

**BS7671**  
**Electrical Installation Condition Report**  
**No:2021109**  
October 2021

PreparedFor

**Laurel House**  
**Laurelhill Business Park**  
**Stirling**  
**FK7 9JQ**

# Report Summary

## General

Detailed electrical testing and inspection has been performed on your electrical installation, as required by the electricity at work regulations 1989. The specification of the work is detailed at the beginning of the attached Amtech report.

The purpose of the testing is to identify faults and non compliance within the installation and to notify you of such so that potential danger can be removed.

The faults found have been categorised either C1, C2 C3 or FI as required by the NICEIC (National Inspection Council for Electrical Installation Contracting), with priority C1 faults being the most urgent.

The NICEIC also require that any installation where one or more priority C1, C2 or FI faults are identified the overall summary of the installation must be classed as an unsatisfactory installation

Although category C3 faults present a much lesser risk than a C1 or C2 fault, they must not be ignored and should be attended to at the next possible opportunity.

Code	Definition
C1	Danger Present. Risk Of Injury, Immediate Remedial Action Required
C2	Potentially dangerous. Urgent Remedial Action Required
C3	Improvement Recommended
FI	Further Investigation Required

## Your Installation

As a result of the inspection and testing your electrical installation according to the NICEIC & BS7671 classification has been assessed as **Unsatisfactory**.

### Achieving "Satisfactory" Status.

In order for your installation to be classed as satisfactory, it will be necessary to rectify priority C1 & C2 faults as recorded in within the observations and recommendations (Section 4) of this report.

Most importantly it is essential that documentary evidence of rectification work is stored safely in the defect section of the report, so that any interested party can easily see it.

### Issuing a satisfactory certificate

On completion of the necessary remedial works, the report can be considered as satisfactory and does not need to be replaced. However, it is often desirable to see a certificate marked "Satisfactory" as it clearly confirms that the remedial work has been correctly completed.

Therefore, once the necessary work has been done, Falcon Electrical Testing Ltd will be please to provide a quotation to re-test the relevant parts, and subject to the results of those tests, we can issue a satisfactory certificate.

Guidance note 3 of the current IET wiring regulations BS7671 recommends that the maximum period between inspection and testing for your type of installation is **(5 Years)** however depending on the overall assessment given by our test engineer at the time of inspection, this may in some cases be sooner if the electrical installation is below the average condition for an installation of its type and age.

Continued.../

To ensure your certification does not lapse, Falcon Electrical Testing Ltd will contact you approximately 6 months before the due date, at which time we hope you will consider using our services again.

### **Recommendations**

Due to the quite significant amount of time between full testing and inspection, strongly recommend that a thermographic survey is performed on your installation on an annual basis. This service is very low cost but is extremely good value and has no detrimental impact on the day to day operation of your business.

**EXTENT AND LIMITATIONS OF THE ELECTRICAL  
INSTALLATION COVERED BY THE REPORT**

1) A thorough visual inspection of the electrical installation has been carried out where practicable with regard to the following:

- ( a ) Safety
- ( b ) Wear and tear
- ( c ) Corrosion
- ( d ) Damage
- ( e ) Excessive Loading (Overloading)
- ( f ) Age
- ( g ) External Influences
- ( h ) Suitability

1.1 To supplement the visual inspection with such electrical testing as considered necessary for protection against:

- ( a ) Electric shock under fault free or single fault conditions
- ( b ) Electric burn
- ( c ) Fires of electrical origin
- ( d ) Electrical arcing or explosions initiated or caused by electricity

2) **VISUAL INSPECTION**

A 100% visual inspection of the electrical installation, including an internal inspection of distribution boards has been carried out where practicable to include the following:

**( a ) Joints and Connections**

Random sample inspection to verify integrity of same e.g. signs of overheating etc.

A random 10% in total internal inspection of socket outlets, switching devices and luminaires.

**( b ) Conductors (Including Protective Conductors)**

Verify suitability, condition and means of identification etc.

A random 10% in total internal inspection of socket outlets, switching devices and luminaires.

**( c ) Flexible Cables and Cords**

Verify suitability and condition.

**( d ) Switching Devices**

Verify suitability, condition and operation.

Carry out a random 10% internal inspection.

**( e ) Protection against Thermal Effects**

Verify presence of fire barriers etc., if reasonably practicable.

**( f ) Protection Devices**

Verify presence, accessibility, labelling and condition of devices for electrical protection, isolation and switching.  
All fuses, circuit breakers etc. to be checked for correct type and rating.

**( g ) Enclosures and Mechanical Protection**

Verify suitability and integrity of enclosures for mechanical protection of electrical apparatus and equipment.

**( h ) Installed Machinery**

An external visual inspection for electrical safety, excluding all control and operational functions.

**3) TESTING SCHEDULE**

**3.1 Continuity Testing of Protective Conductors to include:**

- ( a ) Earthing Conductors
- ( b ) Main Protective Bonding Conductors. (Where accessible)
- ( c ) Supplementary Bonding Conductors. (Where Accessible)
- ( d ) All circuit protective conductors. (sample lighting circuits)
- ( e ) Exposed conductive parts on installed machinery/fixed equipment.

**3.2 Polarity Testing**

- ( a ) The polarity has been checked at the meter position.
- ( b ) 100% of distribution boards where practicable.
- ( c ) 100% of socket outlets will be checked to ensure conductors are correctly connected and a 10% random sample of other accessories.
- ( d ) Single pole control and protective devices are connected in the phase conductors only. (10% random sample to be taken)
- ( e ) Centre contacts of Edison screw type lamp holders have correct connections (10% random sample taken)
- ( f ) Multi-pole devices are correctly installed (10% random sample to be taken)

**3.3 Earth Loop Impedance**

Earth loop impedance tests have been carried out at locations indicated below:

- ( a ) At the origin and at each distribution board.
- ( b ) At all socket outlets.
- ( c ) Any location which is exposed to exceptional damage, deterioration or represents a special hazard.

