

Reference Number:

EIC002291



ELECTRICAL INSTALLATION CERTIFICATE

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS7671 (IET WIRING REGULATIONS))

Details of the Installation 1

Details of the Client:

*Peldon Rose (M&E) Ltd
Sterling House
42 Worples Rd
Wimbledon*

SW19 4EQ

Installation/Address:

*Boundary Row
2-6 Boundary Row,
London*

SE1 8HP

Extent of installation covered by this certificate:

New Installation

An addition

An alteration

Rectification of all remedials taken from EICR0001697

Design Declaration 2

I/We being the person(s) responsible for the design 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 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 BS7671:2018, amended to *2018* (date) except for the departures, if any, detailed as follows.

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

Details of departures, if any, from BS7671:

None

Details of permitted exceptions to 411.3.3 (Socket RCD Protection): Where applicable, a suitable risk assessment must be attached.

Risk Assessment attached: *N/A*

None

Signature:

Date:

20/08/2019

Name:

RICHARD FIELD

Designer 1

Signature:

Date:

Name:

Designer 2

Construction Declaration 3

I/We being the person(s) responsible for the construction 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 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 BS7671:2018, amended to *2018* (date) except for the departures, if any, detailed as follows.

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

Details of departures, if any, from BS7671:

None

Signature:

Date:

20/08/2019

Name:

RICHARD FIELD

Constructor

Inspection & Testing Declaration 4

I/We being the person(s) responsible for the inspection & 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 & 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 BS7671:2018, amended to *2018* (date) except for the departures, if any, detailed as follows.

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

Details of departures, if any, from BS7671:

Signature:

Date:

20/08/2019

Name:

RICHARD FIELD

Inspector

Results of the inspection and testing reviewed by:

Signature:

Date:

27/08/2019

Name:

JAY ELVY

Qualified Supervisor

Next Inspection 5

I/We the designer(s), recommend that this installation is further inspected and tested after an interval of not more than

5 years

Reference Number:

EIC002291



Particulars of Signatories

6

Designer 1

Name: *Voltamp Ltd*
 CPS Provider*: *NICEIC*
 CPS Registration No*: *029148*

Company/Address including postcode:
Voltamp House
108 Mackenzie Road
Beckenham
Kent *BR3 4SD*

Designer 2 (if applicable)

Name:
 CPS Provider*:
 CPS Registration No*:

Company/Address including postcode:

Constructor

Name: *Voltamp Ltd*
 CPS Provider*: *NICEIC*
 CPS Registration No*: *029148*

Company/Address including postcode:
Voltamp House
108 Mackenzie Road
Beckenham
Kent *BR3 4SD*

Inspector

Name: *Voltamp Ltd*
 CPS Provider*: *NICEIC*
 CPS Registration No*: *029148*

Company/Address including postcode:
Voltamp House
108 Mackenzie Road
Beckenham
Kent *BR3 4SD*

* Enter the name of the competent person scheme (CPS) provider and the companies registration number where available.

Supply Characteristics & Earthing Arrangements

7

System Earthing Arrangement: *TN-S*
 Other Sources of Supply (to be detailed on attached schedules): *N/A*
 Supply Polarity:

No. & Type of Live Conductors: *a.c. 3 phase - 4 wire*
 Nominal Voltage⁽¹⁾: U_0 *230* V U *400* V
 Nominal Frequency, $f^{(1)}$: *50* Hz
 External Loop Impedance, $Z_e^{(2)}$: *LIM* Ω ^{(1) By Enquiry}
 Prospective Fault Current, $I_{pf}^{(2)}$: *LIM* kA ^{(2) By Enquiry or by measurement}

Supply Protective Device

BS(EN): *LIM* Type: *LIM*
 Rating: *LIM* A Breaking capacity: *LIM* kA

Particulars of the Installation

8

Maximum Demand (Load): *LIM* A Fault Protection: *ADS*

Main Switch or Circuit-breaker

Means of Earthing

Distributors Facility:
 Installation Earth Electrode:

Electrode Details (if applicable)

Type: *NONE*
 Location: *-*
 Resistance to Earth: *-* Ω

Location: *Intake Room*
 BS(EN): *LIM* Voltage Rating: *LIM* V
 Type: *LIM* RCD Operating current: *NA* mA
 Current Rating: *LIM* A RCD Rated time delay: *NA* ms
 No. of poles: *LIM* RCD Operating time at $I_{\Delta n}$: *NA* ms

