ELECTRICAL INSTALLATION CONDITION REPORT

265075 - Master

Lantei Compliance Services

A. Details of the Client/Person Ordering the Report

Client: Derbyshire County Council

Address:
County Hall
Matlock
Derbyshire
DE4 3AG

B. Reason for Producing this Report

Purpose of this report:
Essential information, which the client has requested, in accordance with the Electricity At Work Regulations 1989.
" As maybe necessary to prevent danger all systems
--See Additional Page--

Date(s) on which Inspection: and testing was carried out: 02/08/2018

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

Installation: Gernon Manor HOP

Occupier: Gernon Manor HOP

Address:
Dagnall Gardens
Bakewell
Derbyshire
DE45 1EN

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

Other: Care Home

Estimated age of wiring system: 40+ yrs

Evidence of alterations or additions: ✓ If yes estimated Age 10 yrs

Record of Installation available: N/A Records held By: N/A

Date of previous inspection: 01/04/2014

D. Extent and Limitations Inspection and Testing

Extent of Electrical Installation covered by this report:
A fixed wire test of all sub-mains and all lighting and power
--See Additional Page--

Agreed limitations including the reasons (See regulation 634.2)
Unable to access the sealed incoming device. Ze and Ipf was
--See Additional Page--

Agreed with name: E Wrath (Manager)

Operational Limitations including the reasons (See page No 23)
Critical equipment could not be isolated in agreement with the site manager as the building was operational at time of test. Live
--See Additional Page--

This inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS7671:2008 (IET Wiring Regulations) as amended to July 2015

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)

The origin of electrical supply is located in the external switch room. This is a three phase four wire system with a TN-C-S earthing
--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, 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 recommend that the installation is further inspected and tested by 02/08/2023

G. Declaration

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

Trading Title and address:
Lantei Compliance Services,
1A Essex Street,
Preston,
Lancashire,
PR1 1QE

NICEIC Enrolment Number: 502303

Branch No. (If Applicable): 000

Inspected and tested by:

Name: Craig Shelton Position: Electrical Test Engineer Signature: C Shelton Date: 03/08/2018

Report authorised for issue by:

Name: Rob Walsh Position: Qualifiying Manager Signature: R Walsh Date: 03/08/2018

H. Schedule(s)

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

10 Schedule(s) of inspection and 10 Schedule(s) of test results are attached

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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)	1.26	kA	Nominal current rating	LIM	A
IT	N/A	Other	N/A					External loop impedance	Ze (2)	0.25	Ω	Short circuit capacity	N/A	kA
		Confirmation of supply polarity	✓					Number of supplies		1				
								(Note: (1) by enquiry, (2) by enquiry or by measurement)						

J. Particulars of Installation Referred to in the Report

Means of earthing		Details of installation Earth Electrode (where applicable)			
Distributor's facility	✓	Type (e.g. rod(s), tape etc.)	N/A	Location	N/A
Installation earth electrode	N/A	Resistance to Earth	N/A Ω	Method of measurement	N/A

Main Protective Conductors

Tick boxes and enter details as applicable

Earthing Conductor	Material	Copper	csa	16 mm 2	Connection and Continuity Verified	LIM
Main protective bonding conductors	Material	Copper	csa	10 mm 2	Connection and Continuity Verified	LIM

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	External Switch Room	Current rating	200 A	if RCD main switch			
Type BS(EN)	5419 Isolator	No of poles	3	Fuse/Device rating or setting	LIM A	Rated residual operation current, Δn	N/A mA
Supply Conductors material	Copper	Supply Conductors csa	25 mm 2	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	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is	C3
	recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably	
	labelled /otherwise suitably identified for connection of particular items of equipment. This requirement can be	
	negated for non-domestic dwellings provided that a documented risk assessment determines that RCD	
	protection is not necessary . Location: DB Laundry, circuit 1/L1.	
	--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	0
C3 - Improvement recommended	8
FI - Further investigation required without delay	2

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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

