Block H

ELECTRICAL INSTALLATION CONDITION REPORT

ELECSA Part of the ECA Group

Certificate number: [ ] Registration number: 31188 (optional) Sheet [ ] of [ ]

SECTION A: DETAILS OF THE CLIENT / PERSON ORDERING THE REPORT

Name ... FLAGSHIP ... Address ... KESWICK HALL ... KESWICK NORWICH

SECTION B: REASON FOR PRODUCING THIS REPORT

Date(s) on which inspection and testing was carried out ...

SECTION C: DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Occupier ... Student ACCOMMODATION

Address ... BLOCK H TRIPOS COURT, HOMERTON STREET, CAMBRIDGE, CB2 8NY

Description of premises (tick as appropriate)

Domestic [ ] Commercial [ ] Industrial [ ] Other (include brief description) RESIDENTIAL student accommodation

Estimated age of wiring system ... 15 ... years

Evidence of additions / alterations Yes [✓] No [ ] Not apparent [ ] If yes, estimate age Various ... years

Installation records available? (Regulation 621.1) Yes [ ] No [✓] Date of last inspection .. JUNE 2009 .. (date)

SECTION D: EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of electrical installation covered by this report ... All FIXED WIRING ...

Agreed limitations including the reasons (see Regulation 634.2) ... 100% of all Students ROOMS, 10% of all Communal areas ...

Agreed with: ...

Operational limitations including the reasons (see page no. ...) ...

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671:2008 (IET Wiring Regulations) as amended to ...

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 inspection.

SECTION E: SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety) .. Good when all Remedial works Rectified ...

Overall assessment of the installation in terms of its suitability for continued use ~~SATISFACTORY~~ / UNSATISFACTORY * (delete as appropriate)
An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified

SECTION F: RECOMMENDATIONS

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I/we recommend that any observations classed 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'* Observations classified as *'Improvements recommended'* (code C3) should be given due consideration. Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by ... Jan 15 ... (date)

SECTION G: DECLARATION

I/We being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, 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 the 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.

Inspected and tested by:

Name (CAPITALS): A. MOFFATT

Signature: A. Moffatt

For/on behalf of: Blue Flame Services

Position: A. Moffatt

Address: 2 Commerce Park, Whitehall Road, Colchester, Essex, CO2 8HX Date: 11/9/14

Report authorised for issue by:

Name (CAPITALS): G. GILBERT

Signature: G. Gilbert

For/on behalf of: Blue Flame Services

Position: QA

Address: 2 Commerce Park, Whitehall Road, Colchester, Essex, CO2 8HX Date: 16/10/14

SECTION H: SCHEDULE(S)

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

ELECTRICAL INSTALLATION CONDITION REPORT

ELECSA Part of the ECA Group

Sheet [ ] of [ ]

SECTION I: SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing arrangements	Number and type of live conductors	Nature and type of supply parameters	Supply protective device
TN-C ☐	a.c. ☑ d.c. ☐	Nominal voltage, U / U_0 (1) ... 400 / 230 ... V	BS (EN) ... 60947-2
TN-S ☐	1-phase, 2 wire ☐ 2-wire ☐	Nominal frequency, f (1) ... 50 ... Hz	
TN-C-S ☑	2-phase, 3 wire ☐ 3-wire ☐	Prospective fault current, I_{pf} (2) ... 2.4 ... kA	Type ... —
TT ☐	3-phase, 3 wire ☐	External loop impedance, Ze (2) ... 0.06 ... Ω	
IT ☐	3-phase, 4 wire ☑	Note: (1) by enquiry (2) by enquiry or measurement	Rated current ... 250 ... A
	Confirmation of supply polarity ☑		

Other sources of supply (as detailed on attached schedule) ☐

SECTION J: PARTICULARS OF INSTALLATION REFERRED TO IN REPORT

Means of earthing	Details of Earth Electrode (where applicable)
Distributor's facility ☑	Type ...
Installation earth electrode ☐	Location ...
	Resistance to earth ... Ω

Main protective conductors

Earthing conductor	Material ... Copper ...	Csa ... 35 ... mm²	Connection/continuity verified ☑
Main protective bonding conductors	Material ... Copper ...	Csa ... 35 ... mm²	Connection/continuity verified ☑
To incoming water service ☑	To incoming gas service ☐	To incoming oil service ☐	To structural steel ☐
To lightning protection ☐	To other incoming service(s) ☐	Specify ...	

