ELECTRICAL INSTALLATION CONDITION REPORT

80346 - Master

Allianz

A. Details of the Client/Person Ordering the Report

Client: Environment Agency - NV10020850

Address:
Anglian Region
Kingfisher House
Goldhay Way, Orton Goldham
Peterborough
PE2 5ZR

B. Reason for Producing this Report

Purpose of this report:
To provide detailed results of the in-service periodic inspection and test of the installation as prescribed in accordance with IS3 specfication.

Date(s) on which Inspection: and testing was carried out: 30/11/2021

C. Details of the Installation which is the Subject of this Report

Installation: Main Building & Canteen

Occupier: Environment Agency - NV10020850

Address:
Central Area Office
Bromholme Lane
Brampton
PE28 4NE

Description of premises:	Domestic	Commercial	Industrial
	N/A	N/A	✓

Other: N/A

Estimated age of wiring system: 23 yrs

Evidence of alterations or additions: ✓ If yes estimated Age >2 yrs

Record of Installation available: ✓ Records held By: Allianz Engeering Date of previous inspection: 11/11/2017

D. Extent and Limitations Inspection and Testing

Extent of Electrical Installation covered by this report:
For Extent comments;
--See Additional Page--

Agreed limitations including the reasons (See regulation 653.2)
For Agreed Limitations comments;
--See Additional Page--

Agreed with name: Gary - Facilties Manager

Operational Limitations including the reasons (See page No 44 to 45)
For Operational Limitations comments;
--See Additional Page--

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
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.

E. Summary of the Condition of the Installation

General condition of the installations (In terms of electrical safety)

For Summary of the Condition of the Installation comments;
--See Additional Page--

Overall assessment of the installation: Unsatisfactory

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

F. Recommendations

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, We recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency.
Investigation without delay is recommended for observations identified as *'further investigation required' (code FI)*.
Observation classified as 'Improvement recommended' (code C3) should be given due consideration.
Subject to the necessary remedial action being taken We recommend that the installation is further inspected and tested by 30/11/2024

G. Declaration

We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by Our 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:
Powertest Ltd,
Delta House,
Bridge Road,
Haywards Heath,
West Sussex, RH16 1UA

NICEIC Enrolment Number: 23384

Branch No. (If Applicable): N/A

Inspected and tested by:

Name: Steven Davis Position: Grade 1 Test Engineer Signature: Date: 30/11/2021

Report authorised for issue by:

Name: Steven Cope Position: Qualifying Supervisor Signature: Date: 20/12/2021

H. Schedule(s)

The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

15 Schedule(s) of inspection and 15 Schedule(s) of test results are attached

I. Supply Characteristics and Earthing Arrangements

Earthing Arrangements		Number and Type of Live Conductors						Nature of Supply Parameters			Supply protective device		
TN-S	N/A	a.c.	✓			d.c.	N/A	Nominal Voltage	$U^{(1)}$	400 V	BS(EN)	LIM	
TN-C-S	✓	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	N/A	
TT	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	✓	Other	N/A	Prospective fault current	Ipf(2)	12.13 kA	Nominal current rating	LIM	A
IT	N/A	Other	N/A					External loop impedance	Ze(2)	0.03 Ω	Short circuit capacity	N/A	kA
		Confirmation of supply polarity	✓					Number of supplies		2			
								(Note: (1) by enquiry, (2) by enquiry or by measurement)					

J. Particulars of Installation Referred to in the Report

Means of earthing

Distributor's facility	✓
Installation earth electrode	N/A

Details of installation Earth Electrode (where applicable)

Type (e.g. rod(s), tape etc.)	N/A	Location	N/A
Resistance to Earth	N/A Ω	Method of measurement	N/A

Main Protective Conductors

Tick boxes and enter details as applicable

	Material	csa	Continuity Verified	Connection Verified
Earthing Conductor	Copper	120 mm²	✓	✓
Main protective bonding conductors	Copper	16 mm²	✓	✓

Bonding of Incoming Service

Water installation pipes	✓	Gas installation pipes	✓	Structural Steel	N/A	Lightning protection	N/A
Oil installation pipes	N/A						

Other incoming service(s): N/A — Please State: N/A

Maximum Demand (Load): N/A **Amps**

Protective measure(s) against electric shock: ADS

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

Location	Main Switchroom Intake.	Current rating	400 A	**if RCD main switch**	
Type BS(EN)	60947-2 MCCB	No of poles	3	Fuse/Device rating or setting	400 A	Rated residual operation current, IΔn	N/A mA
Supply Conductors material	Copper	Supply Conductors csa	120 mm²	Voltage rating	400 V	Rated time delay	N/A ms
						RCD Operating time at, IΔn	N/A ms

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 ✓

Item No	Observations	Code
1	5.0 FINAL CIRCUITS 5.12.2 For the supply of mobile equipment not exceeding 32 A rating for use outdoors	C2
	(411.3.3), Comment: Absence of RCD protection for ALL socket outlets rated up to 32A which are likely to	
	supply equipment outside. (canteen DB 3L2)	
2	5.0 FINAL CIRCUITS 5.18 Condition of accessories including socket-outlets, switches and joint boxes	C2
	(651.2(v)), Comment: DB EV - Car Charge point isolator - showing signs of water ingress.	
	--Observations continue on continuation sheet(s)--	

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. Risk of injury. Immediate remedial action required	0
C2 - Potentially dangerous - urgent remedial action required	5
C3 - Improvement recommended	7
FI - Further investigation required without delay	0

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

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
1.0	**EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)**		
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
2.0	**PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)**	N/A	No
3.0	**EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)**		
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)	C2 (see section K)	Yes
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)	N/A	No
4.0	**CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)**		
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)	C2 (see section K)	Yes
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)	LIM	No
4.7	Operation of main switch (functional check) (643.10)	LIM	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)	✓	No
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)	C3 (see section K)	Yes
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)	✓	No
4.12	Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15)	✓	No
4.13	Presence of other required labelling (please specify) (Section 514)	N/A	No
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)	✓	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)	✓	No
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	✓	No
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	✓	No
5.0	**FINAL CIRCUITS**		
5.1	Identification of conductors (514.3.1)	C2 (see section K)	Yes
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