265075 - Master

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	External Switch Room. Bill.	Supply to distribution board is from	N/A	Associated RCD (if any)	
		No of phases	N/A	Nominal Voltage	N/A V	BS(EN)	N/A
		Overcurrent protective device for the distribution circuit				RCD No of Poles	N/A
Distribution board designation	DB Main	Type BS(EN)	N/A	Rating	N/A 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	Overcurrent protective device				RCD	Max permitted Zs Ω
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	
1/TP	Sub Mains(DB Laundry)	H	C	1	10	MICC	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
2/L1	Sub Mains(DB Staff House A)	F	D	1	16	SWA	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
2/L2	Sub Mains(DB Kitchen,DB H/D Salon)	H	C	1	10	MICC	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
2/L3	Sub Mains(DB Zone 4,DB Zone 4/A)	H	C	1	10	MICC	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
3/L1	Sub Mains(DB Zone 1)	D	B	1	16	MECH	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
3/L2	Sub Mains(DB Zone 3)	H	C	1	10	MICC	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	Sub Mains(DB Zone 2)	D	B	1	16	MECH	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
4/L2	DB Staff House B (not tested)	F	D	1	16	SWA	5	3036 Fuse (SE)		LIM	LIM	N/A	LIM
4/L3	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

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Board Tests

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

Zs	N/A	Ω	Operating times of associated RCD (if any) At $I\Delta n$	N/A	ms
Ipf	N/A	kA	At $5I\Delta n$	N/A	ms
Correct supply polarity confirmed	✓		Phase sequence confirmed (where appropriate)	N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At $I\Delta n$	At $5I\Delta n$	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/TP	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	0.36	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.38	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.34	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.35	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	LIM	0.02	N/A	LIM	LIM	LIM	✓	0.27	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.37	N/A	N/A	N/A	NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	N/A	N/A	N/A	LIM	0.02	N/A	LIM	LIM	LIM	✓	0.27	N/A	N/A	N/A	NO
4/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM		LIM	N/A	N/A	N/A	NO
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

265075 - Master

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	Laundry Room. Crabtree.	Supply to distribution board is from	SubMains(DB Main, 1/TP)	Associated RCD (if any)	
		No of phases	3	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit		BS(EN)	N/A
Distribution board designation	DB Laundry	Type BS(EN)	3036 Fuse (SE)	RCD No of Poles	N/A
		Rating	LIM A	RCD Rating	N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta n$	Ω
1/L1	Socket- office	D	B	1	2.5	2.5	0.4	3871 MCB	2	15	4.5	N/A	2.08
1/L2	Dryer 2	H	C	1	6	MICC	0.4	3871 MCB	2	30	4.5	N/A	1.04
1/L3	Circuit not traced	A	B	LIM	4	1.5	0.4	3871 MCB	2	15	4.5	N/A	2.08
2/L1	Washer 1	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	4.5	N/A	1.56
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	Dryer 1	B	B	1	6	2.5	0.4	3871 MCB	2	30	3	N/A	1.04
3/L1	Grill- kitchen	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	4.5	N/A	1.56
3/L2	Cooker- kitchen	D	B	1	6	2.5	0.4	3871 MCB	2	20	4.5	N/A	1.56
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	Washer	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	4.5	N/A	1.56
5/TP	Kitchen extract panel	H	C	1	6	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
6/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

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Board Tests

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

Zs	0.36 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	1.30 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L1	N/A	N/A	N/A	0.14	N/A	N/A	LIM	>200	>200	✓	0.48	N/A	N/A	N/A	NO
1/L2	N/A	N/A	N/A	0.06	N/A	N/A	LIM	>200	>200	✓	0.42	N/A	N/A	N/A	NO
1/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.18	N/A	N/A	LIM	>200	>200	✓	0.50	N/A	N/A	N/A	NO
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	N/A	N/A	N/A	0.07	N/A	N/A	LIM	>200	>200	✓	0.40	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.17	N/A	N/A	LIM	>200	>200	✓	0.53	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	0.15	N/A	N/A	LIM	>200	>200	✓	0.47	N/A	N/A	N/A	NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	N/A	N/A	N/A	0.15	N/A	>200	LIM	>200	>200	✓	0.49	N/A	N/A	N/A	NO
5/TP	N/A	N/A	N/A	0.22	N/A	>200	LIM	>200	>200	✓	0.56	N/A	N/A	N/A	NO
6/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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Board Details

TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of Distribution Board	Ground Floor Kitchen. Schneider.	Supply to distribution board is from	SubMains(DB Main, 2/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB Staff House A	Type BS(EN)	3036 Fuse (SE)	Rating LIM 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	Overcurrent protective device				RCD	Max permitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	Ω
1/L1	RFC sockets- computers	A	100	7	2.5	1.5	0.4	61009 RCD/RCBO	C	32	10	30	0.68
2/L1	Cooker	A	100	1	6	2.5	0.4	61009 RCD/RCBO	C	32	10	30	0.68
3/L1	RFC sockets- 1st floor	A	100	4	2.5	1.5	0.4	61009 RCD/RCBO	C	32	10	30	0.68
4/L1	RFC sockets- ground floor	A	100	6	2.5	1.5	0.4	61009 RCD/RCBO	C	32	10	30	0.68
5/L1	Socket- fridge	A	100	1	2.5	1.5	0.4	61009 RCD/RCBO	C	20	10	30	1.09
6/L1	Garage supply	A	100	1	2.5	1.5	0.4	61009 RCD/RCBO	C	20	10	30	1.09
7/L1	Lights- 1st floor	A	100	5	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
8/L1	Lights- ground floor	A	100	6	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
9/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
14/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

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Board Tests

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

Zs	0.38 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.63 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L1	LIM	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.67	LIM	LIM	LIM	NO
2/L1	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>200	>200	✓	0.45	28.4	28.4	✓	NO
3/L1	LIM	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.64	LIM	LIM	LIM	NO
4/L1	LIM	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.58	LIM	LIM	LIM	NO
5/L1	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>200	>200	✓	0.43	30.1	29.9	✓	NO
6/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	26.8	28.6	✓	NO
7/L1	N/A	N/A	N/A	0.76	N/A	N/A	LIM	>200	>200	✓	1.03	N/A	N/A	N/A	NO
8/L1	N/A	N/A	N/A	0.63	N/A	N/A	LIM	>200	>200	✓	0.95	N/A	N/A	N/A	NO
9/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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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	Cleaners Cupboard Outside Kitchen. Crabtree.	Supply to distribution board is from	SubMains(DB Main, 2/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB Kitchen	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating LIM 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	Overcurrent protective device				RCD	Max permitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	Ω
1/L2	Lights- staff rest room & corridor	A/H	B/C	5	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
2/L2	Lights- laundry	H	C	3	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
3/L2	RFC circuit not traced	H	C	LIM	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
4/L2	RFC sockets- staff rest room	H	C	3	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
5/L2	RFC sockets- staff kitchen area	H	C	4	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
6/L2	RFC sockets- laundry, staff & medical	H	C	6	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
7/L2	Lights- kitchen	H	C	4	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
8/L2	Fan heater- kitchen	H	C	1	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
9/L2	Boiler control panel	H	C	1	6	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
10/L2	Water heater- kitchen	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	3	N/A	1.56
11/L2	Catersense	A	B	1	2.5	1.5	0.4	3871 MCB	2	20	3	N/A	1.56
12/L2	Insectocutor- kitchen	H	C	1	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12

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

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Board Tests

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

Zs	0.34 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.70 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L2	N/A	N/A	N/A	0.51	N/A	N/A	LIM	>200	>200	✓	0.82	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	0.43	N/A	N/A	LIM	>200	>200	✓	0.74	N/A	N/A	N/A	NO
3/L2	0.38	0.38	MICC	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
4/L2	0.24	0.25	MICC	0.38	N/A	N/A	LIM	>200	>200	✓	0.53	N/A	N/A	N/A	NO
5/L2	0.22	0.22	MICC	0.41	N/A	N/A	LIM	>200	>200	✓	0.55	N/A	N/A	N/A	NO
6/L2	0.27	0.28	MICC	0.36	N/A	N/A	LIM	>200	>200	✓	0.63	N/A	N/A	N/A	NO
7/L2	N/A	N/A	N/A	0.52	N/A	N/A	LIM	>200	>200	✓	0.80	N/A	N/A	N/A	NO
8/L2	N/A	N/A	N/A	0.48	N/A	N/A	LIM	>200	>200	✓	0.75	N/A	N/A	N/A	NO
9/L2	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>200	>200	✓	0.44	N/A	N/A	N/A	NO
10/L2	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>200	>200	✓	0.57	N/A	N/A	N/A	NO
11/L2	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>200	>200	✓	0.52	N/A	N/A	N/A	NO
12/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>200	>200	✓	0.61	N/A	N/A	N/A	NO

