ELECTRICAL INSTALLATION CONDITION REPORT

265083 - 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: 22/08/2018

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

Installation: East Clune HOP

Occupier: East Clune HOP

Address:
West Street
Chesterfield
Matlock
Derbyshire S43 4NW

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

Other: N/A

Estimated age of wiring system: 60 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: Not Known

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: Site Supervisor

Operational Limitations including the reasons (See page No 41)
Critical equipment could not be switched off in agreement with the Client/Site supervisor.
--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 ground floor lift motor room. This a three phase four wire system with TN-S
--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 22/08/2023

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, PR! !QE

NICEIC Enrolment Number: 502303

Branch No. (If Applicable): 000

Inspected and tested by:

Name	Position	Signature	Date
Lee Harrison	Electrical Test Engineer		22/08/2018

Report authorised for issue by:

Name	Position	Signature	Date
Rob Walsh	Electrical Test Engineer		22/08/2018

H. Schedule(s)

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

19 Schedule(s) of inspection and 19 Schedule(s) of test results are attached

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

I. Supply Characteristics and Earthing Arrangements

Earthing Arrangements		Number and Type of Live Conductors					
TN-S	✓	a.c.	✓			d.c.	N/A
TN-C-S	N/A	1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	2 Wire	N/A
TN-C	N/A	2-Phase (3 wire)	N/A			3 Wire	N/A
TT	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	✓	Other	N/A
IT	N/A	Other	N/A				
		Confirmation of supply polarity	✓				

Nature of Supply Parameters			
Nominal Voltage	U (1)	400	V
Nominal Voltage	U_0 (1)	230	V
Nominal frequency	f (1)	50	Hz
Prospective fault current	Ipf (2)	1.68	kA
External loop impedance	Ze (2)	0.29	Ω
Number of supplies		1	

(Note: (1) by enquiry, (2) by enquiry or by measurement)

Supply protective device		
BS(EN)	LIM	
Type	N/A	
Nominal current rating	N/A	A
Short circuit capacity	N/A	kA

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	✓
Main protective bonding conductors	Material	Copper	csa	16	mm 2	Connection and Continuity Verified	LIM

Bonding of Incoming Service

Water installation pipes	*	Gas installation pipes	✓	Structural Steel	✓	Lightning protection	✓
Oil installation pipes	N/A	Other incoming service(s)	✓	Please State	Mechanical services		

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

Protective measure(s) against electric shock: ADS

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

Location	Main switch room	Current rating	160 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	415 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: Suspected asbestos present within distribution board. This should be proven otherwise and a	N/A
	record held on site or professionally removed.	
	Location: Within DB fuse carriers throughout installation.	
2	Observation: There is no earth bar inside the distribution board. CPCs of circuits are terminated to a common	C2
	bolt and could potentially come loose.	
	--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	9
C3 - Improvement recommended	51
FI - Further investigation required without delay	8

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 lift motor 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	Main Panel	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 M)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
2/L1	Sub Mains(DB C)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
2/L2	Sub Mains(DB F)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
2/L3	Sub Mains(DB I)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
3/L1	Sub Mains(DB B)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
3/L2	Sub Mains(DB G)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
3/L3	Sub Mains(DB H)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
4/L1	Sub Mains(DB 2)	VIR	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
4/L2	Sub Mains(DB D)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
4/L3	Sub Mains(DB J)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
5/L1	Sub Mains(DB 3)	D	B	1	2.5	MW	5	3036 Fuse (SE)		20	4	N/A	3.64
5/L2	Sub Mains(DB E)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
5/L3	Sub Mains(DB K)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
6/TP	Lift supply	VIR	B	1	2.5	MW	0.4	3036 Fuse (SE)		20	4	N/A	1.68
7/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	Sub Mains(DB L)	D	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265083 - Master

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 Δ n	N/A ms
Ipf	N/A	kA		At 5I Δ n	N/A ms
Correct supply polarity confirmed	✓		Phase sequence confirmed (where appropriate)		✓

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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 MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			At I Δ n ms	At 5I Δ n ms	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)										
1/TP	N/A	N/A	N/A	0.08	N/A	>200	>200	>200	>200	✓	0.36	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.03	N/A	N/A	>200	>200	>200	✓	0.31	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	0.02	N/A	N/A	>200	>200	>200	✓	0.30	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.03	N/A	N/A	>200	>200	>200	✓	0.31	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.03	N/A	N/A	>200	>200	>200	✓	0.31	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	0.02	N/A	N/A	>200	>200	>200	✓	0.30	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	0.03	N/A	N/A	>200	>200	>200	✓	0.31	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	0.01	N/A	N/A	>200	>200	>200	✓	0.28	N/A	N/A	N/A	NO
4/L2	N/A	N/A	N/A	0.05	N/A	N/A	>200	>200	>200	✓	0.33	N/A	N/A	N/A	NO
4/L3	N/A	N/A	N/A	0.05	N/A	N/A	>200	>200	>200	✓	0.33	N/A	N/A	N/A	NO
5/L1	N/A	N/A	N/A	0.03	N/A	N/A	>200	>200	>200	✓	0.30	N/A	N/A	N/A	NO
5/L2	N/A	N/A	N/A	0.05	N/A	N/A	>200	>200	>200	✓	0.33	N/A	N/A	N/A	NO
5/L3	N/A	N/A	N/A	0.05	N/A	N/A	>200	>200	>200	✓	0.33	N/A	N/A	N/A	NO
6/TP	N/A	N/A	N/A	0.04	N/A	>200	>200	>200	>200	✓	0.31	N/A	N/A	N/A	NO
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	N/A	N/A	N/A	0.09	N/A	>200	>200	>200	>200	✓	0.37	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	Boiler House BILL	Supply to distribution board is from	SubMains(Main Panel, 1/TP)	Associated RCD (if any)	
		No of phases	3	Nominal Voltage 400 V	BS(EN) N/A
Distribution board designation	DB M	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating 60 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	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	Sub Mains(DB 5)	VIR	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	Sub Mains(DB 4)	VIR	B	1	16	MW	5	3036 Fuse (SE)		60	4	N/A	1.07
3/TP	Boiler control panel	D	B	1	10	10	5	3036 Fuse (SE)		30	4	N/A	2.51

