

Certificate Reference: **78554**



**1 DETAILS OF THE CLIENT**  
Client Address: -University of Warwick, Estates Office, Porta Cabin, R/O Boiler House, Lord Bhattacharyya Way, Coventry, CV4 7AL

**2 DETAILS OF THE INSTALLATION**  
Installation Address: -University of Warwick - Year 2 - Bericote Residential - 03.024, Estates Office, Porta Cabin, R/O Boiler House, Lord Bhattacharyya Way, Coventry, CV4 7AL  
Extent of the installation covered by this certificate: Remedials from report 69715  
The installation is: New installation  N/A  Addition to an existing installation  N/A  Alteration to an existing installation

**3 DESIGN**  
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 BS 7671:2018, amended to 2020 except for the departures, if any, detailed as follows.  
Details of departures from BS 7671 (Regulations 120.3, 133.5): None  
Details of permitted exceptions (Regulations 411.3.3): None Risk assessment attached  N/A   
The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.  
For the DESIGN of the installation:  
Name: N/A Position: N/A Signature: N/A Date: N/A  
Where there is divided responsibility for the design:  
Name: N/A Position: N/A Signature: N/A Date: N/A

**4 CONSTRUCTION**  
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 BS 7671:2018, amended to 2020 except for the departures, if any, detailed as follows.  
Details of departures from BS 7671 (Regulations 120.3, 133.5): None  
The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.  
For the CONSTRUCTION of the installation:  
Name: N/A Position: N/A Signature: N/A Date: N/A

**5 INSPECTION AND TESTING**  
I/We being the person(s) responsible for the inspection and 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 and testing, hereby CERTIFY that the inspection and testing work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2020 except for the departures, if any, detailed as follows.  
Details of departures from BS 7671 (Regulations 120.3, 133.5): None  
The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.  
For the INSPECTION AND TESTING of the installation:  
Name: N/A Position: N/A Signature: N/A Date: N/A  
Report reviewed and confirmed by:  
Name: N/A Position: N/A Signature: N/A Date: N/A

**6 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 signatures below), 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 design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2020 except for the departures, if any, detailed as follows.  
Details of departures from BS 7671 (Regulations 120.3, 133.5): None  
The extent of liability of the signatory/signatories 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:  
Name: Paul Springthorpe Position: Electrician Signature:  Date: 25/10/2021  
Report reviewed and confirmed by:  
Name: Brett Irving Position: Qualified Supervisor Signature:  Date: 02/12/2021

**7 NEXT INSPECTION**  
I/We the designer(s), RECOMMEND that this installation is further inspected and tested after an interval of not more than: **5 Years**

## 8 DETAILS OF THE ELECTRICAL CONTRACTOR

<b>Design (1)</b>	Trading Title: ~Norwood Electrical (UK) Ltd		
Address:	The Coach House, Lockington Hall Lockington Derbyshire	Registration Number (if applicable):	032788
	Postcode: DE74 2RH	Telephone Number:	0844 800 5540
<b>Design (2)</b>	Trading Title: Same as Above		
Address:		Registration Number (if applicable):	
	Postcode:	Telephone Number:	
<b>Construction</b>	Trading Title: Same as Above		
Address:		Registration Number (if applicable):	
	Postcode:	Telephone Number:	
<b>Inspection and Testing</b>	Trading Title: Same as Above		
Address:		Registration Number (if applicable):	
	Postcode:	Telephone Number:	

## 9 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements	Number and Type of Live Conductors	Nature of Supply Parameters	Supply Protective Device
TN-S <input checked="" type="checkbox"/>	ac: <input checked="" type="checkbox"/> dc: N/A 1-phase (2 wire): N/A 1-phase (3 wire): N/A 2-phase (3 wire): N/A 3-phase (3 wire): N/A 3-phase (4 wire): <input checked="" type="checkbox"/> Other: N/A	Nominal voltage(s): U: 400 V U <sub>o</sub> : 230 V Nominal frequency, f: 50 Hz Prospective fault current, I <sub>pf</sub> : 4.0 kA External earth fault loop impedance, Z <sub>e</sub> : 0.10 Ω Number of supplies: 1	BS(EN): BS EN 60947-3 Isolator Type: --- Rated current: 250 A Short-circuit capacity: 6 kA
TN-C-S <input type="checkbox"/>			
TNC <input type="checkbox"/>			
TT <input type="checkbox"/>			
IT <input type="checkbox"/>	Confirmation of supply polarity: <input type="checkbox"/>		