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

265075 - Master

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	Monsal Corridor Boiler Room. Crabtree.	Supply to distribution board is from	SubMains(DB Main, 2/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB Zone 4	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating LIM 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	Overcurrent protective device				RCD	Max permitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	Ω
1/L3	Lights- left side	D	B	5	1.5	MECH	0.4	3871 MCB	2	10	3	N/A	3.12
2/L3	Lights- right side	D	B	6	1.5	MECH	0.4	3871 MCB	2	10	3	N/A	3.12
3/L3	Lights- centre & corridor	D	B	8	1.5	MECH	0.4	3871 MCB	2	10	3	N/A	3.12
4/L3	RFC sockets- rooms 25-27	D	B	3	2.5	MECH	0.4	3871 MCB	2	30	3	N/A	1.04
5/L3	RFC sockets- rooms 28,29 & corridor	D/H	B/C	4	2.5	MECH/	0.4	3871 MCB	2	30	3	N/A	1.04
6/L3	RFC sockets- rooms 30-32 & corridor	H	C	4	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
7/L3	RFC sockets- rooms 33-35	H	C	3	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
8/L3	Supply HW tank	H	C	1	1.5	MICC	0.4	3871 MCB	2	5	3	N/A	6.24
9/L3	Emergency lighting battery charger	H	C	1	2.5	MICC	0.4	3871 MCB	2	15	3	N/A	2.08
10/L3	Socket- zone 3 above sink	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	3	N/A	1.56
11/L3	External socket (isolated on arrival)	H	C	LIM	2.5	MICC	0.4	3871 MCB	2	15	4.5	30	2.08
12/L3	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-

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

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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265075 - Master

Board Tests

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

Zs	0.35 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.68 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L3	N/A	N/A	N/A	0.63	N/A	N/A	LIM	>200	>200	✓	0.95	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.67	N/A	N/A	LIM	>200	>200	✓	0.99	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	0.75	N/A	N/A	LIM	>200	>200	✓	1.08	N/A	N/A	N/A	NO
4/L3	0.36	0.36	MECH	0.35	N/A	N/A	LIM	>200	>200	✓	0.64	N/A	N/A	N/A	NO
5/L3	0.53	0.53	MECH	0.38	N/A	N/A	LIM	>200	>200	✓	0.66	N/A	N/A	N/A	NO
6/L3	0.57	0.58	MICC	0.40	N/A	N/A	LIM	>200	>200	✓	0.70	N/A	N/A	N/A	NO
7/L3	0.44	0.44	MICC	0.36	N/A	N/A	LIM	>200	>200	✓	0.62	N/A	N/A	N/A	NO
8/L3	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>200	>200	✓	0.43	N/A	N/A	N/A	NO
9/L3	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>200	>200	✓	0.42	N/A	N/A	N/A	NO
10/L3	N/A	N/A	N/A	0.24	N/A	N/A	LIM	>200	>200	✓	0.56	N/A	N/A	N/A	NO
11/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	LIM	LIM	LIM	NO
12/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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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	Monsal Corridor Boiler Room. Crabtree Starbreaker.	Supply to distribution board is from	SubMains(DB Main, 2/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage	230 V
		Overcurrent protective device for the distribution circuit		BS(EN)	N/A
Distribution board designation	DB Zone 4/A	Type BS(EN)	3036 Fuse (SE)	RCD No of Poles	N/A
		Rating	LIM 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	Overcurrent protective device				RCD	Max permitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	Ω
1/L3	Door closer	FP	C	1	1.5	1.5	0.4	60898 MCB	B	6	6	N/A	7.28
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	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

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Board Tests

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

Zs	0.35 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.68 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L3	N/A	N/A	N/A	N/A	0.03	N/A	LIM	>200	>200	✓	0.42	N/A	N/A	N/A	NO
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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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	Cleaners Cupboard Outside Kitchen. Protek.	Supply to distribution board is from	SubMains(DB Main, 2/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB H/D Salon	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating LIM A	RCD Rating N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs Ω
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta_n$	
1/L2	RFC sockets- hairdressing salon	H	C	3	2.5	MICC	0.4	61009 RCD/RCBO	C	32	4.5	30	0.68
2/L2	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

