

ELECTRICAL INSTALLATION CONDITION REPORT



Attendance Record

Work reference:

ESEIT16548

Site:

Asquith House & Austin Hall
Servia Road
Leeds
LS7 1AW

Date of attendance:

28/02/2023

Purchase order issued

40762

Engineer Name

Niall Fensome

Engineers Signature



Site Representative

Site Representative Signature

This is a record of attendance. To follow Covid-19 guidelines our engineers have been advised not to obtain signatures from the site representatives but have been given the ability to take a photo of a person or the building. This will show in the Site Representative Signature box

Any observations noted within this report which make the installation unsatisfactory have been relayed to our Estimating team who will produce a quotation and send it on as soon as possible.

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(Electrical Installations – BS7671 IET Wiring Regulations)



Reference Number

ESEITTC10024859_1

PTSG Job Ref

ESEIT16548

Client Details

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Details of Client

Tuscola (109) Ltd
c/o Tuscola 109 Ltd
Unit 120, Mill Hill House
6 The Broadway, Mill Hill
London
NW7 3LL

Reason for producing the report:

Periodic inspection to assess the condition of the installation, its suitability for safe continued use and compliance with BS 7671

Details of the Installation

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Occupier and Address:

Asquith House & Austin Hall
Servia Road
Leeds
LS7 1AW

Asquith House & Austin Hall

Description of Premises:

Commercial

Estimated age of wiring (years)

10

Evidence of additions / alterations

No

If Yes, Age yrs N/A

Installation records available

No

Date of last inspection

N/A

Extent and Limitations of Inspection and Testing

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Extent of installation covered by this report

Fixed wired 230-400V electrical installation. 20% inspection and testing of all circuits where accessible and subject to limitations. At least 10% of accessories removed for inspection. Testing carried out in accordance with Guidance Note 3 section 3.8.4.

Agreed limitations on inspection and testing

Cables concealed within trunking and conduits, or cables and conduits concealed under floors in accessible roof spaces and generally within the fabric of the building or underground have not been inspected; The Installation Reference Methods for cabling have been estimated due to circuits/cables being concealed within the fabric of the building; Testing was not conducted at equipment located above 3 metres from the floor or where the engineer can stand as per Guidance Note 3 Table 3.4 Note 5. Testing will be carried out at any accessible point of the circuit which is lower than 3 metres; Circuits with sensitive electronics including control units, dimmer packs and microprocessors, or deemed vulnerable by engineer, have not been tested for insulation resistance; Circuits supplying lighting and similar equipment that cannot reasonably be disconnected have been tested with line and neutral conductors connected together to Earth (Regulation 643.3.1 & 643.3.3); Circuits believed to be supplying vulnerable equipment have been tested for insulation resistance at 250V d.c. only; Presence of fire barriers, suitable seals and protection against thermal effects, have undergone an inspection to the accessible areas only; Circuits supplying heating, ventilation and air conditioning panels have been tested up to the isolation point within the panel; Lift Shafts and Lift equipment have not been accessed and are out of the scope of this report

Operational limitations on inspection and testing

The Service Head cut-out fuses have not been visually inspected as items are sealed by the District Network Operator. Information, if recorded in this report, is as detailed on the fuse carrier; Isolation and verification of circuits and equipment has been carried out where possible within the constraints of site operations; Circuits not energised at time of test, such as Off Peak heating supplies etc., have not been tested for Earth Loop Impedance, an R1 + R2 test has been performed for these circuits to prove earth continuity; Due to any large furniture/equipment which could not be moved by the engineer at the time the inspection and tests were carried out, only accessible points are included in this report; Any Distribution board which cannot be fully isolated for safety or operational reasons has not had any 'dead' tests carried out which involves dismantling of circuits, to protect the engineer carrying out the testing and adhere to the Electricity at Work Regulations 1989

Operational limitations were agreed with:

Name: No responsible person available

Position: N/A

The inspection and testing detailed in this report and accompanying schedules has been carried out in accordance with BS7671:2018 (IET Wiring Regulations) as amended to **No.2 – March 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

Overall Assessment of the Installation

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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) and/or Further Investigation (FI) conditions have been identified.

Declaration

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

Inspected and Tested by:

Name: Niall Fensome

Position: EIT Engineer

Date: 28/02/2023

Signature:

Report reviewed and authorised for issue by:

Name: Laura Davies

Position: EIT Administrator

Date: 28/02/2023

Signature:

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Details of the Contractor Responsible for the Inspection and Testing

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Company and Address including postcode PTSG Electrical Services 11-14 Flemming Court Whistler Drive Castleford WF10 5HW	Reason for producing the report: Telephone Number: 01977 668771 CPS Provider: NICEIC CPS Registration No: 32237
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Recommendations

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Where the overall assessment of the suitability of the installation for continued use on page 1 is stated as 'UNSATISFACTORY', I/We recommend that any observations classified as 'Code 1 – Danger Present' or 'Code 2 – Potentially dangerous' are acted upon as a matter of urgency. Investigations without delay is recommended for observations identified as 'Code FI – Further Investigation Required'. Observations classified as 'Code 3 – Improvement recommended' should be given due consideration.

Please see additional comments on next page.

Subject to the necessary remedial action being taken I/We recommend that the installation is further inspected and tested after an interval not exceeding **1 years**

Supply Characteristics & Earthing Arrangements

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System Earthing Arrangement:	TN-S	No & Type of Live Conductors:	3 phase – 4 wire – a.c.		
Other Sources of supply (to be detailed on attached schedule)	N/A	Supply Polarity	<input checked="" type="checkbox"/>	Nominal Voltage ⁽¹⁾ U _o	230 V U 400 V
Supply Protective Device		Nominal Frequency, f ⁽¹⁾	50	Hz	
BS (EN):	LIM	Type	LIM	External Loop Impedance, Z _e	0.09 Ω
Rating:	LIM A	Breaking capacity	LIM kA	Prospective Fault Current, I _{pf} (kA)	5.0 kA
				(1) By Enquiry (2) By Enquiry or by measurement	

Particulars of the Installations

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Maximum Demand (Load)	N/V	A	Fault Protection	ADS	Main Switch or Circuit Breaker		
Means of Earthing		Electrode Details (if applicable)		Location	DB Main Panel		
Distributors Facility	<input checked="" type="checkbox"/>	Type	N/A	BS(EN)	60947	Voltage Rating	400 V
Installation Earth Electrode	N/A	Location	N/A	Type	MCCB	RCD Operating Current	N/A
		Resistance to Earth	N/A	Current Rating	800	RCD Rated Time Delay	N/A ms
				No. of poles	4	RCD Operating Time at @IΔn	N/A ms
Main Protective Conductors							
Earth Conductor		Material	Copper	Csa	300	mm ²	Continuity & Connection
Water	<input checked="" type="checkbox"/>	Material	Copper	Csa	50	mm ²	<input checked="" type="checkbox"/>
Gas	<input checked="" type="checkbox"/>	Material	Copper	Csa	50	mm ²	
Oil	N/A	Material	N/A	Csa	N/A	mm ²	
Steel	<input checked="" type="checkbox"/>	Material	Copper	Csa	50	mm ²	
Other	Lighting, Cable Tray .	Material	Copper	Csa	50	mm ²	

Observations

Referring to the attached schedules of inspection and test results, and subject to the limitations specified on page 1 of this report under 'Extent and Limitations of Inspection and Testing'

No remedial action required: **N/A** The following observations are made:

Observation(s):
 Please see observation sheet at the end of the report

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General condition of the Installation in terms of Electrical Safety

Adequacy of earthing and bonding:

Main Earthing Arrangement and Bonding arrangements are in good condition and well maintained with all Bonding labels and connections being done to a high standard .

Suitability of switchgear and control gear:

The Electrical installation Switchgear consists of Bs 60947-2 MCCBs 60947-3 Isolators, 60898 Mcbs , 61008 , 61009 rcbos .
General condition of switchgear requires improvement as there are some defects that require addressing for the Electrical installation to become Satisfactory.

The type(s) of wiring system, and its condition:

The Electrical installation wiring systems consists of PVC Twin and Earth , FP200, PVC Swa, Xlpe Swa , SY which contained in cable management systems which consists of Clipped Direct & PVC & Metal Trunking , Basket ,cable tray and Ladder Racking
These are mostly in good condition however there some areas where cables are not supported this has being noted down on the observation page.

The serviceability of equipment, including accessories:

General condition of wiring accessories and switch gear are in good condition and well maintained with plenty of years of service left .

The presence of adequate identification and notices:

The Electrical installation identification require improvements as there are some unverified circuits through out the Electrical installation.

The extent of any wear and tear, damage, or other deterioration:

The Electrical Installation requires improvement to become a satisfactory report.
All Observations are found on the observation page.