Main Protective Conductors

Earthing Conductor:
 Material: *Copper* Csa: *2x50* mm² Continuity & Connection:
 Main Protective Bonding Conductor:
 Material: *Copper* Csa: *35* mm² Continuity & Connection:

Other Bonded Services:
 Water: Oil: *N/A*
 Gas: Steel: *NV*
 Other: *NA*

Comments on existing installation (In the case of an addition or alteration see Section 633)

None

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Inspection Schedule (1)**1 - EXTERNAL CONDITION OF INTAKE EQUIPMENT**

- (Visual inspection only)
- Service cable
 - service head
 - Earthing arrangement
 - Meter tails
 - Metering equipment
 - Isolator (where present)

2 - PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY

Adequate arrangements where a generating set operates as a switched alternative to the public supply

- Dedicated earthing arrangement independent of public supply

Adequate arrangements where a generating set operates in parallel with the public supply

- Correct connection of generator in parallel
- Compatibility of characteristics of means of generation
- Means of automatic disconnection in the event of loss of public supply or voltage/frequency deviation beyond declared values
- Means to prevent connection in the event of loss of public supply or voltage/frequency deviation beyond declared values
- Means to isolate generator from the public supply system

3 - AUTOMATIC DISCONNECTION OF SUPPLY

- Protective earthing/bonding arrangements

Presence and adequacy of:

- Distributor's earthing or installation earth electrode arrangement
- Earthing conductor and connections, including accessibility
- Main protective bonding conductors and connections, including accessibility
- Provision of safety electrical earthing / bonding labels at all appropriate locations

FELV - Requirements satisfied

4 - OTHER METHODS OF PROTECTION**BASIC AND FAULT PROTECTION**

- SELV system, including the source and associated circuits
- PELV system, including the source and associated circuits
- Double insulation
- Reinforced insulation

BASIC PROTECTION:

- Insulation of live parts
- Barriers or enclosures
- Obstacles
- Placing out of reach

FAULT PROTECTION:

- Non-conducting location
- Earth-free local equipotential bonding
- Electrical separation

ADDITIONAL PROTECTION

- RCD(s) not exceeding 30mA operating current
- Supplementary bonding

5 - DISTRIBUTION EQUIPMENT

- Security of fixing
- Insulation of live parts not damaged during erection
- Adequacy/security of barriers
- Suitability of enclosures for IP and fire ratings
- Enclosures not damaged during installation
- Presence and effectiveness of obstacles
- Presence of main switch(es), linked where required
- Operation of main switch(es), functional check
- Manual operation of circuit-breakers and RCD's to prove functionality
- RCD test button operation confirmed
- RCD(s) provided for fault protection, where specified
- RCD(s) provided for additional protection, where specified
- Overvoltage protection (SPD's) provided where specified
- SPD's confirmed functional
- Presence of RCD six-monthly test notice at or near origin
- Presence of AFDD six-monthly test notice, where required
- Presence of diagrams, charts or schedules at or near each distribution board, where required
- Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required

: Inspection has been carried out with satisfactory result. N/A : Inspection is not applicable to this item.

Reference Number:*EIC002291***Inspection Schedule (2)****5 - DISTRIBUTION EQUIPMENT (continued)****Presence of alternative supply warning notice at or near:**

- The origin
- The meter position, if remote from the origin
- The distribution board to which the alternative/additional sources are connected
- All points of isolation of ALL sources of supply

 Presence of next inspection recommendation label Presence of other required labelling Selection of protective device(s) and base(s): type and rating Single pole protective devices in line conductors only Protection against mechanical damage where cables enter equipment Protection against electromagnetic effects where cables enter ferromagnetic enclosures Confirmation that ALL conductor connections, including to busbars, are correctly located in terminals and are tight and secure**Provision of additional protection by RCD not exceeding 30mA:**

- Socket outlets rated at 32A or less, unless exempt
- N/A* • Mobile equipment not exceeding 32A for use outdoors
- Cables concealed in walls at a depth of less than 50mm
- Cables concealed in walls/partitions containing metal parts regardless of depth

