REMEDIAL WORKS NOTIFICATION

SALVUS TOTAL SOLUTIONS

DESCRIPTION OF MINOR WORKS

1. Description of the remedial works

All C2 and FI remedial actions completed following 5 year inspection and testing (LTE-001252). Please retain this document alongside test certificate to show a 'Satisfactory' status.

2. Location/Address

Fresh - The Lantern
6 Bolton Street
Liverpool
L3 5AA

3. Date minor works completed: 02/05/2024

4. Details of departures, if any, from BS 7671:2018

No C3 improvements completed.

COMMENTS

All holes in consumer units plugged with metal stops.
Blank modules fitted where required to ensure no access to live components in DBs.
DB flats 52 - Heat damaged accessories replaced with new.
DB flats 19 - double socket outlet replaced with new.
DB flat 6 - faulty FCU replaced with new.
Blanking plates fitted to sockets too close to sinks in rooms 63, 69, 59, 65, 48, 49.
DB Laundry - 6L3 identified as service socket behind dryers.
DB001 - 3 x emergency lights found to have key switch off, reinstated.
DB SG - All circuits verified and labelled inside DB.

PART 3. DECLARATION

I/We certify that the said works do not impair the safety of the existing installation, that the said works have been designed, constructed, inspected and tested in the accordance with BS 7671:2018 (IET Wiring Regulations) amended to N/A and that the said works to the best of My/Our knowledge and belief, at the time of My/Our inspection, the work complied with BS 7671:2018

Name	Bryn Howard	Signature	
For and on behalf of	Salvus Total Solutions Ltd		
		Position	Qualified Supervisor
Address	8a The Courtyard, Mulberry Green Old Harlow, Essex, CM17 0ET	Date	07/05/2024
Registration No.	600246000		

Electrical Installation Condition Report

Unique Certificate No. LTE-001252-EICR

To comply with:

BS 7671: 2018 (Amendment 2: 2022)
Requirement for Electrical Installations
IET Wiring Regulations Eighteenth Edition

The Lantern
6 Bolton Street
Liverpool
L3 5AA

Electrical verification undertaken for:	Fresh
Date inspected:	05 February 2024
Overall assessment:	**Unsatisfactory**

Electrical specification presented by:
Salvus Total Solutions Ltd
8a The Courtyard
Mulberry Green
Old Harlow
CM17 0ET
☎ 01279 964500

Contents of the Report

SALVUS TOTAL SOLUTIONS

Unique Certificate No. LTE-001252-EICR

ELECTRICAL INSTALLATION CONDITION REPORT

Issued in accordance with BS 7671 - Requirements for Electrical Installations

DETAILS OF THE CLIENT

Client:	Fresh	Contract Ref (if any):	The Lantern

Address:

The Lantern, 6 Bolton St, Liverpool L3 5AA

REASON FOR PRODUCING THIS REPORT

To ascertain current condition of electrical installation

Date(s) on which inspection and testing was carried out	05 February 2024

DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Occupier:	Fresh Property Group	Description of premises:	Commercial
		Estimated age of wiring system:	5 years
Address:	The Lantern , 6 Bolton Street , Liverpool , L3 5AA	Evidence of additions / alterations:	Not apparent
		If yes, estimate age:	
Date of last inspection:	14 March 2018	Electrical Installation Certificate No or previous Electrical Installation Condition Report No:	unknown
Installation records available:	N/A	Records held by:	Unknown

EXTENT OF THE INSTALLATION

Extent of the installation covered by this certificate:

Visual and full electrical verification

LIMITATIONS OF THE INSPECTION AND TESTING

Agreed limitations including the reasons (See Regulation 653.2):

No installation resistance on live circuits

Agreed with:	Malcolm Snowden

Operational limitations including the reasons

Insulation resistance

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671: 2018 (Amendment 2: 2022).

It should be noted that cables concealed within trunking and conduits, under floors, in roof spaces and generally within the fabric of the building or underground, have not been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment.

SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety):

unsatisfactory

Overall assessment of the installation in terms of its suitability for continued use:	Unsatisfactory

An unsatisfactory assessment indicates that dangerous (Code C1) and/or potentially dangerous (Code C2) conditions have been identified

RECOMMENDATIONS

Where the overall assessment of the suitability of the installation for continued use above Is stated as UNSATISFACTORY, I/we recommend that any observations classified as 'Danger present' (Code C1) or 'Potentially dangerous' (Code C2) are acted upon as a matter or urgency.

Investigation without delay is recommended for observations identified as 'Further investigation required' (code FI).

Observations classified as 'Improvement recommended' (Code C3) should be given due consideration.

It is recommended that the installation is further inspected & tested:	before 05 February 2029
For the following reason:	Student Accommodation

DECLARATION

I/We being the person(s) responsible for the inspection & testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection & testing, hereby declare that the information in this report, including the observations and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the extent and limitations stated in this report.

INSPECTED AND TESTED BY:

Name	Lee Twaddle	For & on behalf of:	Salvus Total Solutions Ltd
Position	Electrical Supervisor	Address:	8a The Courtyard Old Harlow Mulberry Green CM17 0ET 01279 964500 info@salvustotalsolutions.co.uk
Date	05 February 2024		
Signature			
Enrolment No.:	33857 Branch No.:	Accredited Body:	NICEIC

REPORT AUTHORISED FOR ISSUE BY:

Name	Lee Twaddle	For & on behalf of:	Salvus Total Solutions Ltd
Position	Electrical Supervisor	Address	8a The Courtyard Mulberry Green Old Harlow CM17 0ET 01279964500 Info@salvustotalsolutions.co.uk
Date	06 February 2024		
Signature			
Enrolment No.:	33857 Branch No.:	Accredited Body:	NICEIC

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	3-Phase (4-wire)			

Nature of Supply Parameters

Nominal voltage(s), U_0	400V	Nominal frequency, f	50Hz	Number of supplies	1	Phase sequence confirmed:	✓
U	400V	External earth fault loop impedance, Z_e	0.13Ω	Prospective fault current, I_{pf}	1.78kA	Supply polarity confirmed:	✓
Primary Supply Overcurrent Protective Device(s)		N/V N/A		Rated current	800A	Short-circuit capacity	50kA

Other sources of supply:

None

PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing	Supplier's facility	Maximum Demand (Load):	800A x 3 50KA
Method of Fault Protection	ADS		

Main Protective Conductors

Earthing Conductor	Conductor material	Copper	Conductor csa	120mm²	Continuity check	✓
Main protective bonding conductors	Conductor material	Copper	Conductor csa	25mm²	Continuity check	✓
Bonding of extraneous-conductive parts	Water installation pipes:	✓	Gas installation pipes:	✓	Oil service:	N/A
	Structural steel:	✓	Lightning protection:	✓	N/A	N/A

Main Switch / Switch-Fuse / Circuit-breaker / RCD

Location	in plant room left of panel	BS(EN)	BS EN 60947-3 Type 2		
No. of poles	4	Rated voltage	400V	Rated current	800A
Fuse rating or setting	N/V	Conductors material	Copper	Conductors csa	4 x LIMmm²

Front End Residual Current Device details (if applicable):

RCD type	N/A	Operating current $I_{\Delta n}$	N/A	Operating time @ $I_{\Delta n}$	N/A	Type 'S' RCD (time delayed)	N/A

INSPECTION SCHEDULE SUMMARY

Item No.	Description	Outcome	Item No.	Description	Outcome
1.0	Section 1 - Intake equipment (visual inspection only)	Pass	5.0	Section 5 - Final circuits	Fail
2.0	Section 2 - Presence of adequate arrangements for other sources such as microgenerators	Pass	6.0	Section 6 - Location(s) containing a bath or shower	Pass
3.0	Section 3 - Earthing / Bonding arrangements	Pass	7.0	Section 7 - Other part 7 special installations or locations	Pass
4.0	Section 4 - Consumer unit(s) / Distribution board(s)	Fail	8.0	Section 8 - Prosumer's low voltage electrical installation(s)	Pass
			9.0	Section 9 - Not covered by any BS7671 Inspection Schedule section	Fail

EICR Inspection Schedule

If the schedule 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	Location
1	Section 1 - Intake equipment (visual inspection only)		
1.1.1	Distributor/supplier's service cable	✓	
1.1.2	Distributor/supplier's service head	✓	
1.1.3	Distributor/supplier's earthing arrangement	✓	
1.1.4	Distributor/supplier's meter tails	✓	
1.1.5	Distributor/supplier's metering equipment	✓	
1.1.6	Distributor/supplier's isolator (where present)	✓	
1.1.7	For all of 1.1, the person ordering work/dutyholder has been notified of any issues	Y - Yes	
1.2	Consumer's isolator (where present)	✓	
1.3	Consumer's meter tails	✓	
2	Section 2 - Presence of adequate arrangements for other sources such as microgenerators		
2	Presence of adequate arrangements for other sources such as micro-generators (551.6; 551.7)	✓	
3	Section 3 - Earthing / Bonding arrangements		
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	✓	
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)	✓	
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)	✓	
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)	✓	
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)	✓	
3.6	Confirmation of main protective bonding conductor sizes (544.1)	✓	
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)	✓	
3.8	Accessibility and condition of other protective bonding connections (543.3.1; 543.3.2)	✓	
3	Earthing & bonding arrangements - not covered by any BS7671 item in Section 3	✓	
4	Section 4 - Consumer unit(s) / Distribution board(s)		
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 enclosure(s) in terms of IP rating etc (416.2)	C2 - Potentially Dangerous	DB flats number 1
		C2 - Potentially Dangerous	DB flats 9
		C2 - Potentially Dangerous	DB flats 16
		C2 - Potentially Dangerous	DB flats 12
		C2 - Potentially Dangerous	DB flats 19
		C2 - Potentially Dangerous	DB flats 24
		C2 - Potentially Dangerous	DB flats 57
		C3 - Improvement recommended	DB 001 The lantern
		C3 - Improvement recommended	DB flats 15
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)	✓	
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)	✓	
4.6	Presence of main linked switch (as required by 462.1.201)	✓	
4.7	Operation of main switch (functional check) (643.10)	✓	
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)	C2 - Potentially Dangerous	DB 001 The lantern

Item No	Description	Outcome	Location
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	C2 - Potentially Dangerous	Installation
		C2 - Potentially Dangerous	DB/S/G1 Comms Room
		C2 - Potentially Dangerous	Db LL
		C2 - Potentially Dangerous	LL Db level 7
4.1	Presence of RCD six-monthly test notice, where required (514.12.2)	✓	
4.11	Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15)	✓	
4.12	Presence of other required labelling (please specify) (Section 514)	✓	
4.13	Compatibility of protective devices, bases and other components; correct type and rating (No signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; Sections 432, 433)	✓	
4.14	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)	✓	
4.15	Protection against mechanical damage where cables enter consumer unit/distribution board (522.8.1; 522.8.5; 522.8.11)	✓	
4.16	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)	✓	
4.17	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)	✓	
4.18	RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3; 415.1)	✓	
4.19	Confirmation of indication that SPD is functional (651.4)	✓	
4.2	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	✓	
4.21	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	✓	
4.22	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	✓	
4	Consumer unit(s) / Distribution board(s) - not covered by any BS7671 item in Section 4	C2 - Potentially Dangerous	DB 001 The lantern
		C3 - Improvement recommended	DB flats 9
		FI - Further Investigation Required	DB Laundry
		FI - Further Investigation Required	DB S-G
5 Section 5 - Final circuits			
5.1	Identification of conductors (514.3.1)	✓	
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 (to include the integrity of conduits and trunking systems, both metal and plastic) (521.10.1)	✓	
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓	
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)	✓	
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	✓	
5.8	Presence and adequacy of circuit protective conductors (411.3.1; Section 543)	✓	
5.9	Wiring system(s) appropriate for the type and nature of the installation and extemal influences (Section 522)	✓	
5.1	Concealed cables installed in prescribed zones (refer to: Extent and Limitations) (522.6.202)	✓	
5.11	Cables concealed under floor, above ceilings, or in walls/partitions, adequately protected against mechanical damage (refer to: Extent and Limitations) (522.6.204)	✓	
5.12.1	Provision of additional requirements for protection by RCD not exceeding 30 mA for all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)	✓	
5.12.2	Provision of additional requirements for protection by RCD not exceeding 30 mA for the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	✓	
5.12.3	Provision of additional requirements for protection by RCD not exceeding 30 mA for cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	✓	
5.12.4	Provision of additional requirements for protection by RCD not exceeding 30 mA for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	✓	
5.12.5	Provision of additional requirements for protection by RCD not exceeding 30 mA for final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓	

Item No	Description	Outcome	Location
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	C2 - Potentially Dangerous	DB Laundry
		C3 - Improvement recommended	DB LL4 Below S4A 4th Floor Riser Cupboard
5.14	Band II cables segregated/separated from Band I cables (528.1)	✓	
5.15	Cables segregated/separated from communications cabling (528.2)	✓	
5.16	Cables segregated/separated from non-electrical services (528.3)	✓	
5.17.1	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Connections soundly made and under no undue strain (526.6)	✓	
5.17.2	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); No basic insulation of a conductor visible outside enclosure (526.8)	✓	
5.17.3	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Connection of live conductors adequately enclosed (526.5)	✓	
5.17.4	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	✓	
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))	C2 - Potentially Dangerous	DB flats 10
		C2 - Potentially Dangerous	DB flats 52
		C3 - Improvement recommended	DB 001 The lantern
		C3 - Improvement recommended	DB 001 The lantern
		C3 - Improvement recommended	DB Laundry
		C3 - Improvement recommended	DB LL4 Below S4A 4th Floor Riser Cupboard
		C3 - Improvement recommended	DB LL4 Below S4A 4th Floor Riser Cupboard
		C3 - Improvement recommended	DB S5A Fith Floor in Cupboard
		C3 - Improvement recommended	DB flat 8
		C3 - Improvement recommended	DB flat 8
		C3 - Improvement recommended	DB flat 8
		C3 - Improvement recommended	DB flats 12
		C3 - Improvement recommended	DB flats 14
		C3 - Improvement recommended	DB flats 14
		C3 - Improvement recommended	DB flats 17
		C3 - Improvement recommended	DB flats 18
		C3 - Improvement recommended	DB flats 19
		C3 - Improvement recommended	DB flats 30
5.19	Suitability of accessories for external influences (512.2)	✓	
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)	✓	
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	✓	
5.22	Provision of relevant certification confirming that the electrical installation, or alteration, has been inspected and verified in accordance with Chapter 64	✓	
5	Final circuits - not covered by any BS7671 item in Section 5	FI - Further Investigation Required	DB 001 The lantern
6 Section 6 - Location(s) containing a bath or shower			
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)	✓	
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	✓	
6.3	Shaver supply units comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	✓	
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	✓	
6.5	Low voltage (e.g. 230 V) socket-outlets sited at least 2.5 m from zone 1 (701.512.3)	✓	

Item No	Description	Outcome	Location
6.6	Suitability of equipment for extemal influences for installed location in terms of IP rating (701.512.2)	✓	
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	✓	
6.8	Suitability of current-using equipment for particular position within the location (701.55)	✓	
6	Location(s) containing a bath or shower - not covered by any BS7671 item in Section 6	✓	
7	Section 7 - Other part 7 special installations or locations		
7.1	Add any inspection tests made for any special installations or locations present, and mark outcome as appropriate	✓	
8	Section 8 - Prosumer's low voltage electrical installation(s)		
8.1	Where the installation includes additional requirements and recommendations relating to Chapter 82, mark the outcome as appropriate and add a note in Observations	✓	
9	Section 9 - Not covered by any BS7671 Inspection Schedule section		
9	Section 9 - Not covered by any BS7671 Inspection Schedule section	C2 - Potentially Dangerous	DB 001 The lantern

Observations

001 C2 - Potentially Dangerous

20mm Hole in consumer unit

Board Reference:
DB flats number 1

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

002 C2 - Potentially Dangerous

20mm hole in the bottom of the consumer unit

Board Reference:
DB flats 12

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

003 C3 - Improvement recommended

Absence of identification to circuits at distribution board

Board Reference:
DB Room 69

004 C3 - Improvement recommended

Absence of identification to circuits at distribution board

Board Reference:
DB Room 71

05 C3 - Improvement recommended

Absence of identification to circuits at distribution board

Board Reference:
LL Db level 7

006 C3 - Improvement recommended

Absence of Schedule of Distribution at sub-distribution board or consumer unit

Schedule Item contravened:
4.9 - Correct identification of circuit details and protective devices (514.8.1; 514.9.1)

007 C3 - Improvement recommended

Absence of Schedule of Distribution at sub-distribution board or consumer unit

Board Reference:
Db LL

Schedule Item contravened:
4.9 - Correct identification of circuit details and protective devices (514.8.1; 514.9.1)

008 C3 - Improvement recommended

Absence of Schedule of Distribution at sub-distribution board or consumer unit

Board Reference:
DB/S/G1 Comms Room

Schedule Item contravened:
4.9 - Correct identification of circuit details and protective devices (514.8.1; 514.9.1)

009 C3 - Improvement recommended

Absence of Schedule of Distribution at sub-distribution board or consumer unit
This consumer board has not identification of circuits on the cover

010 C2 - Potentially Dangerous

Blanking plate missing in the board

Board Reference:
DB flats 19

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

011 C2 - Potentially Dangerous

Blanking plate missing in the board

Board Reference:
DB flats 57

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

012 C2 - Potentially Dangerous

Blanking plate missing in the board

Board Reference:
DB flats 9

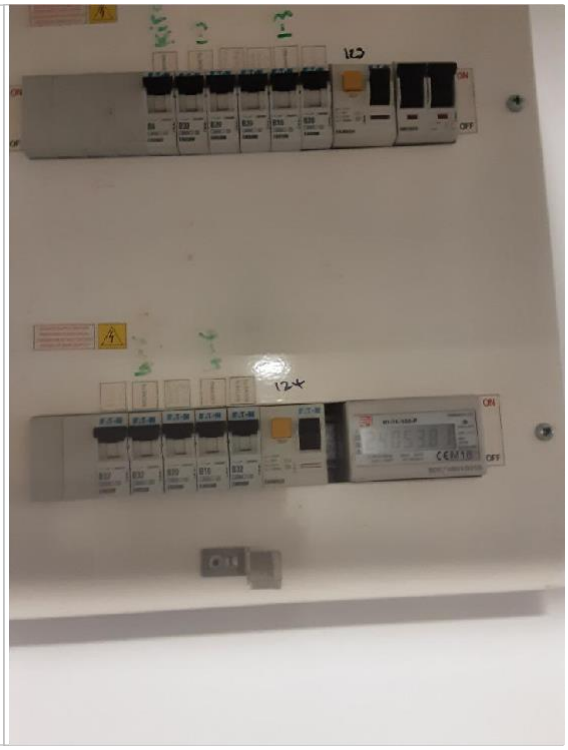
Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

013 C2 - Potentially Dangerous

Blanking plate missing in the consumer unit

Board Reference:
DB flats 16

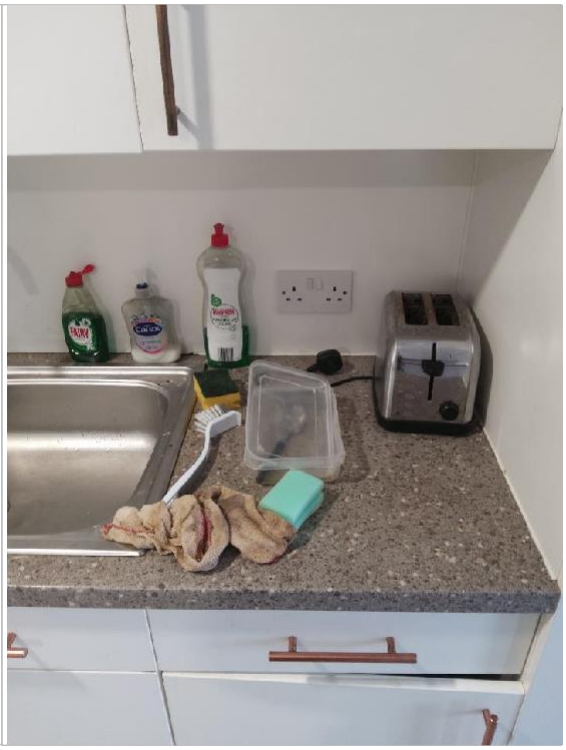
Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)



014 C3 - Improvement recommended

Equipment installed within a zone not suitable for the installation
Socket less than 30cm from the edge of the sink
Level 10 Kitchen right hand side of sink