Changes in the use of the building which may lead to deficiencies in the installation:

No Changes have a taken place since last inspection and testing was carried out

Other Comments

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Inspection Schedule (1)

✓: Acceptable Condition. C1 or C2: Unacceptable Condition. C3: N/V: Not verified. LIM: Limitation N/A: Not applicable. FI: Further Investigation Improvement recommended.

1. External Condition of Intake Equipment (Visual Inspection Only)

Comments

Outcome

Service Cable

All isolators that where non essential equipment have being inspected and tested .
All essential which includes Distribution Service equipment has being visual inspection.

✓

Service Head

All isolators that where non essential equipment have being inspected and tested .
All essential which includes Distribution Service equipment has being visual inspection.

✓

Earthing Arrangements

✓

Meter tails

✓

Metering equipment

All isolators that where non essential equipment have being inspected and tested .
All essential which includes Distribution Service equipment has being visual inspection.

✓

Isolator (where present)

All isolators that where non essential equipment have being inspected and tested .
All essential which includes Distribution Service equipment has being visual inspection.

✓

2. Presence of Adequate Arrangements for Parallel or Switched Alternative Sources

Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)

N/A

Adequate arrangements where a generating set operates in parallel with the public supply (551.7)

N/A

3. Automatic Disconnection of Supply

Main earthing/bonding arrangements (411.4; Chapter 54):

Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) or earth electrode arrangement (542.1.2.3)

✓

Adequacy of earthing conductor size (542.3; 543.1.1)

✓

Adequacy of earthing conductor connections (542.3.2)

✓

Accessibility of earthing conductor connections (543.3.2)

✓

Adequacy of main protective bonding conductor sizes (544.1)

✓

Adequacy and location of main protective bonding conductor connections (543.3.2; 544.1.2)

✓

Accessibility of all protective bonding connections (543.3.2)

✓

Provision of earthing/bonding labels at all appropriate locations (514.13)

✓

FELV (Functional extra-low voltage) – requirements satisfied (411.7; 411.7.1)

N/A

4. Other Methods of Protection (Where the methods listed below are employed details should be provided on separate sheets)

Non-conducting location (418.1)

N/A

Earth-free local equipotential bonding (418.2)

N/A

Electrical separation (Section 413; 418.3)

N/A

Double insulation (Section 412)

N/A

Reinforced insulation (Section 412)

N/A

5. Distribution Equipment

Adequacy of working space/accessibility to equipment (132.12; 513.1)

✓

Security of fixing (134.1.1)

✓

Condition of insulation of live parts (416.1)

✓

Adequacy/security of barriers (416.2)

✓

Condition of enclosure(s) in terms of IP rating etc (416.2)

✓

Condition of enclosure(s) in terms of fire rating etc (421.1.6;
421.1.201; 526.5)

✓

Enclosure not damaged/deteriorated so as to impair safety (651.2)

✓

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Inspection Schedule (2)

Presence and effectiveness of obstacles (417.2)		N/A
Placing out of reach (417.3)		N/A
Presence of main switch(es), linked where required (462.1; 462.1.201; 462.2)	All isolators that where non essential equipment have being inspected and tested . All essential which includes Distribution Service equipment has being visual inspection.	LIM
Operation of main switch(es) (functional check) (643.10)		✓
Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)		✓
Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)		✓
RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)		N/A
RCD(s) provided for additional protection/requirements, where required - includes RCBOs (411.3.3; 415.1)		✓
Presence of RCD six-monthly test notice at or near requirement, where required (514.12.2)		C3
Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)		C3
Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required (514.14)		✓
Presence of alternative supply warning notice at or near equipment, where required (514.15)		N/A
Presence of next inspection recommendation label (514.12.1)		✓
Presence of other required labelling (please specify) (Section 514)		N/A
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)		✓
Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)		✓
Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)		✓
Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)		✓
6. Distribution Circuits		
Identification of conductors (514.3.1)		✓
Cables correctly supported throughout their run (521.10.202; 522.8.5)		✓
Condition of insulation of live parts (416.1)		✓
Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1)		✓
Suitability of containment systems for continued use (including flexible conduit) (Section 522)		✓
Cables correctly terminated in enclosures (Section 526)		✓
Confirmation that ALL conductor connections, including to busbars, are correctly located in terminals and are tight and secure (526.1)		LIM
Examination of cables for signs of unacceptable thermal or mechanical damage/deterioration (421.1; 522.6)		✓
Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)		✓
Adequacy of protective devices: type and rated current for fault protection (411.3)		✓
Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)		✓
Coordination between conductors and overload protective devices (433.1; 533.2.1)		✓
Cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)		✓
Where exposed to direct sunlight, cable of a suitable type (522.11.1)		✓

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Inspection Schedule (3)

Cables concealed under floors, above ceiling, in walls/partitions less than 50 mm from a surface, and in partitions containing metal parts:

1 installed in prescribed zones (see Extent and Limitations)(522.6.202)* or		LIM
2 incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damaged by nails, screws and the like (see Extent and Limitations)(522.6.204)*		LIM
Provision of fire barriers, sealing arrangements and protection again thermal effects (Section 527)		✓
Band II cables segregated/separated from Band I cables (528.1)		LIM
Cables segregated/separated from non-electrical services (528.3)		LIM
Condition of circuit accessories (651.2)		✓
Suitability of circuit accessories for external influences (512.2)		✓
Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)		✓
Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment - identify/record numbers and locations of items inspected (Section 526)		✓
Presence, operation and correct location of appropriate devices for isolation and switching (Chapter 46; Section 537)		✓
General condition of wiring systems (651.2)		✓
Temperature rating of cable insulation (522.1.1; Table 52.1)		✓

7. Final Circuit

Identification of conductors (514.3.1)		✓
Cables correctly supported throughout their run (521.10.202; 522.8.5)		✓
Condition of insulation of live parts (416.1)		✓
Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1)		✓
Suitability of containment systems for continued use (including flexible conduit) (Section 522)		✓
Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)		✓
Adequacy of protective devices: type and rated current for fault protection (411.3)		C2
Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)		✓
Coordination between conductors and overload protective devices (433.1; 533.2.1)		✓
Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)		✓

Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201; 522.6.202; 522.6.203; 522.6.204)

1 installed in prescribed zones (see Extent and Limitations) (522.6.202)		LIM
2 incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damaged by nails, screws and the like (see Extent and Limitations)(522.6.201; 522.6.204) or*		LIM
Provision of additional protection by 30 mA RCD		
1 *for all socket-outlets of rating 32 A or less unless exempt (41.3.3)		✓
2 *for the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)		✓
3 *for cables concealed in walls at a depth of less than 50mm (522.6.202; 522.6.203)		✓
4 *for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)		N/A
5 *for final circuits supplying luminaires within domestic (household) premises (411.3.4)		N/A

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Inspection Schedule (4)

Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)		✓
Band II cables segregated/separated from Band I cables (528.1)		LIM
Cables segregated/separated from non-electrical services (528.3)		LIM
Termination of cables at enclosures - identify/record numbers and location of items inspected (Section 526) (Extent of sampling is indicated in Section 3)		
1 Connections under no undue strain (526.6)		✓
2 No basic insulation of conductor visible outside enclosure (526.8)		✓
3 Connections of live conductors adequately enclosed (526.5)		✓
4 Adequately connected at point of entry to enclosure (glands, bushes etc) (522.8.5)		✓
Condition of accessories including socket-outlets, switches and joint boxes (651.2)		✓
Suitability of accessories for external influences (512.2)		✓
Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)		✓
8. Isolation and Switching		
Isolators (Sections 460; 537)		
1 Presence and condition of appropriate devices (Section 462; 537.2)		✓
2 Acceptable location - state if local or remote from equipment in question (Section 462; 537.2.7)	Local	✓
3 Capable of being secured in the OFF position (462.3)		✓
4 Correct operation verified (643.10)	All isolators that where non essential equipment have being inspected and tested . All essential which includes Distribution Service equipment has being visual inspection.	✓
5 Clearly identified by position and/or durable marking (537.2.7)		✓
6 Warning label posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)		N/A
Switching off for mechanical maintenance (Section 464; 537.3.2)		
1 Presence and condition of appropriate devices (Section 464.1; 537.3.2)		✓
2 Acceptable location - state if local or remote from equipment in question (537.3.2.4)	Local	✓
3 Capable of being secured in the OFF position (462.3)		✓
4 Correct operation verified (643.10)	All isolators that where non essential equipment have being inspected and tested . All essential which includes Distribution Service equipment has being visual inspection.	✓
5 Clearly identified by position and/or durable marking (537.3.2.4)		✓
Emergency switching/stopping (Section 465; 537.3.3)		
1 Presence and condition of appropriate devices (Section 465; 537.3.3; 537.4)		✓
2 Readily accessible for operation where danger might occur (537.3.3.6)		✓
3 Correct operation verified (643.10)	All isolators that where non essential equipment have being inspected and tested . All essential which includes Distribution Service equipment has being visual inspection.	✓
4 Clearly identified by position and/or durable marking (537.3.3.6)		✓
Functional switching (Section 463; 537.3.1)		
1 Presence and condition of appropriate devices (537.3.1.1; 537.3.1.2)		✓
2 Correct operation verified (537.3.1.1; 537.3.1.2)	All isolators that where non essential equipment have being inspected and tested .	✓

All essential which includes Distribution Service equipment has being visual inspection.