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
5.0	**FINAL CIRCUITS (Continued)**		
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)	C3 (see section K)	Yes
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)	C2 (see section K)	Yes
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)	LIM	No
5.14	Band II cables segregated/separated from Band I cables (528.1)	✓	No
5.15	Cables segregated/separated from communications cabling (528.2)	✓	No
5.16	Cables segregated/separated from non-electrical services (528.3)	✓	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)	✓	No
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
6.0	**LOCATION(S) CONTAINING A BATH OR SHOWER**		
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)	C3 (see section K)	Yes
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	✓	No
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	✓	No
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	✓	No
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)	✓	No
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	✓	No
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	✓	No
6.8	Suitability of current-using equipment for particular position within the location (701.55)	✓	No
7.0	**OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**		
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)	Number of locations: 4 (see continuation sheet)	Yes

Inspected By

Name: Steven Davis

Date: 30/11/2021

Signature:

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Main DB Switchroom

Distribution board designation: DB Main

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

Supply to distribution board is from: N/A

No of phases: N/A

Nominal Voltage: N/A V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A

Rating: N/A A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/TP	Sub Mains(DB 7 Fisheries shed,DB6)	F	D	2021	50	122	5	60947-2 MCCB			70	25	N/A	0.23
2/TP	Sub Mains(DB 1 New Cupboard)	F	D	2021	35	84	5	60947-2 MCCB			100	25	N/A	0.23
3/TP	Not Covered By This Report	\	\	\	\	\	\	\			\	\	\	\
4/TP	Not Covered By This Report	\	\	\	\	\	\	\			\	\	\	\
5/TP	Not Covered By This Report	\	\	\	\	\	\	\			\	\	\	\
6/TP	Sub Mains(DB 4)	F	C	2021	25	16	5	60947-2 MCCB			100	25	N/A	0.23
7/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	Sub Mains(DB 2A)	F	C	2021	6	36	5	60947-2 MCCB			30	25	N/A	0.73
16/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
17/L1	Sub Mains(DB 3B Server,DB 3A (UPS))	F	C	2021	25	76	5	60947-2 MCCB			63	25	N/A	0.44
17/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
17/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	Sub Mains(DB 1A)	F	D	2021	25	76	5	60947-2 MCCB			100	25	N/A	0.23

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs N/A Ω | Ipf N/A kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.15	N/A	N/A		NO
2/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.03	N/A	N/A		NO
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		NO
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		NO
5/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		NO
6/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.10	N/A	N/A		NO
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.09	N/A	N/A		NO
16/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.10	N/A	N/A		NO
17/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.10	N/A	N/A		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: New electric cupboard adj to Switchroom.

Distribution board designation: DB 1 New Cupboard

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

Supply to distribution board is from: SubMains(DB Main, 2/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB | Rating: 100 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	CCTV supply switchroom ceiling - As Marked	A	C		2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
1/L2	FCU female WC handrier	A	E	2021	2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
1/L3	2 No fans Switchroom - As Marked	A	B		1	1	0.4	60898 MCB		B	6	10	N/A	7.28
2/L1	Sockets room 36 1st floor	A	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
2/L2	FCU Male WC handrier	A	E	2021	2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
2/L3	AC Unit room 36 RHS - As Marked	A	C		6	2.5	0.4	60898 MCB		B	32	10	N/A	1.37
3/L1	Sockets room 36 1st flr	A	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
3/L2	FCU filling room - As Marked	A	B		2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
3/L3	AC Unit room 36 LHS - As Marked	A	E		6	2.5	0.4	60898 MCB		B	32	10	N/A	1.37
4/L1	Sockets room 36	A	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
4/L2	Lights Room 9, 13 - As Marked	A	B		2.5	1.5	0.4	60898 MCB		B	6	10	N/A	7.28
4/L3	Comms Room A/C 2 - As Marked	O	E		1.5	1.5	0.4	60898 MCB		C	20	10	N/A	1.09
5/L1	Sockets room 36 1st floor	A	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	Comms Room A/C 1 - As Marked	O	E		1.5	1.5	0.4	60898 MCB		C	20	10	N/A	1.09
6/L1	Ladies reception - As Marked	A	E		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	Switch room fan socket	A	B	2021	2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
7/L1	A/C Unit EXT	A	B		4	2.5	0.4	60898 MCB		B	32	10	N/A	1.37
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	Sub Mains(PV DB)	D	B		25	25	0.4	N/A		N/A	N/A	N/A	N/A	N/A
10/L1	Lights Room 36 north	A	E	2021	1.5	1	0.4	60898 MCB		C	10	10	N/A	2.19

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

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.03 Ω Ipf 9.34 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
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		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.87	N/A	N/A		NO
1/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		NO
2/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.45	32/30	✓		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.54	N/A	N/A		NO
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		NO
3/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.42	33/30	✓		NO
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		NO
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		NO
4/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	32/31	✓		NO
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		NO
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		NO
5/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.46	31/29	✓		NO
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		NO
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		NO
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.32	N/A	N/A		NO
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		NO
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/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		NO
10/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.85	N/A	N/A		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: New electric cupboard adj to Switchroom.

