

Certificate Reference:

**1 DETAILS OF THE CLIENT**

Client: Mr M Claydon  
 Address: Dove lodge, Beach road,, Littlehampton, West sussex, BN17 5JG

**2 PURPOSE OF THE REPORT**

The Report must be used only for reporting on the condition of an existing installation.

Purpose for which this report is required: Periodic inspection

**3 DETAILS OF THE INSTALLATION**

Installation Address:

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

Estimated age of electrical installation: 30 years Evidence of alteration or additions: Yes if yes, estimated age: 5 years

Date of previous inspection: 22/07/2014

Records of installation available: Yes Electrical Installation Certificate No or previous Periodic Inspection Report No: DOVE120609/132

Records held by: Dove

**4 EXTENT OF THE INSTALLATION AND LIMITATIONS OF THE INSPECTION AND TESTING**

Extent of the electrical installation covered by this report: 80%

Agreed limitations, if any, on the inspection and testing:  
 LN-E insulation test because of sensitive equipment,

This inspection has been carried out in accordance with BS 7671: 2008 (IEE Wiring Regulations), as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected.

**5 DECLARATION**

I/We being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above (see section 3), having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (see section 6) and the attached schedules (see section 9), provides an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and the limitations of the inspection and testing (see section 4).

I/We further declare that in my/our judgement, the said installation was overall in a satisfactory condition (see section 7) at the time the inspection was carried out, and that it should be further inspected as recommended (see section 9).

For the INSPECTION, TESTING AND ASSESSMENT of the report:

Name: Robert Kilhams Position: Electrician Signature:  Date: 27/06/2014

Report reviewed and confirmed by:

Name: Robert Kilhams Position: Electrician Signature:  Date: 27/06/2014

## 6 OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached Schedule(s) of Inspections and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection section:

N/A There are no items adversely affecting electrical safety or

The following observations and recommendations are made

Item No	Description	Code
1	No Rcd protection on socket outlets from DB Amerbley Room 1&2	4
2	No Rcd protection on socket outlets from DB 1 Enterance	4
3	Exposed metal parts in DB Amberley 1	4
4	Labelling required on some DBs	4
5	Busbar cover missing on DB30	
6		

One of the following numbers, as appropriate, is to be allocated to each of the observations made above to indicate to the person(s) responsible for the installation the action recommended.

1 'requires urgent attention' or

2 'requires improvement' or

3 'requires further investigation' or

4 'does not comply with BS 7671:2008 (as amended)'

This does not imply that the electrical installation inspected is unsafe

Urgent remedial work recommended for items:

N/A

Corrective action(s) recommended for items:

1, 2, 3, 4

## 7 SUMMARY OF THE INSPECTION

General condition of the installation:

Overall Satisfactory

Date(s) of the inspection: 24/06/2014

Overall assessment of the installation: Satisfactory

## 8 SCHEDULES AND ADDITIONAL PAGES

Schedule of Items Inspected and Schedules of Items Tested: Page No 4

Schedule of Circuit Details for the Installation: Page No(s)

5

Schedule of Test Results for the Installation: Page No(s)

6

Additional pages, including additional source(s) date sheets: Page No(s)

N/A

The pages identified here form an essential part of this report. The report is valid only if accompanied by all the schedules and additional pages identified above.

## 9 NEXT INSPECTION

I/We recommend that this inspection is further inspected and tested after an interval of not more than:

5 Years

(Enter interval in terms of years, months or weeks, as appropriate)

provided that any items in section 6 which have been attributed a Recommendation Code 1 (requires urgent attention) and Code 2 (requires improvement) are remedied without delay and as soon as possible respectively. Items which have been attributed a Recommendation Code 3 should be actioned as soon as practicable.

## 10 DETAILS OF THE ELECTRICAL CONTRACTOR

Trading Title: OWEN ELECTRICAL LTD

Address:

106 THE STREET  
RUSTINGTON  
WEST SUSSEX

Registration Number:

Napit 4972

Telephone Number:

01903 786262

Postcode: BN16 3NJ

## 11 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System Type(s)		Number and Type of Live Conductors				Nature of Supply Parameters			Characteristics of Primary Supply Overcurrent Protective Device(s)		
TN-S	N/A	ac:	<input checked="" type="checkbox"/>	dc:	N/A	Nominal voltage(s): U:	400 V	Uo:	230 V	BS(EN):	1361 Fuse HBC
TN-C-S	<input checked="" type="checkbox"/>	1-phase (2 wire):	N/A	1-phase (3 wire):	N/A	Nominal frequency, f:	50 Hz	Prospective fault current, Ipf:	1.1 kA		
TNC	N/A	2-phase (3 wire):	N/A	3-phase (4 wire):	<input checked="" type="checkbox"/>	Other:	N/A	External earth fault loop impedance, Ze:	0.17 $\Omega$	Rated current:	100 A
TT	N/A	3-phase (3 wire):	N/A	Other:	N/A	Number of supplies:	1	Short-circuit capacity:	33 kA		
IT	N/A	Other:									

## 12 PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of Earthing		Details of Installation Earth Electrode (where applicable)							
Distributor's facility:	<input checked="" type="checkbox"/>	Type:	N/A		Location:	N/A			
Installation earth electrode:	N/A	Electrode resistance, RA:	N/A $\Omega$		Method of measurement:	N/A			
Maximum Demand (Load):	100 Amps	Protective measure(s) against electric shock:	ADS						
Type BS(EN):	5419 Isolator	Main Switch or Circuit-Breaker		Earthing and Protective Bonding Conductors					
Number of poles:	3	Voltage rating:	400 V	Conductor material:	Copper	Conductor csa:	16 mm <sup>2</sup>	Continuity check:	<input checked="" type="checkbox"/>
Supply conductors material:	Copper	Rated current, In:	100 A	Main protective bonding conductors	Copper	Conductor csa:	16 mm <sup>2</sup>	Continuity check:	<input checked="" type="checkbox"/>
Supply conductors csa:	25 mm <sup>2</sup>	RCD operating current:	N/A mA	Bonding of extraneous-conductive parts					
		RCD operating time:	N/A ms	Water service:	<input checked="" type="checkbox"/>	Oil service:	N/A	Lightning protection:	N/A
				Gas service:	N/A	Structural Steel:	<input checked="" type="checkbox"/>	Other services:	N/A

### 13 SCHEDULE OF ITEMS INSPECTED

Methods of protection against electric shock

Basic and fault protection:

(i) SELV  N/A (ii) PELV

Double or reinforced insulation:

(iii) Double or Reinforced Insulation

Basic protection:

(i) Insulation of live parts  (ii) Barriers or enclosures

N/A (iii) Obstacles \*\*  N/A (iv) Placing out of reach \*\*

Fault protection:

(i) Automatic disconnection of supply

- Presence of earthing conductor
- Presence of circuit protective conductors
- Presence of main protective bonding conductors
- Presence of earthing arrangements for combined protective and functional purposes
- Presence of adequate arrangements for alternative source(s), where applicable
- N/A FELV
- N/A Choice and setting of protective and monitoring devices (for fault protection and/or overcurrent protection)

(ii) Non-conducting location \*\*

N/A Absence of protective conductors

(iii) Earth-free local equipotential bonding \*\*

N/A Presence of earth-free local equipotential bonding

(iv) Electrical Separation

- Provided for 'one item' of current-using equipment
- N/A Provided for 'more than one item' of current-using equipment \*\*

Additional protection:

- Presence of residual current device(s)
- LIM Presence of supplementary bonding conductors

\*\* For use in controlled supervised/conditions only

Prevention of mutual detrimental influence

- (a) Proximity of non-electrical services and other influences
- (b) Segregation of Band I and Band II circuits or use of Band II insulation
- (c) Segregation of safety circuits

Identification

- Presence of diagrams, instructions, circuit charts and similar information
- X Presence of danger notices and other warning notices
- Labelling of protective devices, switches and terminals
- Identification of conductors

Cables and Conductors

- Selection of conductors for current carrying capacity and voltage drop
- Erection methods
- LIM Routing of cables in prescribed zones or within mechanical protection
- Cables incorporating earthed armour or sheath, or run within an earthed wiring system, or otherwise adequately protected against nails, screws and the like
- Additional protection provided by 30mA RCD for cables in concealed walls (where required in premises not under the supervision of skilled or instructed persons)

- Connection of conductors

- Presence of fire barriers, suitable seals and protection against thermal effects

General

- Presence and correct location of appropriate devices for isolation and switching
- Adequacy of access to switchgear and other equipment
- N/A Particular protective measures for special installations and locations
- Connection of single-pole devices for protection or switching in line conductors only
- Correct connection of accessories and equipment
- N/A Presence of undervoltage protective devices
- Selection of equipment and protective measures appropriate to external influences
- Selection of appropriate functional switching devices

### 14 SCHEDULE OF ITEMS TESTED

- External earth fault loop impedance,  $Z_e$
- N/A Installation earth electrode resistance,  $R_A$
- Continuity of protective conductors
- Continuity of ring final circuit conductors
- N/A Insulation resistance between live conductors
- Insulation resistance between live conductors and earth
- Protection by separation of circuits

- Protection against direct contact by barrier or enclosure provided during erection
- N/A Insulation of non-conducting floors or walls
- Polarity
- Earth fault loop impedance,  $Z_s$
- Verification of phase sequence
- Operation of residual current device(s)
- Functional testing of assemblies
- Verification of voltage drop

All boxes must be completed. 'tick' indicates that an inspection or test was carried out and that the result was satisfactory. 'X' indicates that an inspection or test was carried out and the result is not satisfactory. 'N/A' indicates that an inspection or test was not applicable to the particular installation. 'LIM' indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection or test being carried out.

## CIRCUIT DETAILS

Distribution board designation:

D.B. 1

Location: Cupboard understairs (Ground Floor)

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 $\Omega$
1L1	Boiler room	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
1L2	Double socket in room 3 [right hand side]	A	C	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
1L3	Spare	N/A	B	N/A	N/A	N/A	0.4	60898	N/A	N/A	N/A	N/A	N/A
2L1	Sub main lift motor room	F	C	1	6	6	5	60898	C	40	10	N/A	0.57
2L2	Sub main lift motor room	F	C	1	6	6	5	60898	C	40	10	N/A	0.57
2L3	Sub main lift motor room	F	C	1	6	6	5	60898	C	40	10	N/A	0.57
3L1	Sub main DB30	A	B	1	10	4	5	60898	C	63	10	N/A	0.36
3L2	DB Entrance 1	A	B	1	10	4	5	60898	C	63	10	N/A	0.36
3L3	Sub main lift motor room	A	B	1	10	Armour	5	60898	B	40	10	N/A	1.15
4L1	Electric cupboard light and emergency light in cupboard	A	C	2	1.5	1.0	0.4	60898	B	6	6	N/A	7.67
4L2	Sub main TSBD1 and 2nd floor	A	B	2	16	Armour	5	60898	B	63	6	N/A	0.73
4L3	CCTV supply	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
5L1	Sub main DB20	A	B	1	10	4	5	60898	C	40	10	N/A	0.57
5L2	Sub main CDB2	A	B	1	10	6	5	60898	B	63	10	N/A	0.73
5L3	Spare	A	N/A	N/A	N/A	N/A	N/A	60898	B	N/A	N/A	N/A	N/A
6L1	Fire alarm panel	A	B	1	2.5	1.5	5	60898	B	16	6	N/A	2.87
6L2	Sub main CDB1	A	B	1	10	6	5	60898	B	63	6	N/A	0.73
6L3	Sub main Amberley room	F	B	1	10	6	5	60898	B	63	6	N/A	0.73

Type of Wiring O-Other:

N/A

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:

N/A

No of phases:

N/A

Overcurrent protective device for the distribution circuit:

BS(EN):

N/A

Rating:

N/A A

Nominal Voltage:

N/A V

RCD

BS(EN):

N/A

No of poles:

N/A

Rating:

N/A mA

Confirmation of supply polarity

N/A

Zs:

 N/A  $\Omega$ 

Ipf:

N/A kA

RCD operating times

At In:

N/A ms

At 5In:

N/A ms

## TEST RESULTS

Distribution board designation:

D.B. 1

Location:

Cupboard downstairs (Ground Floor)

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1L1	N/A	N/A	N/A	0.06	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
1L2	N/A	N/A	N/A	0.01	N/A	N/A	> 200	> 200	> 200	✓	0.16	N/A	N/A
1L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2L1	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
2L2	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
2L3	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
3L1	N/A	N/A	N/A	0.08	N/A	N/A	> 200	> 200	> 200	✓	0.23	N/A	N/A
3L2	N/A	N/A	N/A	0.17	N/A	N/A	> 200	> 200	> 200	✓	0.33	N/A	N/A
3L3	N/A	N/A	N/A	0.09	N/A	N/A	> 200	> 200	> 200	✓	0.24	N/A	N/A
4L1	N/A	N/A	N/A	0.05	N/A	N/A	> 200	> 200	> 200	✓	0.20	N/A	N/A
4L2	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
4L3	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
5L1	N/A	N/A	N/A	0.05	N/A	N/A	> 200	> 200	> 200	✓	0.15	N/A	N/A
5L2	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
5L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
6L1	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
6L2	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
6L3	N/A	N/A	N/A	0.07	N/A	N/A	> 200	> 200	> 200	✓	0.16	N/A	N/A

