ELECTRICAL INSTALLATION CONDITION REPORT

Issued in accordance with BS 7671: 2018+A3:2024 – Requirements for Electrical Installations

Serial: 20241120084110/1 Property Id: 2PARA1_EXT_COM

PART 1 : DETAILS OF CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR

Registration no: **6113170** Branch No. **000**
Trading title: **believe Housing**
Address: **Coast House**
Spectrum 4
Spectrum Business Park
Seaham
Post code: **SR7 7TT** Tel no.: **0300 1311999**

DETAILS OF THE CLIENT

Contractor Reference Number:
Name: **believe Housing**
Address: **Coast House**
Spectrum 4
Spectrum Business Park
Seaham
Post code: **SR7 7TT** Tel no.: **0300 1311999**

DETAILS OF THE INSTALLATION

UPRN: **2PARA1_EXT_COM**
Occupier:
Address: **External and Communal**
Block 11 - 57 Park Avenue Court
Crook
Co Durham
Post code: **DL15 9JR** Tel no.:

PART 2 : PURPOSE OF THE REPORT

Purpose for which this report is required	**Periodic Inspection**						
Date when inspection and testing was carried out	**20/11/2024**	Records of previous inspection available (651.1)?	**No**	Available from	**N/A**	Previous report date	**21/12/2021**

PART 3 : SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety): **The installation is safe for continued use. All accessories appear to be in good condition. Existing C.U. in good condition. Meter tails and isolator switch appear to be in good order - no sign of overheating. Earthing / Bonding in good condition.; New iring colours 12 years**

Description of premises: **Domestic**

Estimated age of electrical installation	**12**yrs	Evidence of additions or alterations	**No**	If Yes, estimated age	yrs	Estimated age of the wiring system	**12** yrs

Overall assessment of the installation in terms of its suitability for continued use: **SATISFACTORY*** with C3 recommendations

** Observation classified as 'Improvement recommended (code C3)' (see PART 6) should be considered*

PART 4 : DECLARATION

INSPECTION AND TESTING

I, being the person responsible for the inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described in PART 6, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (PART 5) and the attached Schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in PART 6 of this report

Name On behalf of the contractor identified in PART 1	**David Robinson** Electrician	Signature		Date	**27/11/2024**

I further RECOMMEND, subject to the necessary remedial action being taken, that the installation is inspected and tested by **20/11/2027 or change of tenancy** (3 Years)

Reason for recommendation: **Engineer judgement**

The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life.
The period should be agreed between relevant parties.

REVIEWED BY THE REGISTERED QUALIFIED SUPERVISOR FOR THE CONTRACTOR

Name On behalf of the contractor identified in PART 1	**Gary Barnfather** Qualifying Supervisor	Signature		Date	**29/11/2024**

PART 5 : OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

CODES:	One of the following codes, as appropriate, has been allocated to each of the observations made below to indicate to the person(s) responsible for the electrical installation the degree of urgency for remedial action.	**Code C1** 'Danger present' Risk of injury. Immediate remedial action required.	**Code C2** 'Potentially dangerous' Urgent remedial action required	**Code C3** 'Improvement recommended'	**Code FI** 'Further investigation required'

Referring to the Schedule of Items Inspected (see PART 9), and the attached Schedule of Circuit Details and Test Results (see PART 11), and subject to the limitations specified in PART 6:

The following observations and recommendations for action are made

ITEM	OBSERVATION(S)	COMMENTS/LOCATION REFERENCE	CODE	COMPLETED

General Observations

ITEM	OBSERVATION(S)	COMMENTS/LOCATION REFERENCE	CODE	COMPLETED
1	DB-LP1, DBLP2, DB-LP3 CIRCUITS EXCEED MAX ZS READINGS FITTED WITH RCBOS. WHICH SATISFIES REG 411.4.204		C3	
2	EXTERNAL DB TIMESWITCH 2 FAULTY DISCONNECTED IN DB		C3	
3	DB-LP2 10L3 FAULTY 32A RCBO		C3	
4	DB LP2 3L2 LIFT LOBBY LIGHTTS NO R1+R2		C2	Yes

PART 6 : DETAILS AND LIMITATIONS OF INSPECTION AND TESTING

The inspection and testing has been carried out in accordance with BS7671:2018, as amended to 2024. Cables concealed within trunking and conduits, concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected unless specifically agreed between the Client and the Inspector prior to the inspection.

Details of the installation covered by this report	**Community Centre. All fixed power and lighting.; Full test**		
Agreed limitations including the reasons, if any, on the inspection and testing (653.2)	**Cables accessible from loft hatch have been visually inspected. Polarity confirmed at all accessible socket outlets. Insulation resistance tested line/neutral to earth only. No removal of white goods, test conducted at closest accessible point and earth continuity proven at equipment.;**	Agreed with	**Mark Fort - Electrical Manager**
Extent of sampling	**Detailed inspection/dismantling of one item per circuit per room or location.**		
Operational limitations including the reasons	**Zs calculated from Zs = Ze + (R1 + R2);**		

PART 7 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements
TN-C-S

Supply protective device

BS(EN)	**Sealed**	
Type	**Sealed**	
Rated current	**Sealed**	A

Number and type of live conductors
AC 1-Phase 2 wire

Primary Supply Conductor Material	**Copper**	
Primary Supply Conductor CSA	**6**	mm²
Confirmation of supply polarity	√	
Other sources of supply (Schedule of Test Results)	**NA**	

Nature of Supply Parameters

Nominal line voltage U [1]	**N/A**	V
Nominal line voltage to Earth (Uo) [1]	**230v**	V
Nominal frequency (f) [1]	**50**	Hz
Prospective fault current (I_{pf}) [2]	**0.905**	kA
External loop impedance (Z_e) [2]	**0.13**	Ω

[1] By enquiry
[2] By enquiry or by measurement

PART 8 : PARTICULARS OF THE INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing
Distributors facility

Where an earth electrode is used:

Type (e.g. Rod(s), Tapes etc.)	**N/A**	
Location	**N/A**	
Method of measurement	**N/A**	
Electrode resistance to Earth	**N/A**	Ω

Other

Number of smoke alarms	**0**

Location	Type	Expiry

Main protective conductors

Earthing conductor:

Conductor material	**Copper**	
csa	**6**	mm²
Connection/continuity verified	√	

No sign of thermal damage

Main protective bonding conductors:

Conductor material	**Copper**	
csa	**10**	mm²
Connection/continuity verified	√	

Main protective bonding connections

Water installation pipes	**N/A**
Gas installation pipes	**N/A**
Structural steel	√
Oil installation pipes	N/A
Lightning protection	**N/A**
District heating	N/A
Other incoming services:	**N/A**

N/A

Main Switch / Switch-Fuse / Circuit-Breaker / RCD

Type BS(EN)	**60947-3**		
Location	**Switch Room**		
No of poles	**2**	Rating/setting of device (A)	**N/A**
Current rating (A)	**125**	Voltage rating (V)	**230 v**
Conductor CSA	**6**	mm²	

Where an RCD is used as the main switch:

RCD rated residual operating current ($I_{\Delta n}$)	**N/A**mA
Measured operating time	**N/A**ms
Rated time delay	**N/A** ms

PART 9 : SCHEDULE OF ITEMS INSPECTED

OUTCOMES	Acceptable condition	√	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A	Further investigation required	FI

ITEM NO	DESCRIPTION	OUTCOME	Comments/Location reference
1.0	**INTAKE EQUIPMENT (visual inspection only)**		
	An outcome against an item in section 1.1, other than access to live parts, should not be used to determine the overall assessment of the installation. *Where inadequacies are identified, the person ordering the report or the duty holder must be informed and it is highly recommended that the person ordering the report informs the appropriate authority* *For this section only, where inadequacies are found, and 'X' should be selected. An observation will be added.*		
1.1	**Distributor / supplier intake equipment**		
	a) Service cable	√	
	b) Service head	√	
	c) Earthing arrangements	√	
	e) Meter tails	√	
	f) Metering equipment	√	
	g) Isolator (where present)	√	
	NOTE: Where inadequacies in the intake equipment are encountered, which may result in a dangerous or potentially dangerous situation, the person ordering the work and/or duty holder must be informed. It is strongly recommended that the person ordering the work informs the appropriate authority.		
	Person ordering work/duty holder notified (select √ or N/A)	**N/A**	
1.2	Consumer's isolator (where present)	√	
1.3	Consumer's meter tails	√	
2.0	**PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)**		
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	**METHODS OF PROTECTION**		
3.1	**Automatic disconnection of supply (ADS)**		
	a) Main earthing / bonding arrangement (411.3; Chap. 54)	√	
	b) Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2), or presence of installation earth electrode arrangement (542.1.2.3)	√	
	c) Adequacy of earthing conductor size (542.3; 543.1.1)	√	
	d) Adequacy of earthing conductor connections (542.3.2)	√	
	e) Accessibility of earthing conductor connections (543.3.2)	√	
	f) Adequacy of main protective bonding conductor sizes (544.1.1)	√	
	g) Adequacy and location of main protective bonding conductor connections (544.1.2)	√	
	h) Accessibility of all protective bonding connections (543.3.2)	√	
	i) Provision of earthing / bonding labels at all appropriate locations (514.13.1)	√	
3.2	FELV - requirements satisfied (411.7)	N/A	
3.3	Other methods of protection	N/A	
	Where any of the methods listed below are employed, details should be provided in the comments		
	a) Non-conducting location (418.1)	N/A	
	b) Earth-free local equipotential bonding (418.2)	N/A	
	c) Electrical separation (413; 418.3)	N/A	
	d) Double insulation (412)	N/A	
	e) Reinforced insulation (412)	N/A	
	f) Provisions where automatic disconnection of supply is not feasible (419)	N/A	
4.0	**DISTRIBUTION EQUIPMENT, INCLUDING CONSUMER UNITS AND DISTRIBUTION BOARDS**		
4.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)	√	
4.2	Security of fixing (134.1.1)	√	
4.3	Condition of insulation of live parts (416.1)	√	
4.4	Adequacy security of barriers or enclosures (416.2.3)	√	
4.5	Condition of enclosure(s) in terms of IP rating etc (416.2)	√	
4.6	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)	√	
4.7	Enclosure not damaged/deteriorated so as to impair safety (651.2)	√	
4.8	Presence and effectiveness of obstacles (417.2)	N/A	
4.9	Presence of main linked switch(s) where required (462.1, 462.1.201, 462.2)	√	
4.10	Operation of main switch(es) (functional check) (643.10)	√	
4.11	Manual operation of circuit-breakers, RCDs and AFDDs to prove disconnection/functionality (643.10)	√	
4.12	Confirmation that integral test button / switch causes RCD(s) to trip when operated (functional check) (643.10)	√	
4.13	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.4.5; 411.5.2; 531.2)	N/A	
4.14	RCD(s) provided for additional protection / requirements, where required - includes RCBOs (411.3.3; 415.1)	√	
4.15	Presence of RCD six-monthly test notice, where required (514.12.2)	√	
4.16	Confirmation that integral test button / switch, where present, causes AFDD to trip when operated (643.10)	N/A	
4.17	Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)	√	
4.18	Presence of alternative supply warning notice at or near equipment, where required (514.15)	N/A	
4.19	Presence of next inspection recommendation label, where required (514.12.1)	√	
4.20	Presence of other required labelling (please specify) (514)	N/A	
4.21	Compatibility of protective devices, bases and other components; correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (432; 433; 434)	√	
4.22	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	√	
4.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	√	
4.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	√	
4.25	Torque test of all connections carried out	√	
5.0	**DISTRIBUTION / FINAL CIRCUITS**		
5.1	Identification of conductors (514.3)	√	
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	√	
5.3	Condition of insulation of live parts (416.1)	√	
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	N/A	
5.5	Suitability of containment systems for continued use (including flexible conduit) (522)	√	
5.6	Cables correctly terminated in enclosures (526)	√	
5.7	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	√	

5.8	Examination of cables for signs of unacceptable thermal or mechanical damage / deterioration (421.1; 522.6)	√	
5.9	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (523)	√	
5.10	Adequacy of protective devices; type and rated current for fault protection (411.3)	√	
5.11	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)	√	
5.12	Coordination between conductors and overload protective devices (433.1; 533.2.1)	√	
5.13	Cable installation methods / practices with regard to the type and nature of installation and external influences (522)	√	
5.14	Where exposed to direct sunlight, cable of a suitable type (522.11.1)	N/A	
5.15	**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)**		
	a) Installed in prescribed zones (see Section D. Extent and limitations) (522.6.202)	LIM	
	b) Incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D) (522.6.201; 522.6.204)	LIM	
5.16	Provision of fire barriers, sealing arrangements and protection against thermal effects (527)	√	
5.17	Band II cables segregated / separated from Band I cables (528.1)	LIM	
5.18	Cables segregated / separated from non-electrical services (528.3)	√	
5.19	Condition of circuit accessories (651.2)	√	
5.20	Suitability of circuit accessories for external influences (512.2)	√	
5.21	Single-pole switching or protective devices in line conductors only(132.14.1; 530.3.3)	√	
5.22	Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment - identify / record numbers and locations of items inspected (526)	√	
5.23	Presence, operation and correct location of appropriate devices for isolation and switching (Chap. 46; 537)	√	
5.24	General condition of wiring system (651.2)	√	
5.25	Temperature rating of cable insulation (522.1.1; Table 52.1)	√	
6.0	**FINAL CIRCUITS**		
6.1	Identification of conductors (514.3)	√	
6.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	√	
6.3	Condition of insulation of live parts (416.1)	√	
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	N/A	
6.5	Suitability of containment systems for continued use (including flexible conduit) (522)	√	
6.6	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (523)	√	
6.7	Adequacy of protective devices; type and rated current for fault protection (411.3)	√	
6.8	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)	√	
6.9	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)	√	
6.10	Wiring system(s) appropriate for the type and nature of the installation and external influences (522)	√	
6.11	Where exposed to direct sunlight, cable of a suitable type (522.11.1)	N/A	
6.12	**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) -**		
	a) Installed in prescribed zones (see Section D. Extent and limitations) (522.6.202)	LIM	
	b) Incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D) (522.6.201; 522.6.204)	LIM	
6.13	**Provision of additional protection by RCD having rated residual operating current not exceeding 30 mA -**		
	a) *For all socket-outlets of rating 32 A or less (411.3.3)	√	
	b) *For the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	√	
	c) *For cables concealed in walls at a depth of less than 50 mm (522.6.202)	√	
	d) *For cables concealed in walls / partitions containing metal parts regardless of depth (522.6.203)	√	
	e) *For final circuits supplying luminaires within domestic (household) premises (411.3.4)	√	
	** Older installations designed prior to BS 7671: 2018 may not have required RCDs for additional protection.*		
6.14	Provision of fire barriers, sealing arrangements and protection against thermal effects (527)	√	
6.15	Band II cables segregated / separated from Band I cables (528.1)	LIM	