- ( d )        Whilst 100% of fixed equipment is tested for earth continuity a further 10% sample will be checked for earth loop impedance

### **3.4    Insulation Resistance Testing**

Insulation resistance tests have been carried out on 10% of circuits at the discretion of the inspecting engineer with due regards to age, condition and visual inspection. If the failure rate is high then the sample size is increased.

### **3.5    Operating Devices for Isolation and Switching**

These have been checked for effectiveness and to ensure adequate and correct labelling.

### **3.6    Operation of Residual Current Devices (RCD's)**

100% of RCD's have been tested for tripping time at half rated, full rated and five times rated tripping current across positive and negative cycles, where practicable.

### **3.7    Prospective Fault Current**

Tests have been carried out at the origin and at each distribution board

### **3.8    Overcurrent Circuit Breakers**

A manual operation of overcurrent breakers has been completed

## **4)    LIMITATIONS**

- 4.1**    The inspection and testing has been carried out where practicable at the discretion of the Inspecting Engineer, taking into account availability and accessibility.
- 4.2**    Cables concealed within trunking and conduits, or cables and conduits concealed under floors, inaccessible roof spaces and generally within fabric of the building or underground, will not be visually inspected.
- 4.3**    Insulation resistance tests will not be carried out on circuits and/or sections of the installation which contain electronic or similar sensitive circuitry.
- 4.4**    Inspection and testing will be carried out at the source of the installation however, in some cases where it is impractical to isolate the mains supply then it may not be possible to obtain the characteristics and particulars at the origin which form part of this report. In such cases these areas will be noted within this document using the term "LIM" meaning Limitation.
- 4.5**    Circuits that can't be located or identified within a reasonable time where practicable at the discretion of the Engineer will not be tested and will be noted as a defect within the observations & recommendations section of the report however a 15 minute stand down period will be allowed for tracing and identifying circuits that have no designation.

- 4.6** In some cases the sub mains supplies to distribution boards and consumer units may not be isolated in order to minimise disruption to parts of the installation, however all attempts will be made to obtain a  $Z_e/Z_{db}$  readings.
- 4.7** Where there is a VSD unit in place dead testing only will take place.
- 4.8** Where VSD supplied equipment can't be isolated for test purposes an R2 test reading on the circuit will be obtained only to prove the continuity of the circuit protective conductor.

**5) Unless otherwise requested, the following specialist areas will be subject to separate contracts and will not therefore form part of the inspection and test.**

- ( a ) Emergency lighting systems.
- ( b ) Lightning protection systems.
- ( c ) Lift installations.
- ( d ) Potentially explosive atmosphere installations, which are subject to local licensing authority requirements.
- ( e ) High level parts of the fixed installation where access would have to be gained using specialist equipment, ie Powered Access Vehicles or scaffolding.
- ( f ) Confined spaces where specialist monitoring equipment is required.
- ( g ) H.V. Power Systems i.e. in excess of 1000 volts ac.
- ( h ) Fire, security and door entry systems.
- ( i ) Data/telecommunication systems.
- ( j ) Heating and ventilation equipment and controls.
- ( k ) Portable Appliances.

## Operational Limitations

Continued from page 1 (Section D) of the Amtech EICR Report

DB/ASSET REF	Location	Limitation Description
General	General	No access gained to the origin of the installation to obtain some of the supply characteristics and particulars at the source.
General	General	Could not access internal/external high level lighting therefore any test readings obtained were from the local switching point.
General	General	Sub main supplies to distribution boards could not be isolated at the time of inspection as the building was in full operation therefore no dead testing was carried out.
GF1	Ground Floor Suite 2	Access to some floor sockets and accessories could not be gained due to obstructions and furnishings.

## Distribution Board Summary

Amtech EICR Page No	DB/Asset Ref	Location	Zdb ( $\Omega$ )	PSCC/IP F (kA)	No Of Ways	No Of Circuits In Use	Circuit Protection Type	Distribution Board Make/ Manufacturer
5-6	DB SOURCE	Rear Plant Room	0.17	2.80	7	7	BS88-2 HRC	GEC
7-8	DB Miniiform (Landlords)	Rear Plant Room	0.17	2.80	10	6	BS88-2 HRC	GEC Miniiform
9-12	DBLL	Rear Plant Room	0.17	2.80	54	37	BSEN60898	GEC
13-14	External Lighting	Rear Plant Room	0.19	1.60	24	6	BSEN60898	GEC
15-18	GF-1	Ground Floor Suite 2	0.2	2.36	36	17	BSEN60898	ABB

## Observations & Recommendations

Continued from page 2 (Section K) of the Amtech EICR Report

<b>C1</b>	Danger Present. Risk Of Injury. Immediate Remedial Action Required
<b>C2</b>	Potentially Dangerous. Urgent Remedial Action Required
<b>C3</b>	Improvement Recommended
<b>FI</b>	Further Investigation Required