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Inspection Schedule (5)

9. Current Using Equipment (Permanently Connected)

Condition of equipment in terms of IP rating etc (416.2)		✓
Equipment does not constitute a fire hazard (Section 421)		✓
Enclosure not damaged/deteriorated so as to impair safety (134.1.1; 416.2; 512.2)		✓
Suitability for the environment and external influences (512.2)		✓
Security of fixing (134.1.1)		✓
Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: List number and location of luminaires inspected (separate page)(527.2)(Extent of sampling is indicated in Section 3)		✓
Recessed luminaires (downlighters)		
1 Correct type of lamps fitted (559.3.1)		✓
2 Installed to minimise build-up of heat by use of "fire rated" fitting, insulation displacement box or similar (421.1.2)		✓
3 No signs of overheating to surrounding building fabric (559.4.1)		✓
4 No signs of overheating to conductors/ terminations (526.1)		✓

10. Location(s) containing a Bath or Shower

	Comments	
Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)		✓
Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)		N/A
Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)		✓
Presence of supplementary bonding conductors, unless not required by BS7671:2018 (701.415.2)		✓
Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)		✓
Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)		✓
Suitability of accessories and control gear etc. for a particular zone (701.512.3)		✓
Suitability of current-using equipment for particular position within the location (701.55)		✓

11. Special Installations or Locations (if any special installations or locations are present, list the particular inspections applied on a separate sheet

Inspected by

Name: Niall Fensome	Position: EIT Engineer
Date: 28/02/2023	Signature:

Circuit Details



Reference Number ESEITTC10024859_2 **PTSG Job Ref** ESEIT16548
DB Reference Apartment DB-A/APT/01 **DB Location** Asquith Ground Floor Plantroom
Distribution Board Comments N/A **DB Reference** Asquith House **Circuit Number** 5/TP
Supply From Asquith House **Over Current Device** 60947 **MCCB** **RCD Operating Current** N/A **mA**
Board Manufacturer Hager **Device Rating** 200 **A** **RCD Time Delay** N/A **RCD Operating time at IΔn** N/A **ms**

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/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
1/L2	Sub Main CU-A-01	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	35	35
1/L3	Sub Main CU-A-02	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	35	35
2/L1	Sub Main CU-A-03	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
2/L2	Sub Main CU-A-04	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
2/L3	Sub Main CU-A-05	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
3/L1	Sub Main CU-A-06	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	35	35
3/L2	Sub Main CU-A-11	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
3/L3	Sub Main CU-A-10	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
4/L1	Sub Main CU-A-09	Sub Main	1	5	60898	B	63	10	N/A	0.6936	G	E&F	16	16
4/L2	Sub Main CU-A-08	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
4/L3	Sub Main CU-A-07	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
5/L1	Unable to verify	N/V	LIM	0.4	60898	C	16	10	N/A	1.3656	O	B	1.5	1.5
5/L2	Sub Main CU-A-13	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
5/L3	Sub Main CU-A-14	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
6/L1	Sub Main CU-A-15	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
6/L2	Sub Main CU-A-16	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	16	16
6/L3	Sub Main CU-A-17	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	25	25
7/L1	Sub Main CU-A-18	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	25	25
7/L2	Sub Main CU-A-19	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	25	25
7/L3	Sub Main CU-A-12	Sub Main	1	5	60898	C	63	10	N/A	0.3468	G	E&F	25	25
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_2** PTSG Job Ref **ESEIT16548**

DB Reference **Apartment DB-A/APT/01** DB Location **Asquith Ground Floor Plantroom**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Niall Fensome** Date **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.13** Ω Nominal Voltage **230** v Polarity Ipfc **3.8** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1 Δ n (ms)	@51 Δ n (ms)	Test Button Operation		AFDD Test Button Operation	
1/L1	N/A	N/A	N/A	N/A	N/A	N/A	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/L2	N/A	N/A	N/A	0.05	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.18	N/A	N/A	N/A	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	0.04	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	N/A	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.04	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	N/A	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	0.04	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	N/A	N/A	N/A	N/A
2/L3	N/A	N/A	N/A	0.04	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	N/A	N/A	N/A	N/A
3/L1	N/A	N/A	N/A	0.04	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	N/A	N/A	N/A	N/A
3/L2	N/A	N/A	N/A	0.08	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.21	N/A	N/A	N/A	N/A	N/A	N/A
3/L3	N/A	N/A	N/A	0.07	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.20	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	N/A	N/A	N/A	0.07	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.20	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	N/A	N/A	N/A	0.07	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.20	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	N/A	N/A	N/A	0.05	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.18	N/A	N/A	N/A	N/A	N/A	N/A
5/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	N/A	N/A	N/A	N/A	N/A	N/A
5/L2	N/A	N/A	N/A	0.06	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.19	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	N/A	N/A	N/A	0.06	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.19	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	N/A	N/A	N/A	0.03	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.16	N/A	N/A	N/A	N/A	N/A	N/A
6/L2	N/A	N/A	N/A	0.03	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.16	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	N/A	N/A	N/A	0.04	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	N/A	N/A	N/A	N/A
7/L1	N/A	N/A	N/A	0.05	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.18	N/A	N/A	N/A	N/A	N/A	N/A
7/L2	N/A	N/A	N/A	0.05	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.18	N/A	N/A	N/A	N/A	N/A	N/A
7/L3	N/A	N/A	N/A	0.07	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.20	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number	ESEITTC10024859_3		PTSG Job Ref	ESEIT16548	
DB Reference	DB -B/HTG/01		DB Location	Ground Floor Plantroom	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A		DB B	12/TP	60947 MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at IΔn		
Hager	200 A	N/A	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Heating 205-206	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
1/L2	Heating 201-204	Radial Circuit	6	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
1/L3	Heating 209-212	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
2/L1	Heating 213-216	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
2/L2	Heating 217-220	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
2/L3	Heating 221-224	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
3/TP	Spare	N/A	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	Overdoor Heater	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
4/L2	Heating 101-104	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
4/L3	Heating 105-108	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
5/L1	Heating 109,112	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
5/L2	Heating 113,116	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
5/L3	Heating 117,120	Radial Circuit	4	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_3** PTSG Job Ref **ESEIT16548**

DB Reference **DB -B/HTG/01** DB Location **Ground Floor Plantroom**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **Niall Fensome** Date **27/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.10** Ω Nominal Voltage **230** v Polarity Ipfc **4.8** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)	Test Button Operation	
1/L1	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	LIM	250	✓	0.60	N/A	N/A	N/A	N/A
1/L2	N/A	N/A	N/A	0.58	N/A	N/A	LIM	>999	LIM	250	✓	0.68	N/A	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	0.61	N/A	N/A	LIM	>999	LIM	250	✓	0.71	N/A	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.60	N/A	N/A	LIM	>999	LIM	250	✓	0.70	N/A	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	0.59	N/A	N/A	LIM	>999	LIM	250	✓	0.69	N/A	N/A	N/A	N/A
2/L3	N/A	N/A	N/A	0.74	N/A	N/A	LIM	>999	LIM	250	✓	0.84	N/A	N/A	N/A	N/A
3/TP	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A
4/L2	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	LIM	250	✓	0.45	N/A	N/A	N/A	N/A
4/L3	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>999	LIM	250	✓	0.41	N/A	N/A	N/A	N/A
5/L1	N/A	N/A	N/A	0.26	N/A	N/A	LIM	>999	LIM	250	✓	0.36	N/A	N/A	N/A	N/A
5/L2	N/A	N/A	N/A	0.22	N/A	N/A	LIM	>999	LIM	250	✓	0.32	N/A	N/A	N/A	N/A
5/L3	N/A	N/A	N/A	0.26	N/A	N/A	LIM	>999	LIM	250	✓	0.36	N/A	N/A	N/A	N/A
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number ESEITTC10024859_4 **PTSG Job Ref** ESEIT16548
DB Reference DB Common Room **DB Location** Common Room
Distribution Board Comments N/A **Supply From** DB-B/LL/01 **Circuit Number** 10/L1 **Over Current Device** 60898 C **RCD Operating Current** N/A mA
Board Manufacturer Hager **Device Rating** 63 A **RCD Time Delay** N/A **RCD Operating time at IΔn** N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Dado Ring Main	Ring Final Circuit	4	0.4	60898	B	32	10	30mA	1.3656	A	B	2.5	1.5
2/L1	Common Room Ring Main	Ring Final Circuit	5	0.4	60898	B	32	10	30mA	1.3656	A	B	2.5	1.5
3/L1	Aircon Unit	Radial Circuit	1	0.4	60898	B	20	10	30mA	2.185	F	C	4	4
4/L1	Door Entry	Radial Circuit	1	0.4	60898	B	20	10	30mA	2.185	A	102	2.5	1.5
5/L1	Lighting Common Room	Radial Circuit	9	0.4	60898	B	6	10	30mA	7.2833	A	102	1.5	1
6/L1	Loosmy Unit Spur	Radial Circuit	1	0.4	60898	B	16	10	30mA	2.7312	A	102	2.5	1.5
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
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
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
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
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
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
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
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