## 10 PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of Earthing	Details of Installation Earth Electrode (where applicable)		
Distributor's facility: <input checked="" type="checkbox"/>	Type:	Location:	
Installation earth electrode: N/A	Resistance to Earth: Ω	Method of measurement:	
Maximum Demand (Load):	Protective measure(s) against electric shock:		ADS
Main Switch / Switch-Fuse / Circuit-Breaker / RCD Type	Supply conductors material:		If RCD main switch:
BS(EN): 60947-3 Isolator	Current rating: 250 A	Copper	Rated residual operating current (I <sub>Δn</sub> ): mA
Number of poles: 3	Fuse/device rating or setting: 250 A	Supply conductors csa: 95 mm <sup>2</sup>	Rated time delay: ms
	Voltage rating: 800 V		Measured operating time (at I <sub>Δn</sub> ): ms
Earthing and Protective Bonding Conductors		Bonding of extraneous-conductive parts	
Earthing conductor	Connection/continuity verified: <input checked="" type="checkbox"/>	To water installation pipes: <input checked="" type="checkbox"/>	To gas installation pipes: <input checked="" type="checkbox"/>
Conductor material: Copper	csa: 147 mm <sup>2</sup>	To oil installation pipes: N/A	To lightning protection: N/A
Main protective bonding conductors	Connection/continuity verified: <input checked="" type="checkbox"/>	To structural steel: N/A	To other service(s): N/A
Conductor material: Copper	csa: 25 mm <sup>2</sup>		

## 11 COMMENTS ON EXISTING INSTALLATION

None

## 12 INSPECTION SCHEDULE

Item No	Description	Outcome
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)	
1.1	Service cable	✓
1.2	Service head	✓
1.3	Earthing arrangement	✓
1.4	Meter tails	✓
1.5	Metering equipment	✓
1.6	Isolator (where present)	✓
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Presence of adequate arrangements where generator to operate as a switched alternative (551.6):	
2.1.1	Dedicated earthing arrangement independent of that of the public supply (551.4.3.2.1)	✓
2.2	Presence of adequate arrangements where generator to operate in parallel with the public supply system (551.7):	
2.2.1	Correct connection of generator in parallel (551.7.2)	✓
2.2.2	Compatibility of characteristics of means of generation (551.7.3)	✓
2.2.3	Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.4)	✓
2.2.4	Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.5)	✓
2.2.5	Means to isolate generator from the public supply system (551.7.6)	✓
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of protective earthing/bonding arrangements (411.3; Chapter 54):	
3.1.1	Distributor's earthing arrangement (542.1.2.1; 542.1.2.2), or installation earth electrode arrangement (542.1.2.3)	✓
3.1.2	Earthing conductor and connections (Section 526; 542.3; 542.3.2; 543.1.1)	✓
3.1.3	Main protective bonding conductors and connections (Section 526; 544.1; 544.1.2)	✓
3.1.4	Earthing/bonding labels at all appropriate locations (514.13)	✓
3.2	Accessibility of:	
3.2.1	Earthing conductor connections	✓
3.2.2	All protective bonding connections (543.3.2)	✓
3.3	FELV – requirements satisfied (411.7; 411.7.1)	✓
4.0	BASIC AND FAULT PROTECTION (where used, confirmation that the requirements are satisfied)	
4.1	SELV (Section 414)	✓
4.2	PELV (Section 414)	✓
4.3	Double insulation (Section 412)	✓
4.4	Reinforced insulation (Section 412)	✓
5.0	BASIC PROTECTION	
5.1	Insulation of live parts (416.1)	✓
5.2	Barriers or enclosures (416.2; 416.2.1)	✓
5.3	Obstacles (Section 417; 417.2.1; 417.2.2)	✓
5.4	Placing out of reach (Section 417; 417.3)	✓
6.0	FAULT PROTECTION	
6.1	Non-conducting location (418.1)	✓
6.2	Earth-free local equipotential bonding (418.2)	✓
6.3	Electrical separation (Section 413; 418.3)	✓