Board Reference:
DB S10.3 Room 77



015 C2 - Potentially Dangerous

Heat damage to fuse spurs and fan isolator in kitchen

Board Reference:
DB flats 52

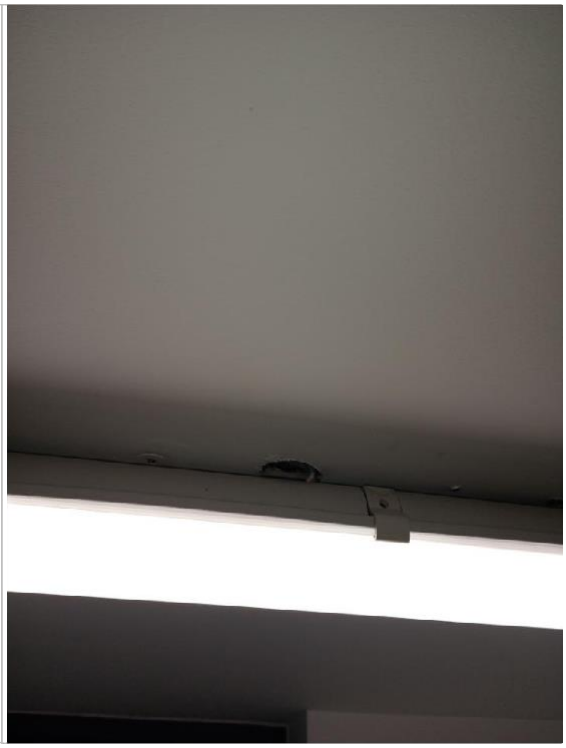
Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

016 C2 - Potentially Dangerous

In all three lights in the laundry room there is big holes where the cables are coming down

Board Reference:
DB Laundry

Schedule Item contravened:
5.13 - Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)

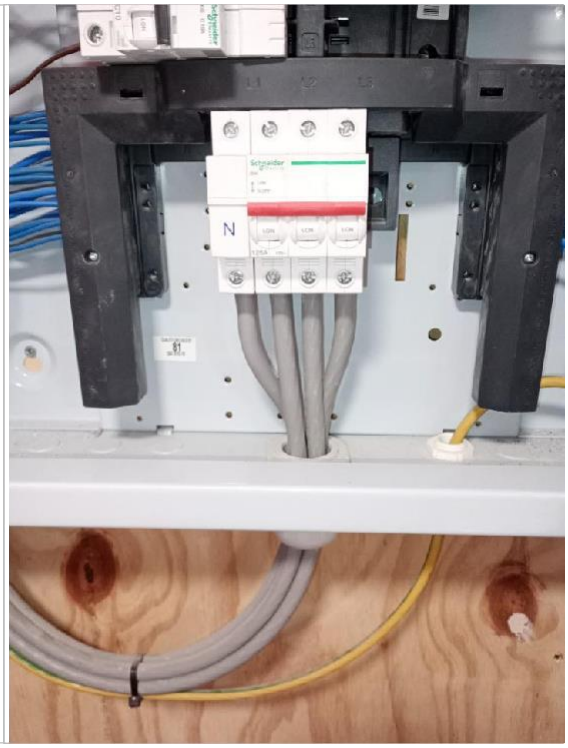


017 C3 - Improvement recommended

Incoming tails are not labelled up to indicate which colour is which phase

Board Reference:
DB 001 The lantern

Schedule Item contravened:
4 - Consumer unit(s) / Distribution board(s) - not covered by any BS7671 item in Section 4



018 C2 - Potentially Dangerous

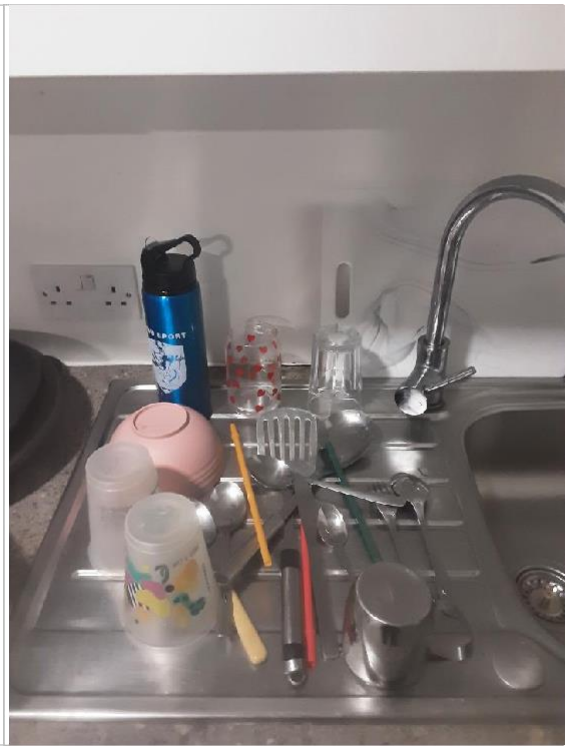
Kitchen socket is too close to the sink

Board Reference:
DB flats 48

019 C2 - Potentially Dangerous

Kitchen socket is too close to the sink

Board Reference:
DB flats 49



020 C2 - Potentially Dangerous

Missing blanking plate in consumer unit

Board Reference:
DB flats 24

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

021 C2 - Potentially Dangerous

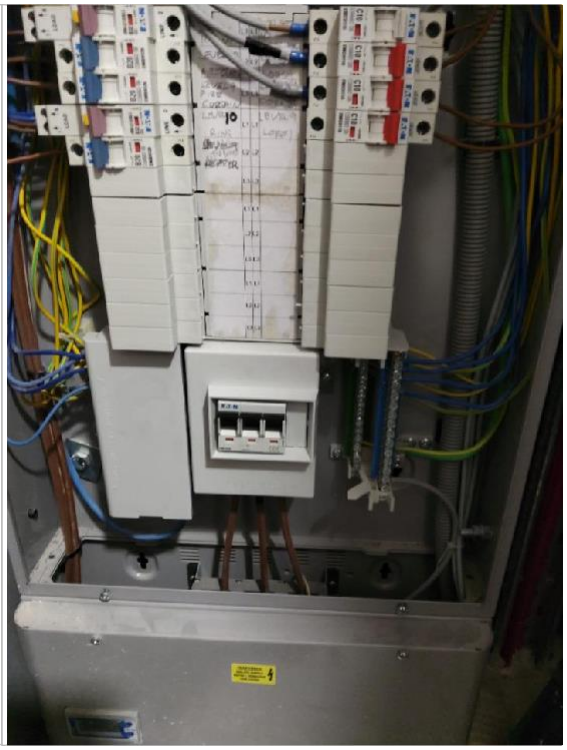
Missing blanking plate in consumer unit

Board Reference:
DB Room 58

022 C3 - Improvement recommended

Missing fixings to electrical switchgear or enclosure covers

Board Reference:
DB LL9B



023 C2 - Potentially Dangerous

Poor fixing of distribution board, consumer unit, or enclosure unit
Missing a blank

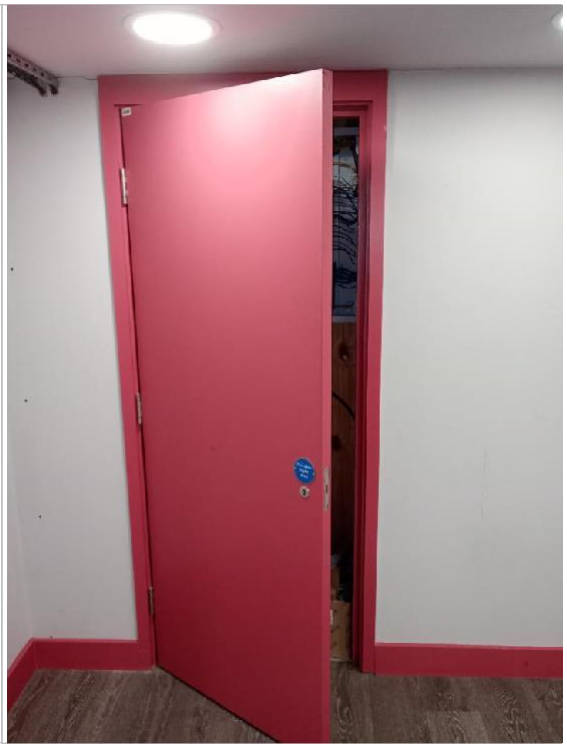
Board Reference:
DB Room 67

024 C3 - Improvement recommended

Riser door has no stickers to indicate 400 volts or that there is consumer units in there

Board Reference:
DB 001 The lantern

Schedule Item contravened:
9 - Section 9 - Not covered by any BS7671 Inspection Schedule section

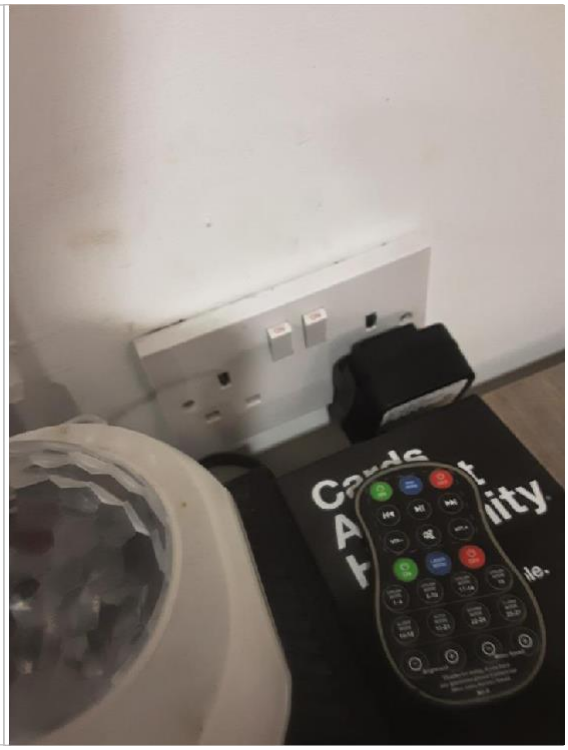


025 C2 - Potentially Dangerous

Socket below TV in communal area needs replacing, the earth pin is stuck in the socket as it has snapped off a plug

Board Reference:
DB flats 10

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))



026 C2 - Potentially Dangerous

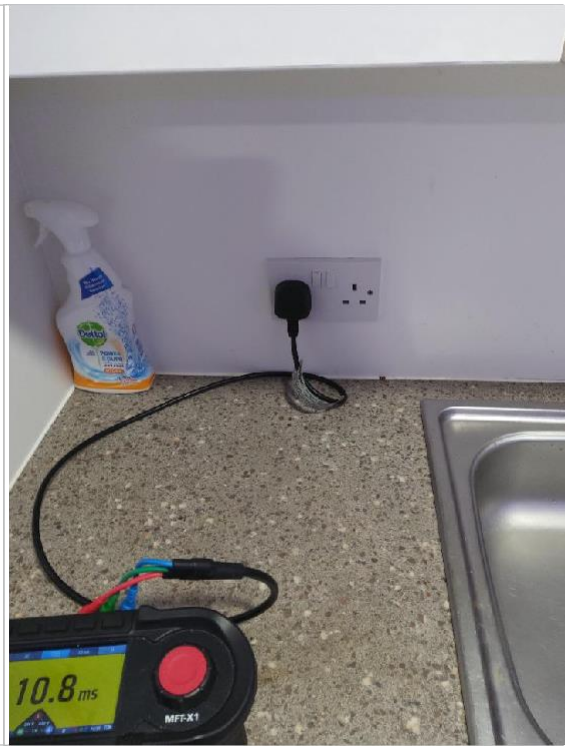
Socket in not 30cm away from the edge of the sink

Board Reference:
DB Room 63

027 C2 - Potentially Dangerous

Socket in not 30cm from the edge of sink

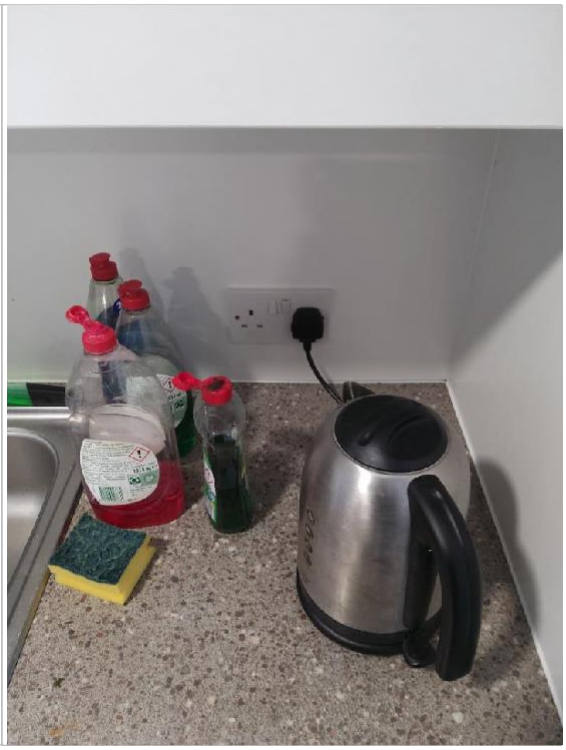
Board Reference:
DB Room 69



028 C2 - Potentially Dangerous

Socket is not 30cm away from the edge of sink

Board Reference:
DB Room 59



029 C2 - Potentially Dangerous

Socket not 30cm away from edge of sink

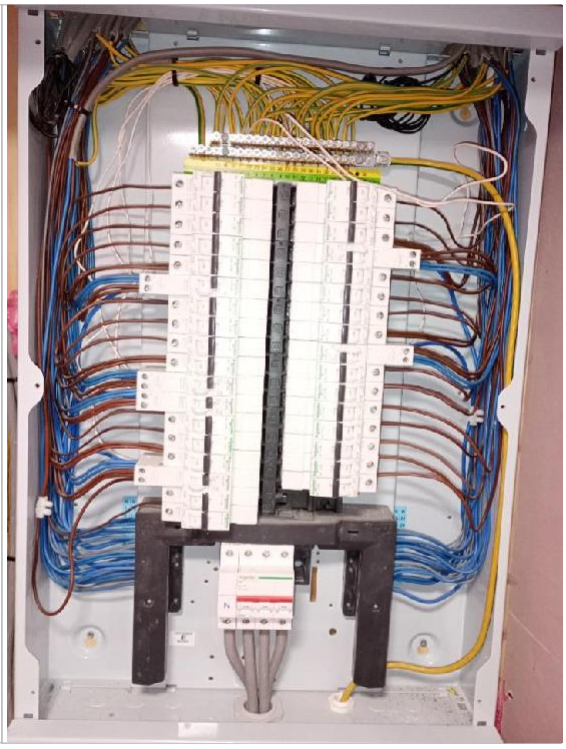
Board Reference:
DB Room 65

030 C3 - Improvement recommended

Some circuits including 2L2, 4L1, 5L3, 7L3, 9L2 have no RCD protection

Board Reference:
DB 001 The lantern

Schedule Item contravened:
4.8 - Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)



031 C3 - Improvement recommended

2 spotlights in Room B bathroom are not working

Board Reference:
DB flat 8

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

032 C3 - Improvement recommended

Absence of Schedule of Distribution at sub-distribution board or consumer unit

Board Reference:
DB Room 68

Notes:
New sticker att

033 C3 - Improvement recommended

Big holes on every floor above metal box

Board Reference:
DB LL4 Below S4A 4th Floor Riser Cupboard

Schedule Item contravened:
5.13 - Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)

034 C3 - Improvement recommended

Cleaners socket on level 3 is loose

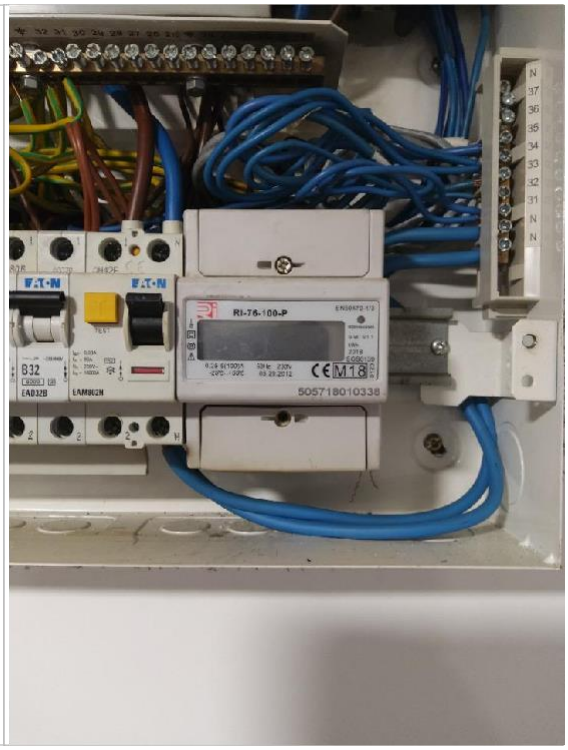
Board Reference:
DB LL4 Below S4A 4th Floor Riser Cupboard

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

035 C3 - Improvement recommended

Damaged electrical enclosure or accessory
Meter has burnt out / not connected to the supply

Board Reference:
DB Room 66



036 C3 - Improvement recommended

Edison screw lamp needs replacing

Board Reference:
DB 001 The lantern

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

037 C3 - Improvement recommended

Hole where YT2 goes into single patress

Board Reference:
DB Laundry

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

038 C3 - Improvement recommended

In flat E one of the spotlights is not working

Board Reference:
DB flat 8

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

039 C3 - Improvement recommended

Kitchen socket needs replacing

Board Reference:
DB flats 30

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

040 C3 - Improvement recommended

Missing fixing to distribution board cover

Board Reference:
DB Room 71

041 C3 - Improvement recommended

Missing fixings at enclosure unit/meter missing conductor cover

Board Reference:
DB Room 65

042 C3 - Improvement recommended

Missing screw on the board cover

Board Reference:
DB 001 The lantern

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

043 C3 - Improvement recommended

Only 2 screws in the emergency lighting face plate

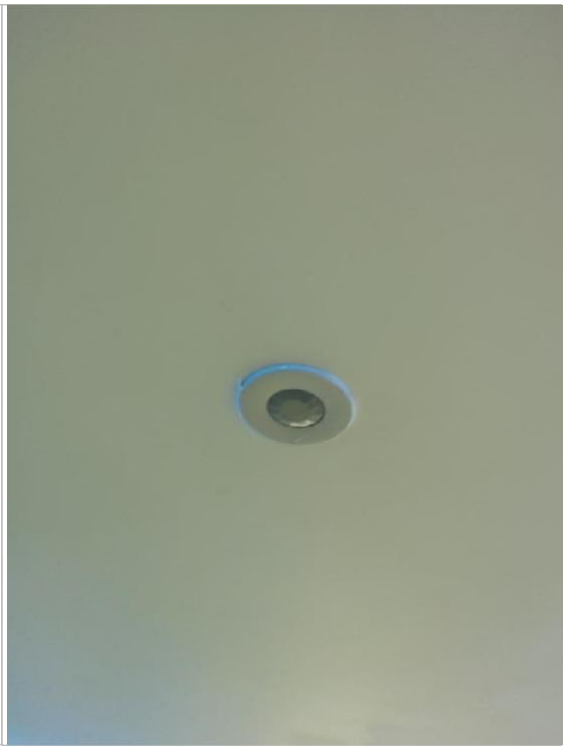
Board Reference:
DB LL4 Below S4A 4th Floor Riser Cupboard

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

044 C3 - Improvement recommended

PIR not working in kitchen

Board Reference:
DB Room 65

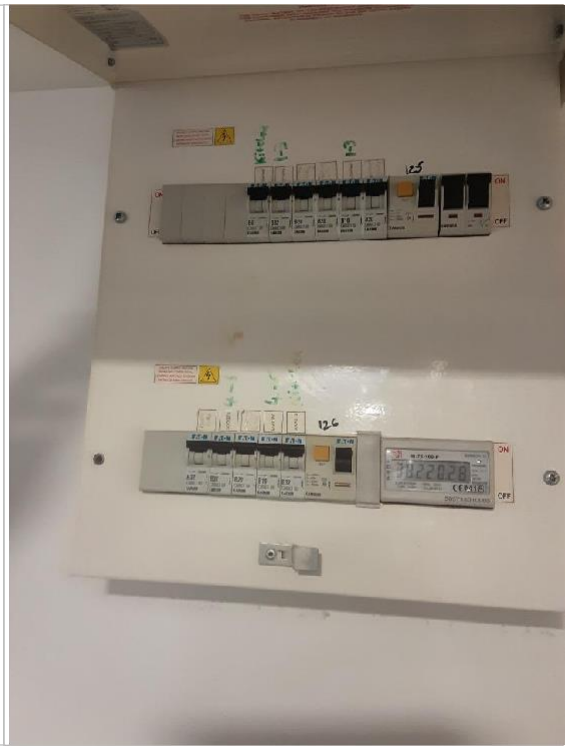


045 C3 - Improvement recommended

Screw missing for the board cover

Board Reference:
DB flats 15

Schedule Item contravened:
4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)



046 C3 - Improvement recommended

Screw missing for the board cover

Board Reference:
DB flats 9

Schedule Item contravened:
4 - Consumer unit(s) / Distribution board(s) - not covered by any BS7671 item in Section 4