Distribution board designation: DB 1 New Cupboard

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

Supply to distribution board is from: SubMains(DB Main, 2/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
10/L2	Lights Room 23 25 & corr.	A	E	2021	1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
10/L3	Lights Corridor - As Marked	A	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
11/L1	Lights Room 10, 14 - As Marked	A	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
11/L2	Lights Room 20 - As Marked	A	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
11/L3	Lights Room 17, corr,	A	E	2021	1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
12/L1	Lights Room 18 - As Marked	A	E		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
12/L2	Lights filling Room	A	B	2021	1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
12/L3	Lights Room 20 - As Marked	A	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
13/L1	Switch room corridor lights - As Marked	A	E		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
13/L2	Lights Room 36 south	A	B	2021	1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
13/L3	Lights Room 37 - As Marked	A	B		1.5	1	0.4	60898 MCB		C	10	10	N/A	2.19
14/L1	Lights Room 26, 27 - As Marked	A	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
14/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L3	Lights Room 36 - As Marked	A	E		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
15/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L3	Lights Corridor - As Marked	A	B		1	1	0.4	60898 MCB		B	6	10	N/A	7.28
16/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	Sub Mains(DB 2 New Cupboard)	A	C		35	25	N/A	N/A		N/A	N/A	N/A	N/A	N/A

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.03 Ω Ipf 9.34 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	($R_1 + R_2$)	(R_2)											
10/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.74	N/A	N/A		NO
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		NO
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		NO
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		NO
11/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	1.24	N/A	N/A		NO
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		NO
12/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.46	N/A	N/A		NO
12/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		NO
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		NO
13/L2	N/A	N/A	N/A	N/A	N/A	250	N/A	N/A	299	N/A	✓	0.88	N/A	N/A		NO
13/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		NO
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		NO
14/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/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		NO
15/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/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		NO
16/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/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		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: New electric cupboard adj to Switchroom.

Distribution board designation: DB 2 New Cupboard

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

Supply to distribution board is from: SubMains(DB 1 New Cupboard,

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A N/A Rating: N/A A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Sockets room 4, 26, 27	A	B	2021	2x2.5	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
1/L2	Sockets room 20 / Fan FCU	A	B	2021	2x4	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
1/L3	Sockets room 6 Corridor	A	B	2021	2x4	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
2/L1	Sockets Corridor, room 26	A	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
2/L2	Ect room o/s sockets	A	B	2021	2x4	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Skts room 34	A	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
3/L2	Skts room 9, 10	A	B	2021	2x4	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
3/L3	Skts room 23, 25, post room reception	A	B	2021	2x4	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	Skts room 29 socket rear UPS.	A	B	2021	2.5	1.5	0.4	60898 MCB		C	16	10	N/A	1.37
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	Sockets Room 26	A	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
10/L2	Switchroom sockets	A	B	2021	2x2.5	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
10/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	Sockets Room 34	A	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
11/L2	Sockets Room 20	A	B	2021	2x4	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
11/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	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

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.05 Ω Ipf 9.89 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	400	N/A	N/A	299	N/A	✓	0.66	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.76	N/A	N/A		NO
1/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.58	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.77	39/29	✓		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	8.34	39/29	✓		NO
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	29/29	✓		NO
3/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.82	29/29	✓		NO
3/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.77	N/A	N/A		NO
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.58	N/A	N/A		NO
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.59	29/29	✓		NO
10/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.48	N/A	N/A		NO
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.55	29/29	✓		NO
11/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.72	39/29	✓		NO
11/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: New electric cupboard adj to Switchroom.

Distribution board designation: DB 2 New Cupboard

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

Supply to distribution board is from: SubMains(DB 1 New Cupboard,

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A N/A Rating: N/A A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
12/L2	Sockets facilities ECT Rooms.	A	B	2021	2x4	2x1.5	0.4	61009 RCD/RCBO		C	32	10	30	0.68
12/L3	Sockets facilities - reception	A	B	2021	2x4	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
13/L1	Sockets filing room, corridor	A	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
13/L2	Sockets Room 20	A	B	2021	2x4	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
13/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L1	Sockets filing corridor Radio room.	A	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
14/L2	Boiler House supply	A	B	2021	4	2.5	0.4	60898 MCB		B	20	10	N/A	2.19
14/L3	Shower - As Marked	A	B		16	16	0.4	61009 RCD/RCBO		B	32	10	30	1.37
15/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L3	Switchroom LED light. - As Marked	A	B		1	1	0.4	60898 MCB		B	6	10	N/A	7.28

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.05 Ω Ipf 9.89 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	($R_1 + R_2$)	(R_2)											
12/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.63	29/29	✓		NO
12/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	N/A	N/A		NO
13/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	39/29	✓		NO
13/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.69	N/A	N/A		NO
13/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.24	29/29	✓		NO
14/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	N/A	N/A		NO
14/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	29/29	✓		NO
15/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/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		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Flood Defence Corridor.

Distribution board designation: DB 4

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

Supply to distribution board is from: SubMains(DB Main, 6/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Flood risk sockets far wall	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
1/L2	Flood risk sockets far wall	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
1/L3	A/C 1 - As Marked	A	B		2.5	1.5	0.4	60898 MCB		C	16	10	N/A	1.37
2/L1	Corridor Sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
2/L2	Room 19 sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
2/L3	Loft Lights corridor - As Marked	A	C		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
3/L1	Room 47, 48, 49 lights - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
3/L2	Room 18, 19 lights - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
3/L3	Emergency Lights - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
4/L1	Flood risk sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
4/L2	A/C 2 - As Marked	A	B		2.5	1.5	0.4	60898 MCB		C	20	10	N/A	1.09
4/L3	Disabled W/C Alarm. - As Marked	A	B		1	1	0.4	3871 MCB		2	10	10	N/A	3.12
5/L1	Flood risk sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
5/L2	Flood risk sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
5/L3	Kitchen Corridor sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
6/L1	Flood risk lights rooms 44, 45 - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
6/L2	Flood risk lights rooms 42, 43 - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
6/L3	Kitchen toilet Lighting - As Marked	A	B		1	1	0.4	3871 MCB		2	10	10	N/A	3.12
7/L1	Room 47, 48, 49 sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
7/L2	Room 19 sockets	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
7/L3	Corridor Lights - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
8/L1	Room 49 sockets & BMS.	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
8/L2	Boilerhouse supply	A	B	2021	4	1.5	0.4	3871 MCB		2	32	10	N/A	0.97
8/L3	Outrside & Security lighting. - As Marked	A	B		1.5	1	0.4	60898 MCB		C	6	10	N/A	3.64