## 13 INSPECTION SCHEDULE (CONTINUED)

Item No	Description	Outcome
7.0	ADDITIONAL PROTECTION	
7.1	RCDs not exceeding 30mA as specified (415.1)	✓
7.2	Supplementary bonding (Section 415; 415.2)	✓
8.0	DISTRIBUTION EQUIPMENT	
8.1	Security of fixing (134.1.1)	✓
8.2	Insulation of live parts not damaged during erection (416.1)	✓
8.3	Adequacy/security of barriers (416.2)	✓
8.4	Suitability of enclosures for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)	✓
8.5	Enclosures not damaged during installation (134.1.1)	✓
8.6	Presence and effectiveness of obstacles (417.2)	✓
8.7	Components are suitable according to manufacturers assembly instructions or literature (536.4.203)	✓
8.8	Presence of main switch(es), linked where required (462.1.201)	✓
8.9	Operation of main switch(es) (functional check) (643.10)	✓
8.10	Manual operation of circuit-breakers and RCDs to prove functionality (643.10)	✓
8.11	Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)	✓
8.12	RCD(s) provided for fault protection, where specified (411.4.204; 411.5.2; 531.2)	✓
8.13	RCD(s) provided for additional protection, where specified (415.1)	✓
8.14	Confirmation overvoltage protection (SPDs) provided where specified (534.4.1.1)	✓
8.15	Presence of RCD six-monthly test notice at or near the origin (514.12.2)	✓
8.16	Presence of diagrams, charts or schedules at or near each distribution board, where required (514.9.1)	✓
8.17	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required (514.14)	✓
8.18	Presence of alternative supply warning notice at or near (514.15):	
8.18.1	The origin	✓
8.18.2	The meter position, if remote from origin	✓
8.18.3	The distribution board to which the alternative/additional sources are connected	✓
8.18.4	All points of isolation of ALL sources of supply	✓
8.19	Presence of next inspection recommendation label (514.12.1)	✓
8.20	Presence of other required labelling (Section 514)	✓
8.21	Selection of protective device(s) and base(s); correct type and rating (411.3.2; 411.4, .5, .6; Sections 432, 433, 434)	✓
8.22	Single-pole protective devices in line conductors only (132.14.1; 530.3.3; 643.6)	✓
8.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	✓
8.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	✓
8.25	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	✓
9.0	CIRCUITS	
9.1	Identification of conductors (514.3.1)	✓
9.2	Cables correctly supported throughout (522.8.5; 521.10.202)	✓
9.3	Examination of cables for signs of mechanical damage during installation (522.6.1; 522.8.1; 522.8.3)	✓
9.4	Examination of insulation of live parts, not damaged during erection (522.6.1; 522.8.1)	✓
9.5	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	✓

## 14 INSPECTION SCHEDULE (CONTINUED)

Item No	Description	Outcome
9.6	Suitability of containment systems (including flexible conduit) (Section 522)	✓
9.7	Correct temperature rating of cable insulation (522.1.1; Table 52.1)	✓
9.8	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓
9.9	Adequacy of protective devices: type and fault current rating for fault protection (434.5)	✓
9.10	Presence and adequacy of circuit protective conductors (411.3.1; 543.1)	✓
9.11	Coordination between conductors and overload protective devices (433.1; 533.2.1)	✓
9.12	Wiring systems and cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)	✓
9.13	Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203, 522.6.204)	✓
9.14	Provision of additional protection by RCDs having rated residual operating current (I <sub>n</sub> ) not exceeding 30mA:	
9.14.1	For all socket-outlets of rating (32A) or less, unless exempt (411.3.3)	✓
9.14.2	Supplies for mobile equipment not exceeding 32A rating for use outdoors (411.3.3)	✓
9.14.3	For cables concealed in walls at a depth of less than 50mm (522.6.202, .203)	✓
9.14.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; .203)	✓
9.14.5	Circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
9.15	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire (Section 527)	✓
9.16	Band II cables segregated/separated from Band I cables (528.1)	✓
9.17	Cables segregated/separated from non-electrical services (528.3)	✓
9.18	Termination of cables at enclosures (Section 526):	
9.18.1	Connections under no undue strain (522.8.5; 526.6)	✓
9.18.2	No basic insulation of a conductor visible outside enclosure (526.8)	✓
9.18.3	Connections of live conductors adequately enclosed (526.5)	✓
9.18.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	✓
9.19	Suitability of circuit accessories for external influences (512.2)	✓
9.20	Circuit accessories not damaged during erection (134.1.1)	✓
9.21	Single-pole devices for switching or protection in line conductors only (132.14.1, 530.3.3; 643.6)	✓
9.22	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment (Section 526)	✓
10.0	ISOLATION AND SWITCHING	
10.1	Isolators (462; 537.2):	
10.1.1	Presence and location of appropriate devices (Section 462; 537.2.7)	✓
10.1.2	Capable of being secured in the OFF position (537.2.4)	✓
10.1.3	Correct operation verified (functional check) (643.10)	✓
10.1.4	The installation, circuit or part thereof that will be isolated clearly identified by location and/or durable marking (537.2.7)	✓
10.1.5	Warning notice posted in situation where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	✓
10.2	Switching off for mechanical maintenance (Section 464; 537.3.2):	
10.2.1	Presence of appropriate devices (464.1; 537.3.2)	✓
10.2.2	Acceptable location - state if local or remote from equipment in question (537.3.2.4)	✓
10.2.3	Capable of being secured in the OFF position (464.2)	✓
10.2.4	Correct operation verified (functional check) (643.10)	✓
10.2.5	The circuit or part thereof to be disconnected clearly identified by location and/or durable marking (537.3.2.3; 537.3.2.4)	✓

