

Electrical Installation Certificate

To comply with:

BS 7671: 2018 (Amendment 1: 2020)
Requirement for Electrical Installations
IET Wiring Regulations Eighteenth Edition


Lawrencedale Court - Communal Area Front Block
Basingstoke

Completion of electrical works undertaken for: Wellman Property Ltd

Electrical installation completed: 03 March 2021

Electrical installation undertaken by:

R.A.B Electrics

 07472179698

 R.A.B ELECTRICS


STROMA
CERTIFICATION
CERTIFIED INSTALLER



R.A.B ELECTRICS

Unique Certificate No. RAB-000050-EIC

ELECTRICAL INSTALLATION CERTIFICATE

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

Issued in accordance with BS 7671 - Requirements for Electrical Installations

DETAILS OF THE CLIENT

Client: Wellman Property Ltd Contract Ref (if any):

Address:

Lawrencedale Court, Basingstoke

INSTALLATION ADDRESS

Address:

Lawrencedale Court - Communal Area Front Block, Basingstoke

DESCRIPTION AND EXTENT OF THE INSTALLATION

Description Of installation: Domestic Installation type Alteration to an existing installation

Extent of electrical works covered by this certificate:

Replacement Distribution board for the communal area in the front block of Lawrencedale Court

FOR DESIGN, CONSTRUCTION, INSPECTION & TESTING

I being the person responsible for the inspection & 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 inspection & testing, hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671: 2018 (Amendment 1: 2020), 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

Name	Robert Butler	For & on behalf of:	R.A.B Electrics
Position	Owner		
Date	03 March 2021	Address:	07472179698 rabelectrics@gmail.com
Signature			
Enrolment No.:	STRI15254	Branch No.:	
		Accredited Body:	Stroma

NEXT INSPECTION

It is recommended that the installation is further inspected & tested: before 03 March 2026

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements	TN-S	TN-C-S	✓	TT	TN-C	IT	
Number and Type of Live Conductors	A.C./D.C.	A.C.		No. of phases	1-Phase (2-wire)		
Nature of Supply Parameters							
Nominal voltage(s), U_0	230V	Nominal frequency, f	50Hz	Number of supplies	1	Phase sequence confirmed:	N/A
U		External earth fault loop impedance, Z_e	0.13Ω	Prospective fault current, I_{pf}	1.8kA	Supply polarity confirmed:	✓
Primary Supply Overcurrent Protective Device(s)	BS 1361 Fuse System G (Clip-in)			Rated current	100A	Short-circuit capacity	33kA
Other sources of supply:							

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of earthing	Supplier's facility	Maximum Demand (Load):	23.2
Method of Fault Protection	ADS		
Main Protective Conductors			
Earthing Conductor	Conductor material	Copper	Conductor csa 16mm ² Continuity check <input checked="" type="checkbox"/>
Main protective bonding conductors	Conductor material		Conductor csa Continuity check
Bonding of extraneous-conductive parts	Water installation pipes:		Gas installation pipes: Oil service:
	Structural steel:		Lightning protection: Other incoming services
Main Switch / Switch-Fuse / Circuit-breaker / RCD			
Location		BS(EN)	BS EN 60947-3
	No. of poles	2	Rated voltage 240V Rated current 100A
	Fuse rating or setting		Conductors material Copper Conductors csa 2 x 25mm ²
Front End Residual Current Device details (if applicable):			
	Operating current $I_{\Delta n}$	N/A	Operating time @ $I_{\Delta n}$ Type 'S' RCD (time delayed)

COMMENTS ON THE EXISTING INSTALLATION

Old DB was buried inside the wall and has been supplementary bonded and used to extend the cables into the new DB.

Schedule Of inspections

If the tested item applies to a particular board or circuit, this is shown in the 'Location' column. Further detail can be found in the 'Observations' section.

Item No	Description	Outcome
1.0 Distributor's (DNO) Supply intake equipment (VISUAL INSPECTION ONLY)		
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)	N/A
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)	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A
3.0 Automatic Disconnection of Supply		
3.1	Presence and adequacy of earthing and protective bonding arrangements - Distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	✓
3.2	Presence and adequacy of earthing and protective bonding arrangements - Installation earth electrode (where applicable) (542.1.2.3)	N/A
3.3	Presence and adequacy of earthing and protective bonding arrangements - Earthing conductor and connections, including accessibility (542.3 & 543.3.2)	N/A
3.4	Presence and adequacy of earthing and protective bonding arrangements - Main protective bonding conductors and connections, including accessibility (411.3.1.2, 543.3.2, & 544.1)	N/A
3.5	Presence and adequacy of earthing and protective bonding arrangements - Provision of safety electrical earthing / bonding labels at all appropriate locations (514.13)	✓
3.6	Presence and adequacy of earthing and protective bonding arrangements - RCD(s) provided for fault protection (411.4.204 & 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)	✓
4.2	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation - 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 30 mA operating current (415.1, & Part 7) See Item 8.14 of this schedule	✓
5.2	Presence and effectiveness of additional protection - Supplementary bonding (415.2 & Part 7)	✓
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)	N/A
6.2	Presence and effectiveness of methods which give both basic and fault protection - PELV system, including the source and associated circuits (Section 414)	N/A
6.3	Presence and effectiveness of methods which give both basic and fault protection - Double of reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 414)	✓
6.4	Presence and effectiveness of methods which give both basic and fault protection - Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	✓
7.0 Consumer Unit(s) & Distribution Board(s)		
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓
7.2	Components are suitable according to assembly manufacturer's instructions or literature (536.4.203)	✓
7.3	Presence of linked main switch(s) (462.1.201)	✓
7.4	Isolators, for every circuit or group of circuits and all items of electrical equipment (462.2)	✓
7.5	Suitability of enclosure(s) for IP and fire ratings (416.2, 421.1.6, 421.1.201, & 526.5)	✓
7.6	Protection against mechanical damage where cables enter equipment (522.8.1, 522.8.5, & 522.8.11)	✓
7.7	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.8	Avoidance of heating effects when cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
7.9	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2, 411.4, 411.5, 411.6 & Sections 432, 433, & 537.3.1.1)	✓
7.10.1	Presence of appropriate circuit charts, warning and other notices - Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
7.10.2	Presence of appropriate circuit charts, warning and other notices - Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓

Item No	Description	Outcome
7.10.3	Presence of appropriate circuit charts, warning and other notices - Periodic inspection and testing notice (514.12.1)	✓
7.10.4	Presence of appropriate circuit charts, warning and other notices - RCD six-monthly test notice; where required (514.1 2.2)	✓
7.10.5	Presence of appropriate circuit charts, warning and other notices: AFDD six-monthly test notice; where required	N/A
7.10.6	Presence of appropriate circuit charts, warning and other notices - Warning notice of non-standard (mixed) colours and conductors present (514.14)	N/A
7.11	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, 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)	✓
8.8	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, 530.3.3, & 643.6)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1, 512.2, & Section 526)	✓
8.14.1	Provision of additional protection by RCD not exceeding 30mA - Socket-outlets rated at 32A or less, unless exempt (411.3.3)	✓
8.14.2	Provision of additional protection by RCD not exceeding 30mA - Supplies for mobile equipment with a current rating not exceeding 32A for use outdoors (411.3.3)	✓
8.14.3	Provision of additional protection by RCD not exceeding 30mA - Cables concealed in walls at a depth of less than 50mm (522.6.202, & 522.6.203)	✓
8.14.4	Provision of additional protection by RCD not exceeding 30mA - Cables concealed in walls / partitions containing metal parts regardless of depth (522.6.202, & 522.6.203)	✓
8.14.5	Provision of additional protection/requirements by RCD not exceeding 30mA - Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
8.15.1	Presence of appropriate devices for isolation and switching correctly located including - Means of switching off for mechanical maintenance (Section 464 & 537.3.2)	✓
8.15.2	Presence of appropriate devices for isolation and switching correctly located including - Emergency switching (465.1, & 537.3.3)	✓
8.15.3	Presence of appropriate devices for isolation and switching correctly located including - Functional switching, for controls of parts of the installation and current-using equipment (463.1, & 537.3.1)	✓
8.15.4	Presence of appropriate devices for isolation and switching correctly located including - Firefighter's switches (537.4)	N/A
8.	Circuits - additional information	✓
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)	✓
9.3	Installed to minimize 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 Location(s) Containing a Bath or Shower (Section 701)		
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc	N/A
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)	N/A

Test Results: DB 001

Phase sequence confirmed:		Z _s at DB:		Vulnerable circuits and/or installed equipment:	
Supply polarity confirmed:		I _{pf} at DB:			

Details of Test Instruments Used					
Continuity:	Kewtech KT 63	Insulation resistance:	Kewtech KT 63	Earth fault loop impedance:	Kewtech KT 63
RCD:	Kewtech KT 63	Earth electrode resistance:	N/A		

Circuit	Circuit Description	Ring Final Circuit Continuity			Continuity			Insulation Resistance			Polarity	Max Measured Earth Loop	RCD Test Results				Manual AFDD test button operation
		r ₁ (line)	r _n (neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	Insulation Resistance Test Voltage	Live-Live	Live-Neutral	Live-Earth			Test Button	No trip at ½I _{Δn}	Op time at I _{Δn}	Op time at 5I _{Δn}	
1	Sockets	N/A	N/A	N/A	0.50Ω	-----	250V	N/A	>200MΩ	>200MΩ	✓	-----	-----	-----	-----	-----	N/A
2	Lights	N/A	N/A	N/A	-----	0.33Ω	250V	N/A	>200MΩ	>200MΩ	✓	-----	-----	-----	-----	-----	N/A
3	Porch Light	N/A	N/A	N/A	0.19Ω	-----	250V	N/A	>200MΩ	>200MΩ	✓	-----	-----	-----	-----	-----	N/A
4	Door Access	N/A	N/A	N/A	-----	0.15Ω	250V	N/A	>200MΩ	>200MΩ	✓	-----	-----	-----	-----	-----	N/A
8	SPD	N/A	N/A	N/A	-----	-----	-----	N/A	-----	-----	✓	-----	-----	-----	-----	-----	N/A

Electrical Installation Certificate

Guidance for Recipients [to be appended to the Certificate)

This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been design ed, 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 BS 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 and testing 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.