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_4** PTSG Job Ref **ESEIT16548**

DB Reference **DB Common Room** DB Location **Common Room**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **Niall Fensome** Date **27/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.16** Ω Nominal Voltage **230** v Polarity Ipfc **1.5** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation	AFDD Test Button Operation
1/L1	0.16	0.15	0.26	0.10	N/A	N/A	LIM	>999	LIM	250	✓	0.28	35	12	✓	N/A	
2/L1	0.33	0.33	0.60	0.24	N/A	N/A	LIM	>999	LIM	250	✓	0.38	35	12	✓	N/A	
3/L1	N/A	N/A	N/A	0.20	N/A	N/A	LIM	>999	LIM	250	✓	0.36	35	12	✓	N/A	
4/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	35	12	✓	N/A	Unable to test circuit due due to lack of access to test circuit.
5/L1	N/A	N/A	N/A	0.63	N/A	N/A	LIM	>999	LIM	250	✓	0.79	35	12	✓	N/A	
6/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	35	12	✓	N/A	Unable to test circuit due due to lack of access to test circuit.
7/L1	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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/L1	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10024859_5		PTSG Job Ref	ESEIT16548	
DB Reference	DB DB-B/LL/01		DB Location	Ground Floor Main Plantroom	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	DB PB-B	1/TP	60947	MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at I_{Δn}		
Hager	100 A	N/A	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Z _s (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Lighting GF Stairs	Radial Circuit	4	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
1/L2	Lighting GF 24 HRS	Radial Circuit	2	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
1/L3	Sockets GF Lobby	Radial Circuit	3	0.4	61009	C	32	10	30	0.6828	A	B	2.5	1.5
2/L1	Lighting Entrance Corridor	Radial Circuit	6	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
2/L2	Lighting 24HR Entrance Corridor	Radial Circuit	4	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
2/L3	Lighting Corridor 105,108	Radial Circuit	6	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
3/L1	Front Door Open Spur	Radial Circuit	1	0.4	60898	C	16	10	N/A	1.3656	A	B	2.5	1.5
3/L2	Unused	N/A	N/A	0.4	60898	C	16	10	N/A	1.3656	N/A	N/A	N/A	N/A
3/L3	Sockets Entrance Corridor	Radial Circuit	3	0.4	61009	C	32	10	30	0.6828	A	B	2.5	1.5
4/L1	Lighting 1st Floor Riser Corridor	Radial Circuit	6	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
4/L2	Lighting 1st Floor 24 HRS	Radial Circuit	4	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
4/L3	Sockets 1st Floor Corridor	Radial Circuit	4	0.4	61009	C	32	10	30	0.6828	A	B	2.5	1.5
5/L1	Lighting 1st Floor Stairs	Radial Circuit	4	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
5/L2	Sockets 2nd Floor Corridor	Radial Circuit	4	0.4	60898	C	16	10	N/A	1.3656	A	B	2.5	1.5
5/L3	Lighting GF Plantroom	Radial Circuit	6	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
6/L1	Lighting 2nd Floor Riser & Corridor	Radial Circuit	6	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
6/L2	Lighting 2nd Floor 24 HRS	Radial Circuit	4	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
6/L3	Lighting 2nd Floor Stairs	Radial Circuit	4	0.4	60898	C	10	10	N/A	2.185	A	B	1.5	1
7/L1	Sockets Comms	Radial Circuit	1	0.4	60898	C	16	10	N/A	1.3656	F	B	2.5	2.5
7/L2	ADV Supply	Radial Circuit	2	0.4	60898	C	16	10	N/A	1.3656	F	B	2.5	2.5
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
8/TP	Spare	N/A	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/TP	Sub Main DB External Lights	Sub Main	1	5	60898	C	63	10	N/A	0.3468	D	B	25	25
10/L1	Sub Main DB Common Room	Sub Main	1	5	60898	C	63	10	N/A	0.3468	D	B	25	25
10/L2	Door Access	Radial Circuit	3	0.4	60898	C	16	10	N/A	1.3656	O	B	1.5	1.5
10/L3	Door Access	Radial Circuit	1	0.4	60898	C	16	10	N/A	1.3656	O	B	1.5	1.5
11/L1	Door Access	Radial Circuit	3	0.4	60898	C	16	10	N/A	1.3656	O	B	1.5	1.5
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
11/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
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number	ESEITTC10024859_5	PTSG Job Ref	ESEIT16548
DB Reference	DB DB-B/LL/01	DB Location	Ground Floor Main Plantroom
Distribution Board Comments	N/A	Supply From	DB PB-B 1/TP
Board Manufacturer	Hager	Over Current Device	60947 MCCB
Device Rating	100 A	RCD Time Delay	N/A
RCD Operating Current	N/A mA	RCD Operating time at IΔn	N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm²)	cpc csa (mm²)
13/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:
A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trunking E. PVC Cables in non-metallic trunking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods
A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_5** PTSG Job Ref **ESEIT16548**

DB Reference **DB DB-B/LL/01** DB Location **Ground Floor Main Plantroom**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Niall Fensome** Date **27/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.11** Ω Nominal Voltage **230** v Polarity Ipfc **4.4** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Measured Zs (Ω)	RCD				Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@500ms	@50ms	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.51	N/A	N/A	LIM	>999	LIM	250	✓	0.62	N/A	N/A	N/A	N/A	
1/L2	N/A	N/A	N/A	0.54	N/A	N/A	LIM	>999	LIM	250	✓	0.65	N/A	N/A	N/A	N/A	
1/L3	N/A	N/A	N/A	0.97	N/A	N/A	LIM	>999	LIM	250	✓	1.08	18	18	✓	N/A	
2/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	0.53	N/A	N/A	LIM	>999	LIM	250	✓	0.64	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	LIM	250	✓	0.48	N/A	N/A	N/A	N/A	
3/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	Unable to test circuit due due to lack of access to test circuit.
3/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.69	N/A	N/A	LIM	>999	LIM	250	✓	0.80	21	18	✓	N/A	
4/L1	N/A	N/A	N/A	0.55	N/A	N/A	LIM	>999	LIM	250	✓	0.66	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.72	N/A	N/A	LIM	>999	LIM	250	✓	0.83	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	0.29	N/A	N/A	LIM	>999	LIM	250	✓	0.40	18	28	N/A	N/A	
5/L1	N/A	N/A	N/A	0.64	N/A	N/A	LIM	>999	LIM	250	✓	0.75	N/A	N/A	N/A	N/A	
5/L2	N/A	N/A	N/A	0.57	N/A	N/A	LIM	>999	LIM	250	✓	0.68	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	LIM	250	✓	0.41	N/A	N/A	N/A	N/A	
6/L1	N/A	N/A	N/A	0.83	N/A	N/A	LIM	>999	LIM	250	✓	0.94	N/A	N/A	N/A	N/A	
6/L2	N/A	N/A	N/A	0.53	N/A	N/A	LIM	>999	LIM	250	✓	0.64	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	0.72	N/A	N/A	LIM	>999	LIM	250	✓	0.83	N/A	N/A	N/A	N/A	
7/L1	N/A	N/A	N/A	0.23	N/A	N/A	LIM	>999	LIM	250	✓	0.34	N/A	N/A	N/A	N/A	
7/L2	N/A	N/A	N/A	0.23	N/A	N/A	LIM	>999	LIM	250	✓	0.34	N/A	N/A	N/A	N/A	
7/L3	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.12	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	0.05	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.16	N/A	N/A	N/A	N/A	

Test Results



Reference Number **ESEITTC10024859_5** PTSG Job Ref **ESEIT16548**

DB Reference **DB DB-B/LL/01** DB Location **Ground Floor Main Plantroom**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Niall Fensome** Date **27/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.11** Ω Nominal Voltage **230** v Polarity Ipfc **4.4** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation	AFDD Test Button Operation
10/L2	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	LIM	250	✓	0.50	N/A	N/A	N/A	N/A	
10/L3	N/A	N/A	N/A	0.54	N/A	N/A	LIM	>999	LIM	250	✓	0.65	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.51	N/A	N/A	LIM	>999	LIM	250	✓	0.62	N/A	N/A	N/A	N/A	
11/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10024859_6** PTSG Job Ref: **ESEIT16548**