6.16	Cables segregated / separated from non-electrical services (528.3)	√	
6.17	**Termination of cables at enclosures - identify / record numbers and locations of items inspected (526) -**		
	a) Connection under no undue strain (526.6)	√	
	b) No basic insulation of a conductor visible outside enclosure (526.8)	√	
	c) Connections of live conductors adequately enclosed (526.5)	√	
	d) Adequately connected at point of entry to enclosure (glands, bushes, etc.)(522.8.5)	√	
6.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2)	√	
6.19	Suitability of accessories for external influences (512.2)	√	
6.20	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	√	
7.0	**ISOLATION AND SWITCHING**		
7.1	**Isolators -**		
	a) Presence and condition of appropriate devices (462; 537.2)	√	
	b) Acceptable location - state if local or remote from equipment in question(462; 537.2.7)	√	
	c) Capable of being secured in the OFF position (462.3)	√	
	d) Correct operation verified (643.10)	√	
	e) Clearly identified by position and / or durable marking (537.2.7)	√	
	f) Warning label posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	√	
7.2	**Switching off for mechanical maintenance -**		
	a) Presence and condition of appropriate devices (464.1; 537.3.2)	√	
	b) Capable of being secured in the OFF position where not under continuous supervision (464.2)	√	
	c) Correct operation verified (643.10)	√	
	d) Clearly identified by position and / or durable marking (537.3.2.4)	√	
7.3	**Emergency switching off -**		
	a) Presence and condition of appropriate devices (465; 537.3.3; 537.4)	√	
	b) Readily accessible for operation where danger might occur (537.3.3.6)	√	
	c) Correct operation verified (643.10)	√	
	d) Clearly identified by position and / or durable marking (537.3.3.5; 537.3.3.6; 537.4.3; 537.4.4)	√	
7.4	**Functional switching -**		
	a) Presence and condition of appropriate devices (537.3.1.1; 537.3.1.2)	√	
	b) Correct operation verified (643.10)	√	
8.0	**CURRENT-USING EQUIPMENT (permanently connected)**		
8.1	Condition of equipment in terms of IP rating (416.2; 422.3; 422.4; 522.4)	√	
8.2	Equipment does not constitute a fire hazard (421)	√	
8.3	Enclosure not damaged/deteriorated so as to impair safety 134.1.1; 416.2)	√	
8.4	Suitability for the environment and external influences (512.2)	√	
8.5	Security of fixing 134.1.1)	√	
8.6	Cable entry holes in ceiling above luminaires sized or sealed so as to restrict spread of fire - list number and location of luminaires inspected in comments (527.2)	√	
8.7	**Recessed luminaires (downlighters)**		
	a) Correct type of lamps fitted (559.3.1)	N/A	
	b) Installed to minimize the build-up of heat (421.1.2)	N/A	
	c) No sign of overheating to surrounding building fabric (559.4.1)	N/A	
	d) No signs of overheating to conductors/terminations (526.1)	N/A	
9.0	**PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**		
	Where special installations or locations relating to a particular Section of Part 7, an additional Inspection Schedule(s) should be provided on separate pages		
9.1	**Location(s) containing a bath or shower -**		
	a) Additional protection by RCD having rated residual operating current not exceeding 30 mA for all low voltage (LV) circuits serving the location or passing through zones 1 and / or 2 of the location (701.414)	√	
	b) Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	√	
	c) Shaver supply units complying with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A	
	d) Presence of supplementary bonding conductors, unless not required by BS 7671: 2018 (701.415.2)	N/A	
	e) Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1	N/A	
	f) Suitability of equipment for external influences for the installed location in terms of IP rating	√	
	g) Suitability of accessories and control gear etc. for a particular zone (701.512.3)	√	
	h) Suitability of current-using equipment for particular position within the location (701.55)	√	
9.2	**Other special installations or locations -**		
	The inspector should add details of special locations here		
10.0	**PROSUMER'S LOW VOLTAGE ELECTRICAL INSTALLATION(S)**		

	Where elements of a prosuming installation falling within the scope of Chapter 82 are covered by the report, additional schedules detailing the associated inspection and testing should be provided below.		
10.1	Solar PV Panels	**N/A**	
10.2	Wind turbine	**N/A**	
10.3	Electric Vehicle	**N/A**	