047 C3 - Improvement recommended

Screw missing on metal box

Board Reference:
DB S5A Fith Floor in Cupboard

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

048 C3 - Improvement recommended

Socket in flat C is cracked

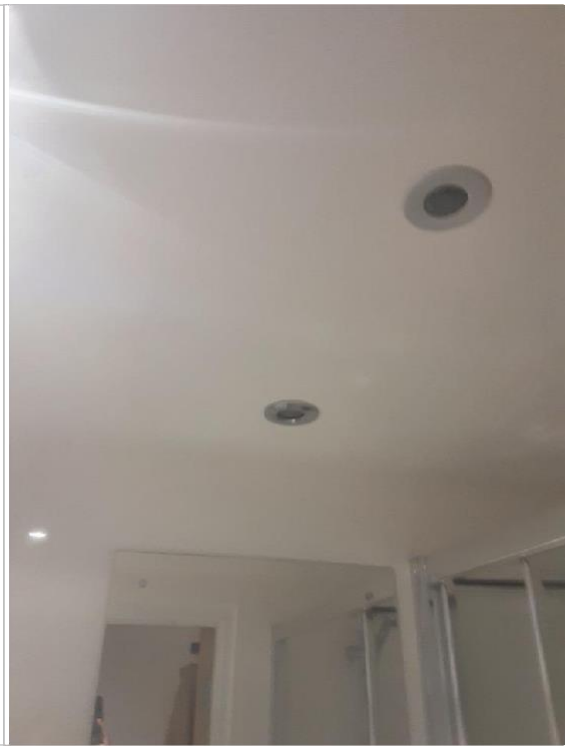
Board Reference:
DB flat 8

049 C3 - Improvement recommended

Spotlight in bathroom not working

Board Reference:
DB flats 19

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))



050 C3 - Improvement recommended

Spotlight in entrance corridor is not working bulb needs replacing (GU10 bulb)

Board Reference:
DB 001 The lantern

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

051 C3 - Improvement recommended

Spotlight in flat A is not working

Board Reference:
DB flats 18

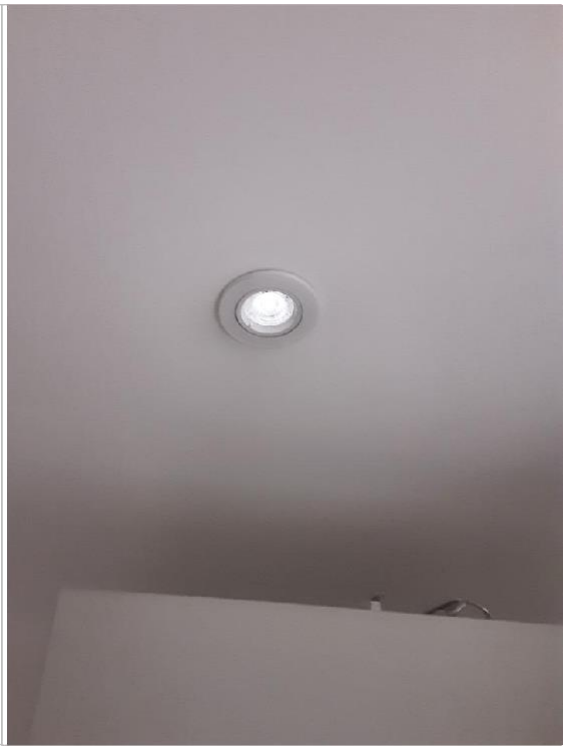
Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

052 C3 - Improvement recommended

Spotlight in flat E needs lamp replacing

Board Reference:
DB flat 8

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

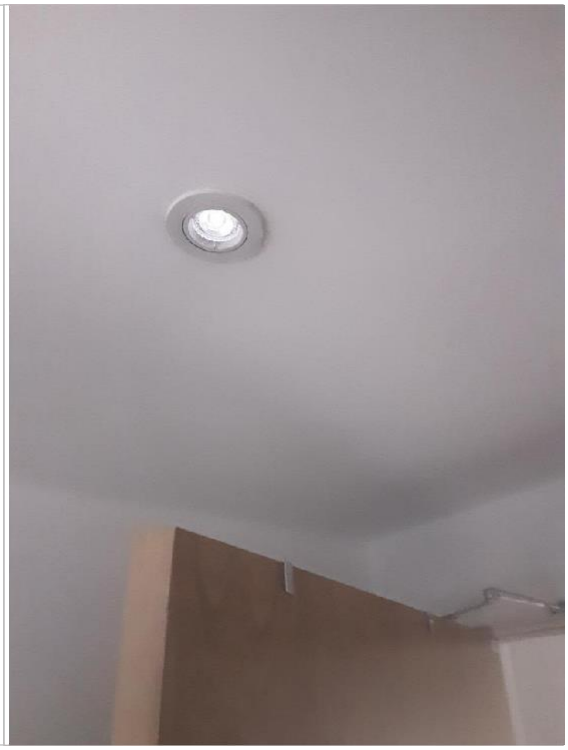


053 C3 - Improvement recommended

Spotlight in flat E not working

Board Reference:
DB flats 14

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

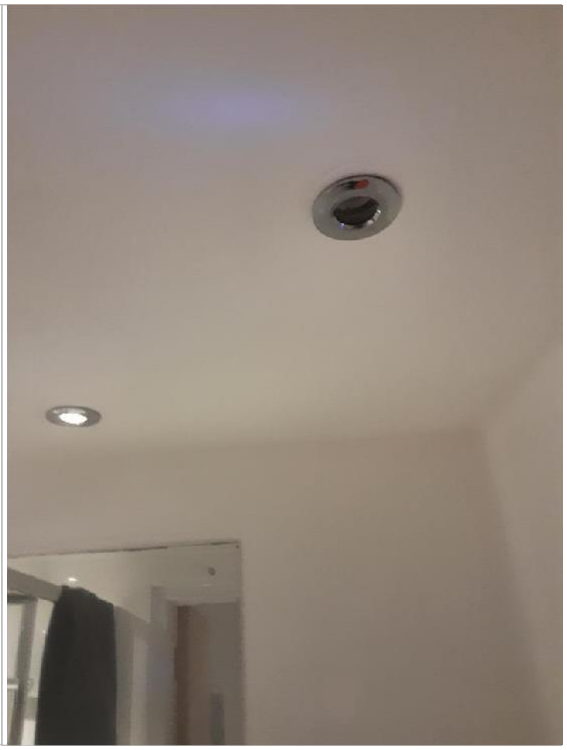


054 C3 - Improvement recommended

Spotlight in flat F toilet is not working

Board Reference:
DB flats 14

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

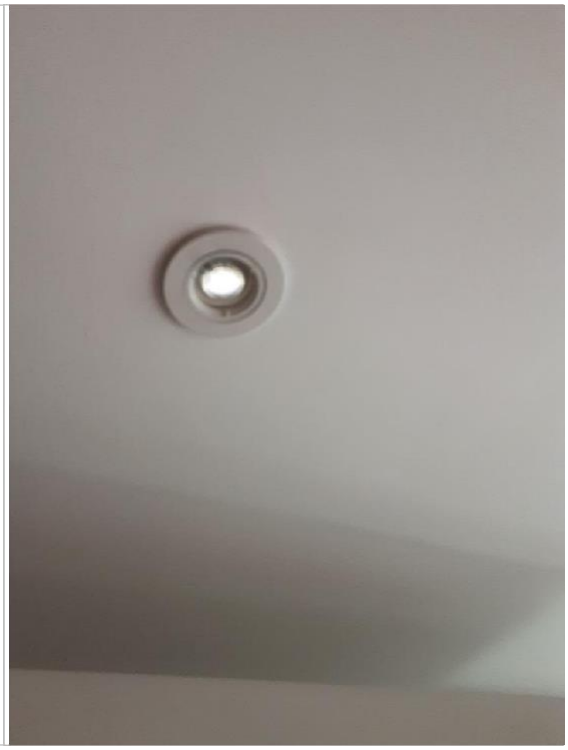


055 C3 - Improvement recommended

Spotlight is not working flat C

Board Reference:
DB flats 12

Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))



056 C3 - Improvement recommended

Two gang switch needs replacing in flat E

Board Reference:
DB flats 17

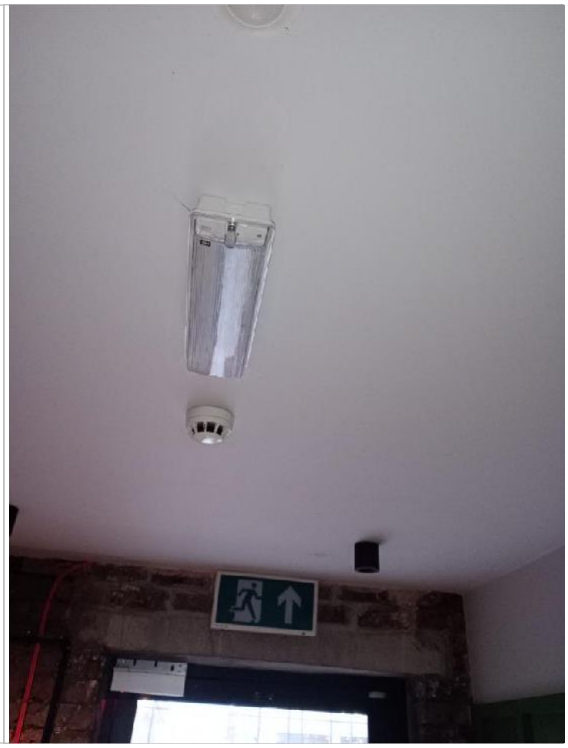
Schedule Item contravened:
5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

057 FI - Further Investigation Required

3 emergency lights in entrance corridor do not have a green light on, possibly not working

Board Reference:
DB 001 The lantern

Schedule Item contravened:
5 - Final circuits - not covered by any BS7671 item in Section 5



058 FI - Further Investigation Required

Fuse spur spur heater sparks when turned on

Board Reference:
DB flat 6

059 FI - Further Investigation Required

Lights in corridor for all flats on 52 are not working

Board Reference:
DB flat 53

060 FI - Further Investigation Required

No test of inspection sheet, some circuits cannot be found

Board Reference:
DB S-G

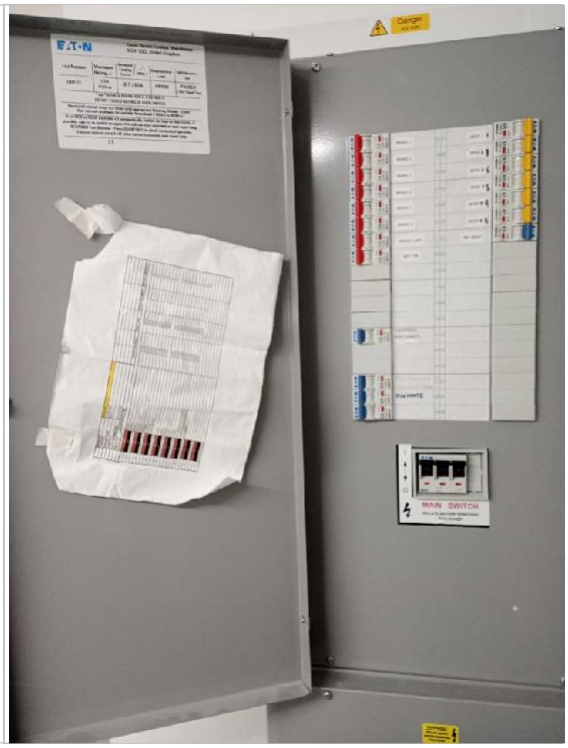
Schedule Item contravened:
4 - Consumer unit(s) / Distribution board(s) - not covered by any BS7671 item in Section 4

061 FI - Further Investigation Required

Test sheet does not match the board and is hard to figure out what circuit does what

Board Reference:
DB Laundry

Schedule Item contravened:
4 - Consumer unit(s) / Distribution board(s) - not covered by any BS7671 item in Section 4



Test Results: DB 001 The lantern

DB Location:	basement riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Schneider 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.78kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	N / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Lights front stairs	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.51	N/A	LIM	LIM	LIM	LIM	✓	0.64	--	--	N/A
1 L2	Lights main stairs	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.41	N/A	LIM	LIM	LIM	LIM	✓	0.54	--	--	N/A
1 L3	Lights basement and stairs	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.17	N/A	LIM	LIM	LIM	LIM	✓	0.30	--	--	N/A
2 L1	Lights basement	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.30	N/A	LIM	LIM	LIM	LIM	✓	0.43	--	--	N/A
2 L2	Heaters basement	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	0.16	N/A	LIM	LIM	LIM	LIM	✓	0.29	--	--	N/A
2 L3	Sockets basement	PVC T&E	C	LIM	2.5	1.5	0.4	61009	C	32	10	0.68	61009	B	30	32	1	LIM	LIM	LIM	0.04	N/A	LIM	LIM	LIM	LIM	✓	0.17	LIM	LIM	N/A
3 L1	Sump pumps basement	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
3 L2	Lights ground floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.23	N/A	LIM	LIM	LIM	LIM	✓	0.36	--	--	N/A
3 L3	Lights ground floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.11	N/A	LIM	LIM	LIM	LIM	✓	0.24	--	--	N/A
4 L1	Heaters ground floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	0.07	N/A	LIM	LIM	LIM	LIM	✓	0.20	--	--	N/A
4 L2	Sockets ground floor	PVC T&E	C	LIM	2.5	1.5	0.4	61009	C	32	10	0.68	61009	B	30	32	1	LIM	LIM	LIM	0.13	N/A	LIM	LIM	LIM	LIM	✓	0.26	LIM	LIM	N/A
4 L3	Sockets kitchen	PVC T&E	C	LIM	2.5	1.5	0.4	61009	C	32	10	0.68	61009	B	30	32	1	LIM	LIM	LIM	0.07	N/A	LIM	LIM	LIM	LIM	✓	0.20	LIM	LIM	N/A
5 L1	Lights first floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
5 L2	Lights floor floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
5 L3	Heaters first floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	LIM	LIM	LIM	✓	0.26	--	--	N/A
6 L1	Sockets first floor	PVC T&E	C	LIM	2.5	1.5	0.4	61009	C	32	10	0.68	61009	B	30	32	1	LIM	LIM	LIM	0.09	N/A	LIM	LIM	LIM	LIM	✓	0.22	LIM	LIM	N/A
6 L2	Air handling unit ground toilet	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A

Test Results: DB 001 The lantern

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual / AFDD Test Button
6 L3	Toilet light second floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
7 L1	Lights second floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.87	N/A	LIM	LIM	LIM	LIM	✓	1.00	--	--	N/A
7 L2	Lights second floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.65	N/A	LIM	LIM	LIM	LIM	✓	0.78	--	--	N/A
7 L3	Heaters second floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	0.22	N/A	LIM	LIM	LIM	LIM	✓	0.35	--	--	N/A
8 L1	Sockets second floor	PVC T&E	C	LIM	2.5	1.5	0.4	61009	C	32	10	0.68	61009	B	30	32	1	LIM	LIM	LIM	0.27	N/A	LIM	LIM	LIM	LIM	✓	0.40	LIM	LIM	N/A
8 L2	Hand dryer second floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	0.25	N/A	LIM	LIM	LIM	LIM	✓	0.38	--	--	N/A
8 L3	Lights third floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.63	N/A	LIM	LIM	LIM	LIM	✓	0.76	--	--	N/A
9 L1	Lights third floor	PVC T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.67	N/A	LIM	LIM	LIM	LIM	✓	0.80	--	--	N/A
9 L2	Heaters 3rd floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	0.18	N/A	LIM	LIM	LIM	LIM	✓	0.31	--	--	N/A
9 L3	Sockets third floor	PVC T&E	C	LIM	2.5	1.5	0.4	61009	C	32	10	0.68	61009	B	30	32	1	LIM	LIM	LIM	0.30	N/A	LIM	LIM	LIM	LIM	✓	0.43	LIM	LIM	N/A
10 L1	Hand dryer ground floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	LIM	LIM	LIM	✓	0.26	--	--	N/A
10 L2	Hand dryer ground floor	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	0.09	N/A	LIM	LIM	LIM	LIM	✓	0.22	--	--	N/A
10 L3	Hot water tank	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
11 L1	Hot water tank	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
11 L2	Fire alarm	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
11 L3	Neon sign	PVC T&E	C	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
12 L1	Door lock spur	PVC T&E	C	LIM	2.5	1.5	0.4	60898	B	10	10	4.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
12 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL kitchen level 5

DB Location:	in kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.68kA	Vulnerable circuits and/or installed equipment:	led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	Megger MFT-X1 102368405	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	0.51	--	--	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	0.59	--	--	N/A
3	kitchen lights	LSHF T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	0.88	--	--	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6	Sockets	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	32	6	1.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	0.50	--	--	N/A
7	Heaters	LSHF T&E	100	2	4.0	2.5	0.04	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	0.42	--	--	N/A
8	Bathroom fan and lights	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	LIM	LIM	LIM	✓	0.42	--	--	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
11	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
12	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB LL1A

DB Location:	Fisrt Floor underneath Db S1A	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.11Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	3.5kA	Vulnerable circuits and/or installed equipment:	Led lights
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results			
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners Socket	LSHF T&E	B	N/A	2.5	1.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	N/A	N/A	N/A	0.15	N/A	250V	N/A	>200	>200	✓	0.26	18.4	✓	N/A
1 L2	Panel Heater	LSHF T&E	B	1	2.5	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.60	N/A	LIM	LIM	LIM	LIM	✓	0.71	--	✓	N/A
1 L3	Gym AC Units	LSHF T&E	B	2	2.5	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.35	N/A	LIM	LIM	LIM	LIM	✓	0.46	--	✓	N/A
2 L1	Cleaners Sockets Level 2	LSHF T&E	B	1	2.5	1.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	N/A	N/A	N/A	0.28	N/A	250V	N/A	>200	>200	✓	0.39	14.7	✓	N/A
2 L2	Smoke Curtain Level 1	LSHF T&E	B	1	2.5	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.25	N/A	LIM	LIM	LIM	LIM	✓	0.36	--	✓	N/A
2 L3	Gym Dado Sockets	LSHF T&E	B	5	2.5	1.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	N/A	N/A	N/A	0.53	N/A	LIM	LIM	LIM	LIM	✓	0.64	20.7	✓	N/A
3 L1	Gym Cleaners Socket	LSHF T&E	B	1	2.5	1.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	N/A	N/A	N/A	0.35	N/A	LIM	LIM	LIM	LIM	✓	0.46	18.0	✓	N/A
3 L2	Gym Heat Recovery Units	LSHF T&E	B	1	2.5	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	✓	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Intercom PSU Level 1	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	10	10	4.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	✓	LIM	--	--	N/A
6 L1	Level 2 Lobby Lights	LSHF T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	✓	LIM	--	--	N/A
6 L2	Level 1 Lobby Lights	LSHF T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	✓	LIM	--	--	N/A
6 L3	Level 1 Corridor lights	LSHF T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	✓	LIM	--	--	N/A

Test Results: DB LL1A

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Level 2 Corridor lights	LSHF T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	✓	LIM	--	--	N/A
7 L2	Level 2 Corridor lights	LSHF T&E	B	4	1.5	1.0	0.4	60898	B	10	10	4.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	✓	LIM	--	--	N/A
7 L3	Gym Lights	LSHF T&E	B	8	1.5	1.0	0.4	60898	B	10	10	4.37	--	--	--	--	--	N/A	N/A	N/A	0.43	N/A	N/A	N/A	N/A	N/A	✓	0.54	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL1B

DB Location:	Below DBS1B	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.94kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Cleaners Sockets	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	0.23	0.23	0.47	0.14	N/A	LIM	N/A	LIM	LIM	✓	0.26	18.1	✓	N/A
2 L2	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	--	--	N/A
2 L3	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	--	--	N/A
3 L1	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	LIM	LIM	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	Lim	✓	N/A
3 L2	Fire Curtain	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.11	N/A	LIM	N/A	LIM	LIM	LIM	0.23	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	LIM	--	✓	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Intercom	LSHF T&E	B	LIM	2.5	1.5	0.4	60898	B	10	10	4.37	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	✓	N/A
6 L1	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
6 L2	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
6 L3	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
7 L1	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
7 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL1B

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
8 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL4 Below S4A 4th Floor Riser Cupboard

DB Location:	level 4 riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.09Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.69kA	Vulnerable circuits and/or installed equipment:	N/A
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners sockets level 3 ring	LSHF T&E	100	NV	2.5	1.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	LIM	0.54	N/A	LIM	N/A	LIM	LIM	✓	0.63	18.0	✓	N/A
1 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
1 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L1	Cleaners sockets level 5 ring	LSHF T&E	100	NV	2.5	1.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	LIM	0.48	N/A	LIM	N/A	LIM	LIM	✓	0.57	18.2	✓	N/A
2 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L3	Panel heater level 4	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.20	N/A	LIM	N/A	LIM	LIM	✓	0.29	--	--	N/A
3 L1	Cleaners socket level 4	LSHF T&E	100	NV	2.5	1.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	LIM	0.58	N/A	LIM	N/A	LIM	LIM	✓	0.67	18.0	✓	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Level 5 corridor lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.34	N/A	LIM	N/A	LIM	LIM	✓	0.43	--	--	N/A
5 L2	Level 4 lobby lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.31	N/A	LIM	N/A	LIM	LIM	✓	0.40	--	--	N/A
5 L3	Level 3 lobby lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.14	N/A	LIM	N/A	LIM	LIM	✓	0.23	--	--	N/A
6 L1	Level 5 lobby lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.23	N/A	LIM	N/A	LIM	LIM	✓	0.32	--	--	N/A
6 L2	Level 4 corridor lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.11	N/A	LIM	N/A	LIM	LIM	✓	0.20	--	--	N/A
6 L3	Level 3 corridor lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	N/A	LIM	LIM	✓	0.22	--	--	N/A