DB Reference: **DB External Lights** DB Location: **Ground Floor Main Plantroom**

Distribution Board Comments: **N/A** DB Reference: **DB -B/LL/01** Circuit Number: **9/TP** Over Current Device: **60898 C** RCD Operating Current: **N/A** mA

Board Manufacturer: **Hager** Device Rating: **63 A** RCD Time Delay: **N/A** RCD Operating time at $I_{\Delta n}$: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Unable to verify	Radial Circuit	LIM	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
1/L2	Unable to verify	Radial Circuit	LIM	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
1/L3	Unable to verify	Radial Circuit	LIM	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
2/L1	Lighting Canopy	Radial Circuit	2	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
2/L2	Lighting Timeclock	Radial Circuit	1	0.4	60898	C	6	10	N/A	3.6416	A	B	1.5	1
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
3/L1	Unused	N/A	N/A	0.4	60898	C	16	10	N/A	1.3656	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
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
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_6** PTSG Job Ref **ESEIT16548**

DB Reference **DB External Lights** DB Location **Ground Floor Main Plantroom**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Fluke 1653B - 3224058**

Tested By Name **Niall Fensome** Date **27/02/2023**

Signature

Distribution Board Characteristics

Zs **0.12** Ω Nominal Voltage **230** v Polarity Ipfc **4.0** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@500ms	@51ms	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	
1/L2	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	
1/L3	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	
2/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	Unable to test circuit due due to lack of access to test circuit.
2/L2	N/A	N/A	N/A	0.05	N/A	N/A	LIM	>999	LIM	250	✓	0.17	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10024859_7		PTSG Job Ref	ESEIT16548	
DB Reference	DB Laundry		DB Location	Laundry Riser	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	DB PB-A	9/TP	60947	MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at I _{Δn}		
Hager	100 A	N/A	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Z _s (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Stack Dryer 1	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
1/L2	Stack Dryer 2	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
1/L3	Stack Dryer 3	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
2/L1	Single Dryer	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
2/L2	Unused	N/A	N/A	0.4	60898	B	10	10	N/A	4.37	N/A	N/A	N/A	N/A
2/L3	CVA	Radial Circuit	1	0.4	60898	B	16	10	N/A	2.7312	A	B	2.5	1.5
3/L1	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
3/L2	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
3/L3	DB 2	Sub Main	1	0.4	60898	B	40	10	N/A	1.0925	A	B	10	4
4/L1	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
4/L2	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
4/L3	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
5/L1	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
5/L2	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
5/L3	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	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	Stack Washer 1	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
7/L2	Stack Washer 2	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
7/L3	Stack Washer 3	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
8/L1	Single Washer	Radial Circuit	1	0.4	60898	B	32	10	N/A	1.3656	A	B	4	1.5
8/L2	Unused	N/A	N/A	0.4	60898	B	10	10	N/A	4.37	N/A	N/A	N/A	N/A
8/L3	Unused	N/A	N/A	0.4	60898	B	20	10	N/A	2.185	N/A	N/A	N/A	N/A
9/L1	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
9/L2	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
9/L3	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
10/L1	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
10/L2	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
10/L3	Unused	N/A	N/A	0.4	60898	B	20	10	N/A	2.185	N/A	N/A	N/A	N/A
11/L1	Unused	N/A	N/A	0.4	60898	B	20	10	N/A	2.185	N/A	N/A	N/A	N/A
11/L2	Unused	N/A	N/A	0.4	60898	B	20	10	N/A	2.185	N/A	N/A	N/A	N/A

Circuit Details



Reference Number	ESEITTC10024859_7		PTSG Job Ref	ESEIT16548	
DB Reference	DB Laundry		DB Location	Laundry Riser	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A		DB PB-A	9/TP	60947 MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at IΔn		
Hager	100 A	N/A	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
11/L3	Unused	N/A	N/A	0.4	60898	B	16	10	N/A	2.7312	N/A	N/A	N/A	N/A
12/L1	Service Socket	Radial Circuit	2	0.4	60898	B	16	10	N/A	2.7312	A	B	2.5	1.5
12/L2	Service Light	Radial Circuit	1	0.4	60898	B	10	10	N/A	4.37	A	B	2.5	1.5
12/L3	Laundry View	Radial Circuit	1	0.4	60898	B	16	10	N/A	2.7312	A	B	2.5	1.5

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trunking E. PVC Cables in non-metallic trunking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods A. In conduit in thermally insulated wall B. In conduit on a wall or in trunking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_7** PTSG Job Ref **ESEIT16548**

DB Reference **DB Laundry** DB Location **Laundry Riser**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Niall Fensome** Date **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.17** Ω Nominal Voltage **230** v Polarity Ipfc **3.4** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1 Δ n (ms)	@51 Δ n (ms)	Test Button Operation	
1/L1	N/A	N/A	N/A	0.07	N/A	N/A	LIM	>999	LIM	250	✓	0.24	N/A	N/A	N/A	N/A
1/L2	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>999	LIM	250	✓	0.25	N/A	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>999	LIM	250	✓	0.26	N/A	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	LIM	250	✓	0.27	N/A	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	LIM	250	✓	0.28	N/A	N/A	N/A	N/A
3/L1	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.02	N/A	N/A	LIM	>999	LIM	250	✓	0.19	N/A	N/A	N/A	N/A
4/L1	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>999	LIM	250	✓	0.25	N/A	N/A	N/A	N/A
7/L2	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>999	LIM	250	✓	0.26	N/A	N/A	N/A	N/A
7/L3	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>999	LIM	250	✓	0.26	N/A	N/A	N/A	N/A
8/L1	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	LIM	250	✓	0.29	N/A	N/A	N/A	N/A
8/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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



Reference Number **ESEITTC10024859_7** PTSG Job Ref **ESEIT16548**

DB Reference **DB Laundry** DB Location **Laundry Riser**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Niall Fensome** Date **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.17** Ω Nominal Voltage **230** v Polarity Ipfc **3.4** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1 Δ n (ms)	@51 Δ n (ms)	Test Button Operation		AFDD Test Button Operation	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.14	N/A	N/A	LIM	>999	LIM	250	✓	0.31	N/A	N/A	N/A	N/A	N/A	
12/L2	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	LIM	250	✓	0.27	N/A	N/A	N/A	N/A	N/A	
12/L3	N/A	N/A	N/A	0.15	N/A	N/A	LIM	>999	LIM	250	✓	0.32	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number ESEITTC10024859_8 **PTSG Job Ref** ESEIT16548

DB Reference DB PB-A **DB Location** Austin Ground Floor Plantroom

Distribution Board Comments N/A **DB Reference** DB Main Panel **Circuit Number** 1/TP

Supply From DB Main Panel **Over Current Device** 60947 MCCB **RCD Operating Current** N/A mA

Board Manufacturer Hager **Device Rating** 400 A **RCD Time Delay** N/A **RCD Operating time at IΔn** N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/TP	Landlords DB-A/LL/02	Sub Main	1	5	60947	MCCB	100	18	N/A	0.2185	G	E&F	25	Mech
2/TP	Heating DB-A/HTG/03	Sub Main	1	5	60947	MCCB	100	18	N/A	0.2185	G	E&F	25	Mech
3/TP	Heating DB-A/HTG/04	Sub Main	1	5	60947	MCCB	100	18	N/A	0.2185	G	E&F	25	Mech
4/TP	Landlords DB-A/LL/01	Sub Main	1	5	60947	MCCB	100	18	N/A	0.2185	G	E&F	25	10
5/TP	Apartment DB-A/APT/01	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	G	E&F	70	35
6/TP	Heating DB-A/HTG/01	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	G	E&F	70	35
7/TP	Lift	Radial Circuit	1	0.4	60947	MCCB	40	18	N/A	0.5462	G	E&F	10	Mech
8/TP	Laundry	Sub Main	1	5	60947	MCCB	63	18	N/A	0.3468	G	E&F	35	Mech
9/L1	Fire Alarm	Radial Circuit	1	0.4	60947	MCCB	16	18	N/A	1.3656	O	E&F	1.5	1.5
9/L2	Unused	N/A	N/A	0.4	60947	MCCB	16	18	N/A	1.3656	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
10/TP	Heating DB-A/HTG/02	Sub Main	1	5	60947	MCCB	100	18	N/A	0.2185	G	E&F	25	Mech
11/TP	Apartment DB-A/APT/02	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	G	E&F	70	Mech
12/TP	Apartment DB-A/APT/03	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	G	E&F	70	Mech