Inspected by David Robinson **Signature**

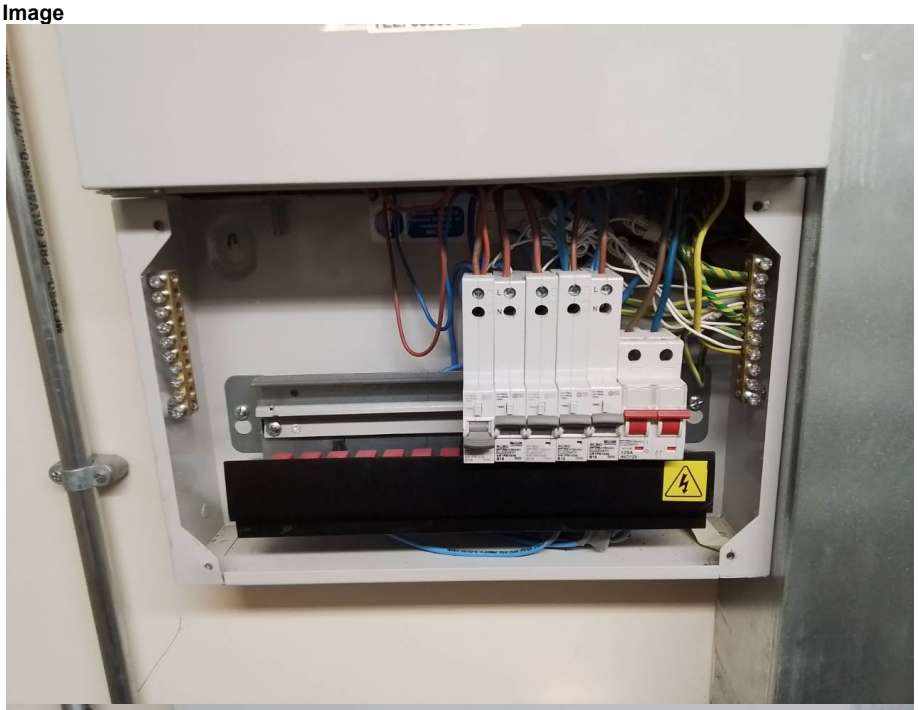
Date 20/11/2024

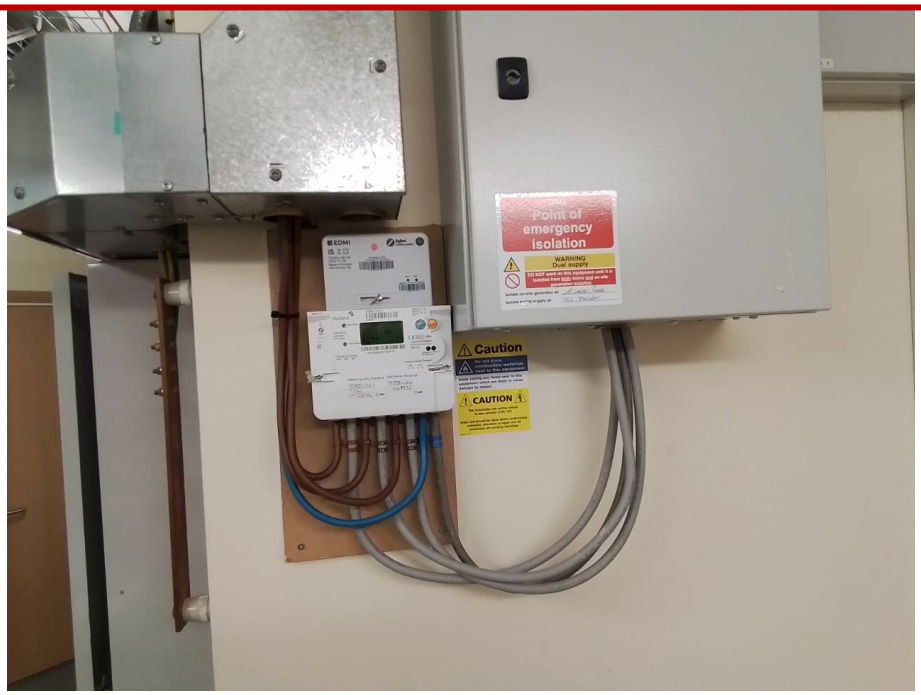
PART 10 : SCHEDULES AND ADDITIONAL PAGES

Schedule of additional records

The attached schedules are part of this document and this report is only valid when they are attached to it. Schedule of items inspected (PART 9) & Schedule of circuit details and test results (PART 11) are attached. This document consists of 18 pages.

GENERAL PHOTOGRAPHS

	Description	Image
1	Inside cu	
2	Cu	

3	**Meter**	

METER PHOTOGRAPHS

Description	Image

PART 11 : SCHEDULE OF CIRCUIT DETAILS and RESULTS

CONSUMER UNIT / DISTRIBUTION BOARD DETAILS

Designation of consumer unit/DB	EXTERNAL DB
Location of consumer unit/DB	SWITCH ROOM
Manufacturer	Dorman Smith
Comment about condition of DB	Satisfactory

Zs at DB (Ω)	0.13		
Prospective fault current at DB (kA)	1.74		
SPD Details	BS(EN) N/A	Type	N/A
Status indicator checked (where functionality indicator is present):			N/A

Details of circuits and/or equipment vulnerable to damage when testing

Electronic equipment; RCBO's; Lamps, transformers, contactors

CODES for type of wiring	(A) Thermoplastic insulated/ sheathed cables	(B) Thermoplastic cables in metallic conduit	(C) Thermoplastic cables in non-metallic conduit	(D) Thermoplastic cables in metallic trunking	(E) Thermoplastic cables in non-metallic trunking	(F) Thermoplastic /SWA cables	(G) Thermosetting/ SWA cables	(H) Mineral insulated cables	(O)

Circuit types: D = Distribution Circuit, F = Final Circuit, R = RCD, M = Main Switch

* CSA of CPC: Cn = Conduit, Ar = Armour, Tr = Trunking, Sh = Sheath, Sb = Split Barrel

Circuit	Circuit Description	Type	Type of wiring (see code)	Reference method (BS7671)	Points served	Circuit Conductor (number & csa) Live (mm²)	Circuit Conductor (number & csa) CPC (mm²)	Max disconnection time permitted by BS7671 (s)	PROTECTIVE DEVICE BS (EN)	PROTECTIVE DEVICE Type	PROTECTIVE DEVICE Rating (A)	PROTECTIVE DEVICE Short circuit capacity (KA)	PROTECTIVE DEVICE Maximum Zs permitted by BS7671	CONTINUITY (Ω) RING FINAL CIRCUITS ONLY Measured end to end) r 1	r n	R2	CONTINUITY (Ω) ALL CIRCUITS (Complete at least one column) R1 + R2	R2	INSULATION RESISTANCE Live/Live (MΩ)	Live/Earth (MΩ)	Test voltage DC	Polarity	Maximum measured earth fault loop impedance Zs (Ω)	RCD BS(EN)	RCD Type	RCD OPERATING CURRENT I Δn	RCD Rating (A)	RCD Operating Time (IΔ)(ms)	RCD Test Button	AFDD Test Button
1	LIGHTS BUILDING 1	F	A	100	11	2.5	1.5	0.4	61009	C	10	10	2.19	-	-	-	0.50	-	LIM	>200	250	√	0.63	61009	A/C	30	10	28	√	N/A
2	LIGHTS BUILDING 2	F	A	100	13	2.5	1.5	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	1.26	N/A	LIM	>200	250	√	1.39	61009	A/C	30	10	28.8	√	N/A
3	LIGHTS BOLLARDS	F	A	D	11	2.5	1.5	0.4	61009	C	10	6	2.19	N/A	N/A	N/A	1.45	-	LIM	>200	250	√	1.58	61009	A/C	30	10	28.3	√	N/A
4	LIGHTS BOLLARDS	F	F	100	5	2.5	2.5	0.4	61009	C	10	10	2.19	-	-	-	1.69	-	LIM	>200	250	√	1.74	61009	A/C	30	10	28.4	√	N/A
5	LIGHTS CAR PARK COLUMNS	F	A	D	1	2.5	2.5	0.4	61009	C	10	10	2.19	-	-	-	2.03	-	LIM	>200	250	√	2.16	61009	A/C	30	10	28.1	√	N/A
6	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
7	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
8	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
9	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
10	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
11	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
12	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A

TO BE COMPLETED ONLY IF THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this board is from		MSB 6L1 SWITCH ROOM							
Overcurrent protective device for the distribution circuit	BS EN	60947-2	Type	N/A	Nominal voltage (V)	400V	Rating	32	No of phases	3
Associated RCD (if any)	BS EN	N/A	Type	N/A	No of poles	N/A	Operating current at IΔn	N/A	Operating time (ms)	N/A
Characteristics at this DB	Confirmation of supply polarity	√			Phase sequence confirmed (where appropriate)	N/A	Zs	0.13	Prospective fault current at DB Ipf	1.74