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

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.10 Ω Ipf 4.40 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.68	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.60	N/A	N/A		NO
1/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		NO
2/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.54	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.39	N/A	N/A		NO
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		NO
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		NO
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		NO
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		NO
4/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.75	N/A	N/A		NO
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		NO
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		NO
5/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.54	N/A	N/A		NO
5/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	N/A	N/A		NO
5/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.39	N/A	N/A		NO
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		NO
6/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		NO
6/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		NO
7/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.61	N/A	N/A		NO
7/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.49	N/A	N/A		NO
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		NO
8/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.63	N/A	N/A		NO
8/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.37	N/A	N/A		NO
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		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Switch room

Distribution board designation: DB 3A (UPS)

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

Supply to distribution board is from: SubMains(DB Main, 17/L1)

No of phases: 1 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 63 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	UPS Sockets in room 26b & 27	A	E	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
2/L1	Comms temp alarm - As Marked	A	E		2.5	1.5	0.4	3871 MCB		2	15	10	N/A	2.08
3/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	Internal Phone system Room 29	F	C	LIM	1.5	16	0.4	3871 MCB		2	10	10	30	3.12
5/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	Power supply in above box	D	B		1	1	0.4	3871 MCB		2	6	10	30	5.20
7/L1	Far New UPS Sockets room 25	A	E	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
8/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	Twin Sockets in room 29	A	E	2021	2.5	1.5	0.4	3871 MCB		2	10	10	30	3.12
10/L1	Room 27 UPS Socket	F	C	2021	2.5	2.5	0.4	60898 MCB		C	20	10	N/A	1.09
11/L1	Intruder Alarm - As Marked	A	E		2.5	1.5	0.4	3871 MCB		2	15	10	30	2.08
12/L1	Computer room red blue phase - As Marked	F	C		16	16	0.4	60898 MCB		D	63	10	N/A	0.17

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.10 Ω Ipf 1.98 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	($R_1 + R_2$)	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.71	N/A	N/A		NO
2/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		NO
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	LIM	N/A		NO
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		NO
7/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.35	N/A	N/A		NO
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.26	10/6	✓		NO
10/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.36	N/A	N/A		NO
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		NO
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		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Server Room

Distribution board designation: DB 3B Server

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

Supply to distribution board is from: SubMains(DB Main, 17/L1)

No of phases: 1 Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 63 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Server sockets under floor	D	B	LIM	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
2/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Server sockets under floor	D	B	LIM	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
4/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	Server sockets under floor	D	B	LIM	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
6/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L1	Server sockets under floor	D	B	LIM	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
8/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	Server sockets under floor	D	B	LIM	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
10/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	Server sockets under floor	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
14/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	Server sockets under floor	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
17/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
19/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
20/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
21/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
22/L1	Server sockets under floor	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
23/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
24/L1	Server sockets trunking	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.10 Ω Ipf 2.39 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	18/16	✓		NO
2/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	18/15	✓		NO
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	29/16	✓		NO
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L1	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	18/15	✓		NO
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	18/15	✓		NO
10/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	N/A	N/A	N/A	N/A	0.42	N/A	N/A	N/A	299	N/A	✓	0.50	18/13	✓		NO
14/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	N/A	N/A	N/A	N/A	0.20	N/A	N/A	N/A	299	N/A	✓	0.39	18/16	✓		NO
17/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/L1	N/A	N/A	N/A	N/A	0.19	N/A	N/A	N/A	299	N/A	✓	0.22	25/24	✓		NO
23/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/L1	N/A	N/A	N/A	N/A	0.53	N/A	N/A	N/A	299	N/A	✓	0.65	29/26	✓		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Server Room

Distribution board designation: DB 3B Server

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

Supply to distribution board is from: SubMains(DB Main, 17/L1)

No of phases: 1 Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 63 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
25/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
26/L1	Server sockets under floor	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	10	10	30	2.19
27/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
28/L1	Server sockets trunking	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
29/L1	Server sockets trunking	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
30/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
31/L1	Server sockets behind cabinet	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
32/L1	Server sockets behind cabinet	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
33/L1	Server sockets behind cabinet	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
34/L1	Server sockets behind cabinet	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
35/L1	Server sockets behind cabinet	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
36/L1	Server sockets behind cabinet	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.10 Ω Ipf 2.39 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	($R_1 + R_2$)	(R_2)											
25/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/L1	N/A	N/A	N/A	N/A	0.21	N/A	N/A	N/A	299	N/A	✓	0.29	34/18	✓		NO
27/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/L1	N/A	N/A	N/A	N/A	0.22	N/A	N/A	N/A	299	N/A	✓	0.26	32/24	✓		NO
29/L1	N/A	N/A	N/A	N/A	0.23	N/A	N/A	N/A	299	N/A	✓	0.29	27/26	✓		NO
30/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/L1	N/A	N/A	N/A	N/A	0.54	N/A	N/A	N/A	299	N/A	✓	0.61	36/10	✓		NO
32/L1	N/A	N/A	N/A	N/A	0.49	N/A	N/A	N/A	299	N/A	✓	0.66	36/10	✓		NO
33/L1	N/A	N/A	N/A	N/A	0.73	N/A	N/A	N/A	299	N/A	✓	0.97	36/10	✓		NO
34/L1	N/A	N/A	N/A	N/A	0.83	N/A	N/A	N/A	299	N/A	✓	0.96	36/10	✓		NO
35/L1	N/A	N/A	N/A	N/A	0.32	N/A	N/A	N/A	299	N/A	✓	0.45	29/29	✓		NO
36/L1	N/A	N/A	N/A	N/A	0.54	N/A	N/A	N/A	299	N/A	✓	0.62	36/10	✓		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Switch room

