NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered DCR6/ 0110512

This safety certificate is an important and valuable document which should be retained for future reference

DOMESTIC 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

Original (To the person ordering the work)

DETAILS OF THE CLIENT

Client and address: Linden Homes

Postcode

ADDRESS OF THE INSTALLATION

Installation address: Plot J25 Turner Rd, Colchester, Essex.

Postcode CO4 5JL.

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate: Complete to BS 7671

The installation is: New ✓ / An addition / An alteration

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 adjacent), 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/our knowledge and belief, in accordance with BS 7671, 2008 amended to 2013 (date) except for the departures, if any, detailed as follows:

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

None

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 | Name (CAPITALS) D Willis | Date 23/02/15

The results of the inspection and testing reviewed by the Qualified Supervisor

Signature | Name (CAPITALS) J Chambers | Date 23/02/15

PARTICULARS OF THE APPROVED CONTRACTOR

Trading title:

Address: Laser Electrical Services Ltd, 11 Springfield Lyons Approach, Chelmsford, Essex

Telephone No

Postcode CM2 5LB

NICEIC Enrolment No (Essential information) 0 2 9 4 6 2

Branch No (if applicable) 0 0 0

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 §Ten years

COMMENTS ON EXISTING INSTALLATION

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

None

In the case of an alteration or additions see Section 633 of BS 7671

SCHEDULE OF ADDITIONAL RECORDS*

See attached schedule

n/a

* *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)*

This certificate is based on the model form shown in Appendix 6 of BS 7671.

Please see the 'Notes for Recipients' on the reverse of this page.

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SUPPLY CHARACTERISTICS

Tick boxes and enter details, as appropriate

System type(s)

TN-S	
TN-C-S	✓
TT	

Number and type of live conductors

1-phase (2-wire)	✓	1-phase (3-wire)	
3-phase (3-wire)		3-phase (4-wire)	
Other	Please state		

Nature of supply parameters *Notes: (1) by enquiry (2) by enquiry or by measurement (3) where more than one supply, record the higher or highest values*

Number of sources	1	Nominal voltage(s) $U^{(1)}$	400 V	Nominal frequency, $f^{(1)}$	50 Hz
		$U_o^{(1)}$	230 V	External earth fault loop impedance, $Z_e^{(1)}$	0.35 Ω
Single-phase	Prospective fault current, $I_{pf}^{(2)(3)}$	1.16 kA	**3-phase**	Prospective fault current, $I_{pf}^{(2)(3)}$	n/a kA

Characteristics of primary supply overcurrent protective device(s)

BS(EN)	1361 HBC (S7)	Short-circuit capacity	33 kA
Type	II	Confirmation of polarity	✓ ✓
Rated current	100 A		

PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of earthing

Distributor's facility	✓
Installation earth electrode	n/a

Details of installation earth electrode (where applicable)

Type (eg rod(s), tape etc)	n/a	Location	n/a
Electrode resistance, R_A	n/a Ω	Method of measurement	n/a

Protective measures for fault protection	ADS	Measured Z_e	0.21 Ω
		Maximum demand (Load)	60 kVA/ Amps
		Delete as appropriate	
		Number of smoke alarms	5 ‡

Earthing conductor

Conductor material	CU		Continuity/ connection verified	✓	✓
Conductor csa	16.0 mm²	Continuity/ connection verified	✓	✓	

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

Conductor material	CU	Conductor csa	10.0 mm²	Water service	n/a	Oil service	n/a	Gas service	✓
Location (where not obvious)	n/a					Structural steel	n/a	Other incoming service(s)	n/a

Main switch or circuit-breaker

Type BS(EN)	60947.3	Voltage rating	240 V
No of poles	2	Rated current, I_n	100 A
Supply conductors material	CU	RCD operating current, $I_{\Delta n}$*	n/a mA
Supply conductors csa	25.0 mm²	RCD operating time (at $I_{\Delta n}$)*	n/a ms

** applicable only where an RCD is used as a main circuit-breaker*

SCHEDULE OF ITEMS INSPECTED

† *See note below*

Protective measures against electric shock

Basic and fault protection

Extra-low voltage

✓ SELV

Double or reinforced insulation

✓ Double or reinforced insulation

Basic protection

✓ Insulation of live parts

✓ Barriers or enclosures

Fault protection

Automatic disconnection of supply

✓ Presence of earthing conductor

✓ Presence of circuit protective conductors

✓ Presence of main protective bonding conductors

n/a Presence of adequate arrangements for other source(s), where applicable

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

Electrical separation

✓ For **one** item of current-using equipment

Additional protection

✓ Presence of residual current device(s)

n/a Presence of supplementary bonding conductors

Prevention of mutual detrimental influence

✓ Proximity of non-electrical services and other influences

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

n/a 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 conductors for current-carrying capacity and voltage drop