Fault No	Falcon ASSET REF	Location	Fault Description/ Comment	Code	Recommended Remedial Action
1	DBLL	Rear Plant Room	Circuit 13L3 could not be located despite reasonable investigation	FI	Isolate the circuit until it is located
2	DBLL	Rear Plant Room	Circuit 8L1- hand dryer female toilet ground floor has no voltage present at spur unit	FI	Further investigation required
3	DBLL	Rear Plant Room	No main incoming circuit protective conductor present at DB	C2	Install suitable CPC (25mm)
4	DBLL	Rear Plant Room	Circuit chart needs updating at distribution board	C3	Fit necessary circuit chart
5	External Lighting	Rear Plant Room	External lighting columns have corrosion and water ingress within the cut outs	C2	Replace cut outs as necessary (21 No) SEE PHOTOS
6	External Lighting	Rear Plant Room	External lighting columns have water ingress on post top light fittings	C2	Replace fittings as necessary (21 No) SEE PHOTOS
7	External Lighting	Rear Plant Room	Lighting photocell at front of the building is broken	C2	Replace photocell accordingly
8	External Lighting	Rear Plant Room	Circuit 11L1 Has excessive (Zs) earth loop impedance values	C2	Further investigation required
9	External Lighting	Rear Plant Room	Circuit 11L2 Has excessive (Zs) earth loop impedance values	C2	Further investigation required
10	External Lighting	Rear Plant Room	Circuit 11L3 Has excessive (Zs) earth loop impedance values	C2	Further investigation required
11	External Lighting	Rear Plant Room	Circuit 3L1 Has excessive (Zs) earth loop impedance values	C2	Further investigation required
12	External Lighting	Rear Plant Room	No main incoming circuit protective conductor present at DB	C2	Install suitable CPC (25mm)
13	External Lighting	Rear Plant Room	Screws missing from distribution board cover	C3	Replace 2 No cover screws
14	External Lighting	Rear Plant Room	Circuit chart needs updating at distribution board	C3	Fit necessary circuit chart
15	External Lighting	Rear Plant Room	Mixed wiring colours label required at distribution board	C3	Fit suitable label
16	GF1	Ground Floor Suite 2	Circuit 11L2 could not be located despite reasonable investigation	FI	Isolate the circuit until it is located
17	GF1	Ground Floor Suite 2	Circuit 11L1 could not be located despite reasonable investigation	FI	Isolate the circuit until it is located
18	GF1	Ground Floor Suite 2	Circuit chart needs updating at distribution board	C3	Fit necessary circuit chart
19	General	General	Recommend installing 30mA RCD protection for all socket circuits throughout the installation	C3	As Per Comment

# ELECTRICAL INSTALLATION CONDITION REPORT

2021109 - Master



<b>A. Details of the Client/Person Ordering the Report</b>		<b>B. Reason for Producing this Report</b>	
Client:	Prime Trades (Scotland) Ltd	Purpose of this report:	General Electrical Safety Assessment
Address:	106 Clober Road Milngavie Glasgow G62 7SR	Date(s) on which Inspection: and testing was carried out	26/10/2021
<b>C. Details of the Installation which is the Subject of this Report</b>			
Installation:	Laurel House	Description of premises:	Domestic <input type="checkbox"/> N/A    Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> N/A
Occupier:	Various Tenants	Other:	N/A
Address:	Laurelhill Business Park Stirling FK7 9JQ	Estimated age of wiring system:	25 yrs
Record of Installation available:	N/A	Records held By:	N/A
		Evidence of alterations or additions:	N/A    If yes estimated Age: N/A yrs
		Date of previous inspection:	26/10/2021
<b>D. Extent and Limitations Inspection and Testing</b>			
Extent of Electrical Installation covered by this report:		Agreed limitations including the reasons (See regulation 653.2)	
All landlords distribution boards and outgoing circuits only --See Additional Page--		See attached limitations schedule (5 pages)	
Operational Limitations including the reasons (See page No <input type="text" value="N/A"/> )		Agreed with name: Paul Woolard	
See attached operational limitations schedule			
<p>This inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS7671:2018 (IET Wiring Regulations) as amended to July 2018</p> <p>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.</p>			
<b>E. Summary of the Condition of the Installation</b>		General condition of the installations (In terms of electrical safety)	
The installation is in fair overall condition however urgent remedial actions are required.			
Overall assessment of the installation	Unsatisfactory	*An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.	
<b>F. Recommendations</b>			
<p>Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency.</p> <p>Investigation without delay is recommended for observations identified as 'further investigation required' (code FI).</p> <p>Observation classified as 'Improvement recommended' (code C3) should be given due consideration.</p> <p>Subject to the necessary remedial action being taken I recommend that the installation is further inspected and tested by 26/10/2026</p>			
<b>G. Declaration</b>			
I, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by My signatures below), particulars of which are described above, having exercised reasonable skill and care 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 in section D of this report.			
Trading Title and address	Falcon Electrical Testing Ltd, Glenbervie Business Park, Larbert, Falkirk, FK5 4RB	NICEIC Enrolment Number	606561
		Branch No. (If Applicable)	N/A
<b>Inspected and tested by:</b>			
Name	Aaron Gammie	Position	Qualified Supervisor
Signature		Date	02/11/2021
<b>Report authorised for issue by:</b>			
Name	Aaron Gammie	Position	Qualified Supervisor
Signature		Date	02/11/2021
<b>H. Schedule(s)</b>		The attached schedule(s) are part of this document and this report is valid only when they are attached to it.	
5	Schedule(s) of inspection and	5	Schedule(s) of test results are attached