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Board Tests

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

Zs	0.34 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.72 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L2	0.28	0.28	MICC	0.35	N/A	N/A	LIM	>200	>200	✓	0.62	26.7	12.6	✓	NO
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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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	External Switch Room. Crabtree.	Supply to distribution board is from	SubMains(DB Main, 3/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB Zone 1	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating LIM A	RCD Rating N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta n$	Ω
1/L1	Lights- far side	H	C	6	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
2/L1	Lights- this side	H	C	5	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
3/L1	Lights- centre	H	C	7	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
4/L1	Lights- corridors	D	B	8	1.5	MECH	0.4	3871 MCB	2	10	3	N/A	3.12
5/L1	RFC sockets- rooms 1,2	D/H	B/C	2	2.5	MECH	0.4	3871 MCB	2	30	3	N/A	1.04
6/L1	RFC sockets- rooms 3-6	D	B	3	2.5	MECH	0.4	3871 MCB	2	30	3	N/A	1.04
7/L1	RFC sockets- office, corridor & nurse call	D	B	5	2.5	MECH	0.4	3871 MCB	2	30	3	N/A	1.04
8/L1	RFC sockets- corridor & hairdresser	H	C	3	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
9/L1	RFC sockets- rooms 8-11	D/H	B/C	4	2.5	MECH	0.4	3871 MCB	2	30	3	N/A	1.04
10/L1	Supply T15	D	B	1	2.5	MECH	0.4	3871 MCB	2	20	3	N/A	1.56
11/L1	Door bell	D	B	1	1.5	MECH	0.4	3871 MCB	2	5	3	N/A	6.24
12/L1	Supply HW tank	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	3	N/A	1.56

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

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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265075 - Master

Board Tests

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

Zs	0.27 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	1.18 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L1	N/A	N/A	N/A	0.75	N/A	N/A	LIM	>200	>200	✓	0.98	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.72	N/A	N/A	LIM	>200	>200	✓	0.93	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.83	N/A	N/A	LIM	>200	>200	✓	1.04	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	0.98	N/A	N/A	LIM	>200	>200	✓	1.20	N/A	N/A	N/A	NO
5/L1	0.32	0.33	MECH	0.39	N/A	N/A	LIM	>200	>200	✓	0.63	N/A	N/A	N/A	NO
6/L1	0.38	0.38	MECH	0.43	N/A	N/A	LIM	>200	>200	✓	0.66	N/A	N/A	N/A	NO
7/L1	LIM	LIM	MECH	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.71	N/A	N/A	N/A	NO
8/L1	0.57	0.57	MICC	0.40	N/A	N/A	LIM	>200	>200	✓	0.65	N/A	N/A	N/A	NO
9/L1	0.43	0.43	MECH	0.43	N/A	N/A	LIM	>200	>200	✓	0.68	N/A	N/A	N/A	NO
10/L1	N/A	N/A	N/A	0.18	N/A	N/A	LIM	>200	>200	✓	0.46	N/A	N/A	N/A	NO
11/L1	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>200	>200	✓	0.34	N/A	N/A	N/A	NO
12/L1	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>200	>200	✓	0.53	N/A	N/A	N/A	NO

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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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	Dovedale Corridor Boiler Room. Crabtree.	Supply to distribution board is from	SubMains(DB Main, 3/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB Zone 3	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating LIM A	RCD Rating N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta n$	Ω
1/L2	Lights- centre	H	C	5	1.5	MICC	0.4	3871 MCB	2	5	3	N/A	6.24
2/L2	Lights- far side	H	C	6	1.5	MICC	0.4	3871 MCB	2	5	3	N/A	6.24
3/L2	Lights- this side	H	C	5	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
4/L2	Lights- corridor	H	C	9	1.5	MICC	0.4	3871 MCB	2	10	4.5	N/A	3.12
5/L2	RFC sockets- rooms 22-24	H	C	3	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
6/L2	RFC sockets- rooms 19-21	H	C	3	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
7/L2	RFC sockets- rooms 16-18 & corridor	H	C	5	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
8/L2	RFC sockets- 13-15	H	C	3	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
9/L2	RFC sockets- general purpose	H	C	2	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
10/L2	Boiler supply	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	3	N/A	1.56
11/L2	Hoists supply & socket in adjacent room	A/H	B/C	1	2.5	1.5/M	0.4	3871 MCB	2	20	3	N/A	1.56
12/L2	Supply HW tank	H	C	1	2.5	MICC	0.4	3871 MCB	2	20	3	N/A	1.56

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

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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265075 - Master