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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## CIRCUIT DETAILS

Distribution board designation:

**D.B. 20**

Location:

**Mikes office**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live	cpc	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
					mm <sup>2</sup>	mm <sup>2</sup>							
1	Sockets in office 24hr supply	A	B	4	2.5	1.5	0.4	61009	B	16	6	30	2.87
2	Sockets office	A	B	5	2.5	1.5	0.4	61009	C	16	N/A	30	1.44
3	Lights office	A	B	1	1.5	1.0	0.4	61009	B	6	6	N/A	7.67
4	Telephone system supply	A	C	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

 Type of Wiring O-Other: N/A

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	DB1	No of phases:	1
Overcurrent protective device for the distribution circuit:	BS(EN): 60898 MCB - Type B	Rating:	40 A
RCD	BS(EN): N/A	No of poles:	N/A
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs:	0.15 Ω
	Ipf:	1.2 kA	RCD operating times
	At In:	n/a ms	At 5In: n/a ms
	Nominal Voltage:	230 V	
	Rating:	N/A mA	

## TEST RESULTS

Distribution board designation:

D.B. 20

Location:

Mikes office

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.16	N/A	N/A	> 200	> 200	> 200	✓	0.26	28.6	18.4
2	N/A	N/A	N/A	0.28	N/A	N/A	> 200	> 200	> 200	✓	0.43	30.2	13.9
3	N/A	N/A	N/A	0.27	N/A	N/A	> 200	> 200	> 200	✓	0.42	N/A	N/A
4	N/A	N/A	N/A	0.16	N/A	N/A	> 200	> 200	> 200	✓	0.30	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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## CIRCUIT DETAILS

Distribution board designation:

**D.BR10**

Location:

**Room 10 ground floor**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
1	Sockets office east side	A	B	5	2.5	1.5	0.4	61009	C	16	6	30	1.44
2	Sockets office west side	A	B	5	2.5	1.5	0.4	61009	C	16	6	30	1.44
3	Sockets office 24hr supply	A	B	3	2.5	1.5	0.4	61009	C	16	6	30	1.44
4	Lights office	A	B	2	1.5	1.0	0.4	60898	B	6	6	N/A	7.67

 Type of Wiring O-Other: N/A

## BOARD CHARACTERISTICS

**APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION**

Supply to this distribution board is from:		CDB2	No of phases:	1
Overcurrent protective device for the distribution circuit:	BS(EN):	60898 MCB - Type B	Rating:	40 A
RCD	BS(EN):	N/A	No of poles:	N/A
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs:	0.08 Ω	Ip: <span style="border: 1px solid black; padding: 2px;">1.3 kA</span>
		RCD operating times	At In:	n/a ms
			At 5In:	n/a ms
		Nominal Voltage:	230 V	
		Rating:	N/A mA	

# TEST RESULTS

Distribution board designation:

D.BR10

Location:

Room 10 ground floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.48	23.3	13.3
2	N/A	N/A	N/A	0.18	N/A	N/A	> 200	> 200	> 200	✓	0.39	31.3	10.3
3	N/A	N/A	N/A	0.27	N/A	N/A	> 200	> 200	> 200	✓	0.49	37.9	28.2
4	N/A	N/A	N/A	0.30	N/A	N/A	> 200	> 200	> 200	✓	0.55	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name:	Robert Kilhams	Position:	Electrician	Signature:		Date:	24/06/2014
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## TEST RESULTS

Distribution board designation:

**D.B. 11**

Location:

**Room 11 ground floor**

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs <small>Ω</small>	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.23	N/A	N/A	> 200	> 200	> 200	✓	0.32	N/A	N/A
2	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.29	N/A	N/A
3	N/A	N/A	N/A	0.21	N/A	N/A	> 200	> 200	> 200	✓	0.30	N/A	N/A
4	N/A	N/A	N/A	0.29	N/A	N/A	> 200	> 200	> 200	✓	0.38	N/A	N/A

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):			
Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name: <b>Robert Kilhams</b>	Position: <b>Electrician</b>	Signature: _____	Date: <b>24/06/2014</b>
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## TEST RESULTS

Distribution board designation:

CDB1

Location:

Hallway ground floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.05	N/A	N/A	> 200	> 200	> 200	✓	0.08	N/A	N/A
2	N/A	N/A	N/A	0.92	N/A	N/A	> 200	> 200	> 200	✓	1.10	N/A	N/A
3	N/A	N/A	N/A	0.85	N/A	N/A	> 200	> 200	> 200	✓	1.03	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
8	N/A	N/A	N/A	0.25	N/A	N/A	> 200	> 200	> 200	✓	0.38	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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# CIRCUIT DETAILS

Distribution board designation: CDB2 Location: Hallway ground floor

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live	cpc	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
					mm <sup>2</sup>	mm <sup>2</sup>							
1	Men toilets, Fire escape, Hallway and Emergency lighting	A	B	13	1.5	1.0	0.4	3871	2	5	10	N/A	6.51
2	Unknown	A	B	0	1.5	1.0	0.4	3871	2	5	10	N/A	6.51
3	Oak office socket	A	B	1	2.5	1.5	0.4	60898	B	15	6	N/A	3.07
4	Unknown	A	B	0	N/A	N/A	0.4	60898	B	15	6	N/A	3.07
5	Hallway socket/Mens toilet flush	A	B	2	2.5	1.5	0.4	60898	B	15	6	N/A	3.07
6	Unknown	A	B	0	N/A	N/A	0.4	60898	B	15	6	N/A	3.07
7	Unknown	A	B	0	N/A	N/A	0.4	60898	B	6	6	N/A	7.67
8	Unknown	A	B	0	N/A	N/A	0.4	60898	B	6	6	N/A	7.67
9	Socket by fuseboard	A	B	1	2.5	1.5	0.4	60898	B	20	6	N/A	2.30
10	Unknown	A	B	1	N/A	N/A	0.4	60898	B	20	6	N/A	2.30
11	Unknown	A	B	1	N/A	N/A	0.4	60898	B	6	6	N/A	7.67

Type of Wiring O-Other: N/A

## BOARD CHARACTERISTICS

**APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION**

Supply to this distribution board is from:	DB1	No of phases:	1	
Overcurrent protective device for the distribution circuit:	BS(EN): 60898 MCB - Type B	Rating:	63 A	Nominal Voltage: 230 V
RCD	BS(EN): N/A	No of poles:	N/A	Rating: N/A mA
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs: 0.17 Ω	lpf: 1.6 kA	RCD operating times
			At In: n/a ms	At 5In: n/a ms

