

PERIODIC INSPECTION REPORT FOR AN ELECTRICAL INSTALLATION (note 1)
(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671 [IEE WIRING REGULATIONS])

DETAILS OF THE CLIENT

Client: Tony Galloper
Address: Plumtree Barn, Plumtree Road, Headcorn TN27 9PE

Purpose for which this Report is required: Client request (note 3)

DETAILS OF THE INSTALLATION Tick boxes as appropriate

Occupier: N/A

Installation: Electrical installation to garage conversion

Address: Plumtree Barn, Plumtree Road, Headcorn TN27 9PE

Description of Premises: Domestic Commercial Industrial Other

Estimated age of the Electrical Installation: 5 years

Evidence of Additions or Alterations: Yes No Not apparent

If "Yes", estimate age: N/A years

Date of last inspection: N/A Records available Yes No

EXTENT AND LIMITATIONS OF THE INSPECTION (note 5)

Extent of electrical installation covered by this report: Fixed wiring within dwelling.

Limitations: (see Regulation 634.2) Supply's main protective device not inspected, no access, 20% of all electrical accessories inspected internally.

This inspection has been carried out in accordance with BS 7671:2008 (IEE Wiring Regulations), amended to M/S. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground have not been inspected.


NEXT INSPECTION (note 8)

I/We recommend that this installation is further inspected and tested after an interval of not more than 10 years/months, provided that any observations 'requiring urgent attention' are attended to without delay.

DECLARATION

INSPECTED AND TESTED BY

Name: Drazen Dragic
For and on behalf of: Hamover Electrical Contractors
Address: 8 Wades Hill, London N21 1BG

Signature: 
Position: Electrician
Date: 15/01/2010

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS <small>Tick boxes and enter details, as appropriate</small>									
Earthing arrangements TN-C <input type="checkbox"/> TN-S <input type="checkbox"/> TN-C-S <input type="checkbox"/> TT <input checked="" type="checkbox"/> IT <input type="checkbox"/> Alternative source of supply (to be detailed on attached schedules) <input type="checkbox"/>	Number and Type of Live Conductors a.c. <input type="checkbox"/> d.c. <input checked="" type="checkbox"/> 1-phase, 2-wire <input checked="" type="checkbox"/> 2-pole <input type="checkbox"/> 1-phase, 3 wire <input type="checkbox"/> 3-pole <input type="checkbox"/> 2-phase, 3-wire <input type="checkbox"/> other <input type="checkbox"/> 3-phase, 3-wire <input type="checkbox"/> 3-phase, 4-wire <input type="checkbox"/>	Nature of Supply Parameters Nominal voltage, U/U ₀ ⁽¹⁾ <u>230</u> V Nominal frequency, f ⁽¹⁾ <u>50</u> Hz Prospective fault current, I _{pf} ⁽²⁾ <u>0.59</u> kA (note 4) External loop impedance, Z _e ⁽²⁾ <u>10.9</u> Ω <small>(Note: (1) by enquiry, (2) by enquiry or by measurement)</small>	Supply Protective Device Characteristics Type: <u>L191</u> Rated current: <u>L101</u> A						
PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT <small>Tick boxes and enter details, as appropriate</small>									
Means of Earthing Distributor's facility <input type="checkbox"/> Installation earth electrode <input checked="" type="checkbox"/>	Details of Installation Earth Electrode (where applicable) <table style="width:100%; border: none;"> <tr> <td style="width: 30%; border: none;">Type (e.g. rod(s), tape etc)</td> <td style="width: 40%; border: none;">Location</td> <td style="width: 30%; border: none;">Electrode resistance to Earth</td> </tr> <tr> <td style="border: none;"><u>Rod</u></td> <td style="border: none;"><u>Adj. to main house</u></td> <td style="border: none;"><u>10.9 Ω</u></td> </tr> </table>			Type (e.g. rod(s), tape etc)	Location	Electrode resistance to Earth	<u>Rod</u>	<u>Adj. to main house</u>	<u>10.9 Ω</u>
Type (e.g. rod(s), tape etc)	Location	Electrode resistance to Earth							
<u>Rod</u>	<u>Adj. to main house</u>	<u>10.9 Ω</u>							
Main Protective Conductors Earthing conductor: material <u>Copper</u> csa <u>25</u> mm ² connection verified <input checked="" type="checkbox"/> Main protective bonding conductors material <u>Copper</u> csa <u>10</u> mm ² connection verified <input checked="" type="checkbox"/> To incoming water service <input checked="" type="checkbox"/> To incoming gas service <input type="checkbox"/> To incoming oil service <input type="checkbox"/> To structural steel <input type="checkbox"/> To lightning protection <input type="checkbox"/> To other incoming service(s) <input type="checkbox"/> (state details.....)									
Main Switch or Circuit-breaker BS, Type <u>61008</u> No. of poles <u>2</u> Current rating <u>63</u> A Voltage rating <u>240</u> V Location <u>under stairs</u> Fuse rating or setting <u>4.18</u> A Rated residual operating current I _{Δn} = <u>30</u> mA, and operating time of <u>28</u> ms (at I _{Δn}) <small>(applicable only where an RCD is suitable and is used as a main circuit-breaker)</small>									
OBSERVATIONS AND RECOMMENDATIONS <small>Tick boxes as appropriate</small> (note 9) Referring to the attached Schedule(s) of Inspections and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection section <input checked="" type="checkbox"/> No remedial work is required <input type="checkbox"/> The following observations are made: <div style="border: 1px solid black; height: 150px; width: 100%; margin-top: 5px;"></div>			Recommendations as detailed below <u>note 6</u> <div style="border: 1px solid black; height: 150px; width: 100%; margin-top: 5px;"></div>						
One of the following numbers, as appropriate, is to be allocated to each of the observations made above to indicate to the person(s) responsible for the installation the action recommended. <input type="checkbox"/> 1 requires urgent attention <input type="checkbox"/> 2 requires improvement <input type="checkbox"/> 3 requires further investigation <input type="checkbox"/> 4 does not comply with BS 7671:2008 amended to This does not imply that the electrical installation inspected is unsafe.									
SUMMARY OF THE INSPECTION (note 7) Date(s) of the inspection: <u>15/01/2010</u> General condition of the installation: <u>Fairly new installation in very good working condition</u> <u>No items found adversely affecting the installation</u> <u>in terms of electrical safety.</u>									
Overall assessment: Satisfactory/Unsatisfactory (note 8)									
SCHEDULE(S) The attached Schedules are part of this document and this Report is valid only when they are attached to it. <u>1</u> Schedules of Inspections and <u>1</u> Schedules of Test Results are attached. <small>(Enter quantities of schedules attached).</small>									