## 15 INSPECTION SCHEDULE (CONTINUED)

Item No	Description	Outcome
10.3	Emergency switching/stopping (Section 465; 537.3.3; 537.4):	
10.3.1	Presence of appropriate devices (465.1; 537.3.3; 537.4)	✓
10.3.2	Readily accessible for operation where danger might occur (537.3.3.6)	✓
10.3.3	Correct operation verified (functional check) (643.10)	✓
10.3.4	The installation, circuit or part thereof to be disconnected clearly identified by location and/or durable marking (537.3.3.6)	✓
10.4	Functional switching (463.1; 537.3.1):	
10.4.1	Presence of appropriate devices (537.3.1.1; 537.3.1.2)	✓
10.4.2	Correct operation verified (functional check) (537.3.1.1; 537.3.1.2; 643.10)	✓
11.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
11.1	Suitability of equipment in terms of IP and fire ratings (416.2; 421.1; 421.1.201; 526.5)	✓
11.2	Enclosure not damaged/deteriorated during installation so as to impair safety (134.1.1)	✓
11.3	Suitability for the environment and external influences (512.2)	✓
11.4	Security of fixing (134.1.1)	✓
11.5	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire (527.2)	N/A
11.6	Provision of undervoltage protection, where specified (Section 445)	✓
11.7	Provision of overload protection, where specified (Section 433; 552.1)	✓
11.8	Recessed luminaires (downlighters):	
11.8.1	Correct type of lamps fitted (559.3.1)	N/A
11.8.2	Installed to minimize build-up of heat (421.1.2; 559.4.1)	N/A
11.9	Adequacy of working space/accessibility to equipment (132.12; 513.1)	N/A
12.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
12.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)	N/A
12.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	N/A
12.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A
12.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	N/A
12.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1 (701.512.3)	N/A
12.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	N/A
12.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	N/A
12.8	Suitability of current-using equipment for particular position within the location (701.55)	N/A
13.0	PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
13.1		N/A
13.2		N/A
13.3		N/A

All boxes must be completed. 'tick' indicates that an inspection or test was carried out and that the result was satisfactory. 'X' indicates that an inspection or test was carried out and the result is not satisfactory. 'N/A' indicates that an inspection or test was not applicable to the particular installation. 'LIM' indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection or test being carried out.

## 16 SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Distribution board designation: **03-024-00-002-MP1 (MP1) (Dorman Smith)**

Location: **03-024-00-002**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices					RCD	Circuit impedances (Ohms)					Insulation resistance			Polarity	Maximum measured earth fault loop impedance Z <sub>s</sub>	RCD		AFDD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Capacity kA	Operating current, I <sub>Δn</sub> mA		Maximum Z <sub>s</sub> permitted by BS7671 Ω	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Live - Live MΩ	Live - Earth MΩ			Test voltage V	Disconnection time ms		Test button operation
															r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	R <sub>1</sub> +R <sub>2</sub>	R <sub>2</sub>								
1 TP	Sub Mains(DB MCP) 03-024-00-002	G	E	1	25	70	5	60947-2	N/A	63	19	---	0.15	---	---	---	0.05	---	---	---	✓	0.21	---	---	---		
2 TP	Sub Mains(DB B/S) 02-004D	G	E	1	35	80	5	60947-2	N/A	80	19	---	0.19	---	---	---	0.01	---	---	---	✓	0.11	---	---	---		
3 TP	Sub Mains(DB B/F) 01-011D	G	E	1	25	70	5	60947-2	N/A	80	19	---	0.19	---	---	---	0.02	---	>999	500	✓	0.12	---	---	---		
4 TP	Supply to	G	E	1	25	70	5	60947-2	N/A	80	19	---	0.19	---	---	---	0.05	---	>999	500	✓	0.15	---	---	---		
5 TP	Spare	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
6 TP	Spare	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
7 L1	Sub Mains(DB/C/Comms)	G	E	1	16	41	5	60947-2	N/A	63	19	---	0.22	---	---	---	LIM2	---	---	---	---	LIM2	---	---	---		
7 L2	Sub Mains(DB/CT1) Tutors Flat	G	E	1	25	70	5	60947-2	N/A	100	19	---	0.16	---	---	---	0.10	---	---	>999	500	✓	0.20	---	---	---	
7 L3	Sub Mains(DB/CT2)	G	E	1	25	70	5	60947-2	N/A	100	19	---	0.16	---	---	---	0.04	---	---	>999	500	✓	0.18	---	---	---	