Distribution board designation: DB 3C (UPS)

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

Supply to distribution board is from: N/A

No of phases: 1 Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A Rating: N/A A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	CcTv - As Marked	O	C		2.5	2.5	0.4	60898 MCB		C	20	10	N/A	1.09
2/L1	Sub Mains(GATE DB)	F	D	2021	16	72	0.4	60898 MCB		B	20	10	N/A	2.19
3/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	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

Correct supply polarity confirmed: ✓

Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

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

Zs: 0.10 Ω Ipf: 2.30 kA

Operating times of associated RCD (if any) At I Δ n: N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
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		NO
2/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.80	N/A	N/A		NO
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Switch room

Distribution board designation: DB 1A

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

Supply to distribution board is from: SubMains(DB Main, 18/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	Sub Mains(DB Canteen)	F	C	2021	16	72	5	BS 5419			125	10	N/A	
5/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
8/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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.10 Ω Ipf 4.56 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.15	N/A	N/A		NO
5/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Switch room

Distribution board designation: DB 2A

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

Supply to distribution board is from: SubMains(DB Main, 16/L1)

No of phases: 1 Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 30 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Carpark Lighting	F	D	2021	2.5	1.5	0.4	60898 MCB		C	20	10	N/A	1.09
2/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Street lights	F	D	2021	1.5	1.5	0.4	60898 MCB		B	10	10	N/A	4.37
4/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	Contol circuit - As Marked	F	C		1.5	1.5	0.4	60898 MCB		C	16	10	N/A	1.37

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.09 Ω Ipf 2.56 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	250	N/A	N/A	299	N/A	✓	0.88	N/A	N/A		NO
2/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	N/A	N/A	N/A	N/A	N/A	250	N/A	N/A	299	N/A	✓	1.34	N/A	N/A		NO
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	01/12/2021

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: Canteen Boiler room.

Distribution board designation: DB Canteen

Supply to distribution board is from: SubMains(DB 1A, 4/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): BS 5419 Rating: 125 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Canteen Lights - As Marked	A	B		1.5	1	0.4	60898 MCB		C	10	10	N/A	2.19
1/L2	Canteen power	A	B	2021	x4	2x1.5	0.4	61009 RCD/RCBO		C	16	10	30	1.37
1/L3	Stoves, toilet lighting, boiler house - As Marked	A	B		1.5	1	0.4	3871 MCB		2	6	10	N/A	5.20
2/L1	Canteen Lights - As Marked	A	B		1.5	1	0.4	3871 MCB		2	10	10	N/A	3.12
2/L2	Boiler Supply	A	B	2021	1.5	1	0.4	3871 MCB		2	6	10	N/A	5.20
2/L3	Outside Lighting	A	B	2021	1.5	1	0.4	3871 MCB		2	6	10	N/A	5.20
3/L1	Emergency Lighting - As Marked	A	B		1.5	1	0.4	3871 MCB		2	6	10	N/A	5.20
3/L2	Socket In entrance	A	B	2021	4	1.5	0.4	60898 MCB		C	16	10	N/A	1.37
3/L3	Alarm - As Marked	A	B		2.5	1.5	0.4	3871 MCB		2	6	10	N/A	5.20
4/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	FCU Co2 detector - As Marked	A	B		2.5	1.5	0.4	60898 MCB		C	6	10	N/A	3.64
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	Sockets Ring seating area.	A	B	2021	2.5x2	1.5x2	0.4	3871 MCB		2	32	10	N/A	0.97

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.15 Ω Ipf 3.21 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	($R_1 + R_2$)	(R_2)											
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		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.44	N/A	N/A		NO
1/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		NO
2/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		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.39	N/A	N/A		NO
2/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	1.33	N/A	N/A		NO
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		NO
3/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.21	N/A	N/A		NO
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		NO
4/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	N/A	N/A		NO
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/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		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	30/11/2021

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: Fisheries shed

Distribution board designation: DB 7 Fisheries shed

Supply to distribution board is from: SubMains(DB Main, 1/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB | Rating: 70 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Upstairs Sockets	D	B	2021	2x2.5	135	0.4	60898 MCB		B	32	10	N/A	1.37
1/L2	Downstairs Sockets	D	B	2021	2x2.5	135	0.4	60898 MCB		B	32	10	N/A	1.37
1/L3	Upstairs heater - As Marked	D	B		4	135	0.4	60898 MCB		B	20	10	N/A	2.19
2/L1	Upstairs heater/CCTV - As Marked	A	B		2.5	1.5	0.4	60898 MCB		B	20	10	N/A	2.19
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Upstairs Lights	D	B	2021	1.5	135	0.4	60898 MCB		B	6	10	N/A	7.28
3/L2	Upstairs Smoke detector - As Marked	D	B		1.5	135	0.4	60898 MCB		B	6	10	N/A	7.28
3/L3	110V Transformer	B	B	2021	6	6	0.4	60898 MCB		B	32	10	N/A	1.37
4/L1	Roller Shutter fcu - As Marked	A	C		2.5	1.5	0.4	60898 MCB		B	20	10	N/A	2.19
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	Downstairs smoke detector - As Marked	D	B		1.5	135	0.4	60898 MCB		B	6	10	N/A	7.28
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	Corrosive toxic & downstairs lights	D	B	2021	1.5	135	0.4	60898 MCB		B	6	10	N/A	7.28
6/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.15 Ω Ipf 3.56 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.32	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	N/A	N/A		YES
1/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		NO
2/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		NO
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.41	N/A	N/A		NO
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		NO
3/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.30	N/A	N/A		NO
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		NO
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		NO
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.38	N/A	N/A		NO
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature [signature] Position Test Engineer