Board Tests

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

Zs	0.37 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.62 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L2	N/A	N/A	N/A	0.65	N/A	N/A	LIM	>200	>200	✓	0.92	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	0.73	N/A	N/A	LIM	>200	>200	✓	1.02	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	0.54	N/A	N/A	LIM	>200	>200	✓	0.86	N/A	N/A	N/A	NO
4/L2	N/A	N/A	N/A	0.83	N/A	N/A	LIM	>200	>200	✓	1.15	N/A	N/A	N/A	NO
5/L2	0.35	0.35	MICC	0.29	N/A	N/A	LIM	>200	>200	✓	0.60	N/A	N/A	N/A	NO
6/L2	0.44	0.44	MICC	0.37	N/A	N/A	LIM	>200	>200	✓	0.64	N/A	N/A	N/A	NO
7/L2	0.56	0.56	MICC	0.35	N/A	N/A	LIM	>200	>200	✓	0.69	N/A	N/A	N/A	NO
8/L2	0.49	0.50	MICC	0.26	N/A	N/A	LIM	>200	>200	✓	0.58	N/A	N/A	N/A	NO
9/L2	0.64	0.64	MICC	0.31	N/A	N/A	LIM	>200	>200	✓	0.65	N/A	N/A	N/A	NO
10/L2	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>200	>200	✓	0.57	N/A	N/A	N/A	NO
11/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>200	>200	✓	0.62	N/A	N/A	N/A	NO
12/L2	N/A	N/A	N/A	0.16	N/A	N/A	LIM	>200	>200	✓	0.44	N/A	N/A	N/A	NO

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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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	External Switch Room. Crabtree.	Supply to distribution board is from	SubMains(DB Main, 4/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB Zone 2	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating LIM A	RCD Rating N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta n$	Ω
1/L1	Lights- centre	H	C	7	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
2/L1	Lights- far side	H	C	5	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
3/L1	Lights- near side	H	C	5	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
4/L1	Lights- lounge	H	C	6	1.5	MICC	0.4	3871 MCB	2	10	3	N/A	3.12
5/L1	RFC sockets- near side & lounge	H	C	6	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
6/L1	RFC sockets- far side	H	C	5	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
7/L1	External light	H	C	1	1.5	MICC	0.4	3871 MCB	2	5	3	N/A	6.24
8/L1	External light & timeclock	D	B	2	2.5	MECH	0.4	3871 MCB	2	5	3	N/A	6.24
9/L1	Spurs- emergency lighting battery charger	D	B	2	2.5	MECH	0.4	3871 MCB	2	20	3	N/A	1.56
10/L1	Call system	D	B	1	2.5	MECH	0.4	3871 MCB	2	20	3	N/A	1.56
11/L1	Water feature- front via RCD	D	B	1	2.5	MECH	0.4	3871 MCB	2	15	4.5	30	2.08
12/L1	Door closer	FP	C	1	1.5	1.5	0.4	3871 MCB	2	5	3	N/A	6.24

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

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Board Tests

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

Zs	0.27 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.85 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	4002057	RCD	4002057
Insulation resistance	4002057	Other	N/A
Continuity	4002057	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	Maximum measured earth fault loop impedance	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L1	N/A	N/A	N/A	0.80	N/A	N/A	LIM	>200	>200	✓	1.03	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.93	N/A	N/A	LIM	>200	>200	✓	1.13	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.70	N/A	N/A	LIM	>200	>200	✓	0.92	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	0.65	N/A	N/A	LIM	>200	>200	✓	0.89	N/A	N/A	N/A	NO
5/L1	0.53	0.53	MICC	0.37	N/A	N/A	LIM	>200	>200	✓	0.63	N/A	N/A	N/A	NO
6/L1	0.46	0.46	MICC	0.42	N/A	N/A	LIM	>200	>200	✓	0.69	N/A	N/A	N/A	NO
7/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
8/L1	N/A	N/A	N/A	0.28	N/A	N/A	LIM	>200	>200	✓	0.43	N/A	N/A	N/A	NO
9/L1	N/A	N/A	N/A	0.16	N/A	N/A	LIM	>200	>200	✓	0.38	N/A	N/A	N/A	NO
10/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>200	>200	✓	0.52	N/A	N/A	N/A	NO
11/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	22.5	16.3	✓	NO
12/L1	N/A	N/A	N/A	0.20	N/A	N/A	LIM	>200	>200	✓	0.33	N/A	N/A	N/A	NO

Tested By

Signature	C Shelton	Position	Electrical Test Engineer
Name	Craig Shelton	Date of testing	02/08/2018

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Purpose of this report, Continued. from page 1

shall be maintained so as to prevent, so as far reasonably practical such danger. "

Agreed limitations including the reasons, Continued. from page 1

taken at the nearest accessible live point to the origin of the supply.
Where an electrical installation can't be isolated from the supply, the protective and main bonding conductors must NOT be disconnected as under fault conditions the exposed and extraneous conductive parts could be raised to a dangerous level above earth potential.
Circuits not located within a reasonable amount of time designated as " Circuit not traced " with limitations of any live testing and R1+R2.
Not every circuit final termination was accessible. Therefore some readings were ascertained at next most practical point in the circuit.
Insulation resistance of circuits was tested in accordance with regulation 612.3.3 on circuits where it was impracticable to disconnect the load.