I. Supply Characteristics and Earthing Arrangements				Nature of Supply Parameters		Supply protective device	
Earthing Arrangements	Number and Type of Live Conductors						
TN-S <input checked="" type="checkbox"/>	a.c. <input checked="" type="checkbox"/>			d.c. N/A	Nominal Voltage $U^{(1)}$ 400 V	BS(EN) SEALED UNIT	
TN-C-S N/A	1-Phase (2 wire) N/A	1-Phase (3 wire) N/A	2 Wire N/A	Nominal Voltage $U_0^{(1)}$ 230 V			
TN-C N/A	2-Phase (3 wire) N/A			3 Wire N/A	Nominal frequency $f^{(1)}$ 50 Hz	Type SEALED UNIT	
TT N/A	3-Phase (3 wire) N/A	3-Phase (4 wire) <input checked="" type="checkbox"/>	Other N/A	Prospective fault current $I_{pf}^{(2)}$ 2.80 kA	Nominal current rating LIM A		
IT N/A	Other N/A			External loop impedance $Z_e^{(2)}$ 0.17 $\Omega$	Short circuit capacity N/A kA		
Confirmation of supply polarity <input checked="" type="checkbox"/>				Number of supplies 1			
(Note: (1) by enquiry, (2) by enquiry or by measurement)							

J. Particulars of Installation Referred to in the Report			
Means of earthing		Details of installation Earth Electrode (where applicable)	
Distributor's facility <input checked="" type="checkbox"/>	Type (e.g. rod(s), tape etc.) N/A	Location N/A	
Installation earth electrode N/A	Resistance to Earth N/A $\Omega$	Method of measurement N/A	

Main Protective Conductors				Tick boxes and enter details as applicable			
Earthing Conductor	Material Copper	csa 95	mm <sup>2</sup>	Continuity Verified <input checked="" type="checkbox"/>	Connection Verified <input checked="" type="checkbox"/>		
Main protective bonding conductors	Material Copper	csa 50	mm <sup>2</sup>	Continuity Verified <input checked="" type="checkbox"/>	Connection Verified <input checked="" type="checkbox"/>		
Bonding of Incoming Service				Maximum Demand (Load)			
Water installation pipes <input checked="" type="checkbox"/>	Gas installation pipes <input checked="" type="checkbox"/>	Structural Steel <input checked="" type="checkbox"/>	Lightning protection N/A	N/A Amps			
Oil installation pipes N/A	Please State			Protective measure(s) against electric shock ADS			
Other incoming service(s) N/A N/A							

Main Switch / Switch-Fuse / Circuit-Breaker / RCD							
Location Rear Plant Room				Current rating 400 A	if RCD main switch		
Type BS(EN) 60947-3				Fuse/Device rating or setting N/A A	Rated residual operation current, $I_{\Delta n}$ N/A mA		
No of poles 3				Voltage rating 400 V	Rated time delay N/A ms		
Supply Conductors material Copper				RCD Operating time at, $I_{\Delta n}$ N/A ms			
Supply Conductors csa 50 mm <sup>2</sup>							

K. Observations		
Referring to the attached schedule(s) of Inspection and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection and testing section.		
No remedial action is required. N/A The following observations are made <input checked="" type="checkbox"/>		
Item No	Observations	Code
1	4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) 4.9 Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	FI
2	4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) 4.11 Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)	C3
3	4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) 4.13 Presence of other required labelling (please --Observations continue on continuation sheet(s)--	C3
One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.		
C1 - Danger present. Rsk of injury. Immediate remedial action required	0	
C2 - Potentially dangerous - urgent remedial action required	3	
C3 - Improvement recommended	5	
FI - Further investigation required without delay	1	

**CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY**

2021109 - Master

Note: this form is suitable for many types of smaller installations, not exclusively domestic.

Outcomes	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
Item No	Description										Outcome	Comments		
<b>1.0</b>	<b>EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)</b>													
1.1	Service cable										✓	No		
1.2	Service head										✓	No		
1.3	Earthing arrangement										✓	No		
1.4	Meter tails										✓	No		
1.5	Metering equipment										✓	No		
1.6	Isolator (where present)										N/A	No		
<b>2.0</b>	<b>PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)</b>										N/A	No		
<b>3.0</b>	<b>EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)</b>													
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)										✓	No		
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)										N/A	No		
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)										✓	No		
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)										✓	No		
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)										✓	No		
3.6	Confirmation of main protective bonding conductor sizes (544.1)										✓	No		
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)										✓	No		
3.8	Accessibility and condition of other protective bonding connections (543.3.1;543.3.2)										✓	No		
<b>4.0</b>	<b>CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)</b>													
4.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)										✓	No		
4.2	Security of fixing (134.1.1)										✓	No		
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)										✓	No		
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)										✓	No		
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)										✓	No		
4.6	Presence of main linked switch (as required by 462.1.201)										✓	No		
4.7	Operation of main switch (functional check) (643.10)										✓	No		
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)										✓	No		
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)										FI (see section K)	Yes		
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)										✓	No		
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)										C3 (see section K)	Yes		
4.12	Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15)										N/A	No		
4.13	Presence of other required labelling (please specify) (Section 514)										C3 (see section K)	Yes		
4.14	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)										✓	No		
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)										✓	No		
4.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11)										✓	No		
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)										✓	No		
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)										N/A	No		
4.19	RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3;415.1)										✓	No		
4.20	Confirmation of indication that SPD is functional (651.4)										N/A	No		
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)										LIM	No		
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)										N/A	No		
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)										N/A	No		
<b>5.0</b>	<b>FINAL CIRCUITS</b>													
5.1	Identification of conductors (514.3.1)										✓	No		
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)										✓	No		
5.3	Condition of insulation of live parts (416.1)										✓	No		

**CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY CONTINUED**

2021 109 - Master

Note: this form is suitable for many types of smaller installations not exclusively domestic.