Main switch / switch fuse / circuit breaker / RCD

Location ... BLOCK H GROUND FLOOR UNDER STAIRS CUPBOARD	Current rating ... 250 ... A	If RCD main switch
BS (EN) ... 60947-2	Fuse / device rating or setting ... 32 kA	Rated residual operating current (IΔn) ... mA
No. of poles ... 4	Voltage rating ... 415 ... V	Rated time delay ... ms
		Measured operating time (at IΔn) ... ms

SECTION K: OBSERVATIONS

Referring to the attached schedules of inspection and test results, and subject to the limitations specified in the *Extent and Limitations of Inspection and testing section*

No remedial action is required ☐ The following observations are made: ☑ (See below)

	Observation(s)	Classification code	Further investigation required (YES/NO)
1	DISTRIBUTION BOARDS NOT LABELLED :- LANDLORDS	C3	
2	DB H1 CIRCUIT 3L1 NO CONTINUITY ON RING N-N	C2	YES
3	DB H1 COOKER CIRCUITS 1L1 + 2L2 WRONG POLARITY L-N REVERSE	C3	
4	WALL LIGHT IN ROOM H2 NOT FIXED SECURELY	C3	
5	BROKEN DOUBLE SOCKET H10 + H8	C2	
6	LIGHT HALL H7 - 12 NOT SECURELY FIXED	C3	
7	DB H3 COOKER CIRCUITS WRONG POLARITY IN ISOLATOR	C3	
8	BROKEN DOUBLE SOCKET ROOM H17	C2	
9	DIFFUSER MISSING H25-30 KITCHEN LIGHT		
10	NO EARTH AT DVG HALF DOUBLE SOCKET IN H25-30 KITCHEN + H29 10W	C1	YES
11	NO RCD PROTECTION ON ANY CIRCUITS	C3	
12	LIGHT SECOND FLOOR STAIR WELL NOT SECURELY FIXED		
	FANS NOT WORKING :- H2/H10/H22 !		

One of the following codes, as appropriate, has been allocated to each of the observations made to indicate to the person(s) responsible for the installation the degree of urgency of remedial action required.

C1 – Danger present. Risk of injury. Immediate remedial action required
C2 – Potentially dangerous. Urgent remedial action required
C3 – Improvement recommended

Use additional form if required

ELECTRICAL INSTALLATION CONDITION REPORT

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Sheet ☐ of ☐

SECTION I: SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing arrangements	Number and type of live conductors	Nature and type of supply parameters	Supply protective device
TN-C ☐ TN-S ☐ TN-C-S ☐ TT ☐ IT ☐	a.c. ☐ d.c. ☐ 1-phase, 2 wire ☐ 2-wire ☐ 2-phase, 3 wire ☐ 3-wire ☐ 3-phase, 3 wire ☐ 3-phase, 4 wire ☐ Confirmation of supply polarity ☐	Nominal voltage, U / U_0 (1) ..... V Nominal frequency, f (1) ..... Hz Prospective fault current, I_{pf} (2) ..... kA External loop impedance, Ze (2) ..... Ω Note: (1) by enquiry (2) by enquiry or measurement	BS (EN) ..... Type ..... Rated current ..... A

Other sources of supply (as detailed on attached schedule) ☐

SECTION J: PARTICULARS OF INSTALLATION REFERRED TO IN REPORT

Means of earthing	Details of Earth Electrode (where applicable)
Distributor's facility ☐ Installation earth electrode ☐	Type ..... Location ..... Resistance to earth ..... Ω

Main protective conductors

Earthing conductor	Material	Csa ..... mm²	Connection/continuity verified ☐
Main protective bonding conductors	Material	Csa ..... mm²	Connection/continuity verified ☐
To incoming water service ☐	To incoming gas service ☐	To incoming oil service ☐	To structural steel ☐
To lightning protection ☐	To other incoming service(s) ☐	Specify	

Main switch / switch fuse / circuit breaker / RCD

Location	Current rating ..... A	If RCD main switch
.....	Fuse / device rating or setting ..... A	Rated residual operating current (I∆n) ..... mA
BS (EN)	Voltage rating V	Rated time delay ..... ms
No. of poles		Measured operating time (at I∆n) ..... ms

SECTION K: OBSERVATIONS

Referring to the attached schedules of inspection and test results, and subject to the limitations specified in the *Extent and Limitations of Inspection and testing section*

No remedial action is required ☐ The following observations are made: ☑ (See below)

Observation(s)	Classification code	Further investigation required (YES/NO)
CONTINUED		
(13) BROKEN SHT IN WARDENS FLAT HALLWAY	C2	N

One of the following codes, as appropriate, has been allocated to each of the observations made to indicate to the person(s) responsible for the installation the degree of urgency of remedial action required.