N/A • Circuits supplying luminaires within domestic premises**Termination of cables at enclosures:**

- Connections under no undue strain
- No basic insulation of a conductor visible outside enclosure
- Connections of live conductors adequately enclosed
- Adequately connected at point of entry to enclosure (gland, bush etc)

 Suitability of circuit accessories for external influences Circuit accessories not damaged during erection Single-pole devices for switching or protection in line conductors only Adequacy of connections, including cpc's, within accessories and at fixed and stationary equipment**6 - CIRCUITS** Identification of conductors Cables correctly supported throughout Examination of cables for signs of damage during installation Examination of insulation of live parts, not damaged Non-sheathed cables protected by conduit, ducting or trunking Suitability of containment systems (including flexible conduit) Correct temperature rating of cable insulation Adequacy of cables for current-carrying capacity with regard for the type and nature of the installation Adequacy of protective devices: type and fault current rating Presence and adequacy of circuit protective conductors Coordination between conductors and overload protective devices Wiring systems and cable installation methods with regard to the type and nature of the installation and external influences*LIM* Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage Provision of fire barriers, sealing arrangements so as to minimise the spread of fire Band II cables separated/segregated from Band I cables Cables segregated/separated from non-electrical services**Inspections continue on the next page**

✓ : Inspection has been carried out with satisfactory result. N/A : Inspection is not applicable to this item.

Reference Number:

EIC002291



Inspection Schedule (3)

7 - ISOLATION AND SWITCHING

Isolators:

- Presence and location of appropriate devices
- Capable of being secured in the off position
- Correct operation verified
- The installation, circuit or part thereof that will be isolated clearly identified by location and/or durable marking
- N/A • Warning notice posted in situation where live parts cannot be isolated by operation of a single device

Switching off for mechanical maintenance:

- Presence of appropriate devices
- Acceptable location
- Capable of being secured in the off position
- Correct operation verified
- The circuit or part thereof to be disconnected clearly identified by location and/or durable marking

Emergency switching/stopping:

- N/A • Presence of appropriate devices
- N/A • Readily accessible for operation where danger might occur
- N/A • Correct operation verified
- N/A • The installation, circuit or part thereof that will be disconnected clearly identified by location and/or durable marking

Functional switching:

- Presence of appropriate devices
- Correct operation verified

10 - OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

8 - CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

- Suitability of equipment in terms of IP and fire ratings
- Enclosure not damaged/deteriorated during installation so as to impair safety
- Suitability for the environment and external influences
- Security of fixing
- Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire
- Provision of undervoltage protection, where specified
- Provision of overload protection, where specified
- Adequacy of working space/accessibility to equipment

Recessed luminaires (downlighters):

- Correct type of lamps fitted
- Installed to minimise the build-up of heat

9 - LOCATIONS CONTAINING A BATH OR SHOWER (SECTION 701)

- 30mA RCD protection for all LV circuits
- N/V Where used as a protective measure, requirements for SELV or PELV met
- N/A Shaver sockets comply with BS EN 61558-2-5 formerly BS3535
- L/M Presence of supplementary bonding conductors (if required)
- N/A Low voltage (230v) socket outlets sited at least 3m from zone 1
- Suitability of equipment for external influences from installed location in terms of IP rating
- Suitability of equipment for installation in a particular zone
- Suitability of current-using equipment for particular position within the location

List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)

Inspected by:

Name: _____

Date: _____

Position: _____

Signature: _____

✓ : Inspection has been carried out with satisfactory result. N/A : Inspection is not applicable to this item.

Reference Number:

EIC002291

Circuit Details

DB Reference:

DB 4C

DB Location:

LEVEL 4



COPY

Distribution Board Comments:
12 WAY TP/N

Supplied from: **Panel 1**

Overcurrent Device: **60947 -**

RCD Operating Current: **N/A** mA

Board Manufacturer: **MEM 2**

Device Rating: **80** A

RCD time delay: **NA** ms

RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	*Codes for Installation methods										Live csa (mm ²)	Cpc csa (mm ²)	Codes for type of wiring:	
			Number of points served	Disconnection Time (s)	Device BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method [†]				
1L1	Spare															
1L2	Spare															
1L3	Spare															
2L1	Spare															
2L2	Spare															
2L3	Power - Track 1	Radial Circuit	1	5	60898	C	40	10	N/A	0.5462	G	C	10	10		
3L1	Power - Track 2	Radial Circuit	1	5	60898	C	40	10	N/A	0.5462	G	C	10	10		
3L2	Power - Track 3	Radial Circuit	1	5	60898	C	40	10	N/A	0.5462	G	C	10	10		
3L3	Power - Track 4	Radial Circuit	1	5	60898	C	40	10	N/A	0.5462	G	C	10	10		
4L1	Power - Track 5	Radial Circuit	1	5	60898	C	40	10	N/A	0.5462	G	C	10	10		
4L2	Power - Track 6	Radial Circuit	1	5	60898	C	40	10	N/A	0.5462	G	C	10	10		
4L3	Spare															
5L1	Spare															
5L2	Spare															
5L3	Spare															
6L1	Spare															
6L2	Spare															
6L3	Spare															
7L1	Power - Tea point	Ring Circuit	10	0.4	61009	C	20	10	30	1666	D	B	2.5	2.5		
7L2	Water Heater	Radial Circuit	1	0.4	61009	C	16	10	30	1666	D	B	2.5	2.5		
7L3	Hand Dryers	Ring Circuit	3	0.4	61009	C	20	10	30	1666	D	B	2.5	2.5		
8L1	Power - AC	Ring Circuit	NV	0.4	61009	C	20	10	30	1666	D	B	2.5	2.5		
8L2	Tea Point Water Heater	Radial Circuit	1	0.4	61009	C	16	10	30	1666	D	B	2.5	2.5		
8L3	Spare															

Reference Number:

EIC002291

Test Results

DB Reference:

DB 4C

DB Location:

LEVEL 4



Tested by: Name: RICHARD FIELD Signature: Date: 20/08/2019	Test instrument serial numbers: Continuity: - RCD: - Other: 33200213	Earth electrode resistance: - Earth fault loop impedance: - Insulation resistance: -	Details of circuits and/or installed equipment vulnerable to damage when testing
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Test Results	Ring final circuit continuity (Ω)				Continuity (Ω)		Insulation Resistance (MΩ)				RCD				Distribution Board Characteristics					
	Circuit Number	R ₁ (line)	R _n (neutral)	R ₂ (opc)	R ₁ + R ₂	R ₂	Live-Live	Live-Neutral	Live-Earth	Neutral-Earth	Test voltage	Polarity	Measured Z _s (Ω)	@ I _n	@ 5I _n	Test Button Operation	AFDD test button operation	Z _s : 0.16 Ω	Nominal Voltage: 400 V	Phase rotation: ✓
																		3 kA	No. of phases: 3	Phase rotation: ✓
1L1																				
1L2																				
1L3																				
2L1																				
2L2																				
2L3	NA	NA	NA	0.07	NA	NA	LIM	>200	>200	500	✓	0.23	NA	NA	NA	NA				
3L1	NA	NA	NA	0.10	NA	NA	LIM	>200	>200	500	✓	0.26	NA	NA	NA	NA				
3L2	NA	NA	NA	0.15	NA	NA	LIM	>200	>200	500	✓	0.31	NA	NA	NA	NA				
3L3	NA	NA	NA	0.12	NA	NA	LIM	>200	>200	500	✓	0.28	NA	NA	NA	NA				
4L1	NA	NA	NA	0.14	NA	NA	LIM	>200	>200	500	✓	0.30	NA	NA	NA	NA				
4L2	NA	NA	NA	0.11	NA	NA	LIM	>200	>200	500	✓	0.27	NA	NA	NA	NA				
4L3																				
5L1																				
5L2																				
5L3																				
6L1																				
6L2																				
6L3																				
7L1	OPEN	OPEN	OPEN	0.29	NA	NA	LIM	>200	>200	500	✓	0.45	19.5	19.1	✓	NA				
7L2	NA	NA	NA	0.17	NA	NA	LIM	>200	>200	500	✓	0.33	19.5	19.1	✓	NA				
7L3	OPEN	OPEN	OPEN	0.31	NA	NA	LIM	>200	>200	500	✓	0.47	19.5	19.1	✓	NA				
8L1	OPEN	OPEN	OPEN	LIM	NA	NA	LIM	>200	>200	500	✓	LIM	NA	NA	NA	NA				
8L2	NA	NA	NA	0.16	NA	NA	LIM	>200	>200	500	✓	0.32	19.5	19.1	✓	NA				
8L3																				