CODES FOR TYPE OF WIRING	A Thermoplastic insulated/sheathed cables	B Thermoplastic cables in metallic conduit	C Thermoplastic cables in nonmetallic conduit	D Thermoplastic cables in metallic trunking	E Thermoplastic cables in nonmetallic trunking	F Thermoplastic /SWA cables	G Thermosetting /SWA cables	H Mineral insulated cables	O - Other
									FP200

## 17 BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	Feeder Pillar E Rear of Building		No of phases:	3	Confirmation of supply polarity:	✓
Overcurrent protective device for the distribution circuit:	BS(EN):	LIM	Rating:	LIM A	Nominal Voltage:	400 V
RCD	BS(EN):		No of poles:		Rating:	mA
					Z <sub>s</sub> :	0.09 Ω
					lpf:	6.66 kA
					Disconnection time at In:	ms
					Disconnection time at 5I <sub>n</sub> :	ms

## 18 DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	102007843	Insulation resistance:	102007843	Continuity:	102007843
Earth electrode resistance:	102007843	Earth fault loop impedance:	102007843	RCD:	102007843

## 19 TESTED BY

Name: **Paul Springthorpe** Position: **Electrician** Signature:  Date: **09/09/2020**

**SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS**

Distribution board designation: **03-024-00-002-MP1 (MP1) (Dorman Smith)**

Location: **03-024-00-002**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices					RCD	Maximum Z <sub>s</sub> permitted by BS7671	Circuit impedances (Ohms)					Insulation resistance			Polarity	Maximum measured earth fault loop impedance Z <sub>s</sub>	RCD		AFDD			
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Capacity kA	Operating current, I <sub>Δn</sub> mA			Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Live - Live MΩ	Live - Earth MΩ	Test voltage V			✓	Ω		ms	✓	✓
															r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	R <sub>1</sub> +R <sub>2</sub>	R <sub>2</sub>											
8 L1	Sub Mains(DB/CT3)	G	E	1	25	70	5	60947-2	N/A	100	19	---	0.16	---	---	---	---	---	---	---	---	---	---	LIM	---	---	---			
8 L2	Spur - Fire Alarm supply	O	E	1	2.5	2.5	5	60947-2	N/A	16	19	---	0.97	---	---	---	---	0.25	---	---	---	✓	0.35	---	---	---				
8 L3	Spur - Emergency lighting panel, 00-010	G	E	1	4	19	5	60947-2	N/A	16	19	---	0.97	---	---	---	0.10	---	---	>999	500	✓	0.26	---	---	---				
9 TP	Spare	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
10 TP	Spare	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
11 TP	Spare	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
12 TP	Main Isolator	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

CODES FOR TYPE OF WIRING	A	B	C	D	E	F	G	H	O - Other
	Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in nonmetallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in nonmetallic trunking	Thermoplastic /SWA cables	Thermosetting /SWA cables	Mineral insulated cables	FP200



## SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

 Distribution board designation: **03-024-00-010-DB1 (DB B/G) (Dorman Smith)**

 Location: **03-024-00-010\*\***

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices					RCD	Circuit impedances (Ohms)					Insulation resistance			Polarity	RCD		AFDD			
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Capacity kA	Operating current, I <sub>Δn</sub> mA		Maximum Z <sub>s</sub> permitted by BS7671 Ω	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Live - Live MΩ	Live - Earth MΩ		Test voltage V	Maximum measured earth fault loop impedance Z <sub>s</sub> Ω		Disconnection time ms	Test button operation	Test button operation
															r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	R <sub>1</sub> +R <sub>2</sub>	R <sub>2</sub>									
9 L1	RFC - Sockets - Rooms, 019, 020, 023	A	E	18	2.5	1.5	0.4	61009	B	32	10	30	1.10	0.84	0.84	1.40	0.42	---	---	>999	500	✓	0.61	5.48	✓	---		