TEST INSTRUMENT (SERIAL NUMBERS) USED

MULTI-FUNCTION	CONTINUITY	INSULATION RESISTANCE	EARTH ELECTRODE RESISTANCE	EARTH FAULT LOOP IMPEDANCE	RCD
84153678	N/A	N/A	N/A	N/A	N/A

TESTED BY

Signature

Name **David Robinson**
Position **Electrician**
Date of testing **20/11/2024**

PART 11 : SCHEDULE OF CIRCUIT DETAILS and RESULTS

CONSUMER UNIT / DISTRIBUTION BOARD DETAILS

Designation of consumer unit/DB	PLANT ROOM DB
Location of consumer unit/DB	PLANT ROOM
Manufacturer	DORMIN SMITH
Comment about condition of DB	SATISFACTORY

Zs at DB (Ω)	0.19		
Prospective fault current at DB (kA)	1.74		
SPD Details	BS(EN) N/A	Type	N/A
Status indicator checked (where functionality indicator is present):			N/A

Details of circuits and/or equipment vulnerable to damage when testing
RCBO's; Electronic equipment;

CODES for type of wiring	(A) Thermoplastic insulated/ sheathed cables	(B) Thermoplastic cables in metallic conduit	(C) Thermoplastic cables in non-metallic conduit	(D) Thermoplastic cables in metallic trunking	(E) Thermoplastic cables in non-metallic trunking	(F) Thermoplastic /SWA cables	(G) Thermosetting/ SWA cables	(H) Mineral insulated cables	(O)

Circuit types: D = Distribution Circuit, F = Final Circuit, R = RCD, M = Main Switch
* CSA of CPC: Cn = Conduit, Ar = Armour, Tr = Trunking, Sh = Sheath, Sb = Split Barrel

Circuit	Circuit Description	Type	Type of wiring (see code)	Reference method (BS7671)	Points served	Circuit Conductor (number & csa) Live (mm²)	Circuit Conductor (number & csa) CPC (mm²)	Max disconnection time permitted by BS7671 (s)	PROTECTIVE DEVICE BS (EN)	PROTECTIVE DEVICE Type	PROTECTIVE DEVICE Rating (A)	PROTECTIVE DEVICE Short circuit capacity (KA)	PROTECTIVE DEVICE Maximum Zs permitted by BS7671	CONTINUITY (Ω) RING FINAL CIRCUITS ONLY Measured end to end) r 1	r n	R2	CONTINUITY (Ω) ALL CIRCUITS (Complete at least one column) R1 + R2	R2	INSULATION RESISTANCE Live/Live (MΩ)	Live/Earth (MΩ)	Test voltage DC	Polarity	Maximum measured earth fault loop impedance Zs (Ω)	RCD BS(EN)	RCD Type	RCD OPERATING CURRENT I Δn	RCD Rating (A)	RCD Operating Time (IΔ)(ms)	RCD Test Button	AFDD Test Button
1L1	LIGHTING	F	B	B	7	1.5	1.5	0.4	60898	B	10	10	4.37	N/A	N/A	N/A	0.37	N/A	LIM	>200	250	√	0.53		N/A	N/A		N/A	N/A	N/A
1L2	CONTROL PANEL	F	B	B	1	4	4	0.4	60898	B	20	10	2.19	N/A	N/A	N/A	0.30	N/A	LIM	>200	250	√	0.46		N/A	N/A		N/A	N/A	N/A

1L3	BOILER 1	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.36	N/A	LIM	>200	250	√	0.73		N/A	N/A		N/A	N/A	N/A
2L1	BOILER 2	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.36	N/A	LIM	>200	250	√	0.63		N/A	N/A		N/A	N/A	N/A
2L2	BOILER 3	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.36	N/A	LIM	>200	250	√	0.63		N/A	N/A		N/A	N/A	N/A
2L3	PRESURISATIO N UNIT	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.42	N/A	LIM	>200	250	√	0.68		N/A	N/A		N/A	N/A	N/A
3L1	SECONDARY HWS PUMP	F	B	B	1	2.5	2.5	0.4	60898	B	16	6	2.73	N/A	N/A	N/A	0.38	N/A	LIM	>200	250	√	0.64		N/A	N/A		N/A	N/A	N/A
3L2	SECONDARY HWS PUMP	F	B	B	1	2.5	2.5	0.4	60898	B	16	6	2.73	N/A	N/A	N/A	0.37	N/A	LIM	>200	250	√	0.63		N/A	N/A		N/A	N/A	N/A
3L3	PLANT ROOM SOCKETS	F	B	B	3	4	4	0.4	60898	B	32	10	1.37	0.18	0.18	0.18	0.09	N/A	LIM	>200	250	√	0.35		N/A	N/A		N/A	N/A	N/A
5L1	CHP PANEL	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.27	N/A	LIM	>200	250	√	0.53		N/A	N/A		N/A	N/A	N/A
5L2	CYLINDER 1	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.46	N/A	LIM	>200	250	√	0.72		N/A	N/A		N/A	N/A	N/A
5L3	HARVESTER PUMP	F	B	B	1	2.5	2.5	0.4	60898	B	16	10	2.73	N/A	N/A	N/A	0.22	N/A	LIM	>200	250	√	0.48		N/A	N/A		N/A	N/A	N/A
6L1	HARVESTOR CONTROL PANEL	F	B	B	1	2.5	2.5	0.4	61009	C	16	10	1.37	N/A	N/A	N/A	0.39	N/A	LIM	>200	250	√	0.65	61009	A/C	30	16	28.7	√	N/A
6L2	CYLINDER 2	F	B	B	1	2.5	2.5	0.4	60898	B	6	10	7.28	N/A	N/A	N/A	0.36	N/A	LIM	>200	250	√	0.62		N/A	N/A		N/A	N/A	N/A
6L3	SOLENOID VALUE	F	B	B	1	2.5	2.5	0.4	60898	B	10	6	4.37	N/A	N/A	N/A	0.33	N/A	LIM	>200	250	√	0.59		N/A	N/A		N/A	N/A	N/A
4L1-4L3	PRIMARY HWS PUMP	F	B	B	1	2.5	1.5	0.4	60898	B	16	6	2.73	N/A	N/A	N/A	0.10	N/A	LIM	>200	250	√	0.36		N/A	N/A		N/A	N/A	N/A

TO BE COMPLETED ONLY IF THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this board is from: **MSB 4L1-4L3 SWITCH ROOM**

Overcurrent protective device for the distribution circuit	BS EN	**60947-2**	Type	**N/A**	Nominal voltage (V)	**400V**	Rating	**63**	No of phases	**3**
Associated RCD (if any)	BS EN	**N/A**	Type	**N/A**	No of poles	**N/A**	Operating current at IΔn	**N/A**	Operating time (ms)	**N/A**
Characteristics at this DB	Confirmation of supply polarity	√	Phase sequence confirmed (where appropriate)		√		Zs	**0.19**	Prospective fault current at DB Ipf	**1.74**

TEST INSTRUMENT (SERIAL NUMBERS) USED

MULTI-FUNCTION	CONTINUITY	INSULATION RESISTANCE	EARTH ELECTRODE RESISTANCE	EARTH FAULT LOOP IMPEDANCE	RCD
84153678	N/A	N/A	N/A	N/A	N/A