Name Richard Johns Date of testing 30/11/2021

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	Fisheries shed
Distribution board designation	DB6
Supply to distribution board is from:	SubMains(DB Main, 1/TP)
No of phases	3
Nominal Voltage	400 V
Overcurrent protective device for the distribution circuit	
Type BS(EN)	60947-2 MCCB
Rating	70 A
Associated RCD (if any)	
BS(EN)	N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Workshop Lighting	D	B	2021	1.5	1	0.4	3871 MCB		2	10	9	N/A	3.12
1/L2	Ground Flr Store Lighting	D	B	2021	1.5	1	0.4	3871 MCB		2	10	9	N/A	3.12
1/L3	Workshop, Mess & outside lights - As Marked	D	B		1.5	1	0.4	3871 MCB		2	10	9	N/A	3.12
2/L1	Outside Lights PIR - As Marked	D	B		1.5	1	0.4	3871 MCB		2	10	9	N/A	3.12
2/L2	Mezz Floor Lights - As Marked	D	B		1.5	1	0.4	3871 MCB		2	16	9	N/A	1.95
2/L3	Fie Store - Mezz Flr lights - As Marked	D	B		1.5	1	0.4	3871 MCB		2	16	9	N/A	1.95
3/L1	Not Marked For Duty	D	B		2.5	1	0.4	3871 MCB		2	16	9	N/A	1.95
3/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	Sub Mains(DB EV)	D	B	2021	6	6	0.4	60898 MCB		C	40	10	N/A	0.55
5/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	Ground Floor Store Sockets	D	B	2021	2x2.5	2x2.5	0.4	3871 MCB		2	32	9	N/A	0.97
5/L3	Sockets Stores 1 & 2	D	B	2021	2x2.5	2x2.5	0.4	60898 MCB		B	32	6	N/A	1.37
6/L1	Water Quality external 16A skt	D	B	2021	6	6	0.4	60898 MCB		B	32	6	30	1.37
6/L2	Air compressor - As Marked	G	C		2.5	2.5	0.4	3871 MCB		2	16	9	N/A	1.95
6/L3	Outside PIR light	D	B	2021	2.5	2.5	0.4	3871 MCB		2	10	9	N/A	3.12
7/L1	Workshop Lights - As Marked	D	B		1.5	1	0.4	3871 MCB		2	10	9	N/A	3.12
7/L2	Workshop Fridge Store Lights - As Marked	D	B		1.5	1	0.4	3871 MCB		2	10	9	N/A	3.12
7/L3	Drying Room Heater - As Marked	D	B		2.5	2.5	0.4	3871 MCB		2	16	9	N/A	1.95
8/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	Recycle Store Extractor - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	10	9	N/A	3.12
8/L3	Fridge Store Heater- As Marked	D	B		2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
9/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	Car Charger	G	C	2021	16	16	0.4	60898 MCB		C	50	10	30	1667

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

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.15 Ω Ipf 4.8 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.51	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.42	N/A	N/A		NO
1/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		NO
2/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		NO
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		NO
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		NO
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		NO
3/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.11	N/A	N/A		NO
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.55	N/A	N/A		YES
5/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.39	N/A	N/A		YES
6/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.32	30/8	✓		NO
6/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		NO
6/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.49	N/A	N/A		NO
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		NO
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		NO
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		NO
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		NO
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		NO
9/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	150	26/7	✓		YES

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries shed

Distribution board designation: DB6

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

Supply to distribution board is from: SubMains(DB Main, 1/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 70 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
11/L1	Workshop Sockets by DB	D	B	2021	2x2.5	2x2.5	0.4	3871 MCB		2	32	9	N/A	0.97
11/L2	1st Floor File Store sockets	D	B	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	9	N/A	0.97
11/L3	Heating Contactor - As Marked	D	B		6	6	0.4	3871 MCB		2	32	9	N/A	0.97
12/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.15 Ω lpf 4.8 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
11/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.43	N/A	N/A		YES
11/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.38	N/A	N/A		YES
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		NO
12/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

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	A
Distribution board designation	GATE DB
Supply to distribution board is from:	SubMains(DB 3C (UPS), 2/L1)
No of phases	1
Nominal Voltage	230 V
Overcurrent protective device for the distribution circuit	
Type BS(EN)	60898 MCB B
Rating	20 A
Associated RCD (if any)	
BS(EN)	N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Supply to gate - As Marked	G	D		2.5	2.5	0.4	60898 MCB		C	10	10	N/A	2.19
2/L1	Socket Adj to DB	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
3/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	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

Correct supply polarity confirmed: ✓ | Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

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

Zs 0.80 Ω | Ipf 0.30 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
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		NO
2/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.86	29/15	✓		NO
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Shed

Distribution board designation: DB EV

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

Supply to distribution board is from: SubMains(DB6, 4/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60898 MCB C Rating: 40 A

Associated RCD (if any)

BS(EN): N/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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Car Charging Point 1	G	D	2021	6	6	0.4	60898 MCB		C	32	10	30	0.68
1/L2	Car Charging Point 1	G	D	2021	6	6	0.4	60898 MCB		C	32	10	30	0.68
1/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
2/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

Correct supply polarity confirmed: ✓

Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

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

Zs: 0.11 Ω Ipf: 4.30 kA

Operating times of associated RCD (if any) At I Δ n: N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.20	18/19	✓		YES
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.20	18/18	✓		YES
1/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	30/11/2021

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: New electric cupboard adj to Switchroom. Above

Distribution board designation: PV DB

Supply to distribution board is from: SubMains(DB 1 New Cupboard,

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A N/A Rating: N/A A

Associated RCD (if any)

BS(EN): 61008 RCD

RCD No of Poles: 3

RCD Rating: 100 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 mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/TP	PV invertor1 - As Marked	G	D		16	16	5	60898 MCB		C	40	10	30	0.55
2/TP	PV Invertor 2 - As Marked	G	D		16	16	5	60898 MCB		C	40	10	30	0.55
3/L1	Socket Below for Metering	D	B	2021	2.5	2.5	0.4	60898 MCB		B	16	10	100	2.73
3/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/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