Operational Limitations including the reasons, Continued. from page 1

testing carried out wherever practicable.
DB Staff House B has not been tested as the property is rented out to others.

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

configuration. Wired from the cut out are 25mm csa copper conductors, which feed the main distribution board. The main DB is a Bill, with BS3036 rewireable fuses used as over current protection. Wired from the main distribution board are all the distribution circuits throughout the installation. Ze and Ipf where ascertained from the busbar within the main DB.

The MET is located within the switch room. All conductors have been checked for tightness and have been adequately terminated. The main earth is present here and adequately bonded with a 16mm earthing conductor. The main water intake is located in the boiler house outside the laundry and has been adequately bonded with a 10mm conductor. The main gas intake is also located in the boiler house outside the laundry and has been adequately bonded with a 10mm conductor.

The building is used as a care home and should be subject to an Inspection and Test every 5 years in accordance with table 3.2 in guidance note 3.

The inspection comprised of looking for any breakages in cables. Identifying any wear and tear or deterioration. Identification of any signs of overheating on switch gear. Accessories and wiring systems were inspected to see if there were any missing parts i.e. covers or screws. Where possible any loose connections or fixings have been tightened or re terminated. I can confirm that access to switch gear was adequate. All Distribution Boards and switch gear where inspected and all doors and enclosures where checked to make sure they were secure.

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

final circuits. With a visual inspection within the constraints of the limitations.

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Observations Continued from Page 2

Item No	Description	Code
	Regulation 411.3.3	
2	Observation: Circuit could not be verified and requires ascertaining. Location: DB Laundry, circuit 1/L3. Regulation: 514.1.2	FI
3	Observation: It is assumed that the cables that are concealed within the wall are less than 50 mm deep and have no additional protection against nails. These circuits should be RCD protected. Location: DB Staff House A, circuits 7/L1 and 8/L1. Regulation: 522.6.203	C3
4	Observation: Circuit could not be verified and requires ascertaining. Location: DB Kitchen, circuit 3/L2. Regulation: 514.1.2	FI
5	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. This requirement can be negated for non-domestic dwellings provided that a documented risk assessment determines that RCD protection is not necessary . Location: DB Kitchen, circuit 4/L2, 5/L2 and 6/L2. Regulation 411.3.3	C3
6	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. This requirement can be negated for non-domestic dwellings provided that a documented risk assessment determines that RCD protection is not necessary . Location: DB Zone 4, circuit 4/L3- 7/L3. Regulation 411.3.3	C3
7	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. This requirement can be negated for non-domestic dwellings provided that a documented risk assessment determines that RCD protection is not necessary . Location: DB Zone 1, circuit 5/L1- 9/L1. Regulation 411.3.3	C3
8	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably	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

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Observations Continued from Page 2

Item No	Description	Code
	labelled /otherwise suitably identified for connection of particular items of equipment. This requirement can be negated for non-domestic dwellings provided that a documented risk assessment determines that RCD protection is not necessary . Location: DB Zone 3, circuits 5/L2- 9/L2 and 11/L2. Regulation 411.3.3	
9	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. This requirement can be negated for non-domestic dwellings provided that a documented risk assessment determines that RCD protection is not necessary . Location: DB Zone 2, circuits 5/L1 and 6/L1. Regulation 411.3.3	C3
10	Observation: There is insufficient information and identification in the distribution boards, I recommend that circuit charts are produced. Location: All distribution boards. Regulation: 514.9.1	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

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CONDITION REPORT
GUIDANCE NOTES FOR RECIPIENTS

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

1. The purpose of this Condition Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section 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 residual current devices (RCD) there should be a notice at or near the device stating that it should be tested quarterly. **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 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 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 competent person 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 could not, due to the extent or limitations of this 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.

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