TESTED BY

Signature 

Name **David Robinson**

Position **Electrician**

Date of testing **20/11/2024**

PART 11 : SCHEDULE OF CIRCUIT DETAILS and RESULTS

CONSUMER UNIT / DISTRIBUTION BOARD DETAILS

Designation of consumer unit/DB: **DB-LP2**

Location of consumer unit/DB: **FIRST FLOOR STORES**

Manufacturer: **DORMIN SMITH**

Comment about condition of DB: **SATISFACTORY**

Zs at DB (Ω): **0.16**

Prospective fault current at DB (kA): **1.74**

SPD Details BS(EN): **N/A** Type: **N/A**

Status indicator checked (where functionality indicator is present): **N/A**

Details of circuits and/or equipment vulnerable to damage when testing: **RCBO's; Electronic equipment;**

CODES for type of wiring	(A) Thermoplastic insulated/ sheathed cables	(B) Thermoplastic cables in metallic conduit	(C) Thermoplastic cables in non-metallic conduit	(D) Thermoplastic cables in metallic trunking	(E) Thermoplastic cables in non-metallic trunking	(F) Thermoplastic /SWA cables	(G) Thermosetting/ SWA cables	(H) Mineral insulated cables	(O)

Circuit types: D = Distribution Circuit, F = Final Circuit, R = RCD, M = Main Switch

* CSA of CPC: Cn = Conduit, Ar = Armour, Tr = Trunking, Sh = Sheath, Sb = Split Barrel

						Circuit Conductor (number & csa)			PROTECTIVE DEVICE					CONTINUITY (Ω)					INSULATION RESISTANCE					RCD						AFDD
														RING FINAL CIRCUITS ONLY Measured end to end)			ALL CIRCUITS (Complete at least one column)													
Circuit	Circuit Description	Type	Type of wiring (see code)	Reference method (BS7671)	Points served	Live (mm^2)	CPC (mm^2)	Max disconnection time permitted by BS7671 (s)	BS (EN)	Type	Rating (A)	Short circuit capacity (KA)	Maximum Zs permitted by BS7671	r 1	r n	R2	R1 + R2	R2	Live/Live (MΩ)	Live/Earth (MΩ)	Test voltage DC	Polarity	Maximum measured earth fault loop impedance Zs (Ω)	BS(EN)	Type	RCD OPERATING CURRENT I Δn	Rating (A)	Operating Time (Δ)(ms)	Test Button	Test Button
1L1	CORRIDOR LIGHTS	F	A	100	9	1.5	1.5	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	2.37	N/A	LIM	>200	250	√	2.53	61009	A/C	30	10	28.7	√	N/A
1L2	CORRIDOR LIGHTS	F	A	100	9	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	2.81	N/A	LIM	>200	250	√	2.97	61009	A/C	30	10	28.6	√	N/A
1L3	LIGHTS DRYING RM REFUSE	F	A	100	8	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	1.10	N/A	LIM	>200	250	√	1.36	61009	A/C	30	10	28.6	√	N/A
2L1	CORRIDOR LIGHTING	F	A	100	9	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	2.61	N/A	LIM	>200	250	√	2.77	61009	A/C	30	10	28.8	√	N/A
2L2	CORRIDOR LIGHTNG	F	A	100	12	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	1.78	N/A	LIM	>200	250	√	1.94	61009	A/C	30	10	28.9	√	N/A
2L3	CORRIDOR LIGHTING	F	A	100	8	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	1.67	N/A	LIM	>200	250	√	1.83	61009	A/C	30	10	28.6	√	N/A
3L1	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
3L2	LIFT LOBBY LIGHTING	F	A	100	9	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	0.56	N/A	LIM	>200	250	√	0.72	61009	A/C	30	10	28.8	√	N/A
3L3	CORRIDOR LIGHTING	F	A	100	9	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	1.99	N/A	LIM	>200	250	√	2.15	61009	A/C	30	10	28.8	√	N/A

4L1	STAR CASE LIGHTING 3	F	A	100	9	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	3.59	N/A	LIM	>200	250	√	3.75	61009	A/C	30	6	28.7	√	N/A
4L2	STAIR CASE LIGHTING 2	F	A	100	17	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	3.50	N/A	LIM	>200	250	√	3.66	61009	A/C	30	10	28.7	√	N/A
4L3	STAIR CASE LIGHTING 1	F	A	100	17	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	2.46	N/A	LIM	>200	250	√	2.62	61009	A/C	30	10	28.2	√	N/A
5L1	LIGHTING CORRIDOR CONTROLS	F	A	100	1	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	0.55	N/A	LIM	>200	250	√	0.71	61009	A/C	30	10	28.7	√	N/A
5L2	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
5L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
9L1	CLEANERS SOCKETS	F	A	100	3	4	1.5	0.4	61009	C	32	6	0.68	0.80	0.80	2.04	0.71	N/A	LIM	>200	250	√	0.87	61009	A/C	30	32	28.7	√	N/A
9L2	CLEANERS SOCKETS	F	A	100	3	4	1.5	0.4	61009	C	10	6	2.19	0.54	0.54	1.33	0.46	N/A	LIM	>200	250	√	0.64	61009	A/C	30	10	28.8	√	N/A
9L3	CLEANERS SOCKETS	F	A	100	3	1.5	1	0.4	61009	C	10	10	2.19	0.56	0.56	1.43	0.49	N/A	LIM	>200	250	√	0.64	61009	A/C	30	32	28.5	√	N/A
10L1	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
10L2	MAG LOCK PSU	F	A	100	1	2.5	1.5	0.4	61009	C	16	10	1.37	N/A	N/A	N/A	0.10	N/A	LIM	>200	250	√	0.26	61009	A/C	30	16	28.6	√	N/A
10L3	LAUNDRY MACHINE	F	A	100	1	4	1.5	0.4	61009	C	20	10	1.09	N/A	N/A	N/A	0.59	N/A	LIM	>200	250	√	0.74	61009	A/C	30	20	28.8	√	N/A
11L1	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
11L2	FIRE ALARM REPEATER	F	A	100	1	2.5	1.5	0.4	61009	C	16	10	1.37	N/A	N/A	N/A	0.32	N/A	LIM	>200	250	√	0.48	61009	A/C	30	16	23.1	√	N/A
11L3	LAUNDRY MACHINE	F	A	100	1	4	1.5	0.4	61009	C	20	10	1.09	N/A	N/A	N/A	0.51	N/A	LIM	>200	250	√	0.67	61009	A/C	30	20	28.6	√	N/A
12L1	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
12L2	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
12L3	LAUNDRY SOCKETS	F	A	100	4	4	1.5	0.4	61009	C	32	10	0.68	0.33	0.33	0.84	0.29	N/A	LIM	>200	250	√	0.45	61009	A/C	30	32	28.5	√	N/A
13L1	CORRIDOR HEATER	F	A	100	3	4	1.5	0.4	61009	B	32	6	1.37	0.58	0.58	1.48	0.37	N/A	LIM	>200	250	√	0.53	61009	A/C	30	32	28.5	√	N/A
13L2	CORRIDOR HEATER	F	A	100	2	4	1.5	0.4	61009	C	20	10	1.09	N/A	N/A	N/A	0.69	N/A	LIM	>200	250	√	0.85	61009	A/C	30	20	28.3	√	N/A
13L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
6L1-6L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
7L1-7L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A