Reference Number:

EIC002291

Circuit Details

DB Reference:

DB 4C

DB Location:

LEVEL 4



COPY

Distribution Board Comments:
12 WAY TP/N

Supplied from: *Panel 1*

Overcurrent Device: *60947 -*

RCD Operating Current: *N/A* mA

Board Manufacturer: *MEM 2*

Device Rating: *80* A RCD time delay: *NA* ms

RCD Operating time at I_{Δn}: *N/A* ms

Circuit Number	Circuit Description	*Codes for Installation methods		Circuit Category	Number of points served	Disconnection Time (s)	Device BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method [†]	Live csa (mm ²)	Cpc csa (mm ²)	Codes for type of wiring:
		A. In conduit in thermally insulated wall	Twin & Earth cable only:														
<i>9L123</i>	<i>Spare</i>																
<i>10L123</i>	<i>Spare</i>																H
<i>11L1</i>	<i>Spare</i>																G
<i>11L2</i>	<i>Spare</i>																F
<i>11L3</i>	<i>Heaters - Not located</i>			<i>Radial Circuit</i>	<i>NV</i>	<i>0.4</i>	<i>61009</i>	<i>C</i>	<i>20</i>	<i>10</i>	<i>30</i>	<i>1666</i>	<i>D</i>	<i>B</i>	<i>2.5</i>	<i>2.5</i>	E
<i>12L1</i>	<i>Power - Cleaners</i>			<i>Radial Circuit</i>	<i>2</i>	<i>0.4</i>	<i>61009</i>	<i>B</i>	<i>20</i>	<i>10</i>	<i>30</i>	<i>1666</i>	<i>D</i>	<i>B</i>	<i>2.5</i>	<i>2.5</i>	D
<i>12L2</i>	<i>Power - Cleaners</i>			<i>Radial Circuit</i>	<i>2</i>	<i>0.4</i>	<i>61009</i>	<i>B</i>	<i>20</i>	<i>10</i>	<i>30</i>	<i>1666</i>	<i>D</i>	<i>B</i>	<i>2.5</i>	<i>2.5</i>	C
<i>12L3</i>	<i>Spare</i>																B
																	A

Reference Number:

EIC002291

Test Results

DB Reference:

DB 4C

DB Location:

LEVEL 4



COPY

Tested by:		Test instrument serial numbers:		Details of circuits and/or installed equipment vulnerable to damage when testing	
Name:	RICHARD FIELD	Continuity:	-	Earth electrode resistance:	-
Signature:		RCD:	-	Earth fault loop impedance:	-
Date:	20/08/2019	Other:	33200213	Insulation resistance:	-

Test Results	Ring final circuit continuity (Ω)				Continuity (Ω)			Insulation Resistance (MΩ)			Test voltage		Measured Zs (Ω)		RCD (ms)		Distribution Board Characteristics		Circuit Comments		
	Circuit Number	R1 (line)	Rn (neutral)	R2 (cpc)	R1 + R2	R2	Live-Live	Live-Neutral	Live-Earth	Neutral-Earth	Test voltage	Polarity	@ 1m	@ 5m	Test Button Operation	AFDD test button operation	Zs: Ω	Nominal Voltage: V		No. of phases:	Phase rotation:
9L123																					
10L123																					
11L1																					
11L2																					
11L3	NA	NA	NA	LIM	NA	NA	LIM	>200	>200	500	✓	LIM	NA	NA	NA	NA	NA	400	3	✓	Not Located
12L1	NA	NA	NA	0.63	NA	NA	LIM	>200	>200	500	✓	0.79	19.5	19.1	✓	NA	NA				
12L2	NA	NA	NA	0.49	NA	NA	LIM	>200	>200	500	✓	0.65	19.5	19.1	✓	NA	NA				
12L3																					

ELECTRICAL INSTALLATION CERTIFICATE GUIDANCE FOR RECIPIENTS

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with 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, immediately 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 requirements 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 skilled person or persons, competent in such work. 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.

This Certificate is only valid if accompanied by the Schedule of Inspections and the Schedule(s) of Test Results.