</i>	8/8/11	<i>M. S. Alexander</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>Alexandre Electrical Services</i>		
Address:	<i>1 Falmouth Grove</i>	NICEIC Enrolment No (Essential information)	<i>0 27 13 9</i>
	<i>Swindon</i>	Branch number: (if applicable)	<i>—</i>
	Postcode <i>SN3 1EJ</i>		
INSPECTION AND TESTING	Organisation †		
Address:		NICEIC Enrolment No (where appropriate)	
	Postcode	Branch number: (if applicable)	

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS				Tick boxes and enter details, as appropriate	
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):	V U_0 <i>230</i> V	BS(EN) <i>1361</i>	
TN-C-S <input checked="" type="checkbox"/>	1-phase (2 wire) <input checked="" type="checkbox"/> 1-phase (3 wire)	Nominal frequency, f ⁽¹⁾	<i>50</i> Hz	Type <i>11B</i>	
TN-C	2-phase (3 wire)	Prospective fault current, I_{pf} ⁽²⁾⁽³⁾	<i>1.37</i> kA	Rated current <i>100</i> A	
TT	3-phase (3 wire) 3-phase (4 wire)	External earth fault loop impedance, Z_0 ⁽²⁾⁽³⁾	<i>0.21</i> Ω	Short-circuit capacity <i>33</i> kA	
IT	Other <small>Please state</small>	Number of supplies	<i>1</i>		

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 checked="" type="checkbox"/>	Type: (eg rod(s), tape etc) <input checked="" type="checkbox"/>	Location: <input checked="" type="checkbox"/>		Method of measurement: <input checked="" type="checkbox"/>	
Installation earth electrode:	Electrode resistance, R_A : <i>(/)</i> (Ω)				
Main Switch or Circuit-Breaker	Maximum Demand (Load): <i>3</i>	kVA / Amps	Protective measures against electric shock: <i>ADS</i>		
* Applicable only where an RCD is suitable and is used as a main circuit-breaker					
Type: BS(EN) <i>61008</i>	Voltage rating <i>230</i> V	Earthing and Protective Bonding Conductors			
No of Poles <i>2</i>	Rated current, I_n <i>100</i> A	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 material <i>Cu</i>	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>39</i> ms	Conductor csa <i>16</i> mm ²	Conductor csa	Oil service	Structural steel
		Continuity check <input checked="" type="checkbox"/> (✓)	Continuity check (✓)	Lightning protection	Other incoming service(s)

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

NEXT INSPECTION	§ Enter interval in terms of years, months or weeks, as appropriate
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>

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

Original (To the person ordering the work)

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: ENTRANCE HALL	Supply to distribution board is from:	No of phases:	Nominal voltage:	V
Distribution board designation: NONE	Overcurrent protective device for the distribution circuit:	Associated RCD (if any): BS(EN)		
	Type: BS(EN)	Rating: A	RCD No of poles:	I _{Δn} mA

CIRCUIT DETAILS													
Circuit number and phase	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)		Short-circuit capacity (kA)	Operating current, I _{Δn} (mA)	Maximum Z _s permitted by BS 7671 (Ω)	
								Type No	Rating (A)				
1	double switch	A	B	1	2.5	1.5	0.4	60898	B	20	6	30	18.4
2	-												
3	-												
4	-												

* See Table 4A2 of Appendix 4 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	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p>Characteristics at this distribution board</p> <p style="text-align: center;">Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s Ω Operating times At $I_{\Delta n}$ ms</p> <p>I_{pf} kA RCD (if any) At $5I_{\Delta n}$ (if applicable) ms</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <p>Earth fault loop impedance 3235465 RCD 4004580.</p> <p>Insulation resistance 3217709 Other</p> <p>Continuity 11 Other</p>
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Original (To the person ordering the work)

TEST RESULTS													
Circuit number and phase	Circuit impedances (Ω)					Insulation resistance <small>† Record lower or lowest value</small>				Polarity (\checkmark)	Maximum measured earth fault loop impedance, Z_s <small>* See note below</small> (Ω)	RCD operating times	
	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			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			(ms)	(ms)
1				0.06		>200	>200	>200		\checkmark	0.27	39	14.
2													
3													
4													

* Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.

TESTED BY

Signature:
 Name: **M.S. ALEXOPOULOS**
 (CAPITALS)

Position: **Principal**
 Date of testing: **2 AUG 2011**