C1 – Danger present. Risk of injury. Immediate remedial action required
C2 – Potentially dangerous. Urgent remedial action required
C3 – Improvement recommended

Use additional form if required

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

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Sheet [ ] of [ ]

NOTE: This form is suitable for many types of smaller installations not exclusively domestic

OUTCOMES	Acceptable condition ✓	Unacceptable condition State C1 or C2	Improvement recommended State C3	Not verified NV	Limitation Lim	Not applicable N/A

Item no	Description	Outcome (Use codes above, provide additional comment where appropriate. C1, C2 and C3 coded items to be recorded in Section K of the Condition Report)	Further investigation required? (YES / NO)
1.0	**DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT**		
1.1	Service cable condition	✓	
1.2	Condition of service head	N/A	
1.3	Condition of tails – distributor	N/A	
1.4	Condition of tails – consumer	N/A	
1.5	Condition of metering equipment	✓	
1.6	Condition of isolator (where present)	✓	
2.0	**PRESENCE OF ADEQUATE ARRANGEMENTS FOR SECONDARY OR ALTERNATIVE SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)**	N/A	
3.0	**EARTHING / BONDING ARRANGEMENTS (411.3; chap 54)**		
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	✓	
3.2	Presence and condition of earth electrode where applicable (542.1.2.3)	N/A	
3.3	Provision of earthing / bonding labels at all appropriate locations (514.13.1)	✓	
3.4	Confirmation of earthing conductor size (542.3, 543.1.1)	✓	
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)	✓	
3.6	Confirmation of main protective bonding conductor sizes (544.1)	✓	
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)	✓	
3.8	Accessibility and condition of all protective bonding connections (543.3.2)	✓	
4.0	**CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)**		
4.1	Adequacy of working space / accessibility to consumer unit / distribution board (132.12, 513.1)	✓	
4.2	Security of fixing (134.1.1)	✓	
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)	✓	
4.4	Condition of enclosure(s) in terms of fire rating etc (526.5)	✓	
4.5	Enclosure not damaged / deteriorated so as to impair safety (621.2 iii)	✓	
4.6	Presence of main linked switch (as required by 537.1.4)	✓	
4.7	Operation of main switch (functional check) (612.13.2)	✓	
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2)	✓	
4.9	Correct identification of circuit details and protective devices (514.8.1, 514.9.1)	C3	
4.10	Presence of RCD quarterly test notice present at or near consumer unit / distribution board (514.12.2)	N/A	
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14)	N/A	
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board (514.15)	N/A	
4.13	Presence of other required labelling (please specify) (Section 514)	N/A	
4.14	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (421.1.3)	✓	
4.15	Single-pole protective devices in line conductor only (132.14.1; 530.3.2)	✓	
4.16	Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.1; 522.8.11)	✓	
4.17	Protection against electromagnetic effects where cables consumer unit / distribution board / enclosures (521.5.1)	✓	
4.18	RCD(s) provided for fault protection – includes RCBOs (411.4.9; 411.5.2; 531.2)	C3	
4.19	RCD(s) provided for additional protection – includes RCBOs(411.3.3, 415.1)	C3	

OUTCOMES	Acceptable condition ✓	Unacceptable condition State C1 or C2	Improvement recommended State C3	Not verified NV	Limitation Lim	Not applicable N/A

Item no	Description	Outcome (Use codes above, provide additional comment where appropriate. C1, C2 and C3 coded items to be recorded in Section K of the Condition Report)	Further investigation required? (YES / NO)
5.0	**FINAL CIRCUITS**		
5.1	Identification of conductors (514.3.1)	✓	
5.2	Cables correctly supported throughout their run (522.8.5)	✓	
5.3	Condition of insulation of live parts (416.1)	✓	
5.4	Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1)	✓	
	• To include the integrity of conduit and trunking systems (metallic and plastic)	✓	
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓	
5.6	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)	✓	
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	✓	
5.8	Presence and adequacy of circuit protective conductors (411.3.1.1; Section 543.1)	✓	
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	✓	
5.10	Concealed cables installed in prescribed zones (see Section D Extent and limitations) (522.6.101)	LIM	
5.11	Concealed cables incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage from nails, screws and the like (see Section D: Extent and limitations) (522.6.101, 522.6.103)	✓	
5.12	Provision of additional protection by RCD not exceeding 30 mA:		
	• For all socket-outlets of rating 20 A or less provided for use by ordinary persons unless an exception is permitted (411.3.3)	C3	
	• For supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	C3	
	• For cables concealed in walls or partitions (522.6.102; 522.6.103)	C3	
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	✓	
5.14	Band II cables segregated / separated from Band I cables (528.1)	LIM	
5.15	Cables segregated / separated from communications cabling (528.2)	LIM	
5.16	Cables segregated / separated from non-electrical services (528.3)	LIM	
5.17	Termination of cables at enclosures – indicate extent of sampling in Section D of the report (Section 526)		
	• Connections soundly made and under no undue strain (526.6)	✓	
	• No basic insulation of a conductor visible outside enclosure (526.8)	✓	
	• Connections of live conductors adequately enclosed (526.5)	✓	
	• Adequately connected at point of entry to enclosure (glands, bushes, etc.) (522.8.5)	✓	
5.18	Condition of accessories including socket-outlets, switches and joint boxes (621.2(iii))	C1	
5.19	Suitability of accessories for external influences (512.2)	✓	
6.0	**LOCATION(S) CONTAINING A BATH OR SHOWER**		
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)	C3	
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	✓	
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	✓	
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2)	✓	
6.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1 (701.512.3)	N/A	
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	✓	
6.7	Suitability of equipment for installation in a particular zone (701.512.3)	✓	
6.8	Suitability of current-using equipment for a particular position within the location (701.55)	✓	
7.0	**OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**		
7.1	List all other special installations or locations present, if any (record separately the results of particular inspections applied).	N/A	