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	1.36 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	N/A	N/A	N/A	0.01	N/A	N/A	>200	>200	>200	✓	0.37	N/A	N/A	N/A	NO
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	N/A	N/A	N/A	0.01	N/A	N/A	>200	>200	>200	✓	0.37	N/A	N/A	N/A	NO
3/TP	N/A	N/A	N/A	0.01	N/A	>200	>200	>200	>200	✓	0.36	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	Boiler house Crabtree C50	Supply to distribution board is from	SubMains(DB M, 2/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB 5	Type BS(EN)	3036 Fuse (SE)	Rating 60 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/L1	Socket, laundry	D	B	1	2.5	MW	0.4	3871 MCB	2	15	4.5	N/A	2.08
2/L1	Socket, laundry	D	B	1	2.5	MW	0.4	3871 MCB	2	15	4.5	N/A	2.08
3/L1	Unused FCU, laundry	D	B	1	2x2.5	MW	0.4	3871 MCB	2	15	4.5	N/A	2.08
4/L1	Water Heater FCU, kitchen	D	B	1	2.5	MW	0.4	3871 MCB	2	15	4.5	N/A	2.08
5/L1	Sockets, Staff dining room	D	B	2	2x2.5	MW	0.4	3871 MCB	2	15	4.5	N/A	2.08
6/L1	Sockets, Kitchen	A	B	6	2x2.5	2x1.5	0.4	3871 MCB	2	30	4.5	30	1.04
7/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-
8/L1	Sockets, Kitchen	A	B	5	2x2.5	2x1.5	0.4	3871 MCB	2	30	4.5	N/A	1.04
9/L1	Dishwasher isolator, kitchen	A	B	1	6	2.5	0.4	3871 MCB	2	30	4.5	N/A	1.04
10/L1	Mixer isolator, kitchen	A	B	1	2.5	1.5	0.4	3871 MCB	2	15	4.5	N/A	2.08
11/L1	Slicer isolator, kitchen	A	B	1	2.5	1.5	0.4	3871 MCB	2	15	4.5	N/A	2.08
12/L1	Water Boiler, kitchen	A	B	1	2.5	1.5	0.4	3871 MCB	2	15	4.5	N/A	2.08

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	0.63 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/L1	N/A	N/A	N/A	0.33	N/A	N/A	>200	>200	>200	✓	0.65	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.38	N/A	N/A	>200	>200	>200	✓	0.70	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.29	N/A	N/A	>200	>200	>200	✓	0.62	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	0.25	N/A	N/A	>200	>200	>200	✓	0.54	N/A	N/A	N/A	NO
5/L1	N/A	N/A	N/A	0.34	N/A	N/A	>200	>200	>200	✓	0.69	N/A	N/A	N/A	NO
6/L1	0.58	0.58	0.85	0.36	N/A	N/A	>200	>200	>200	✓	0.94	69.5	22.9	✓	NO
7/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L1	0.67	0.69	1.12	0.45	N/A	N/A	>200	>200	>200	✓	0.75	N/A	N/A	N/A	NO
9/L1	N/A	N/A	N/A	0.17	N/A	N/A	>200	>200	>200	✓	0.52	N/A	N/A	N/A	NO
10/L1	N/A	N/A	N/A	0.32	N/A	N/A	>200	>200	>200	✓	0.65	N/A	N/A	N/A	NO
11/L1	N/A	N/A	N/A	0.38	N/A	N/A	>200	>200	>200	✓	0.77	N/A	N/A	N/A	NO
12/L1	N/A	N/A	N/A	0.27	N/A	N/A	>200	>200	>200	✓	0.62	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	Boiler house Crabtree C50	Supply to distribution board is from	SubMains(DB M, 2/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
Distribution board designation	DB 4	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating 60 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/L3	Lighting, laundry & WC	D	B	4	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
2/L3	Lighting, corridor	D	B	5	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	Extract Fan, kitchen	D	B	1	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
5/L3	Lighting, dining rooms	D	B	3	1.5	1.5	0.4	3871 MCB	2	7.5	4.5	N/A	Lim
6/L3	Lighting, dining rooms	D	B	3	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
7/L3	Lighting, dining rooms	D	B	3	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
8/L3	Lighting, kitchen stores	D	B	3	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
9/L3	Lighting, Kitchen wash up area	D	B	2	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
10/L3	Lighting, Kitchen	D	B	6	1.5	1.5	0.4	3871 MCB	2	5	4.5	N/A	6.24
11/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	Lighting, boiler house	D	B	4	1.5	MW	0.4	3871 MCB	2	5	4.5	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	0.63 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	0.51	N/A	N/A	Lim	>200	>200	✓	0.84	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.55	N/A	N/A	Lim	>200	>200	✓	0.89	N/A	N/A	N/A	NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
5/L3	N/A	N/A	N/A	0.76	N/A	N/A	Lim	>200	>200	✓	1.16	N/A	N/A	N/A	NO
6/L3	N/A	N/A	N/A	0.78	N/A	N/A	Lim	>200	>200	✓	1.20	N/A	N/A	N/A	NO
7/L3	N/A	N/A	N/A	0.77	N/A	N/A	Lim	>200	>200	✓	1.24	N/A	N/A	N/A	NO
8/L3	N/A	N/A	N/A	0.44	N/A	N/A	Lim	>200	>200	✓	0.78	N/A	N/A	N/A	NO
9/L3	N/A	N/A	N/A	0.48	N/A	N/A	Lim	>200	>200	✓	0.81	N/A	N/A	N/A	NO
10/L3	N/A	N/A	N/A	0.52	N/A	N/A	Lim	>200	>200	✓	0.75	N/A	N/A	N/A	NO
11/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	N/A	N/A	N/A	0.33	N/A	N/A	Lim	>200	>200	✓	0.66	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 photocopier room BILL	Supply to distribution board is from	SubMains(Main Panel, 2/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB C	Type BS(EN)	3036 Fuse (SE)	Rating 60 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	Lighting, external (day room side)	H	C	LIM	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
2/L1	Socket, lighting inverter	H	C	1	1.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim
3/L1	Socket, Entrance lobby	D/H	B/C	1	2x1.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	Lighting, office, WCs & photocopy room	D	B	4	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
7/L1	Lighting, sitting room rows 1 & 2	D	B	4	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
8/L1	Lighting, sitting room row 3 & walls	D	B	4	1.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim
9/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	Lighting, day room	D	B	12	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
12/L1	Lighting, small lounge	D	B	7	1.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.31 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.79 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.10	N/A	N/A	>200	>200	>200	✓	0.40	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.41	N/A	N/A	>200	>200	>200	✓	0.66	N/A	N/A	N/A	NO
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	N/A	N/A	N/A	0.66	N/A	N/A	Lim	>200	>200	✓	0.89	N/A	N/A	N/A	NO
7/L1	N/A	N/A	N/A	0.52	N/A	N/A	Lim	>200	>200	✓	0.78	N/A	N/A	N/A	NO
8/L1	N/A	N/A	N/A	0.58	N/A	N/A	Lim	>200	>200	✓	0.85	N/A	N/A	N/A	NO
9/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	N/A	N/A	N/A	0.78	N/A	N/A	Lim	>200	>200	✓	1.15	N/A	N/A	N/A	NO
12/L1	N/A	N/A	N/A	1.12	N/A	N/A	Lim	>200	>200	✓	1.40	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 sluice room adjacent room 18 BILL	Supply to distribution board is from	SubMains(Main Panel, 2/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
Distribution board designation	DB F	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3036 Fuse (SE)	Rating 60 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	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L2	Sockets, rooms 14, 15, corridor & door magnets	D	B	12	2x2.5	2x2.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
3/L2	Sockets, rooms 16, 17, 17A & 18	D	B	20	2x2.5	2x2.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
4/L2	Sockets, rooms 16A & 16B	H	C	10	2x1.5	MICC	0.4	3036 Fuse (SE)		15	4	N/A	2.43
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	RCD FCU for Arjo bath supply	A	C	1	2.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.30 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L2	0.71	0.73	0.54	0.30	N/A	N/A	>200	>200	>200	✓	0.57	N/A	N/A	N/A	NO
3/L2	1.05	1.08	0.74	0.43	N/A	N/A	>200	>200	>200	✓	0.71	N/A	N/A	N/A	NO
4/L2	1.22	1.23	Lim	0.46	N/A	N/A	>200	>200	>200	✓	0.73	N/A	N/A	N/A	NO
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	N/A	N/A	N/A	0.15	N/A	N/A	>200	>200	>200	✓	0.432	N/A	N/A	N/A	YES

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	1st floor linen store BILL	Supply to distribution board is from	SubMains(Main Panel, 2/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB I	Type BS(EN)	3036 Fuse (SE)	Rating 60 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/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	Lighting, corridor	D	B	9	1.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
3/L3	Lighting, staff flat	D	B	6	2x1.5	2x1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	Lighting, bedrooms 3, 4, 5	D	B	4	2x2.5	2x1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim
7/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/L3	Lighting, bedrooms 1 & 2	D	B	2	2x2.5	2x1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim
10/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	Lighting, linen store & WCs	D	B	5	1.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim
12/L3	Socket, tank room	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.31 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.80 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	N/A	N/A	N/A	0.95	N/A	N/A	>200	>200	>200	✓	1.19	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	0.64	N/A	N/A	>200	>200	>200	✓	0.91	N/A	N/A	N/A	NO
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	N/A	N/A	N/A	0.58	N/A	N/A	>200	>200	>200	✓	0.82	N/A	N/A	N/A	NO
7/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L3	N/A	N/A	N/A	0.44	N/A	N/A	>200	>200	>200	✓	0.71	N/A	N/A	N/A	NO
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	N/A	N/A	N/A	0.29	N/A	N/A	>200	>200	>200	✓	0.59	N/A	N/A	N/A	NO
12/L3	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 photocopier room Merlin Gerin	Supply to distribution board is from	SubMains(Main Panel, 3/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB B	Type BS(EN)	3036 Fuse (SE)	Rating 60 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/L1	Untraced Circuit	D	B	LIM	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.73
2/L1	Untraced Circuit	D	B	LIM	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.73
3/L1	Sockets, Lounge	D	B	6	2x2.5	2x1.5	0.4	60898 MCB	B	32	6	N/A	1.37
4/L1	Sockets, Office	A	B	8	2x2.5	2x1.5	0.4	61009 RCD/RCBO	B	32	6	30	1.37
5/L1	Socket, medical room & nurse call PSU	A	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.73
6/L1	Socket, Photocopier	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	30	2.73

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.31 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.79 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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 MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			At I Δ n ms	At 5I Δ n ms	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)										
1/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
3/L1	1.17	1.15	0.59	0.44	N/A	N/A	>200	>200	>200	✓	0.80	N/A	N/A	N/A	NO
4/L1	0.28	0.28	0.41	0.17	N/A	N/A	>200	>200	>200	✓	0.88	121.6	22.2	✓	NO
5/L1	N/A	N/A	N/A	0.28	N/A	N/A	>200	>200	>200	✓	0.63	N/A	N/A	N/A	NO
6/L1	N/A	N/A	N/A	0.12	N/A	N/A	>200	>200	>200	✓	0.52	43.2	9.3	✓	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 sluice room adjacent room 18 BILL	Supply to distribution board is from	SubMains(Main Panel, 3/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit		BS(EN)	N/A
Distribution board designation	DB G	Type BS(EN)	3036 Fuse (SE)	RCD No of Poles	N/A
		Rating	60 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	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L2	Lighting, sluice room, bathroom, WCs & bedrooms 14 & 15	D/H	B/C	9	2x1.5	1.5/M	0.4	3036 Fuse (SE)		5	4	N/A	9.10
3/L2	Lighting, bedrooms 16, 17, 17A & 18	D/H	B	5	2x1.5	1.5/M	0.4	3036 Fuse (SE)		5	4	N/A	9.10
4/L2	Lighting, corridor	D	B	6	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
5/L2	Lighting, bedrooms 16A & 16B	H	C	2	1.5	MICC	0.4	3036 Fuse (SE)		5	4	N/A	9.10
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.30 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.78 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L2	N/A	N/A	N/A	0.36	N/A	N/A	Lim	>200	>200	✓	0.62	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	0.55	N/A	N/A	Lim	>200	>200	✓	0.82	N/A	N/A	N/A	NO
4/L2	N/A	N/A	N/A	0.78	N/A	N/A	Lim	>200	>200	✓	1.01	N/A	N/A	N/A	NO
5/L2	N/A	N/A	N/A	0.69	N/A	N/A	Lim	>200	>200	✓	0.98	N/A	N/A	N/A	NO
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	1st floor linen store BILL	Supply to distribution board is from	SubMains(Main Panel, 3/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB H	Type BS(EN)	3036 Fuse (SE)	Rating 60 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	Sockets, Staff flat	D	B	7	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
2/L3	Sockets, Bedrooms 1 & 2	D	B	8	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
3/L3	Untraced Circuit	H	C	LIM	2.5	MICC	0.4	3036 Fuse (SE)		10	4	N/A	Lim
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	Sockets, Corridor, door magnets & bedrooms 3, 4 & 5	D	B	14	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
8/L3	Sub Mains(DB Shower Room)	A	B	1	2.5	1.5	5	3036 Fuse (SE)		15	4	N/A	5.08
9/L3	Electric fire, staff flat	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
10/L3	Untraced Circuit	A	B	LIM	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
11/L3	Untraced Circuit	A	B	LIM	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
12/L3	Untraced Circuit	H	C	LIM	1.5	MICC	0.4	3036 Fuse (SE)		10	4	N/A	Lim

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265083 - Master

Board Tests

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

Zs	0.31 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.80 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	0.81	0.83	0.52	0.33	N/A	N/A	>200	>200	>200	✓	0.63	N/A	N/A	N/A	NO
2/L3	0.58	0.60	0.42	0.25	N/A	N/A	>200	>200	>200	✓	0.53	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	0.89	0.89	0.67	0.39	N/A	N/A	>200	>200	>200	✓	0.75	N/A	N/A	N/A	NO
8/L3	N/A	N/A	N/A	0.01	N/A	N/A	>200	>200	>200	✓	0.32	N/A	N/A	N/A	NO
9/L3	N/A	N/A	N/A	0.33	N/A	N/A	>200	>200	>200	✓	0.60	N/A	N/A	N/A	NO
10/L3	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
11/L3	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
12/L3	N/A	N/A	N/A	Lim	N/A	N/A	>2Lim00	>200	>200		Lim	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 lift motor room BILL	Supply to distribution board is from	SubMains(Main Panel, 4/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB 2	Type BS(EN)	3036 Fuse (SE)	Rating 60 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	Untraced Circuit	D	B	LIM	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
2/L1	Lighting, main entrance lobby	D	B	8	1.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
3/L1	Lighting, external entrance canopy	D	B	3	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
4/L1	Lighting, canopy emergency	H	B	1	1.5	MICC	0.4	3036 Fuse (SE)		5	4	N/A	9.10
5/L1	FCU, call system	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
6/L1	Lighting, lift car	D	B	1	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
7/L1	Lighting, lift motor room & sitting area	D	B	8	2x1.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
8/L1	Socket, sitting room	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
9/L1	TV socket, sitting room	A	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
10/L1	Fire Alarm	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
11/L1	Socket, Em lighting inverters	A	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
12/L1	Sockets, External 5A sockets	H	B	2	1.5	MICC	0.4	3036 Fuse (SE)		10	4	N/A	Lim

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265083 - Master

Board Tests

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

Zs	0.28 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.82 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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 MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			At I Δ n ms	At 5I Δ n ms	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)										
1/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.60	N/A	N/A	Lim	>200	>200	✓	0.84	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.69	N/A	N/A	Lim	>200	>200	✓	0.91	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	0.44	N/A	N/A	Lim	>200	>200	✓	0.67	N/A	N/A	N/A	NO
5/L1	N/A	N/A	N/A	0.15	N/A	N/A	>200	>200	>200	✓	0.52	N/A	N/A	N/A	NO
6/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
7/L1	N/A	N/A	N/A	0.54	N/A	N/A	Lim	>200	>200	✓	0.78	N/A	N/A	N/A	NO
8/L1	N/A	N/A	N/A	0.32	N/A	N/A	>200	>200	>200	✓	0.60	N/A	N/A	N/A	NO
9/L1	N/A	N/A	N/A	0.35	N/A	N/A	>200	>200	>200	✓	0.61	N/A	N/A	N/A	NO
10/L1	N/A	N/A	N/A	0.41	N/A	N/A	>200	>200	>200	✓	0.61	N/A	N/A	N/A	NO
11/L1	N/A	N/A	N/A	0.16	N/A	N/A	>200	>200	>200	✓	0.40	N/A	N/A	N/A	NO
12/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 hair salon BILL	Supply to distribution board is from	SubMains(Main Panel, 4/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB D	Type BS(EN) 3036 Fuse (SE)	Rating 60 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	Sockets, rooms 21 & 25	D	B	8	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
2/L2	Sockets, rooms 19, 20, corridor & Door magnet PSU	D	B	10	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
3/L2	Socket, Corridor	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
4/L2	Sockets, rooms 22, 23 & 23A	D	B	10	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
5/L2	Sockets, Hair Salon	D	B	2	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
6/L2	Arjo bath supply	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		5	4	30	9.10
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.33 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.73 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	0.80	0.80	0.66	0.37	N/A	N/A	>200	>200	>200	✓	0.59	N/A	N/A	N/A	NO
2/L2	0.74	0.76	0.62	0.34	N/A	N/A	>200	>200	>200	✓	0.57	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	0.15	N/A	N/A	>200	>200	>200	✓	0.44	N/A	N/A	N/A	NO
4/L2	0.84	0.85	0.69	0.24	N/A	N/A	>200	>200	>200	✓	0.62	N/A	N/A	N/A	NO
5/L2	N/A	N/A	N/A	0.30	N/A	N/A	>200	>200	>200	✓	0.57	N/A	N/A	N/A	NO
6/L2	N/A	N/A	N/A	0.30	N/A	N/A	>200	>200	>200	✓	0.88	18.4	18.0	✓	NO
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	1st floor linen store Merlin Gerin	Supply to distribution board is from	SubMains(DB H, 8/L3)	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 Shower Room	Type BS(EN)	3036 Fuse (SE)	Rating 15 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/L3	Lighting & fan, shower room	A	B	2	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
2/L3	Pump FCU, linen cupboard	A	B	1	2.5	1.5	0.4	60898 MCB	B	16	10	N/A	2.73

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.32 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.77 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/L3	N/A	N/A	N/A	0.25	N/A	N/A	Lim	>200	>200	✓	0.55	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.11	N/A	N/A	>200	>200	>200	✓	0.42	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	1st floor linen store adjacent room 10 BILL	Supply to distribution board is from	SubMains(Main Panel, 4/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB J	Type BS(EN)	3036 Fuse (SE)	Rating 60 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/L3	Emergency Lighting inverter	H	C	1	1.5	MICC	0.4	3036 Fuse (SE)		10	4	N/A	Lim
2/L3	Sockets, Adjacent sinks in bedrooms 6 & 7	D	B	2	2x2.5	2x1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
3/L3	Sockets, Bedroom 13	D	B	4	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
4/L3	Sockets, Bedroom 6, 7 & 10 corridor side	D	B	3	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
5/L3	Sockets, Bedroom 12 corridor side & door magnets	D	B	3	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
6/L3	Sockets, Bedroom 8 far wall	D	B	2	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
7/L3	Sockets, Bedrooms 11, 12 & 13 bed walls	D	B	3	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
8/L3	Socket, room adjacent linen cupboard	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
9/L3	Socket, adjacent sink in room 10	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
10/L3	Socket, adjacent door in room 10, corridor socket & room 11 PSU	D	B	1	2x2.5	2x1.5	0.4	3036 Fuse (SE)		15	4	N/A	2.43
11/L3	Socket, bedroom 11 corridor side	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
12/L3	Hoist, bathroom	D	B	1	2.5	1.5	0.4	3036 Fuse (SE)		10	4	30	Lim

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265083 - Master

Board Tests

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

Zs	0.33 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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 MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			At I Δ n ms	At 5I Δ n ms	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)										
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/L3	0.58	0.59	0.52	0.27	N/A	N/A	>200	>200	>200	✓	0.55	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	0.44	N/A	N/A	>200	>200	>200	✓	0.69	N/A	N/A	N/A	NO
4/L3	0.68	0.69	0.72	0.34	N/A	N/A	>200	>200	>200	✓	0.65	N/A	N/A	N/A	NO
5/L3	N/A	N/A	N/A	0.41	N/A	N/A	>200	>200	>200	✓	0.63	N/A	N/A	N/A	NO
6/L3	0.38	0.39	0.42	0.20	N/A	N/A	>200	>200	>200	✓	0.52	N/A	N/A	N/A	NO
7/L3	0.74	0.74	0.66	0.35	N/A	N/A	>200	>200	>200	✓	0.70	N/A	N/A	N/A	NO
8/L3	N/A	N/A	N/A	0.24	N/A	N/A	>200	>200	>200	✓	0.55	N/A	N/A	N/A	NO
9/L3	N/A	N/A	N/A	0.18	N/A	N/A	>200	>200	>200	✓	0.47	N/A	N/A	N/A	NO
10/L3	0.44	0.41	0.46	0.22	N/A	N/A	>200	>200	>200	✓	0.52	N/A	N/A	N/A	NO
11/L3	N/A	N/A	N/A	0.31	N/A	N/A	>200	>200	>200	✓	0.58	N/A	N/A	N/A	NO
12/L3	N/A	N/A	N/A	0.37	N/A	N/A	>200	>200	>200	✓	0.69	17.9	8.4	✓	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 lift motor room BILL	Supply to distribution board is from	SubMains(Main Panel, 5/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB 3	Type BS(EN)	3036 Fuse (SE)	Rating 20 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/L1	Convector fan, main entrance	D	B	1	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
2/L1	Convector fan, lounge	D	B	1	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
3/L1	Convector fans, dining room	D	B	2	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	Convector fan, lounge	D	B	1	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
7/L1	Convector fan, sitting room	D	B	1	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
8/L1	Convector fan, small lounge	D	B	1	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265083 - Master

Board Tests

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

Zs	0.30 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.77 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/L1	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	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	N/A	N/A	N/A	Lim	N/A	N/A	Lim	>200	>200		Lim	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	Lim	N/A	N/A	Lim	>200	>200		Lim	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 hair salon BILL	Supply to distribution board is from	SubMains(Main Panel, 5/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB E	Type BS(EN) 3036 Fuse (SE)	Rating 60 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	Lighting, hair salon, bedroom 25 & store room	D/A	B	5	2x1.5	1.5/1	0.4	3036 Fuse (SE)		10	4	N/A	Lim
2/L2	Lighting, rooms 19, 20, bathroom & WC	D/H	B	4	2x1.5	1.5/M	0.4	3036 Fuse (SE)		10	4	N/A	Lim
3/L2	Lighting, bedroom 21	D/H	B	2	2x1.5	1.5/M	0.4	3036 Fuse (SE)		10	4	N/A	Lim
4/L2	Lighting, corridor	D	B	6	1.5	1.5	0.4	3036 Fuse (SE)		10	4	N/A	Lim
5/L2	Lighting, bedrooms 22 & 23	D/H	B	4	2x1.5	1.5/M	0.4	3036 Fuse (SE)		5	4	N/A	9.10
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.33 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.77 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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	0.66	N/A	N/A	Lim	>200	>200	✓	1.08	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	0.84	N/A	N/A	Lim	>200	>200	✓	1.31	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	0.95	N/A	N/A	Lim	>200	>200	✓	1.34	N/A	N/A	N/A	NO
4/L2	N/A	N/A	N/A	1.27	N/A	N/A	Lim	>200	>200	✓	1.58	N/A	N/A	N/A	NO
5/L2	N/A	N/A	N/A	1.19	N/A	N/A	Lim	>200	>200	✓	1.42	N/A	N/A	N/A	NO
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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	1st floor linen store adjacent room 10 BILL	Supply to distribution board is from	SubMains(Main Panel, 5/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit		BS(EN)	N/A
Distribution board designation	DB K	Type BS(EN)	3036 Fuse (SE)	RCD No of Poles	N/A
		Rating	60 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	Lighting, Staircase & bedrooms 6 & 7	H	C	5	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	Lighting, corridor	D	B	9	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	Lighting, bedrooms 8, 9, 10 & linen cupboard	D/H	B/C	4	2x1.5	1.5/M	0.4	3036 Fuse (SE)		5	4	N/A	9.10
6/L3	Lighting, bedrooms 11, 12 & 13	D/H	B/C	3	2x1.5	1.5/M	0.4	3036 Fuse (SE)		5	4	N/A	9.10
7/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	Lighting, bathroom & WCs	D	B	6	1.5	1.5	0.4	3036 Fuse (SE)		5	4	N/A	9.10
9/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.33 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/L3	N/A	N/A	N/A	0.66	N/A	N/A	Lim	>200	>200	✓	0.97	N/A	N/A	N/A	NO
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	N/A	N/A	N/A	1.33	N/A	N/A	Lim	>200	>200	✓	1.55	N/A	N/A	N/A	NO
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	N/A	N/A	N/A	0.74	N/A	N/A	Lim	>200	>200	✓	1.03	N/A	N/A	N/A	NO
6/L3	N/A	N/A	N/A	0.89	N/A	N/A	Lim	>200	>200	✓	1.15	N/A	N/A	N/A	NO
7/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	N/A	N/A	N/A	0.82	N/A	N/A	Lim	>200	>200	✓	1.10	N/A	N/A	N/A	NO
9/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 Crabtree C50	Supply to distribution board is from	SubMains(Main Panel, 8/TP)	Associated RCD (if any)	
		No of phases	3	Nominal Voltage 400 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB L	Type BS(EN) 3036 Fuse (SE)	Rating 60 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 mm2	cpc mm2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I Δn	
1/L1	Washing Machine isolator, laundry	H	C	1	2.5	MICC	0.4	3871 MCB	2	30	3	N/A	1.04
1/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
1/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	Single socket, laundry	H	C	1	2.5	MICC	0.4	3871 MCB	2	15	4.5	N/A	2.08
2/L2	Single socket, laundry wall behind DB	H	C	1	2.5	MICC	0.4	3871 MCB	2	15	4.5	N/A	2.08
2/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Door magnet PSU	A	C	1	2.5	1.5	0.4	3871 MCB	2	15	4.5	N/A	2.08
3/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	Socket, dining room toaster	A	C	1	4	1.5	0.4	3871 MCB	2	20	4.5	N/A	1.56
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/TP	Washing Machine isolator, adjacent DB	H	C	1	4	MICC	0.4	3871 MCB	2	20	3	N/A	1.56
6/L1	Sub Mains(DB L/6L1)	H	C	1	4	MICC	5	3871 MCB	2	60	4.5	N/A	0.52
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265083 - 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	1.3	kA		At 5I Δ n	N/A ms
Correct supply polarity confirmed	✓		Phase sequence confirmed (where appropriate)		✓

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/L1	N/A	N/A	N/A	0.16	N/A	N/A	>200	>200	>200	✓	0.51	N/A	N/A	N/A	NO
1/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	N/A	N/A	N/A	0.18	N/A	N/A	>200	>200	>200	✓	0.54	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	0.10	N/A	N/A	>200	>200	>200	✓	0.47	N/A	N/A	N/A	NO
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	N/A	N/A	N/A	0.02	N/A	N/A	>200	>200	>200	✓	0.39	N/A	N/A	N/A	NO
3/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	N/A	N/A	N/A	0.21	N/A	N/A	>200	>200	>200	✓	0.55	N/A	N/A	N/A	NO
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/TP	N/A	N/A	N/A	0.06	N/A	>200	>200	>200	>200	✓	0.44	N/A	N/A	N/A	NO
6/L1	N/A	N/A	N/A	0.03	N/A	N/A	>200	>200	>200	✓	0.40	N/A	N/A	N/A	NO
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 Contactum	Supply to distribution board is from	SubMains(DB L, 6/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 400 V	BS(EN) N/A
Distribution board designation	DB L/6L1	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3871 MCB 2	Rating 60 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/L1	Tumble Dryer 1 (Bottom)	O	E	1	2.5	2.5	0.4	60898 MCB	B	32	6	N/A	1.37
2/L1	Tumble Dryer 2 (Top)	O	E	1	2.5	2.5	0.4	60898 MCB	B	32	6	N/A	1.37
3/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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Board Tests

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

Zs	0.40 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.58 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	3443025	RCD	3443025
Insulation resistance	3443025	Other	N/A
Continuity	3443025	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/L1	N/A	N/A	N/A	0.04	N/A	N/A	>200	>200	>200	✓	0.44	N/A	N/A	N/A	YES
2/L1	N/A	N/A	N/A	0.04	N/A	N/A	>200	>200	>200	✓	0.44	N/A	N/A	N/A	YES
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Lee Harrison	Date of testing	22/08/2018

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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 cannot 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 " Untraced circuit " 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

Equipment and accessories above a height of 3m have been visually inspected and, where possible, insulation resistance tested only
Due to inability to access all terminations, and to isolate all circuits, number of points may not be entirely accurate.

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

configuration. Wired from the cut out are the 25mm CSA copper conductors, which feed the main section panel. The main section panel is an 8 way panel manufactured by BILL, with BS 3036 re-wireable fuses used as over current protection. Wired from the section panel are all the distribution circuits throughout the installation. Ze and Ipf where ascertained from the load side of the main switch within the section panel.

The MET is located in the ground floor lift motor 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 could not be located. The main gas intake is located in the boiler house and has been adequately bonded with a 16mm conductor.

The building is used for commercial purposes 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.

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	Location: Main Panel Regulation: 543.2.2 (iii)	
3	Observation: Braided VIR cables are still in use Location: Main panel, circuits 4L1 & 6TP Regulation no: 132.1.1	C3
4	Observation: All untraced circuits should have their designations verified Location: DB 2, circuit 1 Regulation: 514.8.1	FI
5	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB 2, circuit 8 Regulation: 411.3.3	C3
6	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB 2, circuit 9 Regulation: 411.3.3	C3
7	Observation: RCD protection shall be provided for circuits supplying socket outlets up to 32A that could potentially be used to supply portable appliances outside. Location: DB 2, circuit 12 Regulation: 411.3.3 (ii)	C2
8	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB 2, circuit 11 Regulation: 411.3.3	C3
9	Observation: Multiple circuits in the over current protective device.	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	Location: DB 2, circuit 7 Regulation: 314.4 & 521.8.2	
10	Observation: DB has no main Switch for local Isolation. Location: DB D in ground floor hair salon Regulation: 537.2.2.1	C3
11	Observation: DB has no main Switch for local Isolation. Location: DB E in ground floor hair salon Regulation: 537.2.2.1	C3
12	Observation: Live parts accessible when door is opened due to missing internal shield. Location: DB E in ground floor hair salon Regulation: 416.2	C2
13	Observation: There are low voltage circuits serving / passing through zones 1 / 2 of locations containing a bath / shower. It is recommended that 30mA RCDs are installed to provide additional protection. Location: DB E, circuit 2 Regulation: 701.411.3.3.	C3
14	Observation: No discrimination between RCDs. 30mA RCD below DB in hair salon & 30mA RCD FCU outside bathroom. Location: DB D, circuit 6 Regulation: 531.2.9	C3
15	Observation: All untraced circuits should have their designations verified Location: DB B, circuit 1 Regulation: 514.8.1	FI
16	Observation: All untraced circuits should have their designations verified Location: DB B, circuit 2 Regulation: 514.8.1	FI
17	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB B, circuit 3 Regulation: 411.3.3	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
18	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB B, circuit 5 Regulation: 411.3.3	C3
19	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB C, circuit 2 Regulation: 411.3.3	C3
20	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB C, circuit 3 Regulation: 411.3.3	C3
21	Observation: DB has no main Switch for local Isolation. Location: DB C in ground floor photocopy room Regulation: 537.2.2.1	C3
22	Observation: The main protective bonding conductor to the gas service is not within 600mm of the point of entry and is after a branch in the pipework. Location: Boiler house Regulation: 544.1.2	C3
23	Observation: DB has no main Switch for local Isolation. Location: DB M in boiler house Regulation: 537.2.2.1	C3
24	Observation: Live parts accessible when door is opened due to missing internal shield. Location: DB M in boiler house Regulation: 416.2	C2
25	Observation: Live parts accessible when door is opened due to fuse carriers missing from spare ways. Location: DB M in boiler house	C2

Code Key

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

C2 - Potentially dangerous - urgent remedial action required

C3 - Improvement recommended

FI - Further investigation required without delay

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	Regulation: 416.2	
26	Observation: There is no earth bar inside the distribution board. CPCs of circuits are terminated to a common bolt and could potentially come loose. Location: DB M in boiler house Regulation: 543.2.2 (iii)	C2
27	Observation: Braided VIR cables are still in use Location: DB M, circuits 2L1 & 2L3 Regulation no: 132.1.1	C3
28	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB 5, circuit 1 Regulation: 411.3.3	C3
29	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB 5, circuit 2 Regulation: 411.3.3	C3
30	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB 5, circuit 5 Regulation: 411.3.3	C3
31	Observation: Multiple circuits in the over current protective device. Location: DB 5, circuit 5 Regulation: 314.4 & 521.8.2	C3
32	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required.	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	Location: DB 5, circuit 8 Regulation: 411.3.3	
33	Observation: Over rated over current protective device in relation to the current carrying capacity of the connected cables. 2.5mm Butyl rubber flex protected by 32A device. Location: DB L/6L1, circuit 1 Regulation: 433.1.1	C2
34	Observation: Over rated over current protective device in relation to the current carrying capacity of the connected cables. 2.5mm Butyl rubber flex protected by 32A device. Location: DB L/6L1, circuit 2 Regulation: 433.1.1	C2
35	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB L, circuit 2L1 Regulation: 411.3.3	C3
36	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB L, circuit 2L2 Regulation: 411.3.3	C3
37	Observation: Over rated over current protective device in relation to the current carrying capacity of the connected cables. 4mm Mineral insulated cable protected by 60A device. Location: DB L, circuit 6L1 Regulation: 433.1.1	C2
38	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB L, circuit 4L1	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	Regulation: 411.3.3	
39	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB F, circuit 2 Regulation: 411.3.3	C3
40	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB F, circuit 3 Regulation: 411.3.3	C3
41	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB F, circuit 4 Regulation: 411.3.3	C3
42	Observation: There are low voltage circuits serving / passing through zones 1 / 2 of locations containing a bath / shower. It is recommended that 30mA RCDs are installed to provide additional protection. Location: DB G, circuit 2 Regulation: 701.411.3.3.	C3
43	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB I, circuit 12 Regulation: 411.3.3	C3
44	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB H, circuit 1 Regulation: 411.3.3	
45	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB H, circuit 2 Regulation: 411.3.3	C3
46	Observation: All untraced circuits should have their designations verified Location: DB H, circuit 3 Regulation: 514.8.1	FI
47	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB H, circuit 7 Regulation: 411.3.3	C3
48	Observation: All untraced circuits should have their designations verified Location: DB H, circuit 10 Regulation: 514.8.1	FI
49	Observation: All untraced circuits should have their designations verified Location: DB H, circuit 11 Regulation: 514.8.1	FI
50	Observation: All untraced circuits should have their designations verified Location: DB H, circuit 12 Regulation: 514.8.1	FI
51	Observation: There are low voltage circuits serving / passing through zones 1 / 2 of locations containing a bath / shower. It is recommended that 30mA RCDs are installed to provide additional protection. Location: DB Shower Room, circuit 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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	Regulation: 701.411.3.3.	
52	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 2 Regulation: 411.3.3	C3
53	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 3 Regulation: 411.3.3	C3
54	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 4 Regulation: 411.3.3	C3
55	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 5 Regulation: 411.3.3	C3
56	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 6 Regulation: 411.3.3	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
57	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 7 Regulation: 411.3.3	C3
58	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 8 Regulation: 411.3.3	C3
59	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 9 Regulation: 411.3.3	C3
60	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 10 Regulation: 411.3.3	C3
61	Observation: There is no additional 30mA RCD protection for circuits supplying socket outlets not exceeding 32A. It is recommended that 30mA RCDs are installed to provide additional protection. This requirement can be negated for non-domestic installations by the provision of a documented risk assessment stating the reasons that RCD protection is not required. Location: DB J, circuit 11 Regulation: 411.3.3	C3
62	Observation: There are low voltage circuits serving / passing through zones 1 / 2 of locations containing a bath /	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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

Observations Continued from Page 2

Item No	Description	Code
	shower. It is recommended that 30mA RCDs are installed to provide additional protection. Location: DB K, circuit 8 Regulation: 701.411.3.3.	
63	Observation: DB has no main Switch for local Isolation. Location: DB J in 1st floor linen store adjacent room 10 Regulation: 537.2.2.1	C3
64	Observation: DB has no main Switch for local Isolation. Location: DB K in 1st floor linen store adjacent room 10 Regulation: 537.2.2.1	C3
65	Observation: DB has no main Switch for local Isolation. Location: DB H in 1st floor linen store adjacent shower room Regulation: 537.2.2.1	C3
66	Observation: DB has no main Switch for local Isolation. Location: DB I in 1st floor linen store adjacent shower room Regulation: 537.2.2.1	C3
67	Observation: DB has no main Switch for local Isolation. Location: DB F in ground floor sluice room Regulation: 537.2.2.1	C3
68	Observation: DB has no main Switch for local Isolation. Location: DB G in ground floor sluice room Regulation: 537.2.2.1	C3
69	Observation: Unable to locate and verify that the Main Protective Bonding Conductor is present at the main incoming water service. Regulation: 411.3.1.2	FI

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

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

DB F, 12/L2, RCD FCU for Arjo bath supply - Remarks

RCD FCU trip times:

X1 = 18.9mS

x5 = 9.4mS

DB L/6L1, 1/L1, Tumble Dryer 1 (Bottom) - Remarks

'O' cable type is butyl rubber flex

DB L/6L1, 2/L1, Tumble Dryer 2 (Top) - Remarks

'O' cable type is butyl rubber flex

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd

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.

Copyright © Amtech Group Ltd 2016, FastTest v2016.1.3, Lantei Ltd