## TEST RESULTS

Distribution board designation:

CDB2

Location:

Hallway ground floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.53	N/A	N/A	> 200	> 200	> 200	✓	0.69	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
3	N/A	N/A	N/A	0.11	N/A	N/A	> 200	> 200	> 200	✓	0.27	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
5	N/A	N/A	N/A	0.07	N/A	N/A	> 200	> 200	> 200	✓	0.23	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
9	N/A	N/A	N/A	0.03	N/A	N/A	> 200	> 200	> 200	✓	0.20	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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## CIRCUIT DETAILS

Distribution board designation:

**D.B.21**

Location:

**Impact 1st floor**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Z <sub>s</sub> Ω permitted by BS7671
1	Sockets 24hr	A	B	1	2.5	1.5	0.4	61009	B	16	6	30	2.87
2	Sockets	A	B	6	2.5	1.5	0.4	61009	B	16	6	30	2.87
3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Type of Wiring O-Other:

**N/A**

## BOARD CHARACTERISTICS

**APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION**

Supply to this distribution board is from:

**DB30**

No of phases:

**1**

 Overcurrent protective device  
for the distribution circuit:

BS(EN):

**60898 MCB - Type C**

Rating:

**32 A**

 Nominal  
Voltage:

**230 V**

RCD

BS(EN):

**N/A**

No of poles:

**N/A**

Rating:

**N/A mA**

Confirmation of supply polarity


 Z<sub>s</sub>:

**0.25 Ω**

 I<sub>pf</sub>:

**2.2 kA**

 RCD operating  
times

At In:

**n/a ms**

At 5In:

**n/a ms**

**TEST RESULTS**

Distribution board designation:

D.B.21

Location:

Impact 1st floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line  MΩ	Line/Neutral  MΩ	Line/Earth  MΩ	Neutral/Earth  MΩ			At In  ms	At 5 In  ms
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2								
1	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.45	38	16
2	N/A	N/A	N/A	0.28	N/A	N/A	> 200	> 200	> 200	✓	0.48	38	16
3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**DETAILS OF TEST INSTRUMENTS**

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

**TESTED BY**

Name: Robert Kilhams    Position: Electrician    Signature: \_\_\_\_\_    Date: 24/06/2014

## CIRCUIT DETAILS

Distribution board designation:

**D.B.30**

Location:

**1st floor hallway**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 $\Omega$
1	Impact east DB	A	C	1	10	4	5	60898	B	32	6	N/A	1.44
2	DB16	A	C	1	10	4	5	60898	B	40	6	N/A	1.15
3	DB 17	A	C	1	10	4	5	60898	B	45	6	N/A	1.02
4	DB 21	A	C	1	10	4	5	60898	B	32	6	N/A	1.44
5	DB 18	A	C	1	10	4	5	60898	B	32	6	N/A	1.44
6	DB 19	A	C	1	10	4	5	60898	B	32	6	N/A	1.44
7	Spare	N/A	N/A	N/A	N/A	N/A	N/A	60898	N/A	N/A	N/A	N/A	N/A
8	Spare	N/A	N/A	N/A	N/A	N/A	N/A	60898	N/A	N/A	N/A	N/A	N/A
9	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12													

 Type of Wiring O-Other: N/A

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION  
 Supply to this distribution board is from: **DB1** No of phases: **1**  
 Overcurrent protective device for the distribution circuit: BS(EN): **60898 MCB - Type B** Rating: **63 A** Nominal Voltage: **230 V**  
 RCD BS(EN): **N/A** No of poles: **N/A** Rating: **N/A mA**  
 Confirmation of supply polarity  Zs: **0.23  $\Omega$**  Ipf: **2.3 kA** RCD operating times At In: **n/a ms** At 5In: **n/a ms**

## TEST RESULTS

Distribution board designation:

**D.B.30**

Location:

**1st floor hallway**

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ				
1	N/A	N/A	N/A	0.04	N/A	N/A	> 200	> 200	> 200	✓	0.27	N/A	N/A
2	N/A	N/A	N/A	0.04	N/A	N/A	> 200	> 200	> 200	✓	0.27	N/A	N/A
3	N/A	N/A	N/A	0.05	N/A	N/A	> 200	> 200	> 200	✓	0.29	N/A	N/A
4	N/A	N/A	N/A	0.03	N/A	N/A	> 200	> 200	> 200	✓	0.27	N/A	N/A
5	N/A	N/A	N/A	0.06	N/A	N/A	> 200	> 200	> 200	✓	0.30	N/A	N/A
6	N/A	N/A	N/A	0.06	N/A	N/A	> 200	> 200	> 200	✓	0.029	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12													

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name: <b>Robert Kilhams</b>	Position: <b>Electrician</b>	Signature: _____	Date: <b>24/06/2014</b>
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### CIRCUIT DETAILS

Distribution board designation:

D.B.16

Location:

Grace eyre 1st floor

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
2	Sockets west	A	B	2	2.5	1.5	0.4	61009	B	16	6	30	2.87
3	Sockets east	A	B	3	2.5	1.5	0.4	61009	B	16	6	30	2.87

Type of Wiring O-Other: N/A

### BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from: DB30 No of phases: 1

Overcurrent protective device for the distribution circuit: BS(EN): 60898 MCB - Type B Rating: 40 A Nominal Voltage: 230 V

RCD BS(EN): N/A No of poles: N/A Rating: N/A mA

Confirmation of supply polarity  Zs: 0.27 Ω Ipf: 2.23 kA RCD operating times At In: n/a ms At 5In: n/a ms

**TEST RESULTS**

Distribution board designation:

D.B.16

Location:

Grace eyre 1st floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.09	N/A	N/A	> 200	> 200	> 200	✓	0.33	28	15
2	N/A	N/A	N/A	0.17	N/A	N/A	> 200	> 200	> 200	✓	0.41	26	15
3	N/A	N/A	N/A	0.19	N/A	N/A	> 200	> 200	> 200	✓	0.43	36	9

**DETAILS OF TEST INSTRUMENTS**

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	0.	Earth electrode resistance:	4109932
Insulation resistance:	4109932	Earth fault loop impedance:	4109932
Continuity:	4109932	RCD:	4109932

**TESTED BY**

Name: Robert Kilhams      Position: Electrician      Signature: \_\_\_\_\_      Date: 24/06/2014

## CIRCUIT DETAILS

Distribution board designation:

**D.B. 17**

Location:

**Headway 1st floor**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Z <sub>s</sub> permitted by BS7671 Ω
1	Sockets 24hr	A	B	1	2.5	1.5	0.4	61009	B	16	6	30	2.87
2	Sockets east	A	B	3	2.5	1.5	0.4	61009	C	20	6	30	1.15
3	Sockets west	A	B	2	2.5	1.5	0.4	61009	C	20	6	30	1.15

Type of Wiring O-Other:

**N/A**

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:		<b>DB30</b>		No of phases:		<b>1</b>									
Overcurrent protective device for the distribution circuit:		BS(EN):	<b>60898 MCB - Type B</b>		Rating:	<b>45 A</b>		Nominal Voltage:	<b>230 V</b>						
RCD		BS(EN):	<b>N/A</b>		No of poles:	<b>N/A</b>		Rating:	<b>N/A mA</b>						
Confirmation of supply polarity		<input checked="" type="checkbox"/>	Zs:	<b>0.29 Ω</b>		lpf:	<b>2.3 kA</b>		RCD operating times	At In:	<b>n/a ms</b>		At 5In:	<b>n/a ms</b>	

## TEST RESULTS

Distribution board designation:

D.B. 17

Location:

Headway 1st floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.05	N/A	N/A	> 200	> 200	> 200	✓	0.34	38	19
2	N/A	N/A	N/A	0.14	N/A	N/A	> 200	> 200	> 200	✓	0.44	28	18
3	N/A	N/A	N/A	0.12	N/A	N/A	> 200	> 200	> 200	✓	0.41	38	19

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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**CIRCUIT DETAILS**

Distribution board designation:

D.B. 22

Location:

Careers support 2nd floor

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Z <sub>s</sub> Ω permitted by BS7671
1	Sockets	A	B	6	2.5	1.5	0.4	61009	B	20	6	30	2.30
2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4													

Type of Wiring O-Other: N/A

**BOARD CHARACTERISTICS**

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	TSBD1	No of phases:	1
Overcurrent protective device for the distribution circuit:	BS(EN): 60898 MCB - Type B	Rating:	32 A
RCD	BS(EN): N/A	No of poles:	N/A
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Z <sub>s</sub> : 0.20 Ω	Ip <sub>f</sub> : 2.2 kA
		RCD operating times	At In: n/a ms
			At 5In: n/a ms
			Nominal Voltage: 230 V
			Rating: N/A mA

## TEST RESULTS

Distribution board designation:

D.B. 22

Location:

Careers support 2nd floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line MΩ	Line/Neutral MΩ	Line/Earth MΩ	Neutral/Earth MΩ			At In ms	At 5 In ms
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2								
1	N/A	N/A	N/A	0.23	N/A	N/A	> 200	> 200	> 200	✓	0.42	38	9
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4													

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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**CIRCUIT DETAILS**

Distribution board designation:

**D.B. 15**

Location:

**2nd floor office**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs Ω permitted by BS7671
1	Sockets south	A	B	2	2.5	1.5	0.4	61009	B	16	6	30	2.87
2	Sockets north	A	B	3	2.5	1.5	0.4	61009	B	16	6	30	2.87
3	24hr socket	A	B	1	2.5	1.5	0.4	61009	B	16	6	30	2.87
4	Office lights	A	B	4	1.5	1.0	0.4	60898	B	16	10	N/A	2.87

Type of Wiring O-Other: **N/A**

**BOARD CHARACTERISTICS**

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	<b>TSDB1</b>	No of phases:	<b>1</b>						
Overcurrent protective device for the distribution circuit:	BS(EN): <b>60898 MCB - Type B</b>	Rating:	<b>40 A</b>	Nominal Voltage:	<b>230 V</b>				
RCD	BS(EN): <b>N/A</b>	No of poles:	<b>N/A</b>	Rating:	<b>N/A mA</b>				
Confirmation of supply polarity	<input checked="checked" type="checkbox"/>	Zs:	<b>0.23 Ω</b>	lpf:	<b>kA</b>	RCD operating times At In:	<b>ms</b>	At 5In:	<b>ms</b>

## TEST RESULTS

Distribution board designation:

D.B. 15

Location:

2nd floor office

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.23	N/A	N/A	> 200	> 200	> 200	✓	0.46	32	8
2	N/A	N/A	N/A	0.27	N/A	N/A	> 200	> 200	> 200	✓	0.40	32	8
3	N/A	N/A	N/A	0.13	N/A	N/A	> 200	> 200	> 200	✓	0.36	32	8
4	N/A	N/A	N/A	0.39	N/A	N/A	> 200	> 200	> 200	✓	0.72	N/A	N/A

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name:	Robert Kilhams	Position:	Electrician	Signature:	Date:	24/06/2014
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## CIRCUIT DETAILS

Distribution board designation: D.B. 14 Location: WSPCF 2nd floor

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Z <sub>s</sub> Ω permitted by BS7671
1	Sockets 24hr	A	B	2	2.5	1.5	0.4	61009	B	16	6	30	2.87
2	Sockets north	A	B	4	2.5	1.5	0.4	61009	B	16	6	30	2.87
3	Sockets south	A	B	3	2.5	1.5	0.4	61009	B	16	6	30	2.87
4	Lights	A	B	4	1.5	1.0	0.4	60898	B	6	10	N/A	7.67

Type of Wiring O-Other: N/A

## BOARD CHARACTERISTICS

<b>APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION</b>			
Supply to this distribution board is from:	TSDB1	No of phases:	1
Overcurrent protective device for the distribution circuit:	BS(EN): 60898 MCB - Type B	Rating:	32 A
RCD	BS(EN): N/A	No of poles:	N/A
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Z <sub>s</sub> : 0.20 Ω	At 5In: n/a ms
	lpf: 2.2 kA	RCD operating times	At In: n/a ms

## TEST RESULTS

Distribution board designation:

D.B. 14

Location:

WSPCF 2nd floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Z <sub>s</sub> Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	r <sub>n</sub> (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.26	N/A	N/A	> 200	> 200	> 200	✓	0.46	45	20
2	N/A	N/A	N/A	0.29	N/A	N/A	> 200	> 200	> 200	✓	0.49	45	20
3	N/A	N/A	N/A	0.25	N/A	N/A	> 200	> 200	> 200	✓	0.45	45	20
4	N/A	N/A	N/A	0.40	N/A	N/A	> 200	> 200	> 200	✓	0.60	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name:	Robert Kilhams	Position:	Electrician	Signature:		Date:	24/06/2014
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## CIRCUIT DETAILS

Distribution board designation:

TSDB1

Location:

2nd floor by tea station

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Max disconnect time permitted by BS7671 s	Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	BS(EN)		Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs Ω permitted by BS7671	
1	Sockets hallway 1st and 2nd floor	A	B	2	2.5	1.5	0.4	60898	B	32	6	N/A	1.44	
2	Tea station sockets and socket by fuseboard	A	B	3	2.5	1.5	0.4	60898	B	32	6	N/A	1.44	
3	2nd floor office DB15	A	B	1	6	2.5	0.4	60898	B	40	6	N/A	1.15	
4	Tea station, care support, hallway, 2nd floor office,	A	B	7	1.5	1.0	0.4	60898	B	6	6	N/A	7.67	
5	Jubilee room, Gina Watson, entrance/hallway, waiting room, front office lights	A	B	8	1.5	1.0	0.4	60898	B	6	6	N/A	7.67	
6	Unknown	A	B	0	N/A	N/A	0.4	60898	B	6	6	N/A	7.67	
7	DB 14	A	B	0	10	4	0.4	60898	B	32	6	N/A	1.44	
8	DB 22	A	B	0	10	4	0.4	60898	B	32	6	N/A	1.44	
9	Care support DB	A	B	0	10	4	0.4	60898	B	32	6	N/A	1.44	
10	Spare	N/A	N/A	N/A	N/A	N/A	N/A	60898	N/A	N/A	N/A	N/A	N/A	
11	Spare	N/A	N/A	0	N/A	N/A	N/A	60898	N/A	N/A	N/A	N/A	N/A	

Type of Wiring O-Other:

N/A

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:		DB1	No of phases:	1
Overcurrent protective device for the distribution circuit:	BS(EN):	60898 MCB - Type B	Rating:	63 A
			Nominal Voltage:	230 V
RCD	BS(EN):	N/A	No of poles:	N/A
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs: 0.17 Ω	lpf: 1.5 kA	RCD operating times
			At In:	n/a ms
			At 5In:	n/a ms

## TEST RESULTS

Distribution board designation:

TSDB1

Location:

2nd floor by tea station

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.38	N/A	N/A	> 200	> 200	> 200	✓	0.55	N/A	N/A
2	N/A	N/A	N/A	0.17	N/A	N/A	> 200	> 200	> 200	✓	0.35	N/A	N/A
3	N/A	N/A	N/A	0.06	N/A	N/A	> 200	> 200	> 200	✓	0.23	N/A	N/A
4	N/A	N/A	N/A	0.41	N/A	N/A	> 200	> 200	> 200	✓	0.59	N/A	N/A
5	N/A	N/A	N/A	0.88	N/A	N/A	> 200	> 200	> 200	✓	1.09	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
7	N/A	N/A	N/A	0.03	N/A	N/A	> 200	> 200	> 200	✓	0.20	N/A	N/A
8	N/A	N/A	N/A	0.03	N/A	N/A	> 200	> 200	> 200	✓	0.20	N/A	N/A
9	N/A	N/A	N/A	0.02	N/A	N/A	> 200	> 200	> 200	✓	0.19	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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## CIRCUIT DETAILS

Distribution board designation:

D.B. Amberley 1

Location:

Amberley room

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
1	Amberly room socket north	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
2	Socket by DB Amberley 2	A	B	2	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
3	Spare	A	B	0	N/A	N/A	0.4	60898	B	16	6	N/A	2.87
4	Water heater socket in kitchen	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
5	Tea room, photocopier, Arun counselling room	A	B	7	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
6	Spare	A	B	0	N/A	N/A	0.4	60898	B	16	6	N/A	2.87
7	Feeds DB Amberley 2	A	B	1	4	1.5	0.4	60898	B	32	6	N/A	1.44
8	Kitchen and Room 7 sockets	A	B	9	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
9	Coucelling office east wall	A	B	4	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
10	Unknown	A	B	0	N/A	N/A	0.4	60898	B	16	6	N/A	2.87
11	Oven	A	B	1	4	1.5	0.4	60898	B	16	6	N/A	2.87
12	Dishwasher	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87

 Type of Wiring O-Other: N/A

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	DB1		No of phases:	
Overcurrent protective device for the distribution circuit:	BS(EN):	60898 MCB - Type B	Rating:	40 A
			Nominal Voltage:	
RCD	BS(EN):	N/A	No of poles:	N/A
			Rating:	N/A mA
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs: 0.16 Ω	lpf: 1.3 kA	RCD operating times
			At In:	n/a ms
			At 5In:	n/a ms

## TEST RESULTS

Distribution board designation:

**D.B. Amberley 1**

Location:

**Amberley room**

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.16	N/A	N/A	> 200	> 200	> 200	✓	0.32	N/A	N/A
2	N/A	N/A	N/A	0.06	N/A	N/A	> 200	> 200	> 200	✓	0.22	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
4	N/A	N/A	N/A	0.25	N/A	N/A	> 200	> 200	> 200	✓	0.40	N/A	N/A
5	N/A	N/A	N/A	0.45	N/A	N/A	> 200	> 200	> 200	✓	0.62	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
7	N/A	N/A	N/A	0.01	N/A	N/A	> 200	> 200	> 200	✓	0.17	N/A	N/A
8	N/A	N/A	N/A	0.53	N/A	N/A	> 200	> 200	> 200	✓	0.69	N/A	N/A
9	N/A	N/A	N/A	0.29	N/A	N/A	> 200	> 200	> 200	✓	0.45	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
11	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.36	N/A	N/A
12	N/A	N/A	N/A	0.28	N/A	N/A	> 200	> 200	> 200	✓	0.44	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: <b>Robert Kilhams</b>	Position: <b>Electrician</b>	Signature: _____	Date: <b>17/07/2014</b>
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## CIRCUIT DETAILS

Distribution board designation:

**D.B. Amberley 2**

Location:

**Amberley room**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Max disconnect time permitted by BS7671 s	Overcurrent protective devices				RCD	
					Live	cpc	BS(EN)		Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω	
					mm <sup>2</sup>	mm <sup>2</sup>								
1	Lights cleaning cupboard/hall, Arun counselling room, outside light by mikes office	A	B	7	1.5	1.0	0.4	60898	B	16	6	N/A	2.87	
2	Arun counselling office	A	B	2	1.5	1.0	0.4	60898	B	16	6	N/A	2.87	
3	Kitchen, tea room/hall, room 7 lights	A	B	14	1.5	1.0	0.4	60898	B	16	6	N/A	2.87	
4	Amberley room, outside Amberley room lights	A	B	13	1.5	1.0	0.4	60898	B	6	6	N/A	7.67	
5	Amberley room south sockets	A	B	5	2.5	1.5	0.4	60898	B	32	6	N/A	1.44	
6	Sockets oak east wall x2	A	B	2	2.5	1.5	0.4	60898	B	20	6	N/A	2.30	
7	Spare	A	B	0	N/A	N/A	0.4	60898	B	16	6	N/A	2.87	
8	Spare	A	B	0	N/A	N/A	0.4	60898	B	16	6	N/A	2.87	