Tested by:

Name (CAPITALS) A. MOFFATT Signature A. Moffatt Date 11/9/14

SCHEDULE OF TEST RESULTS

Used as primary sheet (●) ☐ Used as continuation sheet ☐ Sheet ☐ of ☐

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DB Reference no. MAIN SWITCH PANEL BLOCK H
Location BLOCK H GROUND FLOOR CUPBOARD
Zs at DB (Ω)
I_{pf} at DB (kA)
Correct polarity of supply confirmed (YES) / NO
Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing

Details of test instruments used (state serial and/or asset numbers)
Continuity Fluke 1651 9608042
Insulation resistance
Earth fault loop impedance
RCD
Earth electrode resistance

Tested by:
Name (CAPITALS) A. MOFFATT
Signature A. Moffatt Date 11/9/14

Circuit details

Test results

Circuit number	Circuit description	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: cpc (mm²)	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω) (R_1+R_2) or R_2: (R_1+R_2)*	Continuity (Ω) (R_1+R_2) or R_2: R_2	Insulation resistance (MΩ): Live – Live	Insulation resistance (MΩ): Live – E	Polarity ✓	Z_s (Ω)	RCD (ms): @$I_\Delta n$	RCD (ms): @5$I_\Delta n$	RCD (ms): Test button operation	Remarks (continue on a separate sheet if necessary)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1L1	SPARE																	N/A	N/A	N/A	
1L2	↓																	↓	↓	↓	
1L3	↓																				
2L1	SPARE																				
2L2	↓																				
2L3	↓																				
3L1	SPARE																				
3L2	↓																				
3L3	LANDLORD SUPPLY	60947-2	—	25	25	N/A	16	16				0.06		>200	>200	✓	0.07				
4L1	DB FLAT H1	60947-2	—	63	25	N/A	16	16				0.08		>200	>200	✓	0.14				
4L2	↓	↓	↓	↓	↓	↓	↓	↓				↓		↓	↓	↓	↓				
4L3	↓	↓	↓	↓	↓	↓	↓	↓				↓		↓	↓	↓	↓				
5L1	DB H4	60947-2	—	63	25	N/A	16	16				0.08		>200	>200	✓	0.14				
5L2	↓	↓	↓	↓	↓	↓	↓	↓				↓		↓	↓	↓	↓				
5L3	↓	↓	↓	↓	↓	↓	↓	↓				↓		↓	↓	↓	↓	↓	↓	↓	

* Where there are no spurs connected to a ring final circuit this value is also the (R_1+R_2) of the circuit.

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ]

CERT/REPORT NO:

Location: ..... Date: .....

Designation: MAIN Switch Panel Block H CONTD

Inspected and tested by: (Print and sign)

Name: .....

Signature: .....

System Characteristics

System type:

TN-C-S ☐ TN-S ☐ TT ☐

(Tick relevant box(es)

Fault level(s):

1 ϕ ..... kA

3 ϕ ..... kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: ..... Ω

Main Switch

Supply polarity confirmed: ..... ☐

Make: ..... BS (EN): .....

Voltage rating: ..... V Current rating (I_n): ..... A

(If) RCD: ..... mA Operation time (at $I_{\Delta n}$): .....ms

DB/CU supplied from: .....

Equipment vulnerable to testing: .....

Supply Protective Device Details

BS (EN): ..... Current rating (I_n): ..... A (If) RCD: $I_{\Delta n}$: ..... mA Operating time at $I_{\Delta n}$: ..... ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	Continuity (Ω): R_2	Insulation Resistance (MΩ): Live-Live	Insulation Resistance (MΩ): Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	RCD (ms): @ 5$I_{\Delta n}$	RCD (ms): Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
6L1	DB H5	1	60947-2	N/A	63	35	N/A	16	16	N/A				0.06		>200	>200	✓	0.12	N/A	N/A	N/A	
6L2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓		↓	↓	↓	↓				
6L3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓		↓	↓	↓	↓				
7L1	SPARE																						
7L2	↓																						
7L3	↓																						
8L1	SPARE																						
8L2	↓																						
8L3	↓																						
9L1	SPARE																						
9L2	↓																						

TEST INSTRUMENTS USED — Make / Model / Serial Number

Multi-function: .....

Insulation resistance: .....

Continuity: .....

Earth electrode resistance: .....