8L1-8L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
14L1 - 14L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
15L1 - 15L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
16L1 - 16L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A

Circuit 1L1 - CORRIDOR LIGHTS - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 2.53. Value is outside of tolerance Circuit 1L2 - CORRIDOR LIGHTS - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 2.97. Value is outside of tolerance Circuit 2L1 - CORRIDOR LIGHTING - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 2.77. Value is outside of tolerance Circuit 4L1 - STAR CASE LIGHTING 3 - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 3.75. Value is outside of tolerance Circuit 4L2 - STAIR CASE LIGHTING 2 - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 3.66. Value is outside of tolerance Circuit 4L3 - STAIR CASE LIGHTING 1 - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 2.62. Value is outside of tolerance Circuit 9L1 - CLEANERS SOCKETS - Remarks CLEANERS SOCKETS EXCEED MAX ZS CIRCUIT INSTALLED WITH RCBO, CONTINUITY TESTS FINE, SATISFES REG 411.4.204
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:0.68, Measured 0.87. Value is outside of tolerance

TO BE COMPLETED ONLY IF THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this board is from: **MSB 2L1-2L3 SWITCH ROOM**

Overcurrent protective device for the distribution circuit	BS EN	**60947-2**	Type	**N/A**	Nominal voltage (V)	**400V**	Rating	**63**	No of phases	**3**
Associated RCD (if any)	BS EN	**N/A**	Type	**N/A**	No of poles	**N/A**	Operating current at IΔn	**N/A**	Operating time (ms)	**N/A**
Characteristics at this DB	Confirmation of supply polarity	√	Phase sequence confirmed (where appropriate)	√			Zs	**0.16**	Prospective fault current at DB Ipf	**1.74**

TEST INSTRUMENT (SERIAL NUMBERS) USED

MULTI-FUNCTION	CONTINUITY	INSULATION RESISTANCE	EARTH ELECTRODE RESISTANCE	EARTH FAULT LOOP IMPEDANCE	RCD
84153678	N/A	N/A	N/A	N/A	N/A

TESTED BY

Signature 

Name **David Robinson**
Position **Electrician**
Date of testing **20/11/2024**

PART 11 : SCHEDULE OF CIRCUIT DETAILS and RESULTS

CONSUMER UNIT / DISTRIBUTION BOARD DETAILS

Designation of consumer unit/DB	**DB-LP3**
Location of consumer unit/DB	**FLOOR 3 STORES**
Manufacturer	**DORMIN SMITH**
Comment about condition of DB	**Satisfactory**

Zs at DB (Ω)	**0.17**		
Prospective fault current at DB (kA)	**1.74**		
SPD Details BS(EN)	**N/A**	Type	**N/A**
Status indicator checked (where functionality indicator is present):			**N/A**

Details of circuits and/or equipment vulnerable to damage when testing
Electronic equipment; RCBO's;

CODES for type of wiring	(A) Thermoplastic insulated/ sheathed cables	(B) Thermoplastic cables in metallic conduit	(C) Thermoplastic cables in non-metallic conduit	(D) Thermoplastic cables in metallic trunking	(E) Thermoplastic cables in non-metallic trunking	(F) Thermoplastic /SWA cables	(G) Thermosetting/ SWA cables	(H) Mineral insulated cables	(O)

	Circuit		PROTECTIVE DEVICE	CONTINUITY (Ω)	INSULATION			RCD	

Circuit types: D = Distribution Circuit, F = Final Circuit, R = RCD, M = Main Switch

* CSA of CPC: Cn = Conduit, Ar = Armour, Tr = Trunking, Sh = Sheath, Sb = Split Barrel

Circuit	Circuit Description	Type	Type of wiring (see code)	Reference method (BS7671)	Points served	Conductor (number & csa) Live (mm²)	Conductor (number & csa) CPC (mm²)	a x di	BS (EN)	Type	Rating (A)	Short circuit capacity (KA)	Maximum Zs permitted by BS7671	RING FINAL CIRCUITS ONLY Measured end to end) r 1	r n	R2	ALL CIRCUITS (Complete at least one column) R1 + R2	R2	RESISTANCE Live/Live (MΩ)	Live/Earth (MΩ)	Test voltage DC	o —	axim um mea sure	BS(EN)	Type	RCD OPERATING CURRENT I Δn	Rating (A)	Operating Time (Δ)(ms)	Test Button	F D D Test Button
1L1	LIGHTS CORRIDOR	F	A	100	12	1.5	1	0.4	61009	C	10	10	2.19	-	-	-	1.62	-	LIM	>200	250	√	1.77	61009	A/C	30	10	28.3	√	N/A
1L2	LIGHTS CORRIDOR	F	A	100	12	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	2.98	N/A	LIM	>200	250	√	3.15	61009	A/C	30	10	28.9	√	N/A
1L3	LIGHTS ASSISTED BATH	F	A	100	7	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	1.02	N/A	LIM	>200	250	√	1.19	61009	A/C	30	10	28.2	√	N/A
2L1	CORRIDOR CONTROL LIGHTS	F	A	100	1	1.5	1	0.4	61009	C	10	6	2.19	N/A	N/A	N/A	0.61	N/A	LIM	>200	250	√	0.78	61009	A/C	30	10	28.2	√	N/A
2L2	LIGHT LIFT LOBBY	F	A	100	1	1.5	1	0.4	61009	C	10	10	2.19	N/A	N/A	N/A	0.96	N/A	LIM	>200	250	√	1.13	61009	A/C	30	10	28.3	√	N/A
2L3	LIGHTS CORRIDOR	F	A	100	1	1.5	1	0.4	61009	C	10	6	2.19	N/A	N/A	N/A	2.18	N/A	LIM	>200	250	√	2.35	61009	A/C	30	10	28.9	√	N/A
9L1	CLEANERS SOCKETS	F	A	100	2	4	1.5	0.4	61009	C	32	10	0.68	0.30	0.30	0.76	0.26	N/A	LIM	>200	250	√	0.43	61009	A/C	30	10	28.7	√	N/A
9L2	CLEANERS SOCKETS	F	A	100	2	4	1.5	0.4	61009	C	32	10	0.68	0.59	0.59	1.57	0.54	N/A	LIM	>200	250	√	0.71	61009	A/C	30	32	24.3	√	N/A
9L3	CLEANERS SOCKETS	F	A	100	2	4	1.5	0.4	61009	C	32	10	0.68	0.59	0.59	1.55	0.54	N/A	LIM	>200	250	√	0.71	61009	A/C	30	32	24.3	√	N/A
10L1	HEATING MANIFOLD	F	A	100	2	4	1.5	0.4	61009	B	16	6	2.73	N/A	N/A	N/A	0.43	N/A	LIM	>200	250	√	0.60	61009	A/C	30	16	28.7	√	N/A
10L2	DOOR PSU	F	A	100	1	4	1.5	0.4	61009	C	16	10	1.37	N/A	N/A	N/A	0.03	N/A	LIM	>200	250	√	0.20	61009	A/C	30	16	28.7	√	N/A
10L3	IRS	F	A	100	1	4	1.5	0.4	61009	C	16	10	1.37	N/A	N/A	N/A	0.19	N/A	LIM	>200	250	√	0.36	61009	A/C	30	16	28.7	√	N/A
3L1-3L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
4L1-4L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
5L1-5L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
6L1-6L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
7L1-7L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A
8L1-8L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N/A	N/A