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trunking	E. PVC Cables in non-metallic trunking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_8** PTSG Job Ref **ESEIT16548**

DB Reference **DB PB-A** DB Location **Austin Ground Floor Plantroom**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Name** **Niall Fensome** **Date** **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.13** Ω Nominal Voltage **230** v Polarity Ipfc **3.8** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)						RCD				Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity	Measured Zs (Ω)	@1An (ms)	@51An (ms)	Test Button Operation	
1/TP	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.19	N/A	N/A	LIM	N/A
2/TP	N/A	N/A	N/A	0.14	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.27	N/A	N/A	LIM	N/A
3/TP	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.19	N/A	N/A	LIM	N/A
4/TP	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.13	N/A	N/A	LIM	N/A
5/TP	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.13	N/A	N/A	LIM	N/A
6/TP	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.13	N/A	N/A	LIM	N/A
7/TP	N/A	N/A	N/A	LIM	LIM	LIM	LIM	LIM	LIM	LIM	✓	LIM	N/A	N/A	LIM	N/A
8/TP	N/A	N/A	N/A	0.04	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	LIM	N/A
9/L1	N/A	N/A	N/A	LIM	LIM	LIM	LIM	LIM	LIM	LIM	✓	LIM	N/A	N/A	LIM	N/A
9/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	0.04	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.17	N/A	N/A	LIM	N/A
11/TP	N/A	N/A	N/A	0.03	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.15	N/A	N/A	LIM	N/A
12/TP	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.16	N/A	N/A	LIM	N/A
7/TP	Unable to test circuit due due to lack of access to test circuit.															

Circuit Details



Reference Number ESEITTC10024859_9 **PTSG Job Ref** ESEIT16548
DB Reference DB PB-B **DB Location** Ground Floor Main Plantroom
Distribution Board Comments N/A **Supply From** Main Panel **Circuit Number** 2/TP **Over Current Device** 60947 MCCB **RCD Operating Current** N/A mA
Board Manufacturer Hager **Device Rating** 400 A **RCD Time Delay** N/A **RCD Operating time at IΔn** N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/TP	Sub Main Landlords DB-B/LL01	Sub Main	1	5	60947	MCCB	100	20	N/A	0.2185	F	E&F	25	Mech
2/TP	Lift	Radial Circuit	1	0.4	60947	MCCB	40	20	N/A	0.5462	F	E&F	10	Mech
3/L1	Fire Alarm	Radial Circuit	1	0.4	60947	MCCB	16	35	N/A	1.3656	O	E&F	2.5	2.5
3/L2	Fire Alarm	Radial Circuit	1	0.4	60947	MCCB	16	35	N/A	1.3656	O	E&F	1.5	1.5
3/L3	Disable Refuge Alarm	Radial Circuit	1	0.4	60947	MCCB	16	35	N/A	1.3656	O	E&F	1.5	1.5
4/TP	Sub Main Landlords DB-B/LL02	Sub Main	1	5	60947	MCCB	100	20	N/A	0.2185	F	E&F	25	Mech
5/TP	Sub Main Apartment DB-B/APT/03/04	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	F	E&F	70	Mech
6/TP	Sub Main Apartment DB-B/APT/02	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	F	E&F	70	Mech
7/TP	Sub Main Mechanical DB-B/MECH	Sub Main	1	5	60947	MCCB	100	20	N/A	0.2185	F	E&F	35	Mech
8/TP	Sub Main DB-B/HTG/03	Sub Main	1	5	60947	MCCB	100	20	N/A	0.2185	F	E&F	35	Mech
9/TP	Sub Main DB-B/HTG/04	Sub Main	1	5	60947	MCCB	80	20	N/A	0.2731	F	E&F	16	Mech
10/TP	Sub Main DB-B/HTG/02	Sub Main	1	5	60947	MCCB	125	20	N/A	0.1748	F	E&F	35	Mech
11/TP	Sub Main Apartment DB-B/APT/01	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	F	E&F	70	Mech
12/TP	Sub Main DB-B/HTG/01	Sub Main	1	5	60947	MCCB	200	20	N/A	0.1092	F	E&F	70	Mech

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other
Installation methods A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_9** PTSG Job Ref **ESEIT16548**

DB Reference **DB PB-B** DB Location **Ground Floor Main Plantroom**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **Niall Fensome** Date **27/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.09** Ω Nominal Voltage **230** v Polarity Ipfc **5.0** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)						Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity		@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.11	N/A	N/A	LIM	N/A	Unable to test circuit due due to lack of access to test circuit.
2/TP	N/A	N/A	N/A	LIM	LIM	LIM	LIM	LIM	LIM	LIM	✓	LIM	N/A	N/A	LIM	N/A	
3/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	N/A	N/A	N/A	N/A	
3/L2	N/A	N/A	N/A	LIM	LIM	N/A	LIM	LIM	LIM	LIM	✓	LIM	N/A	N/A	N/A	N/A	
3/L3	N/A	N/A	N/A	0.55	N/A	N/A	LIM	LIM	LIM	LIM	✓	0.64	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	0.04	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.13	N/A	N/A	LIM	N/A	
5/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.11	N/A	N/A	LIM	N/A	
6/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.11	N/A	N/A	LIM	N/A	
7/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.11	N/A	N/A	LIM	N/A	
8/TP	N/A	N/A	N/A	0.05	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.14	N/A	N/A	LIM	N/A	
9/TP	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.15	N/A	N/A	LIM	N/A	
10/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.11	N/A	N/A	LIM	N/A	
11/TP	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.09	N/A	N/A	LIM	N/A	
12/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.11	N/A	N/A	LIM	N/A	

Circuit Details



Reference Number	ESEITTC10024859_10		PTSG Job Ref	ESEIT16548	
DB Reference	DB-B Mechanical		DB Location	Ground Floor Main Plantroom	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A		DB B	7/TP	60947 MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at IΔn		
Hager	100 A	N/A	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/TP	BMS	Radial Circuit	1	0.4	60898	C	63	10	N/A	0.3468	F	E&F	10	10
2/L1	PSU Power Unit	Radial Circuit	1	0.4	60898	B	16	10	N/A	2.7312	F	E&F	2.5	2.5
2/L2	EC Power Unit	Radial Circuit	1	0.4	60898	B	16	10	N/A	2.7312	F	E&F	2.5	2.5
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
3/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	CHP	Radial Circuit	1	0.4	60898	C	63	10	N/A	0.3468	F	E&F	16	16
6/L1	Socket Below DB	Radial Circuit	1	0.4	60898	C	16	10	N/A	1.3656	D	B	2.5	2.5
6/L2	Smoke Ventilation Panel	Radial Circuit	1	0.4	60898	C	16	10	N/A	1.3656	O	B	2.5	2.5
6/L3	Themo Stats	Radial Circuit	1	0.4	60898	C	16	10	N/A	1.3656	F	E&F	2.5	2.5
7/L1	Aircon Unit	Radial Circuit	1	0.4	60898	D	20	10	N/A	0.5462	F	E&F	2.5	2.5
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
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
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_10** PTSG Job Ref **ESEIT16548**

DB Reference **DB-B Mechanical** DB Location **Ground Floor Main Plantroom**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **Name** **Niall Fensome** **Date** **27/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.11** Ω Nominal Voltage **230** v Polarity Ipfc **4.4** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)						Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity		@1An (ms)	@51An (ms)	Test Button Operation	AFDD Test Button Operation	
1/TP	N/A	N/A	N/A	0.03	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.14	N/A	N/A	N/A	N/A	
2/L1	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>999	LIM	LIM	✓	0.19	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	LIM	LIM	✓	0.22	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	0.03	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.14	N/A	N/A	N/A	N/A	
6/L1	N/A	N/A	N/A	0.02	N/A	N/A	LIM	>999	LIM	LIM	✓	0.13	N/A	N/A	N/A	N/A	
6/L2	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	LIM	LIM	✓	0.23	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	LIM	✓	LIM	N/A	N/A	N/A	N/A	Unable to test circuit due due to lack of access to test circuit.
7/L1	N/A	N/A	N/A	0.21	N/A	N/A	LIM	>999	LIM	LIM	✓	0.33	N/A	N/A	N/A	N/A	
7/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10024859_11		PTSG Job Ref	ESEIT16548	
DB Reference	Heating DB/HTG/01		DB Location	Austin Hall Ground Floor Plantroom	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A		DB PB A	6/TP	60947 MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at I_{Δn}		
Hager	200 A	N/A	N/A ms		