Earth fault loop impedance: .....

RCD: .....

Deviations from BS 7671: 2008: .....

and further comments: .....

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ]

CERT/REPORT No*:

Location: ..... Date: .....

Designation: MAIN Switch Panel BLOCK H CONTD

Inspected and tested by: (Print and sign)

Name: .....

Signature: .....

System Characteristics

System type:

TN-C-S ☐ TN-S ☐ TT ☐

(Tick relevant box(es))

Fault level(s):

1 ϕ ..... kA

3 ϕ ..... kA

Measured impedance at dis. board/ consumer unit Z_e/Z_s*: ..... Ω

Main Switch

Supply polarity confirmed: ..... ☐

Make: ..... BS (EN): .....

Voltage rating: ..... V Current rating (I_n): ..... A

(If) RCD: ..... mA Operation time (at $I_{\Delta n}$): .....ms

DB/CU supplied from: .....

Equipment vulnerable to testing: .....

Supply Protective Device Details

BS (EN): ..... Current rating (I_n): ..... A (If) RCD: $I_{\Delta n}$: ..... mA Operating time at $I_{\Delta n}$: ..... ms

CIRCUIT DETAILS / TEST RESULTS

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	Continuity (Ω): R_2	Insulation Resistance (MΩ): Live-Live	Insulation Resistance (MΩ): Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	RCD (ms): @ $5I_{\Delta n}$	RCD (ms): Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
9L3	DB WARDENS FLAT	1	60947-2	N/A	32	25	N/A	16	16	N/A				0.09		>200	>200	✓	0.15	N/A	N/A	N/A	
10L1	SPARE	↓	60947-2	N/A	63	25	↓	—	—	↓													
10L2	↓		↓	↓	↓	↓		—	—														
10L3	↓		↓	↓	↓	↓		—	—														
11L1	DB H3	1	60947-2	N/A	63	25		16	16					0.03		>200	>200	✓	0.09				
11L2	↓	↓	↓	↓	↓	↓		↓	↓					↓		↓	↓	↓	↓				
11L3	↓	↓	↓	↓	↓	↓		↓	↓					↓		↓	↓	↓	↓				
12L1	DB H2	1	60947-2	N/A	63	25		16	16					0.09		>200	>200	✓	0.14				
12L2	↓	↓	↓	↓	↓	↓		↓	↓					↓		↓	↓	↓	↓				
12L3	↓	↓	↓	↓	↓	↓		↓	↓					↓		↓	↓	↓	↓				
							↓			↓										↓	↓	↓	

TEST INSTRUMENTS USED — Make / Model / Serial Number

Multi-function: .....

Insulation resistance: .....

Continuity: .....

Earth electrode resistance: .....

Earth fault loop impedance: .....

RCD: .....

Deviations from BS 7671 2008:

and further comments:

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ]

CERT/REPORT NO.

Location: GROUND FLOOR UNDER Stairs BLOCK H Date: 11/9/14

Designation: LANDLORDS

Inspected and tested by: (Print and sign)

Name: A. MOFFATT

Signature: A. Moffatt

System Characteristics

System type:

TN-C-S ☑ TN-S ☐ TT ☐

(Tick relevant box(es))

Fault level(s):

1 ϕ 2.4 kA

3 ϕ ..... kA

Measured impedance at dis. board/ consumer unit Z_e/Z_s*: 0.07 Ω

Main Switch

Supply polarity confirmed: ☑

Make: CRABTREE BS (EN): 60947-3

Voltage rating: 130 V Current rating (I_n): 100 A

(If) RCD: N/A mA Operation time (at $I_{\Delta n}$): — ms

DB/CU supplied from: MAIN SWITCH PANEL

GROUND FLOOR UNDER Stairs Circuit 3L3

Equipment vulnerable to testing:

Supply Protective Device Details

BS (EN): 60947-2 Current rating (I_n): 25 A (If) RCD: $I_{\Delta n}$: N/A mA Operating time at $I_{\Delta n}$: — ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ 5$I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
1	SMOKE VENT	1	60898	B	16	10	N/A	2.5	1.5	N/A				0.63		LIM	>200	✓	0.70	MA	N/A	N/A	
2	FIRE ALARM	1			16			2.5	1.5					0.28		LIM	>200	✓	0.34				
3	DOOR ENTRY	1			16			2.5	1.5					0.20		LIM	>200	✓	0.27				
4	SOCKETS Stair Wells	14			32			2.5	1.5		0.68	0.68	1.08	0.46		>200	>200	✓	0.46				
5	CAMERAS				10			2.5	1.5					0.30		LIM	>200	✓	0.37				
6	IMMERSION/HEAT CONTACTORS	2			6			1.5	1.0					0.13		LIM	>200	✓	0.20				
7	LIGHTS Stair Wells				6			1.5	1.0					2.39		LIM	147	✓	2.46				
8	LIGHTS OUTSIDE		↓	↓	6	↓	↓	1.5	1.0	↓				1.01		LIM	107	✓	1.08	↓	↓	↓	

TEST INSTRUMENTS USED — Make / Model / Serial Number: Multi-function: FLUKE 1651 9604042 — Insulation resistance: — Continuity: — Earth electrode resistance: — Earth fault loop impedance: — RCD: —

Deviations from BS 7671 2008:

and further comments:

SCHEDULES FOR RECORDING INSPECTION AND CIRCUIT DETAILS/TEST RESULTS

Page [ ] of [ ] | CERT/REPORT/SCHEDULE NO: [ ] | FLUKE.

