

ELECTRICAL INSTALLATION CERTIFICATE

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS – BS 7671 [IET WIRING REGULATIONS])

DETAILS OF THE CLIENT

B Steele, 86-88 High Street, Bidford-upon-Avon

Post code: B50 4AD

INSTALLATION ADDRESS

Flat 3, 70 High Street, Bidford-upon-Avon

Post code:

DESCRIPTION AND EXTENT OF THE INSTALLATION

Description of the installation:

Full wiring

Extent of the installation covered by this certificate:

Whole installation

New installation

☒

Addition to an existing installation

☐

Alteration to an existing installation

☐**FOR DESIGN, CONSTRUCTION, INSPECTION & TESTING**

I, being the person responsible for design, construction, inspection & testing (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 & 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 BS7671:2008 (amended to 2011), except for departures, if any, detailed as follows:

Details of departures from BS7671 (Regulations 120.3 and 133.5)

None

The extent of liability of the signatory is limited to the work described above as the subject of this certificate

Signature: *B Waine*

Date: 31/7/17

NAME: BEN WAINE

COMPANY: EVESHAM & VALE ELECTRICAL SERVICES LTD

ADDRESS: 22 ALBERT ROAD, EVESHAM, WORCESTERSHIRE, WR11 4JY

01386 47143

NEXT INSPECTIONI recommend that this installation is further tested and inspected after an interval of not more than 5 years/months.**SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS**

Earthing arrangements		Number and Type of Live Conductors		Nature of supply parameters		Supply protective device characteristics
TN-C	☐	a.c.	☒	d.c.	☐	Nominal voltage, U/U_s <u>230 V</u> Nominal frequency, f <u>50 Hz</u> Prospective fault current, I_p <u>1.84 kA</u> External loop impedance, Z_s <u>0.11 Ω</u>
TN-S	☐	1 phase, 2 wire	☒	2-wire	☐	
TN-C-S	☒	1 phase, 3 wire	☐	3-wire	☐	
TT	☐	2 phase, 3 wire	☐	other	☐	
IT	☐	3 phase, 3 wire	☐			
Other sources of supply (to be detailed on attached schedules)		3 phase, 4 wire				
		Confirmation of supply polarity:		☒		Type: <u>1361</u> Rated current: <u>80 A</u>

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of earthing		Maximum demand			
Distributors facility	☒	Maximum demand (load) 80 kVA/Amps			
Installation earth electrode	☐	Details of Installation Earth Electrode (where applicable)			
		Type	Location	Electrode resistance to Earth	
		n/a	n/a	n/a Ω	
Main Protective Conductors					
Earthing conductor:	material:	Copper	csa	16 mm ²	Continuity and connection verified ☒
Main protective bonding conductors	material:	Copper	csa	10 mm ²	Continuity and connection verified ☒
To incoming water and/or gas service	☒	To other elements:			
Main Switch Or Circuit-breaker					
BS, Type and No. of Poles	604947-3	Current rating:	100 A	Voltage rating	450 V
Location	CCU	Fuse rating or setting:	NA	A	
Rated residual operating current $I_{\Delta n}$		ma and operating time of		ms at $I_{\Delta n}$ (only applicable where an RCD is appropriate and used as a main circuit breaker)	
COMMENTS ON EXISTING INSTALLATION (in the case of an addition or alteration see Section 633)					
Satisfactory					
SCHEDULES					
The attached Schedules are part of this document and this Certificate is valid only when they are attached to it.					
1 Schedules of Inspection and		1 Schedules of Test Results are attached			

ELECTRICAL INSTALLATION CERTIFICATE
GUIDANCE FOR RECIPIENTS

This safety Certificate has been issued to confirm that the electrical installation work to which it refers has been designed, constructed, inspected & tested in accordance with the British Standard 7671 (the IET Wiring Regulations).

You should have received an "original" Certificate and the contractor should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the Schedules, to the owner.

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 regulations 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 addition or alteration to an existing installation. It should not have been issued for the inspection of an existing electrical installation. An "Electrical Installation Condition Report" should be issued for such an inspection.

SCHEDULE OF INSPECTIONS (for new installation work only)

ITEM NO	DESCRIPTION	OUTCOME
1.0	DISTRIBUTOR'S/SUPPLY INTAKE EQUIPMENT	
1.1	Condition of service cable	✓
1.2	Condition of service head	✓
1.3	Condition of distributor's earthing arrangement	✓
1.4	Condition of meter tails – distributor/consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of isolator (where present)	✓
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	NA
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	NA
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of earthing and protective bonding arrangements:	
	Installation earth electrode (where applicable) (542.1.2.3)	NA
	Earthing conductor and connections, including accessibility (542.3; 543.3.2)	✓
	Main protective bonding conductors and connections including accessibility (411.3.1.2; 543.3.2)	✓
	Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	✓
	RCD(s) provided for fault protection (411.4.9; 411.5.3)	✓
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:	
	Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓
	Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of additional protection methods:	
	RCD(s) not exceeding 30mA operating current (415.1; part 7), see item 8.14 of this schedule	✓
	Supplementary bonding (415.2; Part 7)	NA
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection	
	SELV system, including the source and associated circuits (Section 414)	NA
	PELV system, including the source and associated circuits (Section 414)	NA
	Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	NA
	Electrical separation for one item of equipment e.g. shave supply unit (Section 413)	NA
7.0	CONSUMER UNIT(S)/ DISTRIBUTION BOARDS(S):	
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓
7.2	Presence of linked main switch(es) (537.1.4; 537.1.5; 537.1.6)	✓
7.3	Isolators, for every circuit or group of circuits and all items of equipment (537.2)	✓
7.4	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201)	✓



ITEM NO	DESCRIPTION	OUTCOME
	CONSUMER UNIT(S)/DISTRIBUTION BOARD(S) continued	
7.5	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.11)	✓
7.6	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.7	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
7.8	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, 5, 6; 432; 433)	✓
7.9	Presence of appropriate circuit charts, warning and other notices:	
	Provision of circuit charts/schedules or equivalent forms of information (514.9)	NA
	Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	NA
	Periodic inspection and testing notice (514.12.1)	✓
	RCD quarterly test notice; where required (514.12.2)	✓
	Warning notice of non-standard (mixed) colours of conductors present (514.14)	✓
7.10	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓
8.0	CIRCUITS	
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	✓
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	✓
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion (Sections 521, 522)	✓
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	✓
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	✓
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201; .202; .204)	✓
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	✓
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.2)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓
8.14	Provision of additional protection by RCD not exceeding 30mA	
	Socket-outlets rated 20A or less, unless exempt (411.3.3)	✓
	Mobile equipment with a current rating not exceeding 32A for use outdoors (411.3.3)	NA
	Cables concealed in walls at a depth of less than 50mm (526.202; .203)	✓
	Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	NA
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
	Means of switching off for mechanical maintenance (537.3)	✓
	Emergency switches (537.4)	✓
	Functional switches, for control of parts of the installation and current-using equipment (537.5)	✓
	Firefighter's switches (537.6)	NA
9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	✓
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445; 552)	NA
9.3	Installed to minimise the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	✓
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	✓
10.0	LOCATIONS CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	30mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc	NA
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
11.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied)	NA

Inspected by:

NAME (capitals) BEN WAINE

Signature: *B. Waine*

Date: 31/7/17