SCHEDULE OF INSPECTIONS

<u>Methods of protection against electric shock</u>	<u>Prevention of mutual detrimental influence</u>
Both basic and fault protection:	
<input checked="" type="checkbox"/> (i) SELV (Note 1)	<input checked="" type="checkbox"/> (a) Proximity of non-electrical services and other influences
<input checked="" type="checkbox"/> (ii) PELV	<input checked="" type="checkbox"/> (b) Segregation of Band I and Band II circuits or use of Band II insulation
<input checked="" type="checkbox"/> (iii) Double insulation (Note 2)	<input checked="" type="checkbox"/> (c) Segregation of safety circuits
<input checked="" type="checkbox"/> (iv) Reinforced insulation (Note 2)	
Basic protection: (Note 3)	
<input checked="" type="checkbox"/> (i) Insulation of live parts	Identification
<input checked="" type="checkbox"/> (ii) Barriers or enclosures	<input checked="" type="checkbox"/> (a) Presence of diagrams, instructions, circuit charts and similar information
<input checked="" type="checkbox"/> (iii) Obstacles (Note 4)	<input checked="" type="checkbox"/> (b) Presence of danger notices and other warning notices
<input checked="" type="checkbox"/> (iv) Placing out of reach (Note 5)	<input checked="" type="checkbox"/> (c) Labelling of protective devices, switches and terminals
	<input checked="" type="checkbox"/> (d) Identification of conductors
Fault protection:	
(i) Automatic disconnection of supply:	
<input checked="" type="checkbox"/> Presence of earthing conductor	<input checked="" type="checkbox"/> Selection of conductors for current-carrying capacity and voltage drop
<input checked="" type="checkbox"/> Presence of circuit protective conductors	<input checked="" type="checkbox"/> Erection methods
<input checked="" type="checkbox"/> Presence of protective bonding conductors	<input checked="" type="checkbox"/> Routing of cables in prescribed zones
<input checked="" type="checkbox"/> Presence of supplementary bonding conductors	<input checked="" type="checkbox"/> Cables incorporating earthed armour or sheath, or run within an earthed wiring system, or otherwise adequately protected against nails, screws and the like
<input checked="" type="checkbox"/> Presence of earthing arrangements for combined protective and functional purposes	<input checked="" type="checkbox"/> Additional protection provided by 30 mA RCD for cables in concealed walls (where required in premises not under the supervision of a skilled or instructed person)
<input checked="" type="checkbox"/> Presence of adequate arrangements for alternative source(s), where applicable	<input checked="" type="checkbox"/> Connection of conductors
<input checked="" type="checkbox"/> FELV	<input checked="" type="checkbox"/> Presence of fire barriers, suitable seals and protection against thermal effects
<input checked="" type="checkbox"/> Choice and setting of protective and monitoring devices (for fault and/or overcurrent protection)	
(ii) Non-conducting location: (Note 6)	
<input checked="" type="checkbox"/> Absence of protective conductors	General
(iii) Earth-free local equipotential bonding: (Note 6)	
<input checked="" type="checkbox"/> Presence of earth-free local equipotential bonding	<input checked="" type="checkbox"/> Presence and correct location of appropriate devices for isolation and switching
(iv) Electrical Separation: (Note 7)	
<input checked="" type="checkbox"/> Provided for one item of current-using equipment	<input checked="" type="checkbox"/> Adequacy of access to switchgear and other equipment
<input checked="" type="checkbox"/> Provided for more than one item of current-using equipment	<input checked="" type="checkbox"/> Particular protective measures for special installations and locations
Additional protection:	
<input checked="" type="checkbox"/> Presence of residual current devices(s)	<input checked="" type="checkbox"/> Connection of single-pole devices for protection or switching in line conductors only
<input checked="" type="checkbox"/> Presence of supplementary bonding conductors	<input checked="" type="checkbox"/> Correct connection of accessories and equipment
	<input checked="" type="checkbox"/> Presence of undervoltage protective devices
	<input checked="" type="checkbox"/> Selection of equipment and protective measures appropriate to external influences
	<input checked="" type="checkbox"/> Selection of appropriate functional switching devices
Inspected by <u>D. Drspiev</u>	Date <u>15/01/2010</u>