CONTRACTOR: BLUEFLAME | TEST DATE: 9/10/2014 | SIGNATURE: I Gray

Installation Address: BLOCK H ROOM 2 WARDENS ROOM

Designation of switchgear: DB WARDENS FLAT

Inspected and tested by: (Print and sign) I GRAY

Equipment vulnerable to testing:

Comments:

System Characteristics

System Type: TN-C-S ☑ TN-S ☐ IT ☐ (Tick relevant box(es))

Fault Level(s): 1φ 1.7 kA; 3φ ..... kA

Measured impedance at dis. board/consumer unit Z_s*: 0.15 Ω

Main Switch

Make: CKARTRE BS (EN): 6947-3

Voltage Rating: 240 V Current Rating (I_n): 100 A

(If) RCD: mA Operation time (at $I_{\Delta n}$): ms

DB/CU supplied from: MAIN SWITCH POWER BLOCK H

Supply Protective Device Detail

BS (EN): 60947-2 Current Rating (I_n): 32 A (If) RCD: $I_{\Delta n}$: n/a mA Operating time at $I_{\Delta n}$: n/a ms

CIRCUIT DETAILS AND TEST RESULTS

Number of ways	Circuit description	Type of wiring (e.g. PVC/PVC)	Circuit conductors (mm²) Live	Circuit conductors (mm²) cpc	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Fault current capacity (kA)	RCD Operating current, $I_{\Delta n}$* (mA)	Circuit impedances (Ω) Ring final circuits only r_1	r_n	r_2	All circuits $R_1 + R_2$ or R_2*	Insulation resistance (MΩ) Between live conductors	Live conductors to Earth	Polarity (✓)	Maximum measured earth fault loop impedance, Z_s (Ω)	RCD operating times (ms) at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)
1	HEATING	PVC/PVC	2.5	1.5	60898	B	16	6	n/a	.23	.24	.28			56.1	✓	.92	n/a	n/a
2	HEATING		2.5	1.5			16			.18	.18	.29				✓	.10		
3	RING CIRCUIT		2.5	1.5			32			.64	.65	.28				✓	.47		
4	COOKER		6.0	2.5			32									✓	.27		
5	LIGHTS		1.5	1.0			10									✓	.96		
6	IMMERSION		2.5	1.0			16									✓	.21		
7	IMMERSION	↓	2.5	↓	↓	↓	16	↓	↓						↓	✓	.22	↓	↓
8	SPARE																		

TEST INSTRUMENTS USED

MAKE / MODEL / SERIAL NUMBER		Multi-function:	FLUKE 1651 9861013	Insulation resistance:	Continuity:
MAKE / MODEL / SERIAL NUMBER		Earth electrode resistance:		Earth fault loop impedance:	RCD:

INSPECTION CHECKLIST

(A) BOTH BASIC AND FAULT PROTECTION	
SELV / PELV*	
Double or reinforced insulation*	
(B) BASIC PROTECTION	
Insulation of live parts and barriers/enclosures	
Obstacles or placing out of reach*	
(C) FAULT PROTECTION	
Automatic disconnection of supply	
Presence of earthing conductor and circuit protective conductors*	
Presence of protective bonding conductor(s)	
Presence of supplementary bonding conductor(s)	
Presence of earthing arrangements for combined protective and functional purposes	
Presence of adequate arrangements for alternative source(s), where applicable	
FELV	
Choice/setting of protective & monitoring devices (for fault/overcurrent protection)	
Electrical separation for one/more than one* item of current-using equipment	
(D) ADDITIONAL PROTECTION	
Presence of residual current devices	
Presence of supplementary bonding conductors	
(E) PREVENTION OF MUTUAL DETRIMENTAL INFLUENCE	
(a) Proximity of non-electrical services and other influences	
(b) Segregation of safety and non-safety circuits (Band I & Band II etc.)	
(F) IDENTIFICATION	
(a) Presence of diagrams, instructions, circuit charts and similar information	
(b) Presence of danger notices and other warning notices	
(c) Labelling of protective devices, switches and terminals	
(d) Identification of conductors	
(G) CABLES AND CONDUCTORS	
(a) Selection of conductors for current-carrying capacity and voltage drop	
(b) Erection methods	
(c) Cables incorporating armour or sheath, or routed within a wiring system, or otherwise adequately protected against nails, screws and the like	
(d) Routing of cables in prescribed zones	
(e) Additional protection by suitably rated RCD for cables concealed in walls (where not under the supervision of a skilled or instructed person)	
(f) Connection of conductors	
(g) Presence of fire barriers and similar for protection against thermal effects	
(H) GENERAL	
(a) Presence and correct location of appropriate devices for isolation and switching	
(b) Adequacy of access to switchgear and other equipment	
(c) Particular protective measures for special installations or locations	
(d) Connection of single-pole devices for protection or switching in line conductor(s) only	
(e) Correct connection of accessories and equipment	
(f) Presence of undervoltage protective devices	
(g) Selection of equipment and protective measures appropriate to external influences	
(h) Selection of appropriate functional switching devices	