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

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

Zs 0.04 Ω Ipf 7.34 kA

Operating times of associated RCD (if any) At I Δ n 22 ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

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			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/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		NO
2/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		NO
3/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.10	N/A	N/A		NO
3/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	01/12/2021

Additional Supply No 1

Supply Characteristics and Earthing Arrangements

System Type(s)

TN-S	N/A
TN-C-S	✓
TN-C	N/A
TT	N/A
IT	N/A

Number and Type of Live Conductors

		a.c.	✓	d.c.	✖
1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	2 Pole	N/A
2-Phase (3 wire)	N/A			3 Pole	N/A
3-Phase (3 wire)	N/A	3-Phase (4 wire)	✓	Other	N/A
Other	N/A				

Type of supply: Generator

Nature of Supply Parameters

Nominal Voltage	U	400 V	Uo	230 V
Nominal frequency	f	50 Hz		
Prospective fault current	Ipf	N/A kA		
External loop impedence	Ze	N/A Ω		

Supply protective device characteristics

BS(EN): LIM

Type: N/A

Nominal current rating	LIM	A
Short circuit Capacity	N/A	kA
Confirmation of Polarity	N/A	

Particulars of Installation Referred to in the Certificate

Means of Earthing

Distributor's facility	✓
Installation earth electrode	N/A

Details of Installation Earth Electrode (where applicable)

Type (eg rod(s), tape etc)	N/A	Location	N/A
Electrode resistance, R_A	N/A Ω	Method of measurement	N/A

Main Switch or Circuit-Breaker

Type BS(EN)	60947-2
Voltage Rating	400 V
No. of poles	3
Current Rating	400 A
Supply Conductors material	Copper
Supply Conductors CSA	120 mm^2
RCD operating current, IΔn	N/A mA
RCD operating time at, IΔn	N/A ms

Maximum Demand (load)

N/A Amps

Protective measure(s) against electric shock

ADS

Earthing and Protective Bonding Conductors

Earthing Conductor

material:	Copper
csa:	120 mm^2
Continuity verified	✓
Connection verified	✓

Main protective bonding conductors

material:	Copper
csa	16 mm^2
Continuity verified	✓
Connection verified	✓

Bonding of extraneous conductors

Water installation pipes	✓	Gas installation pipes	✓	Lightning protection	N/A
Oil installlation pipes	N/A	Structural steel	N/A		
Other incomming service	N/A	N/A		Please state	

Comments on Existing Installation

Where appropriate comments on the existing installation are to be found on page(s)

None

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

To provide detailed results of the areas detailed as Main Building & Canteen & fisheriers Shed) (equating to an approximate 1/3 of the whole installation) supplemented by a risk based approach to final circuit testing.
Inspection & Testing undertaken in accordance with IET Guidance Note 3
With the exception of those circuits whose designation have been confirmed (as detailed with the inclusion of tests), it should be observed that all other circuit details are 'as marked' and may not be relied upon for their accuracy.
The test result sheet columns entitled ‘Number of points served’ specifies the year of test of that circuit.

Agreed limitations including the reasons, Continued. from page 1

Powertest Ltd were not responsible for the design or installations of the electrical system covered by this report and are therefore not responsible for any of these aspects of work over which they have no control.

Cables concealed within trunking and conduits or cables and conduits concealed under floors in roof spaces and generally within the fabric of the building or underground have not been inspected.

The inspection and testing of installed machinery is limited to: -

a. An external visual inspection for electrical safety excluding all control and operational functions.
b. Earth continuity test to all exposed conductive parts.

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.
e. High level parts of the fixed installation and other parts of the installation not normally accessible without specialised equipment.
f. Examination of machinery.
g. H.V. Power Systems i.e. in excess of 1000 volts ac.
h. Fire detection and alarm systems.
i. Data/telecommunication systems.

The installation may have been completed to IET Wiring Regulations that predate the current edition. In this case recommendations may be made with regard to current safety standards.

Operational Limitations including the reasons, Continued. from page 1

1 - No access to the circuit protective device at origin of supply.
2 - Unable to disconnect main Earthing conductor to perform Ze as client does not want whole site loss of power at the time of testing. Zs Recorded with all parallel earths connected.
3 - Unable to perform Line to Earth Insulation tests across voltage sensitive circuits or circuits that were

unable to be de-energised during the inspection.
4 - Unable to operate main Switch For Function test - Please See Operational Limitation 2.
5 - Unable to inspect accessories located behind large Furniture or Stored materials
6 - DB6 circuits 11L2 & 12L2 are unable to be de-energised at the clients request due to powering comms/servers supplies.
7- DB3A Circuit circuit 4 unable to isolate internal phone system due to clients requirement.
-8 DB3B Server - unable to access sockets mounted under the flooring.

General condition of the installations (In terms of electrical safety), Continued. from page 1

Due to the presence of C2 defects the installation is deemed to be in an Unsatisfactory condition until these are rectified because they are judged to have the potential to impair the safety of the installation. Please see section K Observations for full details paying due consideration towards the improvement of the advisory C3 defects also.
You are reminded of your obligations under Regulation 4 of the Electricity at Work Regulations (EaWR) that specifies the requirement for electrical installation ‘Maintenance’
Approximately 53 % percentage of circuits have been tested for disconnection in the event of a fault has been re-validated