Outcomes	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
Item No	Description										Outcome	Comments		
<b>5.0</b>	<b>FINAL CIRCUITS (Continued)</b>													
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)										✓	No		
5.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)										✓	No		
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)										✓	No		
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)										✓	No		
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)										✓	No		
5.8	Presence and adequacy of circuit protective conductors (411.3.1; Section 543)										✓	No		
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)										✓	No		
5.10	Concealed cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.202)										LIM	No		
5.11	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section D. Extent and limitations) (522.6.204)										LIM	No		
5.12	Provision of additional requirements for protection by RCD not exceeding 30 mA:													
5.12.1	For all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)										C3 (see section K)	Yes		
5.12.2	For the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)										✓	No		
5.12.3	For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)										C3 (see section K)	Yes		
5.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)										C3 (see section K)	Yes		
5.12.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)										N/A	No		
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)										C2 (see section K)	Yes		
5.14	Band II cables segregated/separated from Band I cables (528.1)										N/V	No		
5.15	Cables segregated/separated from communications cabling (528.2)										N/V	No		
5.16	Cables segregated/separated from non-electrical services (528.3)										N/V	No		
5.17	Termination of cables at enclosures - indicate extent of sampling in Section D of the report (Section 526)													
5.17.1	Connections soundly made and under no undue strain (526.6)										✓	No		
5.17.2	No basic insulation of a conductor visible outside enclosure (526.8)										✓	No		
5.17.3	Connections of live conductors adequately enclosed (526.5)										✓	No		
5.17.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)										✓	No		
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))										C2 (see section K)	Yes		
5.19	Suitability of accessories for external influences (512.2)										C2 (see section K)	Yes		
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)										✓	No		
5.21	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)										✓	No		
<b>6.0</b>	<b>LOCATION(S) CONTAINING A BATH OR SHOWER</b>													
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)										N/A	No		
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)										N/A	No		
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)										N/A	No		
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)										N/A	No		
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)										N/A	No		
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)										N/A	No		
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)										N/A	No		
6.8	Suitability of current-using equipment for particular position within the location (701.55)										N/A	No		
<b>7.0</b>	<b>OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS</b>													
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)									Number of locations	0	No		

<b>Inspected By</b>	
Name: Aaron Gammie	Date: 02/11/2021
Signature: 	









Board Details	
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
Location of Distribution Board: <b>Rear Plant Room</b> Distribution board designation: <b>DB LL</b>	Supply to distribution board is from: <b>SubMains(DB Miniform (</b> No of phases: <b>3</b> Nominal Voltage: <b>400</b> V Overcurrent protective device for the distribution circuit Type BS(EN): <b></b> Rating: <b>N/A</b> A
	Associated RCD (if any) BS(EN): <b>N/A</b> RCD No of Poles: <b>N/A</b> RCD Rating: <b>N/A</b> mA

Circuit Details															
Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa			Overcurrent protective device					RCD	Maximum permitted Zs (Ω)	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max permitted disconnection times (s)	BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)			Operating current (kA)
1/L1	Lighting- Plant & Lift Room/fan	D/A	B	5	3X1.5	3X1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
1/L2	Lighting- Foyer Uplighters	D	B	6	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
1/L3	Lighting- Escape Stair	D	B	3	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
2/L1	Lighting- Stair	D	B	8	1.5	1.5	0.4	3871 MCB		3	10	6	N/A	1.74	
2/L2	Lighting- Main Door Downlights	D	B	8	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
2/L3	Lighting- Escape Stair	D	B	3	2X1.5	2X1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
3/L1	Lighting- Male Toilet & Bottom Stairs Ground Floor	D	B	11	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
3/L2	Lighting- Foyer Downlights	D	B	10	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	
4/L1	Lighting- Male & Female Toilet/ Landing 1st Floor	D	B	22	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
4/L2	Lighting- Male Toilet & 2nd Floor Landing	D	B	11	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
4/L3	Lighting- Female Toilets 2nd Floor	D	B	9	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
5/L1	Lighting- Water Storage Tank Room	D	B	2	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
5/L2	Lighting- Outside Main Door	D	B	4	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
5/L3	Lighting- Female Toilet Ground Floor	D	B	8	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
6/L1	Lighting- Basement RHS	D	B	12	2X1.5	2X1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
6/L2	Lighting- Basement LHS	D	B	14	2X1.5	2X1.5	0.4	3871 MCB		3	6	6	N/A	2.91	
6/L3	Lighting- Back Door	D	B	5	1.5	1.5	0.4	3871 MCB		3	16	6	N/A	1.08	
7/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	
7/L2	Heater- Lift Motor Room	D	B	1	2.5	1.5	0.4	3871 MCB		3	16	6	N/A	1.08	
7/L3	Hand Dryer- Male Toilet Ground Floor	D	B	1	2.5	1.5	0.4	3871 MCB		3	20	6	N/A	0.87	
8/L1	Hand Dryer- Female Toilet Ground Floor	D	B	1	2.5	1.5	0.4	3871 MCB		3	20	6	N/A	0.87	
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	
8/L3	Hand Dryer- Male Toilet Ground Floor	D	B	1	4	4	0.4	3871 MCB		3	20	6	N/A	0.87	

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

TO BE COMPLETED IN EVERY CASE		TEST INSTRUMENTS (SERIAL NUMBERS) USED	
Correct supply polarity confirmed <input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate) <input checked="" type="checkbox"/>	Earth fault loop impedance	101178170 RCD 101178170
Supplementary Conductors <input checked="" type="checkbox"/>		Insulation resistance	101178170 Multi-function N/A
ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION		Continuity	101178170 Other N/A
Zs 0.17 Ω	Ipf 2.80 kA		
Operating times of associated RCD (if any) At IΔn N/A ms			