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Z _s (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Heating Rooms 101-104	Radial Circuit	4	0.4	60898	B	20	10	N/A	2.185	A	B	4	1.5
1/L2	Heating Rooms 105-108	Radial Circuit	4	0.4	60898	B	20	10	N/A	2.185	A	B	4	1.5
1/L3	Heating Rooms 109-111	Radial Circuit	4	0.4	60898	B	20	10	N/A	2.185	A	B	4	1.5
2/L1	Heating Rooms 112-114	Radial Circuit	4	0.4	60898	B	20	10	N/A	2.185	A	B	4	1.5
2/L2	Heating Rooms 115-118	Radial Circuit	4	0.4	60898	B	20	10	N/A	2.185	A	B	4	1.5
2/L3	Heating Rooms 119-122	Radial Circuit	4	0.4	60898	B	20	10	N/A	2.185	A	B	4	1.5
3/TP	Spare	N/A	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	Heating Rooms 201-204	Radial Circuit	4	0.4	60898	B	40	10	N/A	1.0925	A	B	4	1.5
4/L2	Heating Studio	Radial Circuit	3	0.4	60898	B	40	10	N/A	1.0925	A	B	4	1.5
4/L3	Heating Rooms 209-211	Radial Circuit	4	0.4	60898	B	40	10	N/A	1.0925	A	B	4	1.5
5/L1	Heating Rooms 212-214	Radial Circuit	4	0.4	60898	B	40	10	N/A	1.0925	A	B	4	1.5
5/L2	Heating Rooms 215-218	Radial Circuit	4	0.4	60898	B	40	10	N/A	1.0925	A	B	4	1.5
5/L3	Heating Rooms 219-222	Radial Circuit	4	0.4	60898	B	40	10	N/A	1.0925	A	B	4	1.5
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_11** PTSG Job Ref **ESEIT16548**

DB Reference **Heating DB/HTG/01** DB Location **Austin Hall Ground Floor Plantroom**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **Niall Fensome** Date **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.13** Ω Nominal Voltage **230** v Polarity Ipfc **3.8** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	r _n (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1 Δ n (ms)	@51 Δ n (ms)	Test Button Operation	
1/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	LIM	250	✓	0.43	N/A	N/A	N/A	N/A
1/L2	N/A	N/A	N/A	0.34	N/A	N/A	LIM	>999	LIM	250	✓	0.47	N/A	N/A	N/A	N/A
1/L3	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>999	LIM	250	✓	0.44	N/A	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.36	N/A	N/A	LIM	>999	LIM	250	✓	0.49	N/A	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	0.46	N/A	N/A	LIM	>999	LIM	250	✓	0.59	N/A	N/A	N/A	N/A
2/L3	N/A	N/A	N/A	0.61	N/A	N/A	LIM	>999	LIM	250	✓	0.74	N/A	N/A	N/A	N/A
3/TP	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.38	N/A	N/A	LIM	>999	LIM	250	✓	0.51	N/A	N/A	N/A	N/A
4/L2	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	LIM	250	✓	0.53	N/A	N/A	N/A	N/A
4/L3	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>999	LIM	250	✓	0.62	N/A	N/A	N/A	N/A
5/L1	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	LIM	250	✓	0.63	N/A	N/A	N/A	N/A
5/L2	N/A	N/A	N/A	0.60	N/A	N/A	LIM	>999	LIM	250	✓	0.73	N/A	N/A	N/A	N/A
5/L3	N/A	N/A	N/A	0.60	N/A	N/A	LIM	>999	LIM	250	✓	0.73	N/A	N/A	N/A	N/A
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number: **ESEITTC10024859_12** PTSG Job Ref: **ESEIT16548**

DB Reference: **Landlords DB-A/LL/01** DB Location: **Asquith Ground Floor Plantroom**

Distribution Board Comments: **N/A** Supply From: **DB PB A** Circuit Number: **4/TP** Over Current Device: **60947** MCCB RCD Operating Current: **N/A** mA

Board Manufacturer: **Hager** Device Rating: **100** A RCD Time Delay: **N/A** RCD Operating time at $I_{\Delta n}$: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Lighting Entrance/ GF Stairs 24 Hrs	Radial Circuit	5	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
1/L2	Lighting Entrance	Radial Circuit	8	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
1/L3	Lighting Ground Floor Main Corridor	Radial Circuit	7	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
2/L1	Lobby Sockets	Radial Circuit	4	0.4	61009	C	20	10	30	1.0925	A	B	2.5	1.5
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
2/L3	Lighting Plantroom	Radial Circuit	2	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
3/L1	Ground Floor Main Sockets	Radial Circuit	3	0.4	61009	B	20	10	30	2.185	A	B	2.5	1.5
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
3/L3	Lighting Riser	Radial Circuit	2	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
4/L1	Lighting Ground Floor Main Corridor 24Hrs	Radial Circuit	2	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
4/L2	Lighting Ground Floor Stairs	Radial Circuit	4	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
4/L3	Lighting 1st Floor Stairs	Radial Circuit	4	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
5/L1	1st Floor Main Sockets	Radial Circuit	4	0.4	61009	B	20	10	30	2.185	A	B	2.5	1.5
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
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
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
6/L2	Lighting 1st Floor 24 HRS	Radial Circuit	4	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
6/L3	Lighting 1st Floor Main Corridor	Radial Circuit	7	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
7/L1	External Lighting Contactor	Radial Circuit	1	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
7/L2	Lighting 2nd Floor Corridor	Radial Circuit	7	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
7/L3	Lighting 2nd Floor 24 HRS	Radial Circuit	4	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
8/L1	Lighting External	Radial Circuit	2	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
8/L2	Lighting 2nd Floor Stairs	Radial Circuit	4	0.4	60898	B	6	10	N/A	7.2833	A	B	1.5	1
8/L3	2nd Floor Main Sockets	Radial Circuit	4	0.4	61009	B	20	10	30	2.185	A	B	2.5	1.5
9/L1	Door Access	Radial Circuit	4	0.4	60898	B	16	10	N/A	2.7312	A	B	2.5	1.5
9/L2	Aircon Comms Riser	Radial Circuit	1	0.4	60898	B	16	10	N/A	2.7312	F	E&F	2.5	2.5
9/L3	Scuba Tank	Radial Circuit	1	0.4	60898	B	16	10	N/A	2.7312	O	C	2.5	2.5
10/L1	Smoke Vents	Radial Circuit	1	0.4	60898	C	10	10	N/A	2.185	O	C	4	4
10/L2	1st Floor Comms Cabinet Socket	Radial Circuit	1	0.4	61009	C	16	10	30	1.3656	A	B	2.5	1.5

Circuit Details



Reference Number	ESEITTC10024859_12		PTSG Job Ref	ESEIT16548	
DB Reference	Landlords DB-A/LL/01		DB Location	Asquith Ground Floor Plantroom	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A		DB PB A	4/TP	60947 MCCB	N/A mA
Board Manufacturer	Device Rating	RCD Time Delay	RCD Operating time at IΔn		
Hager	100 A	N/A	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	RCD Operating Current (mA)	Maximum Permitted Zs (Ω)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
10/L3	Outside Shed	Radial Circuit	LIM	0.4	61009	B	32	10	30	1.3656	A	B	6	2.5
11/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	Spare	N/A	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/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10024859_12** PTSG Job Ref **ESEIT16548**

DB Reference **Landlords DB-A/LL/01** DB Location **Asquith Ground Floor Plantroom**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **Niall Fensome** Date **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.13** Ω Nominal Voltage **230** v Polarity Ipfc **3.8** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@ΔIn (ms)	@5ΔIn (ms)		Test Button Operation	AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	LIM	250	✓	0.55	N/A	N/A	N/A	N/A	
1/L2	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	LIM	250	✓	0.55	N/A	N/A	N/A	N/A	
1/L3	N/A	N/A	N/A	0.53	N/A	N/A	LIM	>999	LIM	250	✓	0.66	N/A	N/A	N/A	N/A	
2/L1	N/A	N/A	N/A	0.54	N/A	N/A	LIM	>999	LIM	250	✓	0.67	18	29	✓	N/A	
2/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>999	LIM	250	✓	0.44	N/A	N/A	N/A	N/A	
3/L1	N/A	N/A	N/A	0.89	N/A	N/A	LIM	>999	LIM	250	✓	1.02	18	29	✓	N/A	
3/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>999	LIM	250	✓	0.44	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	LIM	250	✓	0.63	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	LIM	250	✓	0.55	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	0.60	N/A	N/A	LIM	>999	LIM	250	✓	0.73	N/A	N/A	N/A	N/A	
5/L1	N/A	N/A	N/A	0.58	N/A	N/A	LIM	>999	LIM	250	✓	0.78	18	29	✓	N/A	
5/L2	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	0.60	N/A	N/A	LIM	>999	LIM	250	✓	0.73	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	0.62	N/A	N/A	LIM	>999	LIM	250	✓	0.75	N/A	N/A	N/A	N/A	
7/L1	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>999	LIM	250	✓	0.22	N/A	N/A	N/A	N/A	
7/L2	N/A	N/A	N/A	0.85	N/A	N/A	LIM	>999	LIM	250	✓	0.98	N/A	N/A	N/A	N/A	
7/L3	N/A	N/A	N/A	0.71	N/A	N/A	LIM	>999	LIM	250	✓	0.84	N/A	N/A	N/A	N/A	
8/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	Unable to test circuit due due to lack of access to test circuit.
8/L2	N/A	N/A	N/A	0.86	N/A	N/A	LIM	>999	LIM	250	✓	0.99	N/A	N/A	N/A	N/A	
8/L3	N/A	N/A	N/A	0.66	N/A	N/A	LIM	>999	LIM	250	✓	0.79	18	29	✓	N/A	