Test Results: DB LL4 Below S4A 4th Floor Riser Cupboard

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L1	Level 5 corridor lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.48	N/A	LIM	N/A	LIM	LIM	✓	0.57	----------		N/A
7 L2	Level 4 corridor lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.15	N/A	LIM	N/A	LIM	LIM	✓	0.24	--	--	N/A
7 L3	Level 3 corridor lighting	LSHF T&E	100	NV	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.33	N/A	LIM	N/A	LIM	LIM	✓	0.42	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	----------		N/A

Test Results: DB LL4B

DB Location:	Level 4 under S4B	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.53kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results			
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners Sockets Level 3	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	0.44	0.44	0.51	--	N/A	LIM	LIM	LIM	LIM	✓	0.61	18.9	✓	N/A
1 L2	Psu Alarm Services Level 5	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	16	10	2.73	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	✓	N/A
1 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	✓	N/A
2 L2	Smoke Curtain Level 3	LSHF T&E	B	1	2.5	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
2 L3	Panel Heater Level 4	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L1	Cleaners Sockets Level 4	PVC T&E	100	5	2.5	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	N/A	N/A	N/A	0.44	N/A	N/A	N/A	N/A	N/A	N/A	0.58	18.1	✓	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L3	Smoke Curtain Level 4	PVC T&E	100	1	4.0	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	N/A	LIM	LIM	✓	LIM	--	--	N/A
4 L1	Cleaners Sockets Level 5	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	0.63	0.64	0.88	0.19	N/A	LIM	N/A	LIM	LIM	✓	0.33	18.1	✓	N/A
4 L2	Smoke Curtain Level 5	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	✓	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	LIM	--	✓	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	LIM	--	✓	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Level 5 Lobby Lights	PVC T&E	B	4	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.89	--	--	N/A
6 L2	Level 4 Lobby Lights	PVC T&E	B	4	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	1.04	--	--	N/A
6 L3	Level 3 Lobby Lights	PVC T&E	B	4	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	1.28	--	--	N/A

Test Results: DB LL4B

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Level 5 Corridor lights	PVC T&E	B	21	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.93	--	--	N/A
7 L2	Level 4 Corridor lights	PVC T&E	B	21	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	0.77	--	--	N/A
7 L3	Level 3 Corridor lights	PVC T&E	B	21	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	1.14	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB LL7 Below Db S7A

DB Location:	level 7 east riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.08Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	3.04kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners socket level 6	LSHF T&E	C	NV	4.0	2.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	LIM	LIM	LIM	0.32	N/A	LIM	LIM	N/A	LIM	✓	0.40	LIM	LIM	N/A
1 L2	Panel heater level 7	LSHF T&E	C	1	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.24	N/A	LIM	N/A	N/A	N/A	✓	0.32	--	--	N/A
1 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L1	Cleaners socket level 7	LSHF T&E	C	NV	4.0	2.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	LIM	✓	0.24	LIM	LIM	N/A
2 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L1	Cleaners socket level 8	LSHF T&E	C	NV	4.0	2.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	LIM	LIM	LIM	0.57	N/A	LIM	LIM	LIM	LIM	✓	0.65	LIM	LIM	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Level 6 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.21	N/A	LIM	LIM	LIM	LIM	✓	0.29	--	--	N/A
5 L2	Level 7 lobby lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.11	N/A	LIM	LIM	LIM	LIM	✓	0.19	--	--	N/A
5 L3	Level 8 lobby lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.16	N/A	LIM	LIM	LIM	LIM	✓	0.24	--	--	N/A
6 L1	Level 6 lobby lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.28	N/A	LIM	LIM	LIM	LIM	✓	0.36	--	--	N/A
6 L2	Level 7 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.12	N/A	LIM	LIM	LIM	LIM	✓	0.20	--	--	N/A
6 L3	Level 8 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	LIM	LIM	LIM	✓	0.21	--	--	N/A

Test Results: DB LL7 Below Db S7A

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L1	Level 6 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.26	N/A	LIM	LIM	LIM	LIM	✓	0.34	--	--	N/A
7 L2	Level 7 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.15	N/A	LIM	LIM	LIM	LIM	✓	0.23	--	--	N/A
7 L3	Level 8 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.18	N/A	LIM	LIM	LIM	LIM	✓	0.26	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL7B

DB Location:	Level 7 under S7B	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.29Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.79kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners Sockets Level 6	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	0.33	0.33	0.61	0.17	N/A	LIM	LIM	LIM	LIM	✓	0.46	14.5	✓	N/A
1 L2	Psu Alarm Services Level 5	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	16	10	2.73	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
1 L3	Panel Heater Level 7	LSHF T&E	B	1	4.0	1.5	0.4	61009	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	✓	N/A
2 L1	Cleaners Sockets Level 7	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	0.25	0.25	0.44	0.13	N/A	LIM	N/A	LIM	LIM	✓	0.42	14.9	✓	N/A
2 L2	Smoke Curtain Level 6	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.08	N/A	LIM	LIM	LIM	LIM	✓	0.37	--	--	N/A
2 L3	Smoke Curtain Level 7	LSHF T&E	B	1	4.0	1.5	0.4	61009	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.27	N/A	LIM	LIM	LIM	LIM	✓	0.56	--	✓	N/A
3 L1	Cleaners Sockets Level 8	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	0.41	0.41	0.82	0.1	N/A	LIM	LIM	LIM	LIM	✓	0.39	14.3	✓	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	✓	N/A
4 L2	Smoke Curtain Level 8	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.44	N/A	LIM	LIM	LIM	LIM	✓	0.73	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Level 8 Lobby Lights	PVC T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.59	N/A	LIM	LIM	LIM	LIM	✓	0.88	--	--	N/A
6 L2	Level 7 Lobby Lights	PVC T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.43	N/A	LIM	LIM	LIM	LIM	✓	0.72	--	--	N/A
6 L3	Level 6 Lobby Lights	PVC T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.55	N/A	LIM	LIM	LIM	LIM	✓	0.84	--	--	N/A

Test Results: DB LL7B

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Level 8 Corridor lights	PVC T&E	B	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.46	N/A	LIM	LIM	LIM	LIM	✓	0.75	--	--	N/A
7 L2	Level 7 Corridor lights	PVC T&E	B	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.41	N/A	LIM	LIM	LIM	LIM	✓	0.70	--	--	N/A
7 L3	Level 6 Corridor lights	PVC T&E	B	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.75	N/A	LIM	LIM	LIM	LIM	✓	1.04	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL9B

DB Location:	Level 9 underneath S9B	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.39Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.42kA	Vulnerable circuits and/or installed equipment:	Led Lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners Sockets Level 9	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	--	--	--	0.03	N/A	LIM	N/A	LIM	LIM	✓	0.42	14.9	✓	N/A
1 L2	Smoke Curtain Level 10	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.48	N/A	LIM	LIM	LIM	LIM	✓	0.61	--	✓	N/A
1 L3	Smoke Curtain Level 9	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.16	N/A	LIM	LIM	LIM	LIM	✓	0.47	--	✓	N/A
2 L1	Cleaners Sockets Level 10	PVC T&E	100	5	4.0	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	--	--	--	0.11	N/A	LIM	N/A	LIM	LIM	✓	0.50	14.5	✓	N/A
2 L2	TV Amplifier Level 10	LSHF T&E	B	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	LIM	--	✓	N/A
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Level 10 Corridor lights	PVC T&E	B	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.50	N/A	LIM	LIM	LIM	LIM	✓	0.89	--	--	N/A
5 L2	Level 10 Lobby Lights	PVC T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.40	N/A	LIM	LIM	LIM	LIM	✓	0.79	--	--	N/A
5 L3	Level 9 Corridor lights	PVC T&E	B	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.44	N/A	LIM	LIM	LIM	LIM	✓	0.83	--	--	N/A
6 L1	Level 9 Lobby Lights	PVC T&E	B	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.39	N/A	LIM	LIM	LIM	LIM	✓	0.78	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB LL9B

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB Laundry

DB Location:	laundry room	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	MEM 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.09kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)			Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Washer 1	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	✓	0.27	--	--	N/A
1 L2	Washer 2	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	✓	0.27	--	--	N/A
1 L3	Washer 3	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.04	N/A	LIM	LIM	LIM	LIM	✓	0.25	--	--	N/A
2 L1	Washer 4	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.05	N/A	LIM	LIM	LIM	LIM	✓	0.26	--	--	N/A
2 L2	Washer 5	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.03	N/A	LIM	LIM	LIM	LIM	✓	0.24	--	--	N/A
2 L3	Washer 6	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.07	N/A	LIM	LIM	LIM	LIM	✓	0.28	--	--	N/A
3 L1	Inline fan	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
3 L2	Service lighting	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
3 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Vending machines	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
5 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	BC unit in ceiling void	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
6 L2	Pinmate	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.04	N/A	LIM	LIM	LIM	LIM	✓	0.25	--	--	N/A
6 L3	Unknown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A

Test Results: DB Laundry

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)			Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L1	Dryer 1	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	25	10	1.75	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
7 L2	Dryer 2	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	25	10	1.75	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
7 L3	Dryer 3	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	25	10	1.75	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L1	Dryer 4	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	25	10	1.75	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L2	Dryer 5	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	25	10	1.75	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L3	Dryer 6	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	25	10	1.75	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
9 L1	ENG socket	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
9 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB Mech 5

DB Location:	right hand side of plant room	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.86kA	Vulnerable circuits and/or installed equipment:	Led lamps/ no circuits turned off
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:		Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time (ms)	Test Button	Manual / AFDD Test Button
1 L1	Water Heater 1	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	LIM	LIM	LIM	✓	0.25	--	--	N/A
1 L2	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
1 L3	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L1	Water Heater 2	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.15	N/A	LIM	LIM	LIM	LIM	✓	0.27	--	--	N/A
2 L2	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L3	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L1	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L2	HWS Circulation Pump	PVC	100	1	4.0	4.0	0.4	60898	B	16	10	2.73	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
3 L3	Gas Solinoid Valve	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
4 L1	BMS Panel	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
4 L2	HWS Return Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	✓	0.14	--	--	N/A
4 L3	Cat 5 Booster Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
5 L1	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Socket Below	PVC	100	1	4.0	4.0	0.4	61009	B	20	10	2.19	61009	A	30	20	2	N/A	N/A	N/A	0.01	N/A	LIM	N/A	LIM	LIM	✓	0.12	18.9	✓	N/A
6 L2	Lights Plant Room	PVC	100	1	1.5	1.5	0.4	60898	C	10	6	2.19	--	--	--	--	--	N/A	N/A	N/A	0.54	N/A	LIM	N/A	LIM	LIM	✓	0.66	--	--	N/A
6 L3	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	FLU Dilution Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	LIM	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
7 L2	FLU Dilution Pump	PVC	100	1	4.0	1.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	LIM	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A

Test Results: DB Mech 5

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L3	FLU Dilution Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	LIM	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L1	Cold Water Booster Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	LIM	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L2	Cold Water Booster Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	LIM	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L3	Cold Water Booster Pump	PVC	100	1	4.0	4.0	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	--	LIM	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
9 L1	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Not Identified	PVC	100	NV	4.0	4.0	0.4	60898	C	20	10	1.09	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
11 L2	Not Identified	PVC	100	NV	4.0	4.0	0.4	60898	C	20	10	1.09	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
11 L3	Not Identified	PVC	100	NV	4.0	4.0	0.4	60898	C	20	10	1.09	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
12 L1	Not Identified	PVC	100	NV	4.0	4.0	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
12 L2	Not Identified	PVC	100	NV	4.0	4.0	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A
12 L3	Not Identified	PVC	100	NV	4.0	4.0	0.4	60898	C	32	10	0.68	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	LIM	LIM	--	--	N/A

Test Results: DB Room 56

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.22Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.04kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.15	N/A	LIM	LIM	LIM	✓	0.37	14.5	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	0.47	N/A	LIM	LIM	LIM	✓	0.69	14.5	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.32	N/A	LIM	LIM	LIM	✓	0.55	14.5	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	✓	0.38	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.33	N/A	LIM	LIM	LIM	✓	0.55	14.5	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.77	N/A	LIM	LIM	LIM	✓	0.99	14.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	✓	0.38	10.3	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.46	N/A	LIM	LIM	LIM	✓	0.68	10.3	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.41	N/A	LIM	LIM	LIM	✓	0.63	10.3	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.55	N/A	LIM	LIM	LIM	✓	0.77	10.3	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.57	N/A	LIM	LIM	LIM	✓	0.79	10.3	✓	N/A

Test Results: DB Room 57

DB Location:	level 4 in kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.09kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	09 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	✓	0.37	9.4	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	0.50	N/A	LIM	LIM	LIM	✓	0.71	9.4	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.41	N/A	LIM	LIM	LIM	✓	0.62	9.4	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.19	N/A	LIM	LIM	LIM	✓	0.40	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.36	N/A	LIM	LIM	LIM	✓	0.57	9.4	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.78	N/A	LIM	LIM	LIM	✓	0.99	9.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	0.17	N/A	LIM	LIM	LIM	✓	0.38	9.2	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.39	N/A	LIM	LIM	LIM	✓	0.68	9.2	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.56	N/A	LIM	LIM	LIM	✓	0.77	9.2	✓	N/A
15	Lights Flats D E F	PVC T&E	100	15	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.62	N/A	LIM	LIM	LIM	✓	0.83	9.2	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.21	N/A	LIM	LIM	LIM	✓	0.42	9.2	✓	N/A

Test Results: DB Room 58

DB Location:	level 5 in kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.34kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	09 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.38	9.8	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.61	9.8	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.72	9.8	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.39	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.62	9.8	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.94	9.8	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.42	9.1	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.69	9.1	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.77	9.1	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.81	9.1	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.39	9.1	✓	N/A

Test Results: DB Room 59

DB Location:	level 5 in kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.27kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	09 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.21	N/A	LIM	LIM	LIM	✓	0.39	9.1	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	0.53	N/A	LIM	LIM	LIM	✓	0.71	9.1	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.34	N/A	LIM	LIM	LIM	✓	0.52	9.1	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.38	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.36	N/A	LIM	LIM	LIM	✓	0.54	9.1	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.78	N/A	LIM	LIM	LIM	✓	0.96	9.1	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	0.23	N/A	LIM	LIM	LIM	✓	0.41	9.5	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.48	N/A	LIM	LIM	LIM	✓	0.66	9.5	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.55	N/A	LIM	LIM	LIM	✓	0.73	9.5	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.64	N/A	LIM	LIM	LIM	✓	0.82	9.5	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.38	9.5	✓	N/A

Test Results: DB Room 60

DB Location:	level 5 in the kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.47kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0..37	9.7	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.67	9.7	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.69	9.7	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.37	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.68	9.7	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	1.05	9.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.38	10.5	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.71	10.5	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.83	10.5	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.77	10.5	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	--	N/A	LIM	N/A	N/A	✓	0.48	10.5	✓	N/A

Test Results: DB Room 61

DB Location:	level 6 in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.14kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	--	--	--	0.18	N/A	LIM	LIM	LIM	✓	0.38	19.8	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	--	--	--	0.57	N/A	LIM	LIM	LIM	✓	0.77	19.8	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	--	--	--	0.48	N/A	LIM	LIM	LIM	✓	0.68	19.8	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	--	--	--	0.13	N/A	LIM	LIM	LIM	✓	0.33	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	--	--	--	0.43	N/A	LIM	LIM	LIM	✓	0.63	19.8	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	--	--	--	0.75	N/A	LIM	LIM	LIM	✓	0.95	19.8	✓	N/A
7	Spare	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	--	--	--	0.20	N/A	LIM	LIM	LIM	✓	0.40	21.0	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	--	--	--	0.51	N/A	LIM	LIM	LIM	✓	0.71	21.0	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	--	--	--	0.58	N/A	LIM	LIM	LIM	✓	0.78	21.0	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	--	--	--	0.66	N/A	LIM	LIM	LIM	✓	0.86	21.0	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	--	--	--	0.13	N/A	LIM	LIM	LIM	✓	0.33	21.0	✓	N/A

Test Results: DB Room 62

DB Location:	level 6 in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.44kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.22	N/A	LIM	LIM	LIM	✓	0.38	20.1	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	0.54	N/A	LIM	LIM	LIM	✓	0.70	20.1	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.50	N/A	LIM	LIM	LIM	✓	0.66	20.1	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.22	N/A	LIM	LIM	LIM	✓	0.38	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.53	N/A	LIM	LIM	LIM	✓	0.69	20.1	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.78	N/A	LIM	LIM	LIM	✓	0.94	20.1	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	0.18	N/A	LIM	LIM	LIM	✓	0.34	10.3	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.63	N/A	LIM	LIM	LIM	✓	0.79	10.3	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.53	N/A	LIM	LIM	LIM	✓	0.69	10.3	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.61	N/A	LIM	LIM	LIM	✓	0.77	10.3	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.36	10.3	✓	N/A

Test Results: DB Room 63

DB Location:	Level 6 in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.07kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.35	9.5	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	AC	30	80	2	LIM	LIM	LIM	0.50	N/A	LIM	LIM	LIM	✓	0.71	9.5	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.42	N/A	LIM	LIM	LIM	✓	0.63	9.5	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.12	N/A	LIM	LIM	LIM	✓	0.33	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.37	N/A	LIM	LIM	LIM	✓	0.58	9.5	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.73	N/A	LIM	LIM	LIM	✓	0.94	9.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	80	2	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	✓	0.37	9.5	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.48	N/A	LIM	LIM	LIM	✓	0.69	9.5	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	AC	30	80	2	LIM	LIM	LIM	0.43	N/A	LIM	LIM	LIM	✓	0.64	9.5	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	AC	30	80	2	LIM	LIM	LIM	0.55	N/A	LIM	LIM	LIM	✓	0.76	9.5	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	AC	30	80	2	LIM	LIM	LIM	0.21	N/A	LIM	LIM	LIM	✓	0.42	9.5	✓	N/A

Test Results: DB Room 64

DB Location:	level 7 in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.36Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.65kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	08 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.05	N/A	LIM	LIM	LIM	✓	0.41	18.9	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.35	N/A	LIM	LIM	LIM	✓	0.71	18.9	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.32	N/A	LIM	LIM	LIM	✓	0.68	18.9	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.08	N/A	LIM	LIM	LIM	✓	0.44	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.35	N/A	LIM	LIM	LIM	✓	0.71	18.9	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.76	N/A	LIM	LIM	LIM	✓	1.12	18.9	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.06	N/A	LIM	LIM	LIM	✓	0.42	10.3	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.25	N/A	LIM	LIM	LIM	✓	0.61	10.3	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.26	N/A	LIM	LIM	LIM	✓	0.62	10.3	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.43	N/A	LIM	LIM	LIM	✓	0.79	10.3	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.56	10.3	✓	N/A

Test Results: DB Room 65

DB Location:	level 7 S.7.1	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.06kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.17	N/A	LIM	LIM	LIM	✓	0.38	10.5	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.45	N/A	LIM	LIM	LIM	✓	0.66	10.5	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.40	N/A	LIM	LIM	LIM	✓	0.61	10.5	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	✓	0.37	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.23	N/A	LIM	LIM	LIM	✓	0.44	10.5	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.73	N/A	LIM	LIM	LIM	✓	0.94	10.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	✓	0.37	9.7	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.30	N/A	LIM	LIM	LIM	✓	0.51	9.7	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.61	N/A	LIM	LIM	LIM	✓	0.82	9.7	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.64	N/A	LIM	LIM	LIM	✓	0.85	9.7	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.12	N/A	LIM	LIM	LIM	✓	0.33	9.7	✓	N/A

Test Results: DB Room 66

DB Location:	level 7 kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.24Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.95kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.15	N/A	LIM	LIM	LIM	✓	0.39	9.8	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.71	N/A	LIM	LIM	LIM	✓	0.95	9.8	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.39	N/A	LIM	LIM	LIM	✓	0.63	9.8	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.15	N/A	LIM	LIM	LIM	✓	0.39	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.42	N/A	LIM	LIM	LIM	✓	0.66	9.8	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.78	N/A	LIM	LIM	LIM	✓	1.02	9.8	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.13	N/A	LIM	LIM	LIM	✓	0.37	10.3	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.55	N/A	LIM	LIM	LIM	✓	0.79	10.3	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.39	N/A	LIM	LIM	LIM	✓	0.63	10.3	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.57	N/A	LIM	LIM	LIM	✓	0.81	10.3	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.38	10.3	✓	N/A