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (✓)	Maximum measured earth fault loop impedance Ω	RCD			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ			Operating time at IΔn (ms)	Test button operation	AFDD Test button operation	
	r1 (Line)	rN (Neutral)	r2 (cpc)	(R1 + R2)	(R2)											
1/L1	N/A	N/A	N/A	0.20	N/A	250	N/A	LIM	>999	>999	✓	0.36	N/A	N/A		NO
1/L2	N/A	N/A	N/A	0.38	N/A	250	N/A	LIM	>999	>999	✓	0.56	N/A	N/A		NO
1/L3	N/A	N/A	N/A	0.75	N/A	250	N/A	LIM	>999	>999	✓	0.93	N/A	N/A		NO
2/L1	N/A	N/A	N/A	0.30	N/A	250	N/A	LIM	>999	>999	✓	0.48	N/A	N/A		NO
2/L2	N/A	N/A	N/A	0.40	N/A	250	N/A	LIM	>999	>999	✓	0.56	N/A	N/A		NO
2/L3	N/A	N/A	N/A	0.70	N/A	250	N/A	LIM	>999	>999	✓	0.87	N/A	N/A		NO
3/L1	N/A	N/A	N/A	0.20	N/A	250	N/A	LIM	>999	>999	✓	0.39	N/A	N/A		NO
3/L2	N/A	N/A	N/A	0.30	N/A	250	N/A	LIM	>999	>999	✓	0.52	N/A	N/A		NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	N/A	N/A	N/A	0.35	N/A	250	N/A	LIM	>999	>999	✓	0.54	N/A	N/A		NO
4/L2	N/A	N/A	N/A	0.30	N/A	250	N/A	LIM	>999	>999	✓	0.48	N/A	N/A		NO
4/L3	N/A	N/A	N/A	0.35	N/A	250	N/A	LIM	>999	>999	✓	0.56	N/A	N/A		NO
5/L1	N/A	N/A	N/A	0.40	N/A	250	N/A	LIM	>999	>999	✓	0.64	N/A	N/A		NO
5/L2	N/A	N/A	N/A	0.40	N/A	250	N/A	LIM	>999	>999	✓	0.57	N/A	N/A		NO
5/L3	N/A	N/A	N/A	0.32	N/A	250	N/A	LIM	>999	>999	✓	0.54	N/A	N/A		NO
6/L1	N/A	N/A	N/A	0.70	N/A	250	N/A	LIM	>999	>999	✓	0.71	N/A	N/A		NO
6/L2	N/A	N/A	N/A	0.58	N/A	250	N/A	LIM	>999	>999	✓	0.80	N/A	N/A		NO
6/L3	N/A	N/A	N/A	0.30	N/A	250	N/A	LIM	>999	>999	✓	0.47	N/A	N/A		NO
7/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	N/A	N/A	N/A	0.04	N/A	250	N/A	LIM	>999	>999	✓	0.22	N/A	N/A		NO
7/L3	N/A	N/A	N/A	0.10	N/A	250	N/A	LIM	>999	>999	✓	0.29	N/A	N/A		NO
8/L1	N/A	N/A	N/A	LIM	N/A	250	N/A	LIM	>999	>999		LIM	N/A	N/A		NO
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	N/A	N/A	N/A	0.12	N/A	250	N/A	LIM	>999	>999	✓	0.31	N/A	N/A		NO

Tested By

Signature		Position	Qualified Supervisor
Name	Aaron Gammie	Date of testing	28/10/2021

Board Details	
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
Location of Distribution Board <b>Rear Plant Room</b>	Supply to distribution board is from: <b>SubMains(DB Miniform (</b>
Distribution board designation <b>DB LL</b>	No of phases <b>3</b> Nominal Voltage <b>400</b> V
	Overcurrent protective device for the distribution circuit
	Type BS(EN) <b></b> Rating <b>N/A</b> A
	Associated RCD (if any)
	BS(EN) <b>N/A</b>
	RCD No of Poles <b>N/A</b>
	RCD Rating <b>N/A</b> mA

Circuit Details														
Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)		
9/L1	Hand Dryer- Female Toilet Ground Floor	D	B	1	2.5	2.5	0.4	3871 MCB		3	16	6	N/A	1.08
9/L2	Socket- Lift Motor Room	D	B	1	2.5	2.5	0.4	3871 MCB		3	16	6	N/A	1.08
9/L3	Hand Dryers- Male Toilet 1st Floor	D	B	2	2X4	2X4	0.4	3871 MCB		3	20	6	N/A	0.87
10/L1	Sockets- Foyer	D	B	3	2X4	2X4	0.4	3871 MCB		3	20	6	N/A	0.87
10/L2	Hand Dryers- Female Toilets 2nd Floor	D	B	1	2X4	2X4	0.4	3871 MCB		3	32	6	N/A	0.54
10/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	Socket- 2nd Floor Landing	D	B	1	4	4	0.4	3871 MCB		3	32	6	N/A	0.54
11/L2	Sockets- Stair 1st Floor	D	B	1	2X4	2X4	0.4	3871 MCB		3	32	6	N/A	0.54
11/L3	Hand Dryer Male Toilet 2nd Floor	D	B	1	4	4	0.4	3871 MCB		3	20	6	N/A	0.87
12/L1	Hand Dryer- Female Toilet 1st Floor	D	B	1	4	4	0.4	3871 MCB		3	20	6	N/A	0.87
12/L2	Hand Dryer- Disabled Toilet Ground Floor	D	B	1	2.5	2.5	0.4	3871 MCB		3	20	6	N/A	0.87
12/L3	Hand Dryer- Male Toilet 2nd Floor	D	B	1	4	4	0.4	3871 MCB		3	32	6	N/A	0.54
13/L1	Hand Drye- Female Toilet + Water Heater 1st Floor	D	B	2	4	4	0.4	3871 MCB		3	20	6	N/A	0.87
13/L2	110V Transformer Spur & OIutside Light- Plant Room	D	B	2	2.5	2.5	0.4	60898 MCB		B	20	6	N/A	1.75
13/L3	Circuit Not Located	D	B	LIM	1.5	1.5	0.4	3871 MCB		3	6	6	N/A	2.91
14/L1	Sockets- LHS Basement	D	B	1	2X2.5	2X2.5	0.4	3871 MCB		3	32	6	N/A	0.54
14/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L1	Sockets- RHS Basement	D	B	2	2X2.5	2X2.5	0.4	3871 MCB		3	20	6	N/A	0.87
15/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