✓ Erection methods

Cables and conductors *(cont)*

✓ Routing of cables in prescribed zones

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

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

✓ 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

✓ 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

SCHEDULE OF ITEMS TESTED

✓ External earth fault loop impedance, Z_e

n/a 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

† *See note below*

† ***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 a smoke alarm has been installed, separate certification is required on the appropriate form.*

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CIRCUIT DETAILS / TEST RESULTS

Circuit number	Circuit designation * To be completed only where this consumer unit is remote from the origin of the installation. Record details of the circuit supplying this consumer unit in the bold box.	Type of wiring (see code)	Reference method (see Appendix 4 of BS 7671)	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity	RCD Operating current $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)	Circuit impedances (Ω) Ring final circuits only (measured end to end) r_1 (Line)	r_n (Neutral)	r_2 (cpc)	All circuits (At least one column to be completed) $(R_1 + R_2)$	R_2	Insulation resistance Line/Line (MΩ)	Line/Neutral (MΩ)	Line/Earth (MΩ)	Neutral/Earth (MΩ)	Polarity (✓)	Maximum measured earth fault loop impedance, Z_s (Ω)	RCD operating times at $I_{\Delta n}$ (ms)	RCD operating times at 5 $I_{\Delta n}$ (if applicable) (ms)	RCD Test button operation (✓)
*	DB/1	F	C	1	25.0	25.0	5.0	1361		100		n/a		n/a	n/a	n/a	0.01	n/a	n/a	>200	>200	>200	✓	0.22	n/a	n/a	
1																											
1-2	RCD Module	n/a	n/a	n/a	n/a	n/a	n/a	61008		63	10	30	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	32.6	11.4	✓
3	Oven outlet	A	101	1	6.0	2.5	0.4	60898	B	32	6	30	1.44	n/a	n/a	n/a	0.1	n/a	n/a	>200	>200	>200	✓	0.31	32.6	11.4	
4	S/outlets/spurs (kitchen) / TV	A	101	11	2.5	1.5	0.4	60898	B	32	6	30	1.44	0.26	0.26	0.42	0.17	n/a	n/a	>200	>200	>200	✓	0.39	32.6	11.4	
5	I/Htr spur	A	101	1	2.5	1.5	0.4	60898	B	16	6	30	2.87	n/a	n/a	n/a	0.32	n/a	n/a	>200	>200	>200	✓	0.54	32.6	11.4	
6	Lights (kitchen/external)	A	101	8	1.0	1.0	0.4	60898	B	6	6	30	7.67	n/a	n/a	n/a	0.65	n/a	n/a	>200	>200	>200	✓	0.86	32.6	11.4	
7	Spare																										
8	Spare																										
9-10	RCD Module	n/a	n/a	n/a	n/a	n/a	n/a	61008		63	10	30	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	28.4	10.6	✓
11	Hob outlet	A	101	1	6.0	2.5	0.4	60898	B	32	6	30	1.44	n/a	n/a	n/a	0.1	n/a	n/a	>200	>200	>200	✓	0.32	28.4	10.6	
12	S/outlet/spurs (grd/1st fl)	A	101	10	2.5	1.5	0.4	60898	B	32	6	30	1.44	0.44	0.44	0.72	0.29	n/a	n/a	>200	>200	>200	✓	0.51	28.4	10.6	
13	S/outlet/spurs (1st/2nd fl)	A	101	14	2.5	1.5	0.4	60898	B	32	6	30	1.44	0.45	0.45	0.74	0.31	n/a	n/a	>200	>200	>200	✓	0.54	28.4	10.6	
14	Lights (grd/1st/2nd fl) / shav pt/fan	A	101	23	1.0	1.0	0.4	60898	B	10	6	30	4.6	n/a	n/a	n/a	1.12	n/a	n/a	>200	>200	>200	✓	1.31	28.4	10.6	
15	Smoke detectors	A	101	5	1.0	1.0	0.4	60898	B	6	6	30	7.67	n/a	n/a	n/a	0.89	n/a	n/a	>200	>200	>200	✓	1.08	28.4	10.6	
16-18	Spare																										

CODES FOR TYPE OF WIRING: A Thermoplastic insulated/sheathed cables; B Thermoplastic cables in metallic conduit; C Thermoplastic cables in non-metallic conduit; D Thermoplastic cables in metallic trunking; E Thermoplastic cables in non-metallic trunking; F Thermoplastic/SWA cables; G Thermosetting/SWA cables; H Mineral-insulated cables; O (Other - please state)

Location of consumer unit: Under stairs

Designation of consumer unit: DB / 1

Prospective fault current at consumer unit: 1.16 kA

TEST INSTRUMENTS

Test instruments (serial numbers) used

Multi-function: 8055757

Insulation resistance: 8055757

Continuity: 8055757

Earth electrode resistance: n/a

Earth fault loop impedance: 8055757

RCD: 8055757