11L1 - 11L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12L1 - 12L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13L1 - 13L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14L1 - 14L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15L1 - 15L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16L1 - 16L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17L1 - 17L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18L1 - 18L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19L1 - 19L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20L1 - 20L3	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit 1L2 - LIGHTS CORRIDOR - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 3.15. Value is outside of tolerance Circuit 2L3 - LIGHTS CORRIDOR - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:2.19, Measured 2.35. Value is outside of tolerance Circuit 9L2 - CLEANERS SOCKETS - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:0.68, Measured 0.71. Value is outside of tolerance Circuit 9L3 - CLEANERS SOCKETS - Remarks Rcbo protected cct
MAXIMUM MEASUREAD EARTH FAULT LOOP IMPEDANCE: Max permitted:0.68, Measured 0.71. Value is outside of tolerance

TO BE COMPLETED ONLY IF THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this board is from: **MSB 3L1 SWITCH ROOM**

Overcurrent protective device for the distribution circuit	BS EN	**60947-2**	Type	**N/A**	Nominal voltage (V)	**400V**	Rating	**63**	No of phases	**3**
Associated RCD (if any)	BS EN	**N/A**	Type	**N/A**	No of poles	**N/A**	Operating current at IΔn	**N/A**	Operating time (ms)	**N/A**
Characteristics at this DB	Confirmation of supply polarity	√	Phase sequence confirmed (where appropriate)		√	Zs	**0.17**	Prospective fault current at DB Ipf	**1.74**	

TEST INSTRUMENT (SERIAL NUMBERS) USED

MULTI-FUNCTION	CONTINUITY	INSULATION RESISTANCE	EARTH ELECTRODE RESISTANCE	EARTH FAULT LOOP IMPEDANCE	RCD
84153678	N/A	N/A	N/A	N/A	N/A

TESTED BY

Signature 

Name **David Robinson**
Position **Electrician**
Date of testing **20/11/2024**

GUIDANCE FOR RECIPIENTS

This Report is an important and valuable document which should be retained for future reference.

1. The purpose of this Report is to confirm, as far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see PART 3). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see PART 9).
2. This Report is only valid if accompanied by the Inspection Schedule(s) and the Schedule(s) of Circuit Details and Test Results.
3. The person ordering the Report should have received the 'original' Report and the inspector should have retained a duplicate.
4. The 'original' Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner/occupier with details of the condition of the electrical installation at the time the Report was issued.
5. PART 6 (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
6. Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in PART 6.
7. For items classified in PART 9 as C1 ('Danger present') the safety of those using the installation is at risk, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.
8. For items classified in PART 9 as C2 ('Potentially dangerous') the safety of those using the installation may be at risk and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
9. Where it has been stated in PART 9 that an observation requires further investigation (code FI) the inspection has revealed an apparent deficiency which may result in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see PART 6).
10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work . The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations'.
11. Where the installation includes a residual current device (RCD) it should be tested six-monthly by pressing the button market 'T' or 'Test'. The device should switch off the supply and should then be switched on to restore the supply. If the device does not switch off the supply when the button is presses, seek expert advice. **For safety reasons it is important that this instruction is followed.**
12. Where the installation includes an arc fault detection device (AFDD) having a manual test facility it should be tested six-monthly by pressing the test button. Where an AFDD has both a test button and automatic test function, manufacturer's instructions shall be followed with respect to test button operation.
13. Where the installation includes a surge protective device (SPD) the status indicator should be checked to confirm it is in operational condition in accordance with manufacturer's information. If the indication shows that the device is not operational, seek expert advice. **For safety reasons it is important that this instruction is followed.**
14. Where the installation includes alternative or additional sources of supply, warning notices should be found at the origin or meter position or, if remote from the origin, at the consumer unit or distribution board and at all points of isolation of all sources of supply.

GUIDANCE FOR RECIPIENTS ON THE CLASSIFICATION CODES

ONLY ONE CLASSIFICATION CODE SHOULD BE GIVEN FOR EACH RECORDED OBSERVATION

Classification code C1 (Danger present)
Where an observation has been given a Classification code C1, the safety of those using the installation is at risk and immediate remedial action is required.
The person responsible for the maintenance of the installation is advised to take action without delay to remedy the observed deficiency in the installation, or to take other appropriate action (such as switching off and isolating the affected part(s) of the installation) to remove the danger. The contractor issuing this report will be able to provide further advice.
'Electrical Danger Notification' forms are available to enable inspectors to record, and then to communicate to the person ordering the report, any dangerous condition discovered.

Classification code C2 (Potentially dangerous)
Classification code C2 indicates that, whilst those using the installation may not be at immediate risk, urgent remedial action is required to remove potential danger. The contractor issuing this report will be able to provide further advice.
It is important to note that the recommendation given for the next inspection date in PART 4 of this report is conditional upon all items which have been given a Classification code C1 and code C2 being remedied immediately and as a matter of urgency, respectively.
It would not be reasonable for the inspector to indicate that the installation is in a satisfactory condition if any observation in this report has been given a code C1 or code C2 classification.

Classification code C3 (Improvement recommended)
Where an observation has been given a Classification code C3, the inspection and/or testing has revealed a non-compliance with the current safety standard which, whilst not presenting immediate or potential danger, would result in a significant safety improvement if remedied. Careful consideration should be given to the safety benefits of improving these aspects of the installation. The contractor issuing this report will be able to provide further advice.

Code FI (Further investigation required without delay)
It should usually be possible for the inspector to attribute a Classification code to each observation without indicating a need for further investigation.
However, where 'FI' has been entered against an observation the inspector considers that further investigation of that observation is likely to reveal danger or potential danger that, due to the agreed extent or limitations of the inspection and/or testing (entered in PART 6), could not be fully identified at the time.
It would not be appropriate for the inspector to indicate that the installation is in a satisfactory condition if there is reasonable doubt as to whether danger or potential danger exists. Consequently, where the inspector has indicated 'Further investigation required without delay' (FI) the overall assessment of the installation (PART 3) should be marked as 'Unsatisfactory'.
If the inspector has indicated that an observation requires further investigation without delay, the person ordering this report is advised to arrange for the contractor issuing the report (or another skilled person or persons competent in such work) to undertake further examination of that aspect of the installation as a matter of urgency, to determine whether or not danger or potential danger exists.

Further information
Further information on the application of Classification codes, primarily aimed at inspectors but of possible interest to persons ordering condition reports, can be found in Electrical Safety First's Best Practice Guide No 4 Electrical installation condition reporting: Classification Codes for domestic and similar electrical installations. The guide can be viewed or downloaded free of charge from www.electricalsafetyfirst.org.uk