Test Results



Reference Number **ESEITTC10024859_12** PTSG Job Ref **ESEIT16548**

DB Reference **Landlords DB-A/LL/01** DB Location **Asquith Ground Floor Plantroom**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **Niall Fensome** Date **28/02/2023**

Signature

Test Instrument Serial Number **Fluke 1653B - 3224058**

Distribution Board Characteristics

Zs **0.13** Ω Nominal Voltage **230** v Polarity Ipfc **3.8** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			AFDD Test Button Operation	Circuit Comments
	r1 (line)	r _n (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1Δn (ms)	@51Δn (ms)	Test Button Operation		
9/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	Unable to test circuit due due to lack of access to test circuit.
9/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	LIM	250	✓	0.43	N/A	N/A	N/A	N/A	
9/L3	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>999	LIM	250	✓	0.21	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	N/A	N/A	N/A	N/A	Unable to test circuit due due to lack of access to test circuit.
10/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	LIM	250	✓	0.43	18	29	✓	N/A	
10/L3	N/A	N/A	N/A	LIM	LIM	N/A	LIM	>999	LIM	250	✓	LIM	20	29	✓	N/A	
11/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	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/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

ELECTRICAL INSTALLATION CONDITION REPORT

(Electrical Installations – BS7671 IET Wiring Regulations)



Reference

ESEITTC10024859_1

PTSG Job Ref

ESEIT16548

Observations

Item	General Installation Observations	Outcome
1.	Arc fault detection devices (AFDD's) conforming to BS EN 62606 are recommended as a means of providing additional protection against fire caused by arc faults in AC final circuits - 421.1.7	C3
2.	No Surge protection devices (SPD's) for cables traversing the external/internal zones 0/1 not protected (telephone lines, TV coax, external circuits on the ground and from roof mounted plant, etc.) - 534.1	C3

Item	DB Reference	Distribution Board Observations	Outcome
3.	DB PB-B	No DB circuit schedule located at DB providing circuit information - 514.9	C3
4.	DB DB-B/LL/01	No DB circuit schedule located at DB providing circuit information - 514.9	C3
5.	DB DB-B/LL/01	There is no RCD test label at the DB/CU - 514.12.2	C3
6.	DB -B/HTG/01	No DB circuit schedule located at DB providing circuit information - 514.9	
7.	DB External Lights	No DB circuit schedule located at DB providing circuit information - 514.9	
8.	DB-B Mechanical	No DB circuit schedule located at DB providing circuit information - 514.9	C3
9.	DB Common Room	No DB circuit schedule located at DB providing circuit information - 514.9	C3
10.	DB Common Room	There is no RCD test label at the DB/CU - 514.12.2	C3
11.	DB PB-A	No DB circuit schedule located at DB providing circuit information - 514.9	C3
12.	Landlords DB-A/LL/01	No DB circuit schedule located at DB providing circuit information - 514.9	C3
13.	Apartment DB-A/APT/01	No DB circuit schedule located at DB providing circuit information - 514.9	C3
14.	Heating DB/HTG/01	No DB circuit schedule located at DB providing circuit information - 514.9	C3
15.	DB Laundry	DB/CU cover not provided with adequate number of fixings - cover in place - 134.1.1	C3
16.	DB Laundry	No DB circuit schedule located at DB providing circuit information - 514.9	C3

Item	DB Reference	Circuit Reference	Circuit Observations	Outcome
17.	DB PB-B	5/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
18.	DB PB-B	6/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
19.	DB PB-B	11/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
20.	DB PB-B	12/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C2
21.	DB DB-B/LL/01	1/L3	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values - functioning RCD protection in place providing adequate disconnection times - 411.3.2.2	C3
22.	DB DB-B/LL/01	1/L3	Overcurrent protection has not been provided where a 32 A protective device has been installed for a 2.5mm radial circuit - 433.1.1/533.2 - c	C2
23.	DB DB-B/LL/01	3/L3	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values - functioning RCD protection in place providing adequate disconnection times - 411.3.2.2	C3
24.	DB DB-B/LL/01	3/L3	Overcurrent protection has not been provided where a 32 A protective device has been installed for a 2.5mm radial circuit - 433.1.1/533.2 - c	C2
25.	DB DB-B/LL/01	4/L3	Overcurrent protection has not been provided where a 32 A protective device has been installed for a 2.5mm radial circuit - 433.1.1/533.2 - c	C2
26.	DB DB-B/LL/01	5/L2	Socket-outlets: Dwellings - can be used outdoors - no 30 mA RCD protection - 411.3.3	C2

27.	DB External Lights	1/L1	Circuit not adequately labelled at distribution board, unable to locate and test - further investigation required to locate, identify and test circuit - 514.9/537.2.7/537.3.2.4/537.3.3.6	FI
28.	DB External Lights	1/L2	Circuit not adequately labelled at distribution board, unable to locate and test - further investigation required to locate, identify and test circuit - 514.9/537.2.7/537.3.2.4/537.3.3.6	FI
29.	DB External Lights	1/L3	Circuit not adequately labelled at distribution board, unable to locate and test - further investigation required to locate, identify and test circuit - 514.9/537.2.7/537.3.2.4/537.3.3.6	FI
30.	DB-B Mechanical	6/L1	Socket-outlets: Dwellings - can be used outdoors - no 30 mA RCD protection - 411.3.3 - c	C2
31.	DB PB-A	1/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
32.	DB PB-A	2/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
33.	DB PB-A	3/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
34.	DB PB-A	5/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
35.	DB PB-A	6/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
36.	DB PB-A	11/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
37.	DB PB-A	12/TP	Zs reading exceeds the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	FI
38.	Apartment DB-A/APT/01	5/L1	Circuit not adequately labelled at distribution board, unable to locate and test - further investigation required to locate, identify and test circuit - 514.9/537.2.7/537.3.2.4/537.3.3.6	FI
39.	Heating DB/HTG/01	4/L1	Overcurrent protective device rating exceeds the current carrying capacity of circuit, feeding multiple outlets/accessories - 433.1.1/533.2 - c	C2
40.	Heating DB/HTG/01	4/L2	Overcurrent protective device rating exceeds the current carrying capacity of circuit, feeding multiple outlets/accessories - 433.1.1/533.2 - c	C2
41.	Heating DB/HTG/01	4/L3	Overcurrent protective device rating exceeds the current carrying capacity of circuit, feeding multiple outlets/accessories - 433.1.1/533.2 - c	C2
42.	Heating DB/HTG/01	5/L1	Overcurrent protective device rating exceeds the current carrying capacity of circuit, feeding multiple outlets/accessories - 433.1.1/533.2 - c	C2
43.	Heating DB/HTG/01	5/L2	Overcurrent protective device rating exceeds the current carrying capacity of circuit, feeding multiple outlets/accessories - 433.1.1/533.2 - c	C2
44.	Heating DB/HTG/01	5/L3	Overcurrent protective device rating exceeds the current carrying capacity of circuit, feeding multiple outlets/accessories - 433.1.1/533.2 - c	C2

ELECTRICAL INSTALLATION CONDITION REPORT GUIDANCE FOR RECIPIENTS



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

The purpose of this Condition Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see section 4). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger.

The person ordering the Report should have received the 'Original' Report and the inspector should have retained a duplicate.

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, the Report will provide the new owner/ occupier with details of the condition of the electrical installation at the time the Report was issued.

Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested 6 monthly'. For safety reasons it is important that this instruction is followed.

Section 3 (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authorities, insurance company, mortgage provider and the like) before the inspection was carried out.

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 3 – Extent and Limitations on page 1.

For items classified in the observations as C1 ('Danger present'), the safety of those using the installation is at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work immediately.

For items classified in the observation as C2 ('Potentially dangerous'), the safety of those using the installation may be at risk and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

Where it has been stated that an observation requires further investigation the inspection has revealed an apparent deficiency which may result in a Code 1 or Code 2, 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 Section 7 – Recommendations).

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 on page 2 of the Report under 'Recommendations' and on a label at or near to the consumer unit/ distribution board.