Test Results: DB Room 67

DB Location:	Level 8 in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.15kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	--	80	--	LIM	LIM	LIM	0.12	N/A	LIM	LIM	LIM	✓	0.32	--	--	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	--	80	--	LIM	LIM	LIM	0.57	N/A	LIM	LIM	LIM	✓	0.77	--	--	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	--	80	--	LIM	LIM	LIM	0.41	N/A	LIM	LIM	LIM	✓	0.61	--	--	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.15	N/A	LIM	LIM	LIM	✓	0.35	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	--	80	--	LIM	LIM	LIM	0.43	N/A	LIM	LIM	LIM	✓	0.63	--	--	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	--	80	--	LIM	LIM	LIM	0.86	N/A	LIM	LIM	LIM	✓	1.06	--	--	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	--	80	--	LIM	LIM	LIM	0.13	N/A	LIM	LIM	LIM	✓	0.33	--	--	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	--	80	--	LIM	LIM	LIM	0.51	N/A	LIM	LIM	LIM	✓	0.71	--	--	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	--	80	--	LIM	LIM	LIM	0.46	N/A	LIM	LIM	LIM	✓	0.66	--	--	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	--	80	--	LIM	LIM	LIM	0.58	N/A	LIM	LIM	LIM	✓	0.78	--	--	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	--	80	--	LIM	LIM	LIM	0.30	N/A	LIM	LIM	LIM	✓	0.50	--	--	N/A

Test Results: DB Room 68

DB Location:	Room 70 Level 8 in kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.25kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	08 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.36	9.7	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.92	9.7	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.69	9.7	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.33	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.54	9.7	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.95	9.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.37	9.1	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.69	9.1	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.65	9.1	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.74	9.1	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	✓	0.56	9.1	✓	N/A

Test Results: DB Room 69

DB Location:	level 8 kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.29kA	Vulnerable circuits and/or installed equipment:	Led lamps 0.18
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.32	10.8	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.46	N/A	LIM	LIM	LIM	✓	0.64	10.8	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.53	N/A	LIM	LIM	LIM	✓	0.71	10.8	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	LIM	LIM	LIM	0.19	N/A	LIM	LIM	LIM	✓	0.37	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.40	N/A	LIM	LIM	LIM	✓	0.58	10.8	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.87	N/A	LIM	LIM	LIM	✓	1.05	10.8	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.38	9.5	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.41	N/A	LIM	LIM	LIM	✓	0.59	9.5	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.43	N/A	LIM	LIM	LIM	✓	0.61	9.5	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.59	N/A	LIM	LIM	LIM	✓	0.77	9.5	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.32	9.5	✓	N/A

Test Results: DB Room 70

DB Location:	In kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.19Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.18kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.39	19.7	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.54	N/A	LIM	LIM	LIM	✓	0.73	19.7	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.63	N/A	LIM	LIM	LIM	✓	0.82	19.7	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	LIM	LIM	LIM	0.22	N/A	LIM	LIM	LIM	✓	0.41	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.36	N/A	LIM	LIM	LIM	✓	0.55	19.7	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.72	N/A	LIM	LIM	LIM	✓	0.91	19.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.18	N/A	LIM	LIM	LIM	✓	0.37	17.3	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.39	N/A	LIM	LIM	LIM	✓	0.58	17.3	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.52	N/A	LIM	LIM	LIM	✓	0.71	17.3	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.88	N/A	LIM	LIM	LIM	✓	1.07	17.3	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.36	N/A	LIM	LIM	LIM	✓	0.55	17.3	✓	N/A

Test Results: DB Room 71

DB Location:	Level 9 in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.19Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.21kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	08 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.17	N/A	LIM	LIM	LIM	✓	0.36	9.0	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.49	N/A	LIM	LIM	LIM	✓	0.68	9.0	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.34	N/A	LIM	LIM	LIM	✓	0.53	9.0	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.39	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.34	N/A	LIM	LIM	LIM	✓	0.53	9.0	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.83	N/A	LIM	LIM	LIM	✓	1.02	9.0	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.33	9.5	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.28	N/A	LIM	LIM	LIM	✓	0.47	9.5	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.12	N/A	LIM	LIM	LIM	✓	0.31	9.5	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.32	N/A	LIM	LIM	LIM	✓	0.51	9.5	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.18	N/A	LIM	LIM	LIM	✓	0.37	9.5	✓	N/A

Test Results: DB Room 72

DB Location:	Level 9 in kichen high Level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.40kA	Vulnerable circuits and/or installed equipment:	Led Lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.26	N/A	LIM	LIM	LIM	✓	0.42	9.7	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.63	N/A	LIM	LIM	LIM	✓	0.79	9.7	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.46	N/A	LIM	LIM	LIM	✓	0.62	9.7	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	LIM	LIM	LIM	0.21	N/A	LIM	LIM	LIM	✓	0.37	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.32	N/A	LIM	LIM	LIM	✓	0.48	9.7	✓	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.78	N/A	LIM	LIM	LIM	✓	0.94	9.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.20	N/A	LIM	LIM	LIM	✓	0.36	9.7	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.56	N/A	LIM	LIM	LIM	✓	0.72	9.7	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.45	N/A	LIM	LIM	LIM	✓	0.61	9.7	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.43	N/A	LIM	LIM	LIM	✓	0.59	9.7	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.30	9.7	✓	N/A

Test Results: DB Room 76

DB Location:	in kitchen high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.13kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.13	N/A	LIM	LIM	LIM	✓	0.33	9.7	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	LIM	LIM	LIM	0.55	N/A	LIM	LIM	LIM	✓	0.75	9.7	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.46	N/A	LIM	LIM	LIM	✓	0.66	9.7	✓	N/A
4	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.29	N/A	LIM	LIM	LIM	✓	0.49	9.7	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	0.14	N/A	LIM	LIM	LIM	✓	0.34	--	--	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.85	N/A	LIM	LIM	LIM	✓	1.05	9.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	--	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	LIM	LIM	LIM	0.13	N/A	LIM	LIM	LIM	✓	0.33	10.4	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	--	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.17	N/A	LIM	LIM	LIM	✓	0.37	10.4	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	--	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.27	N/A	LIM	LIM	LIM	✓	0.47	10.4	✓	N/A
15	Lights Flats D E F	PVC T&E	100	--	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	LIM	LIM	LIM	0.58	N/A	LIM	LIM	LIM	✓	0.78	10.4	✓	N/A
16	Kitchen Sockets	PVC T&E	100	--	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.52	N/A	LIM	LIM	LIM	✓	0.72	10.4	✓	N/A

Test Results: DB S-G

DB Location:	post room	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.19Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	MEM 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.23kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.05	N/A	LIM	N/A	LIM	LIM	✓	0.26	--	--	N/A
1 L2	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.03	N/A	LIM	N/A	LIM	LIM	✓	0.22	--	--	N/A
1 L3	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.07	N/A	LIM	N/A	LIM	LIM	✓	0.28	--	--	N/A
2 L1	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.12	N/A	LIM	N/A	LIM	LIM	✓	0.31	--	--	N/A
2 L2	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.11	N/A	LIM	N/A	LIM	LIM	✓	0.30	--	--	N/A
2 L3	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.04	N/A	LIM	N/A	LIM	LIM	✓	0.23	--	--	N/A
3 L1	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.07	N/A	LIM	N/A	LIM	LIM	✓	0.26	--	--	N/A
3 L2	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	N/A	LIM	LIM	✓	0.32	--	--	N/A
3 L3	Emergency lighting	LSHF T&E	C	1	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	0.15	N/A	LIM	N/A	LIM	LIM	✓	0.34	--	--	N/A
4 L1	Unknown	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
4 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Unknown	LSHF T&E	C	LIM	1.5	1.0	0.4	60898	C	10	10	2.30	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
5 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Sockets Down	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	--	--	32	--	N/A	N/A	N/A	0.24	N/A	LIM	N/A	LIM	LIM	✓	0.43	--	--	N/A
6 L2	Unknown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A

Test Results: DB S-G

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
6 L3	Store and waiting area sockets	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	--	--	32	--	N/A	N/A	N/A	0.13	N/A	LIM	N/A	LIM	LIM	✓	0.34	--	--	N/A
7 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Sockets	LSHF T&E	C	LIM	2.5	1.5	0.4	61009	B	32	10	1.37	61009	--	--	32	--	N/A	N/A	N/A	0.24	N/A	LIM	N/A	LIM	LIM	✓	0.43	--	--	N/A
8 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Unknown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
8 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Sockets	LSHF T&E	C	LIM	4.0	2.5	0.4	61009	B	20	10	2.19	61009	--	--	20	--	N/A	N/A	N/A	0.06	N/A	LIM	N/A	LIM	LIM	✓	0.25	--	--	N/A
9 L2	Sockets	LSHF T&E	C	LIM	4.0	2.5	0.4	61009	B	20	10	2.19	61009	--	--	20	--	N/A	N/A	N/A	0.12	N/A	LIM	N/A	LIM	LIM	✓	0.31	--	--	N/A
9 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Sockets Down	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	--	--	32	--	N/A	N/A	N/A	0.14	N/A	LIM	N/A	LIM	LIM	✓	0.33	--	--	N/A
10 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Unknown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	16	10	2.73	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
12 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Unknown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	16	10	2.73	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
13 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
13 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
13 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
15 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S-G

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
15 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
15 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
16 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
16 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
16 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18 L1	Unknown	LSHF T&E	C	LIM	2.5	1.5	0.4	60898	B	16	10	2.73	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
18 L2	Unknown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
18 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
19 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
19 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
19 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
20 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
20 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
20 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
21 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
21 L2	Unkown	LSHF T&E	C	LIM	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	NV	N/A	LIM	N/A	LIM	LIM	✓	NV	--	--	N/A
21 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
22 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
22 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
22 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
23 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
23 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
23 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
24 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S-G

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
24 L2	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
24 L3	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S10.3 Room 77

DB Location:	Left of hob high level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.5kA	Vulnerable circuits and/or installed equipment:	Led lights
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.12	N/A	LIM	LIM	LIM	✓	0.27	9.2	✓	N/A
2	Lights Flats A B C	PVC T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.67	N/A	LIM	LIM	LIM	✓	0.82	9.2	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	LIM	LIM	LIM	✓	0.66	9.2	✓	N/A
4	Sockets Flats A B C	PVC T&E	100	12	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.55	0.37	N/A	LIM	LIM	LIM	✓	0.52	9.2	✓	N/A
4	Kitchen Heater	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	N/A	N/A	N/A	0.22	N/A	N/A	N/A	N/A	N/A	0.37	--	--	N/A
6	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	1.02	N/A	LIM	LIM	LIM	✓	1.17	9.2	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	LIM	LIM	LIM	✓	0.33	9.6	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	12	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.45	0.25	N/A	LIM	LIM	LIM	✓	0.4	9.6	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	LIM	LIM	LIM	✓	0.33	9.6	✓	N/A
15	Lights Flats D E F	PVC T&E	100	9	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.3	N/A	LIM	LIM	LIM	✓	0.45	9.6	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.34	0.16	N/A	LIM	LIM	LIM	✓	0.31	9.6	✓	N/A

Test Results: DB S1B

DB Location:	Level 1 B Block	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.14Ω	SPD Functionality Confirmed:	LIM
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.6kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Supply to Db.LL.1B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
1 L2	Supply To DB.LL.1.B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
1 L3	Supply To Db.LL.1B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
2 L1	Db Supply to Studio 1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to Studio 2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to Studio 3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.1.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.1.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.1.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L1	Db Supply To Db.S.2.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L2	Db Supply to S.2.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L3	Db Supply to S.2.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S1B

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S4A

DB Location:	Floor 4 in Cupboard	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.51kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time (ms)	Test Button	Manual / AFDD Test Button
1 L1	Supply to Db.LL.4A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.09	--	--	N/A
1 L2	Supply To DB.LL.4A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.09	--	--	N/A
1 L3	Supply To Db.LL.4A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.09	--	--	N/A
2 L1	Db Supply to room S.3.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to room S.3.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to room S.3.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.3.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.4.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.4.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L1	Db Supply To Db.S.4.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L2	Db Supply to S.4.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L3	Db Supply to S.5.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
5 L1	Db Supply to S.5.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
5 L2	Db Supply to S.5.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
5 L3	Db Supply to S.5.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S4A

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S4B

DB Location:	4TH Floor above LL4B	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.16kA	Vulnerable circuits and/or installed equipment:	
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Supply to Db.LL.4B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
1 L2	Supply To DB.LL.4B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
1 L3	Supply To Db.LL.4B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
2 L1	Db Supply to room S.3.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.15	--	--	N/A
2 L2	Db Supply to room S.3.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.09	--	--	N/A
2 L3	Db Supply to room S.3.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.13	--	--	N/A
3 L1	Db Supply S.4.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.12	--	--	N/A
3 L2	Db Supply to S.4.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.15	--	--	N/A
3 L3	Db Supply to S.4.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.21	--	--	N/A
4 L1	Db Supply To Db.S.5.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.09	--	--	N/A
4 L2	Db Supply to S.5.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.16	--	--	N/A
4 L3	Db Supply to S.5.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	0.01	N/A	LIM	N/A	LIM	LIM	✓	0.21	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S4B

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S5A Fith Floor in Cupboard

DB Location:	level 5 riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.23Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.00kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Lights stair 2 levels 6-10	LSHF PVC	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	N/A	LIM	LIM	✓	LIM	--	--	N/A
1 L2	Lights stairs 2 levels 0-5	LSHF PVC	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	N/A	LIM	LIM	✓	LIM	--	--	N/A
1 L3	Lights stairs 1 levels 6-10	LSHF PVC	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.04	N/A	LIM	N/A	LIM	LIM	✓	0.27	--	--	N/A
2 L1	Lights stairs 1 levels 0-5	LSHF PVC	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.07	N/A	LIM	N/A	LIM	LIM	✓	0.30	--	--	N/A
2 L2	Colt Opv heart module level 0	LSHF PVC	C	1	2.5	1.5	0.4	60898	C	16	10	1.37	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	N/A	LIM	LIM	✓	LIM	--	--	N/A
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
3 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			--	--	N/A

Test Results: DB S7A

DB Location:	7th Floor Riser in cupboard	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.36kA	Vulnerable circuits and/or installed equipment:	Led Lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Supply to Db.LL.7A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	0.08	--	--	N/A
1 L2	Supply To DB.LL.7A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	0.08	--	--	N/A
1 L3	Supply To Db.LL.7A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	0.08	--	--	N/A
2 L1	Db Supply to room S.6.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to room S.6.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to room S.6.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.6.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.7.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.7.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
4 L1	Db Supply To Db.S.7.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
4 L2	Db Supply to S.7.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
4 L3	Db Supply to S.8.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
5 L1	Db Supply to S.8.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
5 L2	Db Supply to S.8.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	--	--	--	N/A
5 L3	Db Supply to S.8.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	N/A	N/A	LIM	LIM	✓	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				--	N/A

Test Results: DB S7A

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	N/A	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LIM	LIM	N/A	N/A	--	--	N/A
7 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LIM	LIM	N/A	N/A	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LIM	LIM	N/A	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LIM	LIM	N/A	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S7B

DB Location:	Level 7 in Cupboard	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.33Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.69kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Supply to Db.LL.7B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.39	--	--	N/A
1 L2	Supply To DB.LL.7B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.39	--	--	N/A
1 L3	Supply To Db.LL.7B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	0.39	--	--	N/A
2 L1	Db Supply to room S.6.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to room S.6.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to room S.6.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.7.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.7.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.7.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L1	Db Supply To Db.S.8.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L2	Db Supply to S.8.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L3	Db Supply to S.8.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S7B

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
7 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: DB S9A Above LL9A

DB Location:	9th Floor in Cupboard	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.36kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Supply to Db.LL.9	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	0.08	--	--	N/A
1 L2	Supply To DB.LL.9	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	0.08	--	--	N/A
1 L3	Supply To Db.LL.9	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	0.08	--	--	N/A
2 L1	Db Supply to room S.9.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to room S.9.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to room S.9.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.9.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.10.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.10.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L1	Db Supply To Db.S.10.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L2	Db Supply to S.10.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	LIM	✓	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	LIM	✓	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	LIM	✓	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	LIM	✓	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S9A Above LL9A

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S9A East riser level 9

DB Location:	level 9	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.08Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.85kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Cleaners sockets level 9	LSHF T&E	C	NV	4.0	2.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	LIM	LIM	LIM	0.16	N/A	LIM	LIM	LIM	LIM	✓	0.22	LIM	LIM	N/A
1 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
1 L3	TV amplifier level 10	LSHF T&E	C	1	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
2 L1	Cleaners socket level 10	LSHF T&E	C	NV	4.0	2.5	0.4	61009	B	32	10	1.37	61009	B	30	32	2	LIM	LIM	LIM	0.15	N/A	LIM	N/A	LIM	LIM	✓	0.21	LIM	LIM	N/A
2 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Level 10 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.18	N/A	LIM	N/A	LIM	LIM	✓	0.26	--	--	N/A
5 L3	Level 9 lobby lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.12	N/A	LIM	N/A	LIM	LIM	✓	0.20	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L2	Level 10 lobby lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.14	N/A	LIM	N/A	LIM	LIM	✓	0.22	--	--	N/A
6 L3	Level 9 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.10	N/A	LIM	N/A	LIM	LIM	✓	0.18	--	--	N/A
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S9A East riser level 9

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L2	Level 10 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.22	N/A	LIM	N/A	LIM	LIM	✓	0.30	----------	----------	N/A
7 L3	Level 9 corridor lighting	LSHF T&E	C	NV	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	N/A	LIM	LIM	✓	0.21	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	----------	----------	N/A

Test Results: DB S9B

DB Location:	Level 9 in cupboard	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.19Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 2Ø Distribution Board [Double Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.19kA	Vulnerable circuits and/or installed equipment:	Led lamps
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Supply to Db.LL.9.B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
1 L2	Supply To DB.LL.9.B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
1 L3	Supply To Db.LL.9.B	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L1	Db Supply to room S.9.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to room S.9.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to room S.9.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.10.1	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.10.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.10.4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	N/A	N/A	N/A	--	N/A	LIM	LIM	LIM	LIM	✓	--	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB S9B

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results		
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 20

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.72kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.42	9.12	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.40	9.12	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.57	9.12	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.47	9.12	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.49	0.41	N/A	250V	>999	>999	✓	0.54	9.12	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.55	N/A	250V	>999	>999	✓	0.68	9.12	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.21	0.21	0.44	0.35	N/A	250V	>999	>999	✓	0.48	11.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.55	11.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	250V	>999	>999	✓	0.31	11.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.30	0.52	0.63	N/A	250V	>999	>999	✓	0.76	11.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.47	11.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 97

DB Location:	kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.37kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.23	0.46	0.36	N/A	250V	>999	>999	✓	0.53	9.00	✓	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.43	9.00	✓	N/A
3	Lights Down	LSHF T&E	100	2	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.45	9.00	✓	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.45	0.31	N/A	250V	>999	>999	✓	0.48	20.6	✓	N/A
7	Heaters	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.55	20.6	✓	N/A
8	Bathroom fan and lights	LSHF T&E	100	2	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	LIM	N/A	250V	>999	>999	✓	LIM	20.6	✓	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.47	20.6	✓	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 98

DB Location:	Kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	200V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.99kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.29	0.47	0.31	N/A	250V	>999	>999	✓	0.43	10.3	✓	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.42	10.3	✓	N/A
3	Lights Down	LSHF T&E	100	2	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.41	10.3	✓	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.22	0.44	0.46	N/A	250V	>999	>999	✓	0.58	8.99	✓	N/A
7	Heaters	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.43	8.99	✓	N/A
8	Bathroom fan and lights	LSHF T&E	100	2	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	LIM	N/A	250V	>999	>999	✓	LIM	8.99	✓	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.64	8.99	✓	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 40

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.87kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.38	7.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.44	7.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.55	7.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.43	7.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.32	0.54	0.60	N/A	250V	>999	>999	✓	0.72	7.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.21	N/A	250V	>999	>999	✓	0.33	7.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.43	0.32	N/A	250V	>999	>999	✓	0.44	9.0	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.60	9.0	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.64	9.0	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.33	0.33	0.55	0.65	N/A	250V	>999	>999	✓	0.77	9.0	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.52	9.0	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 100

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.22Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.04kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.52	8.99	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.12	N/A	250V	>999	>999	✓	0.34	8.99	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.45	8.99	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.48	8.99	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.45	0.48	N/A	250V	>999	>999	✓	0.70	8.99	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	250V	>999	>999	✓	0.40	8.99	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.24	0.44	0.22	N/A	250V	>999	>999	✓	0.50	11.1	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.63	11.1	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.56	11.1	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.53	0.61	N/A	250V	>999	>999	✓	0.83	11.1	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.20	N/A	250V	>999	>999	✓	0.42	11.1	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 101