Observations Continued from Page 2

Item No	Description	Code
3	3.0 EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54) 3.6 Confirmation of main protective bonding conductor sizes (544.1), Comment: Main Protective bonding conductor connection to incoing extraneous conductive parts appears under sized when referenced against table 54.8. All outbuildings fed from a TN-CS earthing arrangement require to be sized via reg 541.1.3.3	C2
4	5.0 FINAL CIRCUITS 5.1 Identification of conductors (514.3.1), Comment: DB3A - Circuit 2 - 4 core SWA cable has been used to supply the gate DB - the black core has 48v present to earth at the Gate DB. the core has been placed inside a choc block inside DB3A and not terminated to earth.	C2
5	4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) 4.3 Condition of enclosure(s) in terms of IP rating etc. (416.2), Comment: DB4 does not conform to IP4X requirement for the top of Distribution Equipment.	C2
6	5.0 FINAL CIRCUITS 5.4.1 To include the integrity of conduit and trunking systems (metallic and plastic), Comment: DB EP switchroom - Metal Trunking has multiple 20mm hole present.	C3
7	DB 2 New Cupboard_ 2/L2_ Ect room o/s sockets_ Excessive Earth Loop Impedance	C3
8	4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) 4.10 Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2), Comment: Absence of RCD test/warning notice at or near equipment where required	C3
9	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), Comment: Absence of RCD protection for all socket-outlets with a rated current not exceeding 32A	C3
10	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), Comment: Absence of RCD protection for all cables installed at a depth of less than 50mm from a surface of a wall or partition where the cables do not incorporate an earthed metallic covering, are not enclosed in earthed metalwork, or are not mechanically protected against nails and the like.	C3
11	5.0 FINAL CIRCUITS 5.12.4 For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203), Comment: Absence of RCD protection for all cables concealed in walls / partitions containing metal parts regardless of depth.	C3
12	6.0 LOCATION(S) CONTAINING A BATH OR SHOWER 6.1 Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3), Comment: Absence of RCD protection for all circuits within location containing a bath or shower.	C3

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

Page 3/4 Special Location Details

SECTION 712 SOLAR PHOTOVOLTAIC (PV) POWER SUPPLY SYSTEMS - BS7671 Section 712 was consulted and the relevant areas of the installation subject to the test and inspection within the scope of this report were checked for compliance with the associated Regulations.

SECTION 722 ELECTRIC VEHICLE CHARG NG INSTALLATIONS -BS7671 Section 722 was consulted and the relevant areas of the installation subject to the test and inspection within the scope of this report were checked for compliance with the associated Regulations.

OUTDOOR LIGHTING INSTALLATIONS BS7671 Section 714 was consulted and the relevant areas of the installation subject to the test and inspection within the scope of this report were checked for compliance with the associated Regulations

.

DB 7 Fisheries shed, 1/L2, Downstairs Sockets - Remarks
RCD SKT 1 - Operating Time of Associated RCD S/O 1 x @30mA -9 ms and 5 x @150mA –9 ms Operation of test Button function pass
RCD SKT 2 - Operating Time of Associated RCD S/O 1 x @30mA - 29ms and 5 x @150mA –18 ms Operation of test Button function Pass
RCD SKT 3 - Operating Time of Associated RCD S/O 1 x @30mA - 18ms and 5 x @150mA – 18ms Operation of test Button function Pass
RCD SKT 4 - Operating Time of Associated RCD S/O 1 x @30mA - 29ms and 5 x @150mA – 18ms Operation of test Button function Pass
DB6, 5/L2, Ground Floor Store Sockets - Remarks
RCD SKT 1 - Operating Time of Associated RCD S/O 1 x @30mA -18 ms and 5 x @150mA – 18ms Operation of test Button function Pass
DB6, 5/L3, Sockets Stores 1 & 2 - Remarks
RCD SKT 1 - Operating Time of Associated RCD S/O 1 x @30mA -29 ms and 5 x @150mA –9 ms
RCD SKT 2 - Operating Time of Associated RCD S/O 1 x @30mA -28 ms and 5 x @150mA –9 ms
RCD SKT 3 - Operating Time of Associated RCD S/O 1 x @30mA - 28ms and 5 x @150mA –8 ms
RCD SKT 4 - Operating Time of Associated RCD S/O 1 x @30mA - 29ms and 5 x @150mA –8 ms
RCD SKT 5 - Operating Time of Associated RCD S/O 1 x @30mA -28 ms and 5 x @150mA – 28ms
DB6, 10/TP, Car Charger - Remarks
This Circuit has been converted to TT earthing arrangement at point of the Car Charger.
DB6, 11/L1, Workshop Sockets by DB - Remarks
RCD SKT 1 - Operating Time of Associated RCD S/O 1 x @30mA -28 ms and 5 x @150mA –28 ms Operation of test Button function Pass
RCD SKT 2 - Operating Time of Associated RCD S/O 1 x @30mA - 39ms and 5 x @150mA – 19ms Operation of test Button function Pass
RCD SKT 3 - Operating Time of Associated RCD S/O 1 x @30mA - 38ms and 5 x @150mA – 18ms Operation of test Button function Pass
RCD SKT 4 - Operating Time of Associated RCD S/O 1 x @30mA - 18ms and 5 x @150mA – 18ms Operation of test Button function Pass
RCD SKT 5 - Operating Time of Associated RCD S/O 1 x @30mA -37 ms and 5 x @150mA –19 ms Operation of test Button function Pass
RCD SKT 6 - Operating Time of Associated RCD S/O 1 x @30mA - 37ms and 5 x @150mA –19 ms Operation of test Button function Pass
DB6, 11/L2, 1st Floor File Store sockets - Remarks
RCD SKT 1 - Operating Time of Associated RCD S/O 1 x @30mA -18 ms and 5 x @150mA –8 ms Operation of test Button function Pass
RCD SKT 2 - Operating Time of Associated RCD S/O 1 x @30mA - 9ms and 5 x @150mA –9 ms Operation of test Button function Pass
RCD SKT 3 - Operating Time of Associated RCD S/O 1 x @30mA -18 ms and 5 x @150mA – 18ms Operation of test Button function Pass
RCD SKT 4 - Operating Time of Associated RCD S/O 1 x @30mA - 18ms and 5 x @150mA – 18ms Operation of test Button function Pass
DB EV, 1/L1, Car Charging Point 1 - Remarks
Open PEN fault detection device in place
DB EV, 1/L2, Car Charging Point 1 - Remarks

Open PEN fault detection device in place

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.