 Type of Wiring O-Other: **N/A**

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	<b>DB Amberley 1</b>			No of phases:	<b>1</b>					
Overcurrent protective device for the distribution circuit:	BS(EN):	<b>60898 MCB - Type B</b>			Rating:	<b>32 A</b>	Nominal Voltage:	<b>230 V</b>		
RCD	BS(EN):	<b>N/A</b>			No of poles:	<b>N/A</b>		Rating:	<b>N/A mA</b>	
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs:	<b>0.17 Ω</b>	IpF:	<b>2.2 kA</b>	RCD operating times	At In:	<b>n/a ms</b>	At 5In:	<b>n/a ms</b>

## TEST RESULTS

Distribution board designation:

D.B. Amberley 2

Location:

Amberley room

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.45	N/A	N/A	> 200	> 200	> 200	✓	0.61	N/A	N/A
2	N/A	N/A	N/A	0.22	N/A	N/A	> 200	> 200	> 200	✓	0.38	N/A	N/A
3	N/A	N/A	N/A	0.87	N/A	N/A	> 200	> 200	> 200	✓	1.03	N/A	N/A
4	N/A	N/A	N/A	0.80	N/A	N/A	> 200	> 200	> 200	✓	0.97	N/A	N/A
5	N/A	N/A	N/A	0.39	N/A	N/A	> 200	> 200	> 200	✓	0.55	N/A	N/A
6	N/A	N/A	N/A	0.30	N/A	N/A	> 200	> 200	> 200	✓	0.46	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: Robert Kilhams Position: Electrician Signature:   Date: 17/07/2014



**TEST RESULTS**

Distribution board designation:

**D.B. Entrance 1**

Location:

**Front entrance by disabled toilet**

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.40	N/A	N/A	> 200	> 200	> 200	✓	0.73	N/A	N/A
2	N/A	N/A	N/A	0.49	N/A	N/A	> 200	> 200	> 200	✓	0.82	N/A	N/A
3	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.53	N/A	N/A
4	N/A	N/A	N/A	0.21	N/A	N/A	> 200	> 200	> 200	✓	0.54	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	N/A	N/A	N/A

**DETAILS OF TEST INSTRUMENTS**

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

**TESTED BY**

Name:	Robert Kilhams	Position:	Electrician	Signature:		Date:	17/07/2014
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## CIRCUIT DETAILS

Distribution board designation: **4th floor DB** Location: **Landing**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live	cpc	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
					mm <sup>2</sup>	mm <sup>2</sup>							
1	Sockets;	A	C	5	2.5	1.5	0.4	61009	B	32	6	N/A	1.44
2	Lights;	A	C	2	1.0	1.0	0.4	60898	B	6	6	N/A	7.67
3	Lights	A	C	2	1.0	1.0	0.4	60898	B	6	6	N/A	7.67
4	Sub main DB1	A	C	1	10	4	5	60898	B	40	6	N/A	1.15
5	Stair lift	A	C	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.87
6	Sub main DB2 (Supply to Top floor office (DB2))	A	C	1	10	2.5	5	60898	B	40	6	N/A	1.15
7	Sub main DB3	A	C	1	10	4	5	60898	B	40	6	N/A	1.15
8	Comms cabinet sockets	A	C	2	2.5	1.5	0.4	60898	B	40	6	N/A	1.15
9	Spare	A	C	2	N/A	N/A	0.4	60898	B	40	6	N/A	1.15
10	Spare	A	C	2	N/A	N/A	0.4	60898	B	40	6	N/A	1.15

Type of Wiring O-Other: **N/A**

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	<b>DB1</b>	No of phases:	<b>1</b>
Overcurrent protective device for the distribution circuit:	BS(EN): <b>60898 MCB - Type B</b>	Rating:	<b>63 A</b>
RCD	BS(EN): <b>N/A</b>	No of poles:	<b>N/A</b>
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs: <b>0.35 Ω</b> Ip: <b>2.2 kA</b> RCD operating times	At In: <b>n/a ms</b> At 5In: <b>n/a ms</b>

Nominal Voltage: **230 V**

Rating: **N/A mA**

## TEST RESULTS

Distribution board designation:

4th floor DB

Location:

Landing

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	0.75	0.76	1.25	0.17	N/A		> 200	> 200	> 200	✓	0.52	35.8	9.3
2	N/A	N/A	N/A	0.32	N/A	N/A	> 200	> 200	> 200	✓	0.67	N/A	N/A
3	N/A	N/A	N/A	0.12	N/A	N/A	> 200	> 200	> 200	✓	0.48	N/A	N/A
4	N/A	N/A	N/A	0.08	N/A	N/A	> 200	> 200	> 200	✓	0.44	N/A	N/A
5	N/A	N/A	N/A	0.23	N/A	N/A	> 200	> 200	> 200	✓	0.58	N/A	N/A
6	N/A	N/A	N/A	0.04	N/A	N/A	> 200	> 200	> 200	✓	0.39	N/A	N/A
7	N/A	N/A	N/A	0.16	N/A	N/A	> 200	> 200	> 200	✓	0.51	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	> 200	> 200	> 200	✓	0.27	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A

## DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

## TESTED BY

Name: Robert Kilhams	Position: Electrician	Signature: _____	Date: 24/06/2014
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## CIRCUIT DETAILS

Distribution board designation:

4th Floor room DB1

Location:

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs Ω permitted by BS7671
1	Sockets	A	B	5	2.5	1.5	0.4	61009	C	16	6	N/A	1.44
2	Sockets	A	B	5	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
3	Sockets	A	B	2	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
4	Lights	A	C	2	1.0	1.0	0.4	60898	B	16	6	N/A	2.87
5	Spare	A	C	2	N/A	N/A	0.4	60898	B	16	6	N/A	2.87

Type of Wiring O-Other:

N/A

## BOARD CHARACTERISTICS

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	DB landing 4th floor	No of phases:	1	Nominal Voltage:	230 V
Overcurrent protective device for the distribution circuit:	BS(EN): 60898 MCB - Type B	Rating:	40 A	Rating:	mA
RCD	BS(EN):	No of poles:		At In:	n/a ms
Confirmation of supply polarity	✓	Zs:	0.28 Ω	At 5In:	n/a ms
		IpF:	2.2 kA	RCD operating times	

### TEST RESULTS

Distribution board designation:

4th Floor room DB1

Location:

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  $\Omega$	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	M $\Omega$	M $\Omega$	M $\Omega$	M $\Omega$			ms	ms
1	N/A	N/A	N/A	0.28	N/A	N/A	> 200	> 200	> 200	✓	0.51	28.4	18.6
2	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.48	28.4	18.4
3	N/A	N/A	N/A	0.08	N/A	N/A	> 200	> 200	> 200	✓	0.36	28.4	18.4
4	N/A	N/A	N/A	0.31	N/A	N/A	> 200	> 200	> 200	✓	0.59	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A

### DETAILS OF TEST INSTRUMENTS

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

### TESTED BY

Name: Robert Kilhams      Position: Electrician      Signature: \_\_\_\_\_      Date: 24/06/2014

**CIRCUIT DETAILS**

Distribution board designation:

Top floor office (DB2)

Location:

4th Floor

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs permitted by BS7671 Ω
1	Sockets	A	B	2	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
2	Sockets	A	B	4	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
3	Sockets	A	B	5	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
4	Lights	A	B	2	2.5	1.5	0.4	60898	B	6	10	N/A	7.67
5	Spare	A	B	2	N/A	N/A	0.4	60898	B	6	10	N/A	7.67

Type of Wiring O-Other: **BOARD CHARACTERISTICS**

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	<input type="text" value="4th floor DB - 6"/>	No of phases:	<input type="text" value="1"/>
Overcurrent protective device for the distribution circuit:	BS(EN): <input type="text" value="60898 - Type B"/>	Rating:	<input type="text" value="40 A"/>
RCD	BS(EN): <input type="text" value="N/A"/>	No of poles:	<input type="text" value="N/A"/>
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs: <input type="text" value="0.39 Ω"/>	lpf: <input type="text" value="2.3 kA"/>
		RCD operating times	At In: <input type="text" value="N/A ms"/>
			At 5In: <input type="text" value="N/A ms"/>

**TEST RESULTS**

Distribution board designation:

Top floor office (DB2)

Location:

4th Floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.18	N/A	N/A	> 200	> 200	> 200	✓	0.57	28.4	18.2
2	N/A	N/A	N/A	0.16	N/A	N/A	> 200	> 200	> 200	✓	0.55	28.4	18.2
3	N/A	N/A	N/A	0.14	N/A	N/A	> 200	> 200	> 200	✓	0.53	28.4	16.4
4	N/A	N/A	N/A	0.20	N/A	N/A	> 200	> 200	> 200	✓	0.59	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A

**DETAILS OF TEST INSTRUMENTS**

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

**TESTED BY**

Name: Robert Kilhams Position: Electrician Signature: \_\_\_\_\_ Date: 24/06/2014

**CIRCUIT DETAILS**

Distribution board designation: **Db40**

Location: **4th Floor**

Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live	cpc	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Short-circuit Capacity kA	Operating current mA	Maximum Zs Ω permitted by BS7671
					mm <sup>2</sup>	mm <sup>2</sup>							
1	Sockets	A	B	8	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
2	Sockets	A	B	3	2.5	1.5	0.4	61009	B	16	6	N/A	2.87
3	Light	A	C	1	1.0	1.0	0.4	61009	B	6	6	N/A	7.67
4	Spare	A	C	1	N/A	N/A	0.4	61009	B	6	6	N/A	7.67
5	Spare	A	C	1	N/A	N/A	0.4	61009	B	6	6	N/A	7.67

Type of Wiring O-Other: **N/A**

**BOARD CHARACTERISTICS**

APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION

Supply to this distribution board is from:	<b>4th floor DB Landing</b>		No of phases:	<b>1</b>
Overcurrent protective device for the distribution circuit:	BS(EN):	<b>60898 MCB - Type B</b>	Rating:	<b>40 A</b>
RCD	BS(EN):	<b>N/A</b>	No of poles:	<b>N/A</b>
Confirmation of supply polarity	<input checked="" type="checkbox"/>	Zs: <b>0.28 Ω</b>	lpf: <b>2.3 kA</b>	RCD operating times
			At In:	<b>n/a ms</b>
			At 5In:	<b>n/a ms</b>
				Nominal Voltage: <b>230 V</b>
				Rating: <b>N/A mA</b>

**TEST RESULTS**

Distribution board designation:

Db40

Location:

4th Floor

Circuit number and phase	Circuit impedances (Ohms)					Insulation resistance (record lower or lowest value)				Polarity	Maximum measured earth fault loop impedance Zs  Ω	RCD Operating times	
	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			At In	At 5 In
	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	MΩ	MΩ	MΩ	MΩ			ms	ms
1	N/A	N/A	N/A	0.23	N/A	N/A	> 200	> 200	> 200	✓	0.50	28.4	18.2
2	N/A	N/A	N/A	0.21	N/A	N/A	> 200	> 200	> 200	✓	0.39	28.4	18.2
3	N/A	N/A	N/A	0.18	N/A	N/A	> 200	> 200	> 200	✓	0.44	28.4	18.4
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A

**DETAILS OF TEST INSTRUMENTS**

Details of Test Instruments used (state serial and/or asset numbers):

Multi-functional:	fluke 9532026	Earth electrode resistance:	9532026
Insulation resistance:	9532026	Earth fault loop impedance:	9532026
Continuity:	9532026	RCD:	9532026

**TESTED BY**

Name: Robert Kilhams      Position: Electrician      Signature: \_\_\_\_\_      Date: 24/06/2014

# PERIODIC INSPECTION REPORT

## GUIDANCE FOR RECIPIENT (to be appended to the Certificate)

This Periodic Inspection Report form is intended for reporting on the condition of an existing electrical installation.

You should have received an original Report and the contractor should have retained a duplicate. If you were the person ordering this Report, but not the owner of the installation, you should pass this Report, or a copy of it, immediately to the owner.

The original Report is to be retained in a safe place and be shown to any person inspecting or undertaking work on the electrical installation in the future. If you later vacate the property, this Report will provide the new owner with details of the condition of the electrical installation at the time the Report was issued.

The 'Extent and Limitations' box should fully identify the extent of the installation covered by this Report and any limitations on the inspection and test. The contractor should agree these aspects with you and with any other interested parties (Licensing Authority, Insurance Company, Building Society, etc) before the inspection was carried out.

The Report will usually contain a list of recommended actions necessary to bring the installation up to the current standard. For items classified as 'requires urgent attention', the safety of those using the installation may be at risk, and it is recommended that a competent person undertakes the necessary remedial work without delay.

For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection is stated in the Report under 'Next Inspection'.

This Certificate is only valid if a Schedule of Inspections and Schedule of Test Results are appended.