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.09kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.60	14.5	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	>999	>999	✓	0.46	14.5	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.56	14.5	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.51	14.5	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.48	0.45	N/A	250V	>999	>999	✓	0.66	14.5	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.22	N/A	250V	>999	>999	✓	0.43	14.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.51	0.29	N/A	250V	>999	>999	✓	0.50	10.8	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.55	10.8	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.63	10.8	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.26	0.47	0.54	N/A	250V	>999	>999	✓	0.75	10.8	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.52	10.8	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 5

DB Location:	kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.09Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.90kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.32	0.54	0.32	N/A	250V	>999	>999	✓	0.41	10.4	✓	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.39	10.4	✓	N/A
3	Lights Down	LSHF T&E	100	2	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.57	10.4	✓	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.35	0.35	0.58	0.39	N/A	250V	>999	>999	✓	0.48	10.4	✓	N/A
7	Heaters	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.54	10.4	✓	N/A
8	Bathroom fan and lights	LSHF T&E	100	2	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	LIM	N/A	250V	>999	>999	✓	LIM	10.4	✓	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.54	10.4	✓	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 53

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.11Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.15kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.47	16.3	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.52	16.3	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.53	N/A	250V	>999	>999	✓	0.64	16.3	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.53	16.3	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.26	0.47	0.58	N/A	250V	>999	>999	✓	0.69	16.3	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.38	16.3	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.44	0.43	N/A	250V	>999	>999	✓	0.54	10.7	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.57	N/A	250V	>999	>999	✓	0.68	10.7	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.54	N/A	250V	>999	>999	✓	0.65	10.7	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.50	0.74	N/A	250V	>999	>999	✓	0.85	10.7	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.52	10.7	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 104

DB Location:	kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.09Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.52kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.60	0.45	N/A	250V	>999	>999	✓	0.44	15.2	✓	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.39	15.2	✓	N/A
3	Lights Down	LSHF T&E	100	2	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.57	15.2	✓	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.39	0.38	0.66	0.35	N/A	250V	>999	>999	✓	0.44	18.6	✓	N/A
7	Heaters	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.46	18.6	✓	N/A
8	Bathroom fan and lights	LSHF T&E	100	2	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	LIM	N/A	250V	>999	>999	✓	LIM	18.6	✓	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.32	18.6	✓	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 105

DB Location:	kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.08Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.94kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.33	0.33	0.59	0.40	N/A	250V	>999	>999	✓	0.48	9.22	✓	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.37	9.22	✓	N/A
3	Lights Down	LSHF T&E	100	2	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.38	9.22	✓	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.53	0.40	N/A	250V	>999	>999	✓	0.48	19.4	✓	N/A
7	Heaters	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.44	19.4	✓	N/A
8	Bathroom fan and lights	LSHF T&E	100	2	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	LIM	N/A	250V	>999	>999	✓	LIM	19.4	✓	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.58	19.4	✓	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
13	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
15	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat 106

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.80kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.40	14.6	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.43	14.6	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.54	14.6	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.51	14.6	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.53	0.54	N/A	250V	>999	>999	✓	0.67	14.6	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.69	N/A	250V	>999	>999	✓	0.82	14.6	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.49	0.40	N/A	250V	>999	>999	✓	0.53	11.2	✓	N/A
12	Lights flats 4,5	LSHF T&E	100	6	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.58	11.2	✓	N/A
13	heaters flats 4,5	LSHF T&E	100	2	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.60	11.2	✓	N/A
14	Sockets flats 4,5	LSHF T&E	100	10	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.50	0.49	N/A	250V	>999	>999	✓	0.62	11.2	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.42	11.2	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flat number 2

DB Location:	kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.14Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.69kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Kitchen sockets	LSHF T&E	100	4	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.56	0.32	N/A	250V	>999	>999	✓	0.46	19.2	✓	N/A
2	Hob	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.46	19.2	✓	N/A
3	Lights Down	LSHF T&E	100	2	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	250V	>999	>999	✓	0.42	19.2	✓	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6	Sockets Down	LSHF T&E	100	6	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.21	0.21	0.42	0.32	N/A	250V	>999	>999	✓	0.46	9.32	✓	N/A
7	Heaters	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.49	9.32	✓	N/A
8	Bathroom fan and lights	LSHF T&E	100	2	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	LIM	N/A	250V	>999	>999	✓	LIM	9.32	✓	N/A
9	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	>999	>999	✓	0.39	9.32	✓	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 108

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.14Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.68kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N/ / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.57	21.2	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.49	N/A	250V	>999	>999	✓	0.63	21.2	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.55	N/A	250V	>999	>999	✓	0.69	21.2	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.51	21.2	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.53	0.44	N/A	250V	>999	>999	✓	0.58	21.2	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.77	N/A	250V	>999	>999	✓	0.91	21.2	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.21	0.39	0.33	N/A	250V	>999	>999	✓	0.47	8.81	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.45	8.81	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.66	8.81	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.40	0.47	N/A	250V	>999	>999	✓	0.61	8.81	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.64	N/A	250V	>999	>999	✓	0.78	8.81	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	--	--	N/A

Test Results: DB flats 109

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.19Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.21kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.71	10.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.56	10.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.46	10.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.66	10.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.41	0.36	N/A	250V	>999	>999	✓	0.55	10.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.61	N/A	250V	>999	>999	✓	0.80	10.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.40	0.39	0.58	0.46	N/A	250V	>999	>999	✓	0.65	10.5	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.58	10.5	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.60	10.5	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.37	0.36	0.57	0.41	N/A	250V	>999	>999	✓	0.60	10.5	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.62	10.5	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 110

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.11Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.08kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.55	7.50	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.61	7.50	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.63	7.50	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.46	7.50	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.43	0.58	N/A	250V	>999	>999	✓	0.69	7.50	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.79	N/A	250V	>999	>999	✓	0.90	7.50	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.42	0.40	N/A	250V	>999	>999	✓	0.51	10.7	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.51	10.7	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.55	N/A	250V	>999	>999	✓	0.66	10.7	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.28	0.47	0.62	N/A	250V	>999	>999	✓	0.73	10.7	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.43	10.7	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 111

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.48kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.52	9.62	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.59	9.62	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.66	9.62	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.62	N/A	250V	>999	>999	✓	0.78	9.62	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.29	0.43	0.39	N/A	250V	>999	>999	✓	0.55	9.62	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.84	N/A	250V	>999	>999	✓	1.00	9.62	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.40	0.38	N/A	250V	>999	>999	✓	0.54	10.6	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.63	10.6	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.49	N/A	250V	>999	>999	✓	0.65	10.6	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.36	0.35	0.54	0.45	N/A	250V	>999	>999	✓	0.61	10.6	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.64	10.6	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 112

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.33kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.51	20.9	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.48	20.9	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.63	20.9	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.54	20.9	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.25	0.41	0.54	N/A	250V	>999	>999	✓	0.71	20.9	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.60	N/A	250V	>999	>999	✓	0.77	20.9	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.29	0.47	0.36	N/A	250V	>999	>999	✓	0.53	10.3	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.54	10.3	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.67	10.3	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.41	0.63	N/A	250V	>999	>999	✓	0.80	10.3	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.57	10.3	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 113

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.14Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.69kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.60	N/A	250V	>999	>999	✓	0.74	20.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.44	20.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.51	20.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.49	20.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.43	0.66	N/A	250V	>999	>999	✓	0.80	20.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.65	N/A	250V	>999	>999	✓	0.79	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.47	0.51	N/A	250V	>999	>999	✓	0.61	20.9	✓	N/A
12	Lights flats 4,5	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.66	20.9	✓	N/A
13	heaters flats 4,5	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.65	20.9	✓	N/A
14	Sockets flats 4,5	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.20	0.20	0.37	0.54	N/A	250V	>999	>999	✓	0.68	20.9	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.55	N/A	250V	>999	>999	✓	0.69	20.9	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 114

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.55kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.50	16.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.50	16.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.63	16.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.54	16.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.34	0.34	0.52	0.61	N/A	250V	>999	>999	✓	0.76	16.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.73	N/A	250V	>999	>999	✓	0.88	16.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.49	0.36	N/A	250V	>999	>999	✓	0.51	11.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.51	11.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.63	11.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.49	0.41	N/A	250V	>999	>999	✓	0.66	11.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.61	11.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 115

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.53kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.58	19.8	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.56	19.8	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.61	19.8	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.49	19.8	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.45	0.59	N/A	250V	>999	>999	✓	0.74	19.8	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.71	N/A	250V	>999	>999	✓	0.86	19.8	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.20	0.19	0.38	0.54	N/A	250V	>999	>999	✓	0.69	11.0	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.54	11.0	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.91	N/A	250V	>999	>999	✓	1.06	11.0	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.29	0.51	0.52	N/A	250V	>999	>999	✓	0.67	11.0	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.53	11.0	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 116

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.40kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N/A / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.44	19.7	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.48	19.7	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.66	19.7	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.53	19.7	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.46	0.54	N/A	250V	>999	>999	✓	0.70	19.7	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.64	N/A	250V	>999	>999	✓	0.80	19.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.22	0.43	0.40	N/A	250V	>999	>999	✓	0.56	13.33	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.53	13.33	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.61	N/A	250V	>999	>999	✓	0.77	13.33	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.30	0.48	0.78	N/A	250V	>999	>999	✓	0.94	13.33	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.47	13.33	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 117

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.76kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.53	11.3	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.47	11.3	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.53	N/A	250V	>999	>999	✓	0.66	11.3	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.63	11.3	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.25	0.47	0.61	N/A	250V	>999	>999	✓	0.74	11.3	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.57	11.3	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.42	0.33	N/A	250V	>999	>999	✓	0.46	19.1	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.54	19.1	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.59	19.1	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.32	0.31	0.55	0.65	N/A	250V	>999	>999	✓	0.78	19.1	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.48	19.1	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 118

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.23Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.01kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N/ / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	N/A	N/A	✓	0.60	9.62	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	N/A	N/A	✓	0.56	9.62	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.19	N/A	250V	N/A	N/A	✓	0.42	9.62	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	250V	N/A	N/A	✓	0.41	9.62	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.47	0.60	N/A	250V	N/A	N/A	✓	0.83	9.62	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.21	N/A	250V	N/A	N/A	✓	0.44	9.62	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.22	0.46	0.31	N/A	250V	N/A	N/A	✓	0.54	10.5	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	N/A	N/A	✓	0.71	10.5	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	N/A	N/A	✓	0.58	10.5	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.53	0.29	N/A	250V	N/A	N/A	✓	0.52	10.5	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	N/A	N/A	✓	0.68	10.5	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 119

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.18kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.71	9.01	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.12	N/A	250V	>999	>999	✓	0.32	9.01	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	>999	>999	✓	0.45	9.01	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.54	9.01	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.33	0.33	0.50	0.55	N/A	250V	>999	>999	✓	0.75	9.01	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.50	9.01	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.25	0.44	0.36	N/A	250V	>999	>999	✓	0.56	21.5	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.68	N/A	250V	>999	>999	✓	0.88	21.5	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.53	21.5	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.29	0.49	0.38	N/A	250V	>999	>999	✓	0.58	21.5	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.52	21.5	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 120

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.87kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.59	8.98	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	>999	>999	✓	0.37	8.98	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.20	N/A	250V	>999	>999	✓	0.32	8.98	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.44	8.98	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.52	0.60	N/A	250V	>999	>999	✓	0.72	8.98	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.20	N/A	250V	>999	>999	✓	0.32	8.98	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.21	0.21	0.42	0.36	N/A	250V	>999	>999	✓	0.48	10.7	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.46	10.7	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.58	10.7	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.35	0.34	0.59	0.64	N/A	250V	>999	>999	✓	0.76	10.7	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.64	10.7	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 121

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.22Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.02kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.48	20.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.24	N/A	250V	>999	>999	✓	0.46	20.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.50	20.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.54	20.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.31	0.50	0.37	N/A	250V	>999	>999	✓	0.59	20.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.24	N/A	250V	>999	>999	✓	0.46	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.49	0.37	N/A	250V	>999	>999	✓	0.59	13.5	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.62	13.5	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.59	13.5	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.36	0.37	0.57	0.62	N/A	250V	>999	>999	✓	0.84	13.5	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.64	13.5	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 122

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:		OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.14kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.60	20.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.48	20.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.50	20.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.50	20.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.48	0.44	N/A	250V	>999	>999	✓	0.62	20.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.44	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.16	0.16	0.37	0.36	N/A	250V	>999	>999	✓	0.54	19.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.63	19.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.55	19.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.28	0.47	0.66	N/A	250V	>999	>999	✓	0.84	19.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.62	19.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 123

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.47kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.57	11.0	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.46	11.0	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.43	11.0	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.55	11.0	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.21	0.38	0.51	N/A	250V	>999	>999	✓	0.67	11.0	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.45	11.0	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.47	0.34	N/A	250V	>999	>999	✓	0.50	11.2	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.58	11.2	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.53	N/A	250V	>999	>999	✓	0.69	11.2	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.26	0.48	0.67	N/A	250V	>999	>999	✓	0.83	11.2	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.62	N/A	250V	>999	>999	✓	0.78	11.2	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 124

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.11kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.60	10.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.22	N/A	250V	>999	>999	✓	0.43	10.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.11	N/A	250V	>999	>999	✓	0.32	10.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.56	10.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.25	0.45	0.54	N/A	250V	>999	>999	✓	0.75	10.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.21	N/A	250V	>999	>999	✓	0.42	10.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.25	0.45	0.31	N/A	250V	>999	>999	✓	0.52	20.1	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.58	20.1	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.62	20.1	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.48	0.53	N/A	250V	>999	>999	✓	0.74	20.1	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.63	20.1	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 125

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.38kA	Vulnerable circuits and/or installed equipment:	N/A
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.59	13.5	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.17	N/A	250V	>999	>999	✓	0.34	13.5	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.40	13.5	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.17	N/A	250V	>999	>999	✓	0.34	13.5	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.45	0.37	N/A	250V	>999	>999	✓	0.54	13.5	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.17	N/A	250V	>999	>999	✓	0.34	13.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.21	0.22	0.41	0.46	N/A	250V	>999	>999	✓	0.63	18.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.59	18.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.68	18.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.23	0.47	0.60	N/A	250V	>999	>999	✓	0.77	18.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.49	18.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 126

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.14Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.61kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.61	11.1	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.44	11.1	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.48	11.1	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.45	11.1	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.28	0.49	0.58	N/A	250V	>999	>999	✓	0.72	11.1	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.42	11.1	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.25	0.44	0.57	N/A	250V	>999	>999	✓	0.71	20.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.49	N/A	250V	>999	>999	✓	0.63	20.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.65	20.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.43	0.78	N/A	250V	>999	>999	✓	0.92	20.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.61	20.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 127

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.52kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.48	10.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	>999	>999	✓	0.40	10.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.43	10.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.56	10.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.49	0.50	N/A	250V	>999	>999	✓	0.65	10.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.44	10.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.48	0.43	N/A	250V	>999	>999	✓	0.58	17.8	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.62	17.8	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.58	17.8	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.29	0.53	0.76	N/A	250V	>999	>999	✓	0.91	17.8	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.60	17.8	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 128

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.24Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.93kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N/A / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.21	N/A	250V	>999	>999	✓	0.45	--	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.08	N/A	250V	>999	>999	✓	0.32	--	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.13	N/A	250V	>999	>999	✓	0.37	--	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.58	--	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.20	0.19	0.41	0.49	N/A	250V	>999	>999	✓	0.73	--	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.08	N/A	250V	>999	>999	✓	0.32	--	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.42	0.27	N/A	250V	>999	>999	✓	0.51	21.3	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.55	N/A	250V	>999	>999	✓	0.79	21.3	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.57	21.3	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.26	0.48	0.60	N/A	250V	>999	>999	✓	0.84	21.3	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	>999	>999	✓	0.49	21.3	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 129

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.30kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.64	17.6	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.45	17.6	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.50	17.6	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.48	17.6	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.50	0.53	N/A	250V	>999	>999	✓	0.71	17.6	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.51	17.6	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.49	0.47	N/A	250V	>999	>999	✓	0.65	10.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.52	10.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.52	10.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.27	0.46	0.66	N/A	250V	>999	>999	✓	0.84	10.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.61	N/A	250V	>999	>999	✓	0.79	10.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 130

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.17kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.59	14.3	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	250V	>999	>999	✓	0.38	14.3	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.24	N/A	250V	>999	>999	✓	0.44	14.3	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.43	14.3	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.49	0.53	N/A	250V	>999	>999	✓	0.73	14.3	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.16	N/A	250V	>999	>999	✓	0.36	14.3	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.26	0.46	0.37	N/A	250V	>999	>999	✓	0.57	10.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.63	10.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.71	10.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.23	0.41	0.65	N/A	250V	>999	>999	✓	0.85	10.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.54	10.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 131

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.17kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.58	11.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.43	11.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.50	11.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.46	11.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.42	0.51	N/A	250V	>999	>999	✓	0.71	11.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.43	11.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.29	0.52	0.28	N/A	250V	>999	>999	✓	0.48	11.2	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.62	11.2	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.58	11.2	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.34	0.35	0.55	0.60	N/A	250V	>999	>999	✓	0.80	11.2	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.63	11.2	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 132

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.76kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.47	10.7	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.55	10.7	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.52	10.7	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.42	10.7	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.47	0.54	N/A	250V	>999	>999	✓	0.67	10.7	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.24	N/A	250V	>999	>999	✓	0.37	10.7	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.46	0.45	N/A	250V	>999	>999	✓	0.58	12.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.52	N/A	250V	>999	>999	✓	0.65	12.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.57	N/A	250V	>999	>999	✓	0.70	12.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.23	0.44	0.68	N/A	250V	>999	>999	✓	0.81	12.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.63	12.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 133

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.47kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.62	10.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.52	10.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.58	10.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.52	10.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.30	0.52	0.60	N/A	250V	>999	>999	✓	0.76	10.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.62	10.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.32	0.32	0.52	0.29	N/A	250V	>999	>999	✓	0.45	23.7	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.60	23.7	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.66	23.7	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.48	0.70	N/A	250V	>999	>999	✓	0.86	23.7	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.46	23.7	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 134

DB Location:	communal	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.77kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.52	14.6	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.48	14.6	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.54	14.6	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.56	14.6	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.46	0.59	N/A	250V	>999	>999	✓	0.72	14.6	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.41	14.6	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.21	0.20	0.43	0.42	N/A	250V	>999	>999	✓	0.55	10.3	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.64	10.3	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.54	10.3	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.30	0.50	0.67	N/A	250V	>999	>999	✓	0.80	10.3	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.64	10.3	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 135

DB Location:	comunal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.20Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.14kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	N/A	N/A	✓	0.49	9.02	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.22	N/A	250V	N/A	N/A	✓	0.42	9.02	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	N/A	N/A	✓	0.47	9.02	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.25	N/A	250V	N/A	N/A	✓	0.45	9.02	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.45	0.45	N/A	250V	N/A	N/A	✓	0.65	9.02	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	N/A	N/A	✓	0.67	9.02	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.46	0.31	N/A	250V	N/A	N/A	✓	0.51	10.5	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	N/A	N/A	✓	0.57	10.5	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	N/A	N/A	✓	0.62	10.5	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.34	0.34	0.56	0.73	N/A	250V	N/A	N/A	✓	0.93	10.5	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	N/A	N/A	✓	0.55	10.5	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 136

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.93kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.60	20.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.42	20.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.58	20.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.48	20.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.52	0.65	N/A	250V	>999	>999	✓	0.77	20.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	>999	>999	✓	0.42	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.34	0.34	0.59	0.54	N/A	250V	>999	>999	✓	0.66	12.1	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.57	12.1	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.62	12.1	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.43	0.99	N/A	250V	>999	>999	✓	1.11	12.1	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.59	12.1	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 137

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.50kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.55	20.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.60	20.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.58	20.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.42	20.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.22	0.43	0.66	N/A	250V	>999	>999	✓	0.81	20.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.41	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.48	0.43	N/A	250V	>999	>999	✓	0.58	19.3	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.63	N/A	250V	>999	>999	✓	0.78	19.3	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.55	N/A	250V	>999	>999	✓	0.70	19.3	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.30	0.52	0.54	N/A	250V	>999	>999	✓	0.69	19.3	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.50	19.3	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 138

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.22Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.07kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.56	10.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.48	10.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.53	10.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	2	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.16	N/A	250V	>999	>999	✓	0.38	10.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.47	0.55	N/A	250V	>999	>999	✓	0.76	10.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.18	N/A	250V	>999	>999	✓	0.40	10.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.24	0.46	0.30	N/A	250V	>999	>999	✓	0.52	21.2	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.53	21.2	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.62	21.2	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.31	0.32	0.50	0.65	N/A	250V	>999	>999	✓	0.86	21.2	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.58	21.2	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 139