CODES FOR TYPE OF WIRING	A Thermoplastic insulated/sheathed cables	B Thermoplastic cables in metallic conduit	C Thermoplastic cables in nonmetallic conduit	D Thermoplastic cables in metallic trunking	E Thermoplastic cables in nonmetallic trunking	F Thermoplastic /SWA cables	G Thermosetting /SWA cables	H Mineral insulated cables	O - Other
									FP200

### BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	03-024-00-002-MP1 (MP1) (Dorman Smith) - 4 TP		No of phases:	3	Confirmation of supply polarity:	✓
Overcurrent protective device for the distribution circuit:	BS(EN):	60947-2 - Type N/A	Rating:	80 A	Nominal Voltage:	400 V
RCD	BS(EN):		No of poles:		Rating:	mA
					Disconnection time at In:	--- ms
					Disconnection time at 5I <sub>n</sub> :	--- ms
					Z <sub>s</sub> :	0.15 Ω
					lpf:	3.02 kA

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	102138556	Insulation resistance:	---	Continuity:	---
Earth electrode resistance:	---	Earth fault loop impedance:	---	RCD:	---

### TESTED BY

Name:	Paul Springthorpe	Position:	Electrician	Signature:		Date:	25/10/2021
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## SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

 Distribution board designation: **03-024-01-011D-DB1 (DB B/F) (Dorman Smith)**

 Location: **03-024-01-11D\*\***

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices					RCD	Circuit impedances (Ohms)					Insulation resistance			Polarity	Maximum measured earth fault loop impedance Z <sub>s</sub>	RCD	AFDD		
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Capacity kA	Operating current, I <sub>Δn</sub> mA		Maximum Z <sub>s</sub> permitted by BS7671 Ω	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Live - Live MΩ	Live - Earth MΩ					Test voltage V	
															r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	R <sub>1</sub> +R <sub>2</sub>	R <sub>2</sub>								
7 L3	RFC - Sockets, 025, 026**	A	E	14	2.5	1.5	0.4	61009	B	32	10	30	1.10	0.63	0.63	1.04	---	---	---	> 999	500	✓	0.62	18.3	✓	---	

CODES FOR TYPE OF WIRING	A Thermoplastic insulated/sheathed cables	B Thermoplastic cables in metallic conduit	C Thermoplastic cables in nonmetallic conduit	D Thermoplastic cables in metallic trunking	E Thermoplastic cables in nonmetallic trunking	F Thermoplastic /SWA cables	G Thermosetting /SWA cables	H Mineral insulated cables	O - Other
									FP-200

### BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	03-024-00-002-MP1 (MP1) (Dorman Smith) - 3 TP	No of phases:	3	Confirmation of supply polarity:	✓
Overcurrent protective device for the distribution circuit:	BS(EN): 60947-2 - Type N/A	Rating:	80 A	Nominal Voltage:	400 V
RCD	BS(EN):	No of poles:		Rating:	mA
				Disconnection time at In:	--- ms
				Disconnection time at 5I <sub>n</sub> :	--- ms
				Z <sub>s</sub> :	0.12 Ω
				lpf:	3.33 kA

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	102138556	Insulation resistance:	---	Continuity:	---
Earth electrode resistance:	---	Earth fault loop impedance:	---	RCD:	---

### TESTED BY

Name:	Paul Springthorpe	Position:	Electrician	Signature:		Date:	25/10/2021
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# Approximate Submains Lengths

## GENERAL COMMENTS

General Comments for the Installation or Inspection of the report:

Approximate Submains Lengths (To listed distribution boards) -

03-024-00-010-DB1 (DB B/G)	5 Meters
03-024-02-011D-DB1 (DB B/F)	20 Meters
03-024-02-004D-DB1 (DB B/S)	25 Meters

## 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 designed, constructed and inspected and tested in accordance with British Standard 7671 (as amended) (The IET Wiring Regulations).

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

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 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 new work associated with an alteration or addition 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 a Schedule of Inspections and Schedule of Test Results are appended.