Notes:

- ✓ to indicate an inspection has been carried out and the result is satisfactory
- X to indicate an inspection has been carried out and the result is not satisfactory (applicable to a periodic inspection only)
- N/A to indicate the inspection is not applicable to a particular item
- LIM to indicate that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection being carried out (applicable to a periodic inspection only).

1. SELV – an extra-low voltage system which is electrically separated from Earth and from other systems in such a way that a single-fault cannot give rise to the risk of electric shock. The particular requirements of the Regulations must be checked (see Section 414)
2. Double or reinforced insulation. Not suitable for domestic or similar installations if it is the sole protective measure (see 412.1.3)
3. Basic protection – will include measurement of distances where appropriate
4. Obstacles – only adopted in special circumstances (see 417.2)
5. Placing out of reach – only adopted in special circumstances (see 417.3)
6. Non-conducting locations and Earth-free local equipotential bonding – these are not recognised for general application. May only be used where the installation is controlled/under the supervision of skilled or instructed persons (see Section 418)
7. Electrical separation – the particular requirements of the Regulations must be checked. If a single item of current-using equipment is supplied from a single source, see Section 413. If more than one item of current-using equipment is supplied from a single source then the installation must be controlled/under the supervision of skilled or instructed persons, see also Regulation 418.3.

SCHEDULE OF TEST RESULTS

Contractor: Devoover Electrical Contractors
 Test Date: 15/01/2010
 Signature: [Signature]
 Method of fault protection: (garage conversion)
 Equipment vulnerable to testing: Smoke detectors

Address/Location of distribution board:
Plumtree Barn
Plumtree Rd, Headcorn
TN27 9PE

*1 Type of Supply: TN-S/TN-C-S/TT
 *2 Ze at origin: 10.9 ohms
 *3 PFC: 0.59 kA
 Confirmation of supply polarity

Instruments
 loop impedance: 2082349
 continuity: 2082349
 insulation: 2082349
 RCD tester: 2082349

Description of Work: N/A

Circuit Description	Overcurrent Device		Wiring Conductors		Test Results									
	*4 Short-circuit capacity: <u>0</u> kA				Continuity			Insulation Resistance		Polarity	Earth Loop Impedance Zs	Functional Testing		Remarks
	type	Rating In A			live mm ²	cpc mm ²	(R1 + R2)* Ω	R2* Ω	Rin Ω			Live/Live MΩ	Live/Earth MΩ	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Lights down	B	6	1.5	1	0.63	N/A	N/A	7200	7200	✓	11.9	28/13	✓	
2 Lights up	B	6	1.5	1	0.58	N/A	N/A	7200	7200	✓	11.8	28/13	✓	
3 Kitchen Ring	B	32	2.5	1.5	0.25	N/A	✓	7200	7200	✓	11.5	28/13	✓	
4 General Ring	B	32	2.5	1.5	0.70	N/A	✓	7200	7200	✓	11.5	28/13	✓	
5 Spare	B	32												
6 Hob	B ²	32	6	2.5	0.14	N/A	N/A	7200	7200	✓	11.4	28/13	✓	
7 Spare	B	16												
8 Spare	B	6												

Deviations from Wiring Regulations and special notes:
N/A

**PERIODIC INSPECTION REPORT
GUIDANCE FOR RECIPIENTS (to be appended to the Report)**

This Periodic Inspection Report form is intended for reporting on the condition of an existing electrical installation.

You should have received an original Report and the contractor should have retained a duplicate. If you were the person ordering this Report, but not the owner of the installation, you should pass this Report, or a copy of it, immediately to the owner.

The original Report is to be retained in a safe place and be shown to any person inspecting or undertaking work on the electrical installation in the future. If you later vacate the property, this Report will provide the new owner with details of the condition of the electrical installation at the time the Report was issued.

The 'Extent and Limitations' box should fully identify the extent of the installation covered by this Report and any limitations on the inspection and tests. The contractor should have agreed these aspects with you and with any other interested parties (Licensing Authority, Insurance Company, Building Society etc) before the inspection was carried out.

The report should identify any departures from the safety requirements of the current Regulations and any defects, damage or deterioration that affect the safety of the installation for continued use. **For items classified as 'requires urgent attention', the safety of those using the installation may be at risk**, and it is recommended that a competent person undertakes the necessary remedial work without delay.

For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection is stated in the Report under 'Next Inspection.'

The Report is only valid if a Schedule of Inspections and a Schedule of Test Results are appended.