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.25Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.92kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	N/A / N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.32	N/A	250V	>999	>999	✓	0.57	11.1	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.65	11.1	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.52	11.1	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.23	N/A	250V	>999	>999	✓	0.48	11.1	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.48	0.46	N/A	250V	>999	>999	✓	0.71	11.1	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.08	N/A	250V	>999	>999	✓	0.33	11.1	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.43	0.34	N/A	250V	>999	>999	✓	0.59	20.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.58	N/A	250V	>999	>999	✓	0.83	20.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.17	N/A	250V	>999	>999	✓	0.42	20.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.36	0.35	0.55	0.46	N/A	250V	>999	>999	✓	0.71	20.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.22	N/A	250V	>999	>999	✓	0.47	20.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 140

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.21Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.10kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.62	10.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.21	N/A	250V	>999	>999	✓	0.42	10.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.54	10.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.17	N/A	250V	>999	>999	✓	0.38	10.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.22	0.41	0.58	N/A	250V	>999	>999	✓	0.79	10.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.16	N/A	250V	>999	>999	✓	0.37	10.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.46	0.34	N/A	250V	>999	>999	✓	0.55	14.3	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.56	N/A	250V	>999	>999	✓	0.81	14.3	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.63	14.3	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.34	0.34	0.52	0.63	N/A	250V	>999	>999	✓	0.84	14.3	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.49	N/A	250V	>999	>999	✓	0.70	14.3	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 141

DB Location:	comunal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.11Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.04kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.43	N/A	250V	>999	>999	✓	0.54	15.3	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.42	15.3	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.51	15.3	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.57	15.3	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.46	0.57	N/A	250V	>999	>999	✓	0.68	15.3	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.26	N/A	250V	>999	>999	✓	0.37	15.3	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.49	0.55	N/A	250V	>999	>999	✓	0.66	10.4	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.62	10.4	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.63	N/A	250V	>999	>999	✓	0.74	10.4	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.25	0.43	0.86	N/A	250V	>999	>999	✓	0.97	10.4	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.58	10.4	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 142

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.90kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.49	13.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.53	13.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.58	13.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.49	N/A	250V	>999	>999	✓	0.61	13.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.27	0.50	0.62	N/A	250V	>999	>999	✓	0.74	13.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.40	13.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.45	0.43	N/A	250V	>999	>999	✓	0.55	9.19	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.56	N/A	250V	>999	>999	✓	0.68	9.19	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.58	N/A	250V	>999	>999	✓	0.70	9.19	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.32	0.32	0.55	0.65	N/A	250V	>999	>999	✓	0.77	9.19	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.47	9.19	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 143

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.09Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.48kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.54	20.3	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.43	20.3	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.57	20.3	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	>999	>999	✓	0.50	20.3	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.22	0.40	0.58	N/A	250V	>999	>999	✓	0.67	20.3	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.54	20.3	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.48	0.47	N/A	250V	>999	>999	✓	0.56	9.40	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.73	N/A	250V	>999	>999	✓	0.82	9.40	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.56	N/A	250V	>999	>999	✓	0.65	9.40	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.31	0.56	0.61	N/A	250V	>999	>999	✓	0.70	9.40	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	>999	>999	✓	0.51	9.40	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 144

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.13Ω	SPD Functionality Confirmed:	✓
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.75kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.52	10.5	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.48	10.5	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.58	N/A	250V	>999	>999	✓	0.71	10.5	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.47	N/A	250V	>999	>999	✓	0.60	10.5	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.48	0.55	N/A	250V	>999	>999	✓	0.68	10.5	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.22	N/A	250V	>999	>999	✓	0.35	10.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.43	0.45	N/A	250V	>999	>999	✓	0.58	12.6	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.54	N/A	250V	>999	>999	✓	0.67	12.6	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.63	12.6	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.46	0.61	N/A	250V	>999	>999	✓	0.74	12.6	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.42	12.6	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 145

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.16Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.43kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	N/A	N/A	✓	0.43	13.0	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	N/A	N/A	✓	0.52	13.0	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	N/A	N/A	✓	0.64	13.0	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.30	N/A	250V	N/A	N/A	✓	0.46	13.0	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.30	0.53	0.50	N/A	250V	N/A	N/A	✓	0.66	13.0	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.16	N/A	250V	N/A	N/A	✓	0.32	13.0	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.24	0.45	0.51	N/A	250V	N/A	N/A	✓	0.67	9.89	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.41	N/A	250V	N/A	N/A	✓	0.57	9.89	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.58	N/A	250V	N/A	N/A	✓	0.74	9.89	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.29	0.50	0.55	N/A	250V	N/A	N/A	✓	0.71	9.89	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.42	N/A	250V	N/A	N/A	✓	0.58	9.89	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 146

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.52kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.50	14.8	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.46	14.8	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.49	N/A	250V	>999	>999	✓	0.64	14.8	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.40	N/A	250V	>999	>999	✓	0.55	14.8	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.21	0.21	0.43	0.53	N/A	250V	>999	>999	✓	0.68	14.8	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.27	N/A	250V	>999	>999	✓	0.42	14.8	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.30	0.50	0.40	N/A	250V	>999	>999	✓	0.55	10.2	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.68	N/A	250V	>999	>999	✓	0.83	10.2	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.54	N/A	250V	>999	>999	✓	0.69	10.2	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.26	0.48	0.60	N/A	250V	>999	>999	✓	0.75	10.2	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.53	10.2	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 147

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.09Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.64kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.54	N/A	250V	>999	>999	✓	0.63	12.2	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.43	12.2	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.53	12.2	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.42	12.2	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.24	0.46	0.50	N/A	250V	>999	>999	✓	0.59	12.2	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.74	N/A	250V	>999	>999	✓	0.83	12.2	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.29	0.29	0.50	0.32	N/A	250V	>999	>999	✓	0.41	8.89	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.83	N/A	250V	>999	>999	✓	0.92	8.89	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.51	N/A	250V	>999	>999	✓	0.60	8.89	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.35	0.35	0.54	0.70	N/A	250V	>999	>999	✓	0.79	8.89	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.47	8.89	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 148

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.09Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.43kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.53	10.5	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.59	10.5	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.48	N/A	250V	>999	>999	✓	0.57	10.5	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.33	N/A	250V	>999	>999	✓	0.42	10.5	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.26	0.26	0.47	0.60	N/A	250V	>999	>999	✓	0.69	10.5	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.36	N/A	250V	>999	>999	✓	0.45	10.5	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.22	0.21	0.40	0.35	N/A	250V	>999	>999	✓	0.44	20.3	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.50	N/A	250V	>999	>999	✓	0.59	20.3	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.92	N/A	250V	>999	>999	✓	1.01	20.3	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.29	0.50	0.69	N/A	250V	>999	>999	✓	0.78	20.3	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.46	N/A	250V	>999	>999	✓	0.55	20.3	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 149

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.12Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.96kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.43	20.4	✓	N/A
2	Lights flats 1-3	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.47	20.4	✓	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.56	20.4	✓	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	250V	>999	>999	✓	0.57	20.4	✓	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.23	0.23	0.45	0.55	N/A	250V	>999	>999	✓	0.67	20.4	✓	N/A
6	Kitchen lights	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.40	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Kitchen sockets	LSHF T&E	100	8	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.27	0.27	0.48	0.33	N/A	250V	>999	>999	✓	0.45	11.7	✓	N/A
12	Lights flats 4,5,6	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.60	N/A	250V	>999	>999	✓	0.72	11.7	✓	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.81	N/A	250V	>999	>999	✓	0.93	11.7	✓	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.30	0.30	0.50	0.52	N/A	250V	>999	>999	✓	0.64	11.7	✓	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.38	N/A	250V	>999	>999	✓	0.50	11.7	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB flats 9

DB Location:	communal kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.36kA
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:		Details of Test Instruments Used			
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	6.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.28	N/A	250V	>999	>999	✓	0.45	20.4	✓	N/A
2	Lights flats 1, 2	LSHF T&E	100	6	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	--	N/A	250V	>999	>999	✓	0.41	20.4	✓	N/A
3	heaters flats 1, 2	LSHF T&E	100	2	6.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	--	N/A	250V	>999	>999	✓	0.55	20.4	✓	N/A
4	heaters kitchen	LSHF T&E	100	1	6.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.54	20.4	✓	N/A
5	Sockets flats 1, 2	LSHF T&E	100	10	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.20	0.20	0.37	--	N/A	250V	>999	>999	✓	0.59	20.4	✓	N/A
6	Lights kitchen	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.59	N/A	250V	>999	>999	✓	0.76	20.4	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Sockets kitchen	LSHF T&E	100	9	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.29	0.44	--	N/A	250V	>999	>999	✓	0.32	11.2	✓	N/A
12	Lights flats 3, 4, 5	LSHF T&E	100	9	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	--	N/A	250V	>999	>999	✓	0.79	11.2	✓	N/A
13	heaters flats 3, 4, 5	LSHF T&E	100	3	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	--	N/A	250V	>999	>999	✓	0.45	11.2	✓	N/A
14	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61008	B	30	80	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.2	✓	N/A
15	Hob	LSHF T&E	100	1	6.0	2.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.22	N/A	250V	>999	>999	✓	0.39	11.2	✓	N/A
16	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	--	N/A	250V	>999	>999	✓	1.30	11.2	✓	N/A
17	Sockets Down	LSHF T&E	100	5	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	--	N/A	250V	>999	>999	✓	0.76	11.2	✓	N/A

Test Results: DB flats number 1

DB Location:	Communal Kitchen	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.11Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton 1Ø Distribution Board [Single Pole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.11kA	Vulnerable circuits and/or installed equipment:	N/A
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	1	6.0	2.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.44	N/A	250V	>999	>999	✓	0.45	11.0	✓	N/A
2	Lights flats 1, 2	LSHF T&E	100	6	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.31	N/A	250V	>999	>999	✓	0.42	11.0	✓	N/A
3	heaters flats 1, 2	LSHF T&E	100	2	6.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.34	N/A	250V	>999	>999	✓	0.45	11.0	✓	N/A
4	heaters kitchen	LSHF T&E	100	1	6.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.29	N/A	250V	>999	>999	✓	0.40	11.0	✓	N/A
5	Sockets flats 1, 2	LSHF T&E	100	10	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.24	0.23	0.50	0.29	N/A	250V	>999	>999	✓	0.40	11.0	✓	N/A
6	Lights kitchen	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.67	N/A	250V	>999	>999	✓	0.78	11.0	✓	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Sockets kitchen	LSHF T&E	100	6	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.28	0.28	0.57	0.33	N/A	250V	>999	>999	✓	0.44	20.8	✓	N/A
12	Lights flats 3, 4	LSHF T&E	100	6	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	0.39	N/A	250V	>999	>999	✓	0.50	20.8	✓	N/A
13	heaters flats 3, 4	LSHF T&E	100	2	4.0	2.5	0.04	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.37	N/A	250V	>999	>999	✓	0.48	20.8	✓	N/A
14	Sockets Down 3, 4	LSHF T&E	100	10	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.32	0.32	0.59	0.53	N/A	250V	>999	>999	✓	0.64	20.8	✓	N/A
15	Hob	LSHF T&E	100	1	6.0	2.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	N/A	N/A	N/A	0.35	N/A	250V	>999	>999	✓	0.46	20.8	✓	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB room 75

DB Location:		Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:		Z_s at DB:		SPD Functionality Confirmed:	
DB Type/No:		Voltage:		OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:		I_{pf} at DB:		Vulnerable circuits and/or installed equipment:	
Designation:		No. of phases:	1	SPD BS (EN) / Type:		Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	--	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	Lights Flats A B C	PVC T&E	100	--	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	Heaters in Flats A B C	LSHF T&E	100	--	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	Kitchen Heater	PVC T&E	100	--	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A
5	Sockets Flats A B C	PVC T&E	100	--	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	Lights kitchen	PVC T&E	100	--	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	Spare	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	Spare	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	Spare	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Spare	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	Spare	N/A	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	Hob	PVC T&E	100	--	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	Sockets Flats D E F	PVC T&E	100	--	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	Heaters Flats D E F	LSHF T&E	B	--	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	Lights Flats D E F	PVC T&E	100	--	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	Kitchen Sockets	PVC T&E	100	--	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Test Results: DB/S/G1 Comms Room

DB Location:	Comms Room	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.08Ω	SPD Functionality Confirmed:	LIM
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.89kA	Vulnerable circuits and/or installed equipment:	PC equipment/ Server
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: N/A	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results			
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
1 L1	Outside Lighting	PVC T&E	B	4	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	--	--	--	0.58	N/A	N/A	N/A	N/A	N/A	✓	0.66	--	--	N/A
1 L2	Time Clock	PVC T&E	B	1	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	--	--	--	0.06	N/A	N/A	N/A	N/A	N/A	✓	0.12	--	--	N/A
1 L3	Lighting G27,G28	PVC T&E	B	N/A	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	--	--	--	0.03	N/A	N/A	N/A	N/A	N/A	✓	0.11	--	--	N/A
2 L1	Spare	N/A	N/A	LIM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
2 L2	Lighting Lobby	PVC T&E	B	16	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	--	--	--	0.01	N/A	N/A	N/A	N/A	N/A	✓	0.08	--	--	N/A
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
5 L3	Lighting G24,G40	PVC T&E	B	LIM	2.5	1.5	0.4	60898	B	10	10	4.37	--	--	--	--	--	--	--	--	0.02	N/A	N/A	N/A	N/A	N/A	✓	0.1	--	--	N/A
6 L1	Cleaners Sockets	PVC T&E	100	6	2.5	1.5	0.4	61009	B	20	6	2.19	61009	A	30	20	2	--	--	--	0.26	N/A	N/A	N/A	N/A	N/A	✓	0.36	16.7	✓	N/A
6 L2	Access Control	LSHF T&E	B	1	2.5	1.5	0.4	61009	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L3	Bin Extractor	LSHF T&E	B	1	2.5	1.5	0.4	61009	B	20	10	2.19	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	LIM	--	--	N/A

Test Results: DB/S/G1 Comms Room

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L1	Fused spur in bin area fly killer	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	--	--	--	0.28	N/A	N/A	N/A	N/A	N/A	✓	0.36	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Fire Shutters	PVC T&E	100	N/A	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	--	--	--	LIM	N/A	N/A	N/A	N/A	N/A	LIM	LIM	--	--	N/A
11 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Not Verified	PVC T&E	100	N/A	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	--	--	--	LIM	N/A	N/A	N/A	N/A	N/A	LIM	NV	--	--	N/A
12 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	16amp blue plug	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	--	--	--	--	--	--	--	--	In use	N/A	N/A	N/A	N/A	N/A	LIM	In use	--	--	N/A
13 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
13 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
13 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
14 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
15 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
15 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
15 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB/S/G1 Comms Room

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
16 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
16 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
16 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
17 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
18 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
19 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
19 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
19 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
20 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
20 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
20 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
21 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
21 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
21 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
22 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
22 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
22 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
23 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
23 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
23 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
24 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
24 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
24 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DB5.10.1 Room 76

DB Location:	Level 10 in kichen high Level	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.24Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 1Ø Split Load Distribution Board [SinglePole & Neutral]	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	0.97kA	Vulnerable circuits and/or installed equipment:	Led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Oven	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	61008	B	30	80	2	LIM	LIM	LIM	0.23	N/A	LIM	LIM	LIM	✓	0.47	19.2	✓	N/A
2	Lights Flats A B C	PVC T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	61008	B	30	80	2	N/A	N/A	N/A	1.03	N/A	LIM	LIM	LIM	✓	1.27	19.2	✓	N/A
3	Heaters in Flats A B C	LSHF T&E	100	3	1.5	1.0	0.4	60898	B	20	6	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	LIM	LIM	LIM	✓	0.69	19.2	✓	N/A
4	Sockets Flats A B C	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.48	N/A	LIM	LIM	LIM	✓	0.72	19.2	✓	N/A
5	Lights kitchen	PVC T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.80	N/A	LIM	LIM	LIM	✓	1.04	19.2	✓	N/A
6	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	Hob	PVC T&E	100	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	B	30	80	2	N/A	N/A	N/A	0.17	N/A	LIM	LIM	LIM	✓	0.41	19.6	✓	N/A
13	Sockets Flats D E F	PVC T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	LIM	LIM	LIM	0.54	N/A	LIM	LIM	LIM	✓	0.78	19.6	✓	N/A
14	Heaters Flats D E F	LSHF T&E	B	3	2.5	1.5	0.4	60898	B	20	10	2.19	61008	B	30	80	2	N/A	N/A	N/A	0.45	N/A	LIM	LIM	LIM	✓	0.69	19.6	✓	N/A
15	Lights Flats D E F	PVC T&E	100	21	1.5	1.0	0.4	60898	B	6	6	7.28	61008	B	30	80	2	N/A	N/A	N/A	0.88	N/A	LIM	LIM	LIM	✓	1.12	19.6	✓	N/A
16	Kitchen Sockets	PVC T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	61008	B	30	80	2	0.25	0.25	0.47	0.54	N/A	LIM	LIM	LIM	✓	0.78	19.6	✓	N/A

Test Results: DBS1A

DB Location:	First Floor Riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.06Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	3.56kA	Vulnerable circuits and/or installed equipment:	Led Lighting
						Details of Test Instruments Used					
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results			
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time (ms)	Test Button	Manual / AFDD Test Button
1 L1	Supply to Db.LL.1A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
1 L2	Supply To DB.LL.1A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
1 L3	Supply To Db.LL.1A	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
2 L1	Db Supply to room 6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
2 L2	Db Supply to room 5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
2 L3	Db Supply to room 4	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
3 L1	Db Supply S.G.2	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
3 L2	Db Supply to S.G.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
3 L3	Db Supply to S.1.3	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
4 L1	Db Supply To Db.S.1.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
4 L2	Db Supply to S.2.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
4 L3	Db Supply to S.2.5	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
5 L1	Db Supply to S.2.6	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
5 L2	Db Supply to S.2.7	PVC/SWA	B	1	16	16	0.4	88-2	2	63	33	0.44	--	--	--	--	--	LIM	LIM	LIM	--	N/A	LIM	N/A	LIM	LIM	✓	--	--	--	N/A
5 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A
6 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: DBS1A

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	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 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	N/A

Test Results: Db LL

DB Location:	in dry riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.15Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.98kA	Vulnerable circuits and/or installed equipment:	led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:		Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	Megger MFT-X1 102368405	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Cleaners socket level 6	LSHF T&E	C	5	4.0	2.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	N/A	0.43	N/A	LIM	LIM	LIM	✓	0.53	10.3	✓	N/A
1 L2	Panel heater level 7	LSHF T&E	C	1	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	LIM	LIM	N/A	0.20	N/A	LIM	LIM	LIM	✓	0.35	--	--	N/A
1 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
2 L1	Cleaners socket level 7	LSHF T&E	C	5	4.0	2.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	N/A	0.13	N/A	LIM	LIM	LIM	✓	0.28	9.1	✓	N/A
2 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
3 L1	Cleaners socket level 8	LSHF T&E	C	5	4.0	2.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	N/A	0.51	N/A	LIM	LIM	LIM	✓	0.66	9.5	✓	N/A
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	LIM	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	LIM	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	LIM	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
5 L1	Level 6 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
5 L2	Level 7 lobby lighting	LSHF T&E	C	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
5 L3	Level 8 lobby lighting	LSHF T&E	C	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
6 L1	Level 6 lobby lighting	LSHF T&E	C	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
6 L2	Level 7 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
6 L3	Level 8 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A

Test Results: Db LL

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L1	Level 6 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
7 L2	Level 7 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
7 L3	Level 8 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	N/A
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	N/A

Test Results: Db Level 2

DB Location:	in riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton	Voltage:		OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.27kA	Vulnerable circuits and/or installed equipment:	led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	Megger MFT-X1 102368405	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1	Cooker	LSHF T&E	100	--	4.0	2.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	--	--	--	N/A
2	Lights flats 1-3	LSHF T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.38	--	--	N/A
3	Heaters flats 1,2,3	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.71	--	--	N/A
4	Kitchen heater	LSHF T&E	100	1	4.0	2.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.48	--	--	N/A
5	Sockets flats 1,2,3	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.55	--	--	N/A
6	Kitchen lights	LSHF T&E	100	4	1.5	1.0	0.4	60898	B	6	6	7.28	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.94	--	--	N/A
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	N/A	--	--	N/A
8	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	N/A	--	--	N/A
9	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	N/A	--	--	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	N/A	--	--	N/A
11	Kitchen sockets	LSHF T&E	100	7	2.5	1.5	0.4	60898	B	32	6	1.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.38	--	--	N/A
12	Lights flats 4,5,6	LSHF T&E	100	21	1.5	1.0	0.4	60898	B	10	6	4.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.84	--	--	N/A
13	heaters flats 4,5,6	LSHF T&E	100	3	4.0	2.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.71	--	--	N/A
14	Sockets flats 4,5,6	LSHF T&E	100	15	2.5	1.5	0.4	60898	B	32	6	1.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	0.65	--	--	N/A
15	Hob	LSHF T&E	100	1	4.0	1.5	0.4	60898	B	32	6	1.37	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	--	--	--	N/A
16	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	--	--	--	N/A
17	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	--	N/A	250V	>999	>999	✓	--	--	--	N/A