TO BE COMPLETED IN EVERY CASE		TEST INSTRUMENTS (SERIAL NUMBERS) USED	
Correct supply polarity confirmed <input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate) <input checked="" type="checkbox"/>	Earth fault loop impedance	101178170 RCD 101178170
Supplementary Conductors <input checked="" type="checkbox"/>		Insulation resistance	101178170 Multi-function N/A
ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION		Continuity	101178170 Other N/A
Zs 0.17 Ω	Ipf 2.80 kA		
Operating times of associated RCD (if any) At IΔn N/A ms			

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (V)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ			Operating time at IΔn (ms)	Test button operation		
	r1 (Line)	rn (Neutral)	r2 (cpc)	(R1 + R2)	(R2)											
9/L1	N/A	N/A	N/A	0.17	N/A	250	N/A	LIM	>999	>999	✓	0.43	N/A	N/A		NO
9/L2	N/A	N/A	N/A	0.10	N/A	250	N/A	LIM	>999	>999	✓	0.26	N/A	N/A		NO
9/L3	N/A	N/A	N/A	0.15	N/A	250	N/A	LIM	>999	>999	✓	0.31	N/A	N/A		NO
10/L1	0.48	0.48	0.48	0.08	N/A	250	N/A	LIM	>999	>999	✓	0.28	N/A	N/A		NO
10/L2	N/A	N/A	N/A	0.14	N/A	250	N/A	LIM	>999	>999	✓	0.31	N/A	N/A		NO
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	N/A	N/A	N/A	0.12	N/A	250	N/A	LIM	>999	>999	✓	0.30	N/A	N/A		NO
11/L2	0.23	0.22	0.22	0.11	N/A	250	N/A	LIM	>999	>999	✓	0.29	N/A	N/A		NO
11/L3	N/A	N/A	N/A	0.20	N/A	250	N/A	LIM	>999	>999	✓	0.33	N/A	N/A		NO
12/L1	N/A	N/A	N/A	0.17	N/A	250	N/A	LIM	>999	>999	✓	0.31	N/A	N/A		NO
12/L2	N/A	N/A	N/A	0.25	N/A	250	N/A	LIM	>999	>999	✓	0.45	N/A	N/A		NO
12/L3	N/A	N/A	N/A	0.10	N/A	250	N/A	LIM	>999	>999	✓	0.31	N/A	N/A		NO
13/L1	N/A	N/A	N/A	0.08	N/A	250	N/A	LIM	>999	>999	✓	0.22	N/A	N/A		NO
13/L2	N/A	N/A	N/A	0.12	N/A	250	N/A	LIM	>999	>999	✓	0.30	N/A	N/A		NO
13/L3	N/A	N/A	N/A	LIM	N/A	250	N/A	LIM	>999	>999		LIM	N/A	N/A		NO
14/L1	0.69	0.67	0.69	0.29	N/A	250	N/A	LIM	>999	>999	✓	0.49	N/A	N/A		NO
14/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L1	0.55	0.54	0.52	0.25	N/A	250	N/A	LIM	>999	>999	✓	0.44	N/A	N/A		NO
15/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Qualified Supervisor
Name	Aaron Gammie	Date of testing	28/10/2021





Board Details

TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of Distribution Board	Ground Floor Suite 2	Supply to distribution board is from:	N/A		Associated RCD (if any)
Distribution board designation	DB GF1	No of phases	3	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit			BS(EN)
		Type BS(EN)	N/A	Rating	N/A A
				RCD No of Poles	N/A
				RCD Rating	N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)		
1/L1	Lighting- Office	D	B	7	1.5	1.5	0.4	60898 MCB		C	10	10	N/A	1.75
1/L2	Circuit Not Located	D	B	LIM	1.5	1.5	0.4	60898 MCB		C	10	10	N/A	1.75
1/L3	Lighting- Office	D	B	4	1.5	1.5	0.4	60898 MCB		C	10	10	N/A	1.75
2/L1	Lighting- Kitchen	D	B	1	1.5	1.5	0.4	60898 MCB		C	10	10	N/A	1.75
2/L2	Spur Above DB (Unknown)	D	B	1/LIM	1.5	1.5	0.4	60898 MCB		C	10	10	N/A	1.75
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	Water Heater- Kitchen	D/A	B	1	2.5	1.5	0.4	60898 MCB		C	16	10	N/A	1.09
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	Sockets- Floorbox	D	B	12LIM	2x4	2x4	0.5	61009 RCD/RCBO		C	32	10	30	
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L1	Lighting- Office	D	B	4	1.5	1	0.5	60898 MCB		C	10	10	N/A	
7/L2	Lighting- Office	D	B	8	1.5	1	0.5	60898 MCB		C	10	10	N/A	
7/L3	Lighting- Office	D	B	6	1.5	1	0.5	60898 MCB		C	10	10	N/A	
8/L1	Spur Above DB (Unknown)	D	B	1/LIM	2.5	2.5	0.5	60898 MCB		C	10	10	N/A	
8/L2	Sockets- Floorbox	D	B	2/LIM	2x4	2x4	0.5	61009 RCD/RCBO		C	32	10	30	
8/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	Sockets- Floorbox	D	B	1/LIM	2x4	2x4	0.5	61009 RCD/RCBO		C	32	10	30	
9/L3	Sockets- Floorbox	D	B	1/LIM	2x4	2x4	0.5	61009 RCD/RCBO		C	32	10	30	
10/L1	Sockets- Kitchen	D	B	3	2x4	2x4	0.5	61009 RCD/RCBO		C	32	10	30	