✓ Indicates an inspection has been carried out and the outcome is satisfactory

× Indicates an inspection has been carried out and the outcome is unsatisfactory (applicable for a periodic inspection only)

In addition to these the following notations may be used when reporting on existing installations:

N/A Indicates an inspection is not applicable to a particular item of equipment, etc.

LIM Indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection being carried out.

Can be used in conjunction with TD16F for Observations and Comments

*delete as appropriate

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ] CERT/REPORT No:

Location: BLOCK H, GROUND FLOOR H1-6 KITCHEN CUPBOARD Date: 11/9/14

Designation: DB H1

Inspected and tested by: (Print and sign)
Name: A. MOFFATT
Signature: A. Moffatt

System Characteristics

System type:
TN-C-S ☑ TN-S ☐ TT ☐
(Tick relevant box(es))

Fault level(s):
1 ϕ ..... kA
3 ϕ 1.9 kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: 0.14 Ω

Main Switch

Supply polarity confirmed: ☑

Make: CRABTREE BS (EN): 60947-3

Voltage rating: 415 V Current rating (I_n): 100 A

(If) RCD: N/A mA Operation time (at $I_{\Delta n}$): — ms

DB/CU supplied from: BLOCK H GROUND FLOOR UNDER STAIRS CUPBOARD MAIN PANEL CIRCUIT 4L1,2,3

Equipment vulnerable to testing:
CIRCUITS 4L3 - 6L3 ALL SPARE WAYS

Supply Protective Device Details BS (EN): 60947-2 Current rating (I_n): 63 A (If) RCD: $I_{\Delta n}$: N/A mA Operating time at $I_{\Delta n}$: — ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Conductor details: Reference method	Live (mm²)	Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ 5$I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
1L1	COOKER H1-6	1	60898	B	32	10	N/A	6.0	2.5	N/A				0.30		>200	>200	N/A	0.44	N/A	N/A	N/A	
1L2	SOCKETS H4-6 CORRIDOR	7	↓	↓	32	↓	↓	2.5	1.5	↓	0.47	0.47	0.05	0.61		>200	>200	✓	0.73	↓	↓	↓	
1L3	IMMERSION + PUMP	2			16			2.5	1.5					0.10		>200	>200	✓	0.24				
2L1	LIGHTS H1+2 H4-6	25			10			1.5	1.0					0.92		NM	>200	✓	1.06				
2L2	COOKER H1-6	1			32			6.0	2.5					0.32		>200	>200	N/A	0.46				
2L3	IMMERSION HEATER	1			16			2.5	1.5					0.09		>200	>200	✓	0.22				
3L1	SOCKETS KITCHEN + ROOMS 1-3	10			32			2.5	1.5		0.61	>200	0.71	0.33		LIM	71.3	✓	0.46				
3L2	HEATING ROOMS	4			20			2.5	1.5					0.74		LIM	109	✓	0.38				
3L3	SOCKET RISER CUPBOARD	1			16			1.5	1.5					0.16		>200	>200	✓	0.30				
4L1	LIGHTS KITCHEN CORRIDOR H3	13			10			1.5	1.0					0.65		LIM	>200	✓	0.79				
4L2	HEATING KITCHEN	4	↓	↓	20	↓	↓	2.5	1.5	↓				0.32		LIM	86.9	✓	0.46	↓	↓	↓	

TEST INSTRUMENTS USED — Make/Model/Serial Number: Multi-function: FLUKE 1651 9608042; Insulation resistance: ; Continuity: ; Earth electrode resistance: ; Earth fault loop impedance: ; RCD: ;

Deviations from BS 7671: 2008:

and further comments:

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ] CERT/REPORT No: [ ]

Location: Block H H7-12 KITCHEN CUPBOARD Date: 11/9/14

Designation: Dist Board H2

Inspected and tested by: (Print and sign)
Name: A. MOFFATT
Signature: A. Moffatt

System Characteristics

System type:
TN-C-S [✓] TN-S [ ] TT [ ]
(Tick relevant box(es))

Fault level(s):
1 ϕ ..... kA
3 ϕ 1.7 kA

Measured impedance at dis. board/ consumer unit Z_e/Z_s*: 0.14 Ω

Main Switch

Supply polarity confirmed: [✓]

Make: CRABTREE BS (EN): 60947-3

Voltage rating: 415 V Current rating (I_n): 100 A

(If) RCD: N/A mA Operation time (at $I_{\Delta n}$): — ms

DB/CU supplied from: Block H Ground Floor

CUPBOARD MAIN PANEL Circuit 1 2 & 3

Equipment vulnerable to testing: .....