Test Results: LL DB 9 Level 9

DB Location:	in dry riser block A	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	
DB Type/No:	Eaton	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.47kA	Vulnerable circuits and/or installed equipment:	led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:		Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	Megger MFT-X1 102368405	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Cleaners Sockets	PVC T&E	100	N/A	2.5	1.5	0.4	61009	B	32	6	1.37	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
2 L2	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
2 L3	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
3 L1	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
3 L2	Fire Curtain	PVC T&E	100	1	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
5 L3	Intercom	LSHF T&E	B	1	2.5	1.5	0.4	60898	B	10	10	4.37	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L1	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L2	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L3	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
7 L1	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
7 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A

Test Results: LL DB 9 Level 9

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A

Test Results: LL Db level 7

DB Location:	in dry riser	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	N/A	Z_s at DB:	0.17Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton	Voltage:	230V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	2.17kA	Vulnerable circuits and/or installed equipment:	
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	Megger MFT-X1 102368405	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Cleaners Sockets	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	LIM	LIM	N/A
2 L2	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
2 L3	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
3 L1	Not Labelled	PVC T&E	100	LIM	2.5	1.5	0.4	61009	B	32	6	1.37	61009	A	30	32	2	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	LIM	LIM	N/A
3 L2	Fire Curtain	PVC T&E	100	LIM	2.5	1.5	0.4	60898	B	20	6	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
5 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	N/A	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
5 L3	Intercom	LSHF T&E	B	LIM	2.5	1.5	0.4	60898	B	10	10	4.37	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L1	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L2	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
6 L3	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
7 L1	Not Labelled	PVC T&E	B	LIM	2.5	1.5	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	--	--	N/A
7 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
7 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A

Test Results: LL Db level 7

Circuit		Conductor Details					Protective device						RCD					Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	N/A	LIM	N/A	LIM	LIM	LIM	LIM	N/A	--	--	N/A

Test Results: MSBS1

DB Location:	left in plant room	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.13Ω
DB Type/No:	Eaton 3Ø Distribution Board [Triple Pole & Neutral]	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.07kA
Designation:	Lighting & Power	No. of phases:	3	SPD BS (EN) / Type:	Type: T3				
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024				

SPD Functionality Confirmed:	LIM
Vulnerable circuits and/or installed equipment:	Led lamps No Installation resistance carried out or circuits turned off Zs and Ze taken from the nearest Consumer board

Details of Test Instruments Used					
Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	N/A	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1L1 1L2 1L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	----------	----------	N/A
2L1 2L2 2L3	FAP	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	----------	----------	N/A
3L1 3L2 3L3	Fire Lift 1	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	----------	----------	N/A
4L1 4L2 4L3	Fire Lift 2	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	----------	----------	N/A
5L1 5L2 5L3	Db Essential 5	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	----------	----------	N/A

Test Results: MSBS1

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance					Zs	RCD Test Results			
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)	Polarity	Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	Manual AFDD Test Button
6L1 6L2 6L3	Smoke Extractor 2	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
7L1 7L2 7L3	Smoke Extractor 1	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
8L1 8L2 8L3	PF	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
9L1 9L2 9L3	SG	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
10L1 10L2 10L3	S.G1	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
11L1 11L2 11L3	S. Laundry	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.21	--	--	N/A
12L1 12L2 12L3	S.Mech 1	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
13L1 13L2 13L3	S1A	PVC/SWA	E	1	16	4.0	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
14L1 14L2 14L3	S1B	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	✓	0.14	--	--	N/A

Test Results: MSBS1

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance				Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-L (MΩ)	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
15L1																															
15L2	S4A	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.15	--	--	N/A
15L3																															
16L1																															
16L2	S4B	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	--	--	N/A
16L3																															
17L1																															
17L2	S7A	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.17	--	--	N/A
17L3																															
18L1																															
18L2	S7B	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.13	N/A	LIM	LIM	LIM	LIM	✓	0.33	--	--	N/A
18L3																															
19L1																															
19L2	S9A	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.17	--	--	N/A
19L3																															
20L1																															
20L2	S9B	PVC/SWA	E	1	4.0	1.5	5	60947-2 MCCB	MCCB	LIM	50	--	--	--	--	--	--	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	✓	0.19	--	--	N/A
20L3																															

Test Results: level 10 Db LL

DB Location:	in riser Block A	Supply Derived From:	Main supply	Distribution circuit OCPD BS (EN) / Type:	N/V N/A	Phase sequence confirmed:	✓	Z_s at DB:	0.18Ω	SPD Functionality Confirmed:	N/A
DB Type/No:	Eaton	Voltage:	400V	OCPD Rating / SCC:	800A / 50kA	Supply polarity confirmed:	✓	I_{pf} at DB:	1.27kA	Vulnerable circuits and/or installed equipment:	led lamps
Designation:	Lighting & Power	No. of phases:	1	SPD BS (EN) / Type:	Type: N/A	Details of Test Instruments Used					
Tested by:	Lee Twaddle	Signed:		Date:	06 Feb 2024	Continuity:	Megger MFT-X1 102368405	Insulation resistance:	Megger MFT-X1 102368405	Earth fault loop impedance:	Megger MFT-X1 102368405
						RCD:	Megger MFT-X1 102368405	Earth electrode resistance:	Megger MFT-X1 102368405	Other:	Megger MFT-X1 102368405

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
1 L1	Cleaners sockets level 9	LSHF T&E	C	5	4.0	2.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	LIM	0.36	N/A	LIM	LIM	LIM	✓	0.54	10.9	✓	--
1 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
1 L3	TV amplifier level 10	LSHF T&E	C	1	4.0	2.5	0.4	60898	B	20	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
2 L1	Cleaners socket level 10	LSHF T&E	C	5	4.0	2.5	0.4	61009	B	32	10	1.37	61009	A	30	32	2	LIM	LIM	LIM	0.48	N/A	LIM	LIM	LIM	✓	0.66	9.4	✓	--
2 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
2 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
3 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
3 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
3 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
4 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
4 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
4 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
5 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
5 L2	Level 10 corridor lighting	LSHF T&E	C	5	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
5 L3	Level 9 lobby lighting	LSHF T&E	C	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
6 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
6 L2	Level 10 lobby lighting	LSHF T&E	C	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
6 L3	Level 9 corridor lighting	LSHF T&E	C	4	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--

Test Results: level 10 Db LL

Circuit		Conductor Details					Protective device						RCD						Ring Final Circuit Continuity (Ω)			Continuity (Ω)		Insulation Resistance			Polarity	Zs	RCD Test Results		Manual AFDD Test Button
No.	Description	Type of wiring	Reference Method	No. of points	Live (mm²)	CPC (mm²)	Max Disc. Time (s)	BS (EN)	Type	Rating (A)	Breaking Cap. (kA)	Maximum Permitted Z (Ω)	BS (EN)	Type	$I_{\Delta n}$ (mA)	Rating (A)	No. of poles	r1 (phase)	rn (neutral)	r2 (cpc)	R1 + R2 (Ω)	R2 (Ω)	Test Voltage	L-N (MΩ)	L-E (MΩ)		Max Measured Z (Ω)	Op. time at $I_{\Delta n}$ (ms)	Test Button	
7 L2	Level 10 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
7 L3	Level 9 corridor lighting	LSHF T&E	C	21	1.5	1.0	0.4	60898	C	10	10	2.19	--	--	--	--	--	LIM	LIM	LIM	LIM	N/A	LIM	LIM	LIM	✓	LIM	--	--	--
8 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
8 L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--
8 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	--	--	--	--	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	N/A	N/A	--	--	--

Condition Report

Guidance for Recipient

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

1. The purpose of this Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see 'Summary of the Condition of the Installation'). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see 'Observations').

2. This Report is only valid if accompanied by the Inspection Schedule and the Distribution Schedule(s) of circuit details including 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. The sections 'Extent of the Installation' and 'Limitations of the Inspection and Testing' 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 section on Limitations.

7. For items classified in the Observations section 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 the Observations section 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 the Observations section 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 Recommendations).

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 the 'Recommendations' section of the Report.

11. Where the installation includes a residual current device (RCD) it should be tested six-monthly by pressing the button marked '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 pressed, 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 protection 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.

Glossary of Terms

Abbreviations

ATLP	Access to Live Parts	LSHF/PVCS	Low Smoke Halogen Free PVC Single Cables in Conduit/ Trunking Containment
BH	Bulkhead Light Fitting	LSHF/SWA	Low Smoke Halogen Free Steel Wired Armoured Cable
CMET	Consumer Main Earth Terminal	LSHF/T&E	Low Smoke Halogen Free T&E
CPC	Circuit Protective Conductor	LSHF/XLPE/SWA	XLPE Low Smoke Halogen Free Steel Wired Armoured Cable
CSP	Heat Resistant Rubber Flexible Cable	MCB	Miniature Circuit Breaker
DB	Distribution Board	MCCB	Moulded Case Circuit Breaker
DNO	Distribution Network Operator	MEB	Main Equipotential Bonding
EES	Emergency Exit Signs	MET	Main Earth Terminal
EPR	Heat Resistant Rubber Flexible Cable	MICC	Mineral Insulated Copper Cable
ELV	Extra Low Voltage	NT	Not Tested (Dysfunctional)
EML	Emergency Lighting	OCP	Overcurrent Protection
EN 60898	Miniature Circuit Breaker	PSU	Power Supply Unit (via 13A FCU)
EN 60947-2	Moulded Case Circuit Breaker	PVC T&E	PVC/PVC twin and earth cable
EN 60947-3	Switch, disconnector, or switch-fuse	PVC/SWA	PVC Steel Wired Armoured Cable
EN 61008	Residual Circuit Breaker (without overcurrent protection)	PVCS	PVC Single Cables in Conduit/ Trunking Containment
EN 61009	Residual Circuit Breaker (with overcurrent protection)	Radial	Radial Circuit
FCU	13A Fused Connection Unit	RC	Refer to Comments
FIR	Further Investigation Required	RCD	Residual Circuit Device
FP	Fire Rated Protected Cable	RFC	Ring Final Circuit
IP	Ingress Protection	S/O 13A	Socket Outlet
LHS/RHS	Left Hand Side/Right Hand Side	VIR	Vulcanised Indian Rubber
LSF	Low Smoke & Fume Cables	XLPE/SWA	XLPE Steel Wired Armoured Cable

Overcurrent Protective Device Abbreviations

BS (EN)	Type No	Device
60898	B	BS EN 60898 MCB Type B - Miniature Circuit Breaker (Type B)
60898	C	BS EN 60898 MCB Type C - Miniature Circuit Breaker (Type C)
60898	D	BS EN 60898 MCB Type D - Miniature Circuit Breaker (Type D)
61009	B	BS EN 61009 RCBO Type B - Residual Current Device (Type B)
61009	C	BS EN 61009 RCBO Type C - Residual Current Device (Type C)
61009	D	BS EN 61009 RCBO Type D - Residual Current Device (Type D)
3871	1	BS 3871 MCB Type 1 - Miniature Circuit Breaker (Type 1)
3871	2	BS 3871 MCB Type 2 - Miniature Circuit Breaker (Type 2)
3871	3	BS 3871 MCB Type 3 - Miniature Circuit Breaker (Type 3)
3871	4	BS 3871 MCB Type 4 - Miniature Circuit Breaker (Type 4)
61008		BS EN 61008 RCD - Residual Current Device
4293		BS EN 4293 RCD - Residual Current Device
88-2	E	BS 88-2 Fuse System E (Bolted) - High Rupture Capacity Cartridge Fuse
88-2	G	BS 88-2 Fuse System G (Clip-In) - High Rupture Capacity Cartridge Fuse
88-2.2	gG	BS 88-2.2 Fuse (gG) - High Rupture Capacity Cartridge Fuse
88-3	C	BS 88-3 Fuse System C - High Rupture Capacity Cartridge Fuse
88-6	gG	BS 88-6 Fuse (gG) - High Rupture Capacity Cartridge Fuse
1361	2	BS 1361 Fuse Type 2
1362		BS 1362 Fuse (Domestic)
3036		BS 3036 Fuse Rewirable (Semi-Enclosed)
60947-2	MCCB	BS EN 60947-2 MCCB - Moulded Case Circuit Breaker
60947-3		BS EN 60947-3 - Isolator
60947-2	ACB	BS EN 60947-2 ACB - Air Circuit Breaker
N/V		Non-Verifiable
LIM		Limitation (Refer to: Limitations of the Inspection)

British Standard (BS)

British Standard BS 7671: 2018 Amendment 1: 2020 – also known as the IET (Institution of Engineering & Technology) Wiring Regulations (18th Edition) - Requirements for Electrical Installations is the standard against which all electrical installations are assessed.

Certificate

Any electrician installing a new electrical installation (including a single circuit), altering, extending or adapting an existing circuit should issue to their client, or the homeowner, an Electrical Installation Certificate (EIC), or a Minor Electrical Installation Works Certificate (MEW) to confirm the work complies with the requirements of BS 7671 Appendix 6

Circuit

An assembly of electrical equipment (socket outlets, lighting points and switches) supplied from the same origin and protected against overcurrent by the same protective device(s).

Class I Equipment

Equipment in which protection against electric shock does not rely on basic insulation only, but which includes means for the connection of exposed-conductive-parts to a protective conductor in the fixed wiring of the installation. Class I equipment has exposed metallic parts, e.g. the metallic enclosure of washing machine.

Class II Equipment

Class II equipment, such as music systems, television and video players, in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions such as supplementary insulation are provided, there being no provision for the connection of exposed metalwork of the equipment to a protective conductor, and no reliance upon precautions to be taken in the fixed wiring of the installation.

Class III Equipment

Equipment, for example for medical use, in which protection against electric shock relies on supply at SELV (Safety extra low voltage) and in which voltages higher than those of SELV are not generated. Class III equipment must be supplied from a safety isolating transformer.

Consumer Unit (also known as a fuse board, or distribution board)

A type of distribution board (principally for domestic premises) comprising a co-ordinated assembly for the control and distribution of electrical energy, incorporating manual means of double-pole isolation on the incoming circuit(s) and an assembly of one or more fuses, circuit-breakers, residual current operated devices or signalling and other devices purposely manufactured for such use.

Distribution Board

An assembly containing switching or protective devices (e.g. fuses, circuit-breakers, residual current operated devices) associated with one or more outgoing circuits fed from one or more incoming circuits, together with terminals for the neutral and protective circuit conductors. It may also include signalling and other control devices. Means of isolation may be included in the board or may be provided separately.

Electrical Installation

Any assembly of electrical equipment supplied by a common source to fulfil a specific purpose.

EICR – Electrical Installation Condition Report

An electrical survey, known as an Electrical Installation Condition Report (EICR) will reveal if electrical circuits are overloaded, find potential hazards in the installation, identify defective DIY work, highlight any lack of earthing or bonding and carry out tests on the fixed wiring of the installation. The report will establish the overall condition of all the electrics and state whether it is satisfactory for continued use and should detail any work that might need to be done.

Electrical Safety Regulations

Registered electricians have already helped to improve the standard of electrical work in the UK. A new electrical safety law, often referred to as Part P (of the Building Regulations), has further enhanced the protection of homeowners and reduced the risk of electric shock when using electricity. The law, which applies to England and Wales aims to improve electrical safety in the home and prevent the number of accidents, which are caused by faulty electrical work. The law requires an electrician registered with a government-approved scheme, such as the NICEIC/ECA/NAPIT/ELECSA/STROMA etc., to carry out most electrical work in the home. After completion of any work, your registered electrician will issue you with a Building Regulations Compliance Certificate to prove it meets the required standards of Part P. You can only carry out electrical work yourself if you can inspect and test that it is safe for use. To comply with the law, you must notify your local building control office before you begin any work and pay the appropriate fee for them to inspect the work.

Extension Leads
An extension cable, also known as a power extender, extension cord or an extension lead, is a length of flexible electrical power cable or flex with a plug on one end and one or more sockets on the other end - usually of the same type as the plug. However, use of extension leads should be avoided where possible, as there is a chance of overloading the circuit.

Miniature Circuit Breaker
A device capable of making, carrying and breaking normal load currents, and making and automatically breaking under predetermined conditions, abnormal currents such as short-circuit currents. It is usually required to operate infrequently, although some types are suitable for frequent operation.

Moulded Case Circuit Breaker
A device capable of making, carrying, and breaking normal load currents, and making and automatically breaking under pre-determined conditions abnormal currents such as short-circuit currents. It is usually required to operate infrequently, although some types are suitable for frequent operation. It is meant for higher rated current and is commonly used in Industrial applications. It's usual range is 250A-800A.

Overcurrent
Electrical current (in amps) that exceeds the maximum limit of a circuit. May result in risk of fire or shock from insulation damaged from heat generated by overcurrent condition.

Part P
The specific section of the Building Regulations for England and Wales that relates to electrical installations in domestic properties. Part P provides safety regulations to protect householders and requires most domestic electrical work to be carried out by government-registered electricians, or to be inspected by Building Control officers.

PAT - Portable Appliance Testing
Inspection and testing of electrical equipment including portable appliances, moveable equipment, hand held appliances, stationary equipment, fixed equipment/appliances, IT equipment and extension leads.

PLI - Public Liability Insurance
Broad term for insurance which covers liability exposures for individuals and business owners. Homeowners should check that their electrician has public liability insurance, which covers them if someone is accidentally injured by them or their business operation. It will also cover them if they damage your property while on business. The cover should include any legal fees and expenses which result from any claim by you. Homeowners looking to employ trades people to undertake work on their homes should ensure the companies selected have suitable cover – minimum recommendation is £2 million.

Portable equipment
Electrical equipment which is less than 18 kg in mass and is intended to be moved while in operation or which can easily be moved from one place to another, such as a toaster, food mixer, vacuum cleaner, fan heater.

Prospective fault current
The value of overcurrent at a given point in a circuit resulting from a fault between live conductors, or a live conductor and earth.

RCD - Residual Current Device
Residual current device is a safety device that switches off the electricity automatically when it detects an earth fault, providing protection against electric shock (only when rated at 30mA or less).

Ring Final Circuit
A final circuit connected in the form of a ring and connected to a single point of supply.

Voltages:

SELV
Separated Extra-Low Voltage. An extra-low voltage system, which is electrically separated from Earth and from other systems in such a way that a single fault cannot give rise to the risk of electric shock.

Extra-Low Voltage
Normally not exceeding 50 V ac or 120 V ripple-free dc whether between conductors or to earth.

Low Voltage
Low Voltage (50V - 1000V)

mA
Milliamp or 1/1000 part of an amp (0.001 amp)

SALVUS TOTAL SOLUTIONS

Client:	Fresh
Site:	The Lantern
Address:	6 Bolton Street
	Liverpool
	L3 5AA

Date:	26-Feb-24
EICR No.	LTE-001252

ITEM	Code	Description of Fault	Required	QTY
1	C2	DB flats 1 - 20mm hole in consumer unit	Metal stop and lockring	1
2	C2	DB flats 12 - 20mm hole in bottom of consumer unit	Metal stop and lockring	1
10	C2	DB flats 19 - DB blank missing	Blanking module	1
11	C2	DB flats 57 - DB blank missing	Blanking module	1
12	C2	DB flats 9 - DB blank missing	Blanking module	1
13	C2	DB flats 16 - DB blank missing	Blanking module	1
15	C2	DB flats 52 - Heat damage to 2 x fuse spurs and fan isolator in kitchen	2 x FCU and fan switch	1
16	C2	DB Laundry - All 3 lights in laundry have large holes in ceiling above	Conduit lid and silicone	3
18	C2	DB flats 48 - Kitchen socket within 300mm of sink	Blank plate and connectors	1
19	C2	DB flats 49 - Kitchen socket within 300 mm of sink	Blank plate and connectors	1
20	C2	DB flats 24 - DB blank missing	Blanking module	1
21	C2	DB room 58 - DB blank missing	Blanking module	1
23	C2	DB room 67 - Missing 2 x half DB blanks	Blanks	2
25	C2	DB flats 10 - Earth terminal has snapped off pin in DSSO	Plastic DSSO	1
26	C2	DB room 63 - Socket outlet less than 300mm from the edge of sink	Blank plate and connectors	1
27	C2	DB room 69 - Socket outlet within 300mm from edge of sink	Blank plate and connectors	1
28	C2	DB room 59 - Socket outlet within 300mm from edge of sink	Blank plate and connectors	1
29	C2	DB room 65 - Socket outlet within 300mm from edge of sink	Blank plate and connectors	1
57	FI	DB 001 - 3 x emergency lights in entrance corridor have no power at time of test	Further Investigation	N/A
58	FI	DB flat 6 - FCU for heater sparks when activated	Further Investigation	N/A
59	FI	DB flat 53 - Lights in corridor not working	Further Investigation	N/A
60	FI	DB S-G - Not all circuits labelled, required verification	Further Investigation	N/A
61	FI	DB Laundry - Circuit schedules not accurate, requires verification .	Further Investigation	N/A

Total	£1,976.00

Further investigation works may incur an additioal cost to rectify any further faults found.