Wiring Code

A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

TO BE COMPLETED IN EVERY CASE		TEST INSTRUMENTS (SERIAL NUMBERS) USED	
Correct supply polarity confirmed <input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate) <input checked="" type="checkbox"/>	Earth fault loop impedance	101178170 RCD 101178170
Supplementary Conductors <input checked="" type="checkbox"/>		Insulation resistance	101178170 Multi-function N/A
ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION		Continuity	101178170 Other N/A
Zs 0.20 Ω Ipf 2.36 kA			
Operating times of associated RCD (if any) At IΔn N/A ms			

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (V)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ			Operating time at IΔn (ms)	Test button operation		
	r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	(R <sub>1</sub> + R <sub>2</sub> )	(R <sub>2</sub> )											
1/L1	N/A	N/A	N/A	0.38	N/A	250	N/A	LIM	>999	>999	✓	0.58	N/A	N/A		NO
1/L2	N/A	N/A	N/A	LIM	N/A	250	N/A	LIM	>999	>999		LIM	N/A	N/A		NO
1/L3	N/A	N/A	N/A	0.50	N/A	250	N/A	LIM	>999	>999	✓	0.66	N/A	N/A		NO
2/L1	N/A	N/A	N/A	0.55	N/A	250	N/A	LIM	>999	>999	✓	0.79	N/A	N/A		NO
2/L2	N/A	N/A	N/A	0.04	N/A	250	N/A	LIM	>999	>999	✓	0.25	N/A	N/A		NO
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	N/A	N/A	N/A	0.30	N/A	250	N/A	LIM	>999	>999	✓	0.48	N/A	N/A		NO
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	0.43	0.43	0.44	0.16	N/A	250	N/A	LIM	>999	>999	✓	0.37	11.3	✓		NO
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L1	N/A	N/A	N/A	0.50	N/A	250	N/A	LIM	>999	>999	✓	0.69	N/A	N/A		NO
7/L2	N/A	N/A	N/A	0.55	N/A	250	N/A	LIM	>999	>999	✓	0.77	N/A	N/A		NO
7/L3	N/A	N/A	N/A	0.55	N/A	250	N/A	LIM	>999	>999	✓	0.74	N/A	N/A		NO
8/L1	N/A	N/A	N/A	0.06	N/A	250	N/A	LIM	>999	>999	✓	0.27	N/A	N/A		NO
8/L2	0.39	0.40	0.40	0.14	N/A	250	N/A	LIM	>999	>999	✓	0.32	10.7	✓		NO
8/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	0.39	0.39	0.39	0.16	N/A	250	N/A	LIM	>999	>999	✓	0.31	14.6	✓		NO
9/L3	0.42	0.43	0.42	0.14	N/A	250	N/A	LIM	>999	>999	✓	0.27	29.4	✓		NO
10/L1	0.49	0.50	0.50	0.15	N/A	250	N/A	LIM	>999	>999	✓	0.31	10.4	✓		NO

Tested By

Signature		Position	Qualified Supervisor
Name	Aaron Gammie	Date of testing	26/10/2021





Extent of Electrical Installation covered by this report, Continued. from page 1

Including DBGF1

## Observations Continued from Page 2

Item No	Description	Code
	specify) (Section 514)	
4	5.0 FINAL CIRCUITS 5.12.1 For all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)	C3
5	5.0 FINAL CIRCUITS 5.12.3 For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	C3
6	5.0 FINAL CIRCUITS 5.12.4 For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	C3
7	5.0 FINAL CIRCUITS 5.13 Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	C2
8	5.0 FINAL CIRCUITS 5.18 Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))	C2
9	5.0 FINAL CIRCUITS 5.19 Suitability of accessories for external influences (512.2)	C2

## Code Key

C1 - Danger present. Risk of injury. Immediate remedial action required

C2 - Potentially dangerous - urgent remedial action required

C3 - Improvement recommended

FI - Further investigation required without delay

## CONDITION REPORT GUIDANCE FOR RECIPIENTS (to be appended to the Report)

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

1. The purpose of this Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Section K).
2. The person ordering the Report should have received the 'original' Report and the inspector should have retained a duplicate.
3. The 'original' Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner/occupier with details of the condition of the electrical installation at the time the Report was issued.
4. 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 six-monthly. **For safety reasons it is important that this instruction is followed.**
5. Section D (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
6. Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.
7. For items classified in Section K as C1 ('Danger present'), **the safety of those using the installation is at risk**, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.
8. For items classified in Section K as C2 ('Potentially dangerous'), **the safety of those using the installation may be at risk** and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
9. Where it has been stated in Section K that an observation requires further investigation (code FI) the inspection has revealed an apparent deficiency which may result in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).
10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations' and on a label at or near to the consumer unit/distribution board.