Supply Protective Device Details

BS (EN): 60947-2 Current rating (I_n): 63 A [If] RCD: $I_{\Delta n}$: N/A mA Operating time at $I_{\Delta n}$: — ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ 5$I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
1L1	Sockets ~~Kitchen~~ Rooms 7-10	8	60898	B	32	10	N/A	2.5	1.5	N/A	0.48	0.46	0.26	0.19		>200	>200	✓	0.54	N/A	N/A	N/A	
1L2	Lights Kitchen/corridor Rooms 11 & 12	14	↓	↓	10	↓	↓	1.5	1.0	↓				1.09		Lim	>200	✓	1.23	↓	↓	↓	
1L3	Cooker H7-12	1			32			6.0	2.5					0.47		>200	>200	✓	0.61				
2L1	Immersion Heater	1			16			2.5	1.5					0.09		>200	>200	✓	0.23				
2L2	Cooker H7-12	1			32			6.0	2.5					0.82		>200	>200	✓	0.96				
2L3	Spare																						
3L1	Immersion + pump	2	60898	B	16	10	N/A	2.5	1.5					0.11		>200	>200	✓	0.25				
3L2	Sockets ~~Kitchen~~ Kitchen/corridor Rooms 7 & 12	8			32			2.5	1.5		0.62	0.62	0.50	0.28		k/m	>200	✓	0.42				
3L3	Heating	4			20			2.5	1.5					0.42		Lim	>200	✓	0.57				
4L1	Lights 7-10	20	↓	↓	10	↓	↓	1.5	1.0					0.77		Lim	>200	✓	0.91				
4L2	Spare									↓										↓	↓	↓	

TEST INSTRUMENTS USED	Make / Model / Serial Number	Multi-function	Insulation resistance	Continuity	Earth electrode resistance	Earth fault loop impedance	RCD
	Fluke 1651 9608042						

Deviations from BS 7671: 2008: .....

and further comments: .....

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ]

CERT/REPORT No.

Location: ..... Date: .....

Designation: DIST BOARD H2 CONTD

Inspected and tested by: (Print and sign)

Name: .....

Signature: .....

System Characteristics

System type:

TN-C-S ☐ TN-S ☐ TT ☐

(Tick relevant box(es)

Fault level(s):

1 ϕ ..... kA

3 ϕ ..... kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: ..... Ω

Main Switch Supply polarity confirmed: ..... ☐

Make: ..... BS (EN): .....

Voltage rating: ..... V Current rating (I_n): ..... A

(If) RCD: ..... mA Operation time (at $I_{\Delta n}$): .....ms

DB/CU supplied from: .....

Equipment vulnerable to testing: .....

Supply Protective Device Details BS (EN): ..... Current rating (I_n): ..... A (If) RCD: $I_{\Delta n}$: ..... mA Operating time at $I_{\Delta n}$: ..... ms

CIRCUIT DETAILS **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	Continuity (Ω): R_2	Insulation Resistance (MΩ): Live-Live	Insulation Resistance (MΩ): Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	RCD (ms): @ 5$I_{\Delta n}$	RCD (ms): Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
413	HEATING	4	60898	B	20	10	N/A	2.5	1.5	N/A				0.47		>200	>200	✓	0.61	N/A	N/A	N/A	
511	SPARE																						
512																							
513																							
611																							
612																							
613																							

TEST INSTRUMENTS USED — Make / Model / Serial Number

Multi-function: .....

Insulation resistance: .....

Continuity: .....

Earth electrode resistance: .....

Earth fault loop impedance: .....

RCD: .....

Deviations from BS 7671: 2008: .....

and further comments: .....

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ] CERT/REPORT No: [ ]

Location: Block H FIRST Floor H 13 - 18 KITCHEN CUPBOARD Date: 11/9/14

Designation: DIST BOARD H 3

Inspected and tested by: (Print and sign)
Name: A. MOFFATT
Signature: A. Moffatt

System Characteristics

System type:
TN-C-S ☑ TN-S ☐ TT ☐
(Tick relevant box(es))

Fault level(s):
1 ϕ ..... kA
3 ϕ 2.1 kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: 0.09 Ω

Main Switch

Supply polarity confirmed: ☑
Make: CRABTREE BS (EN): 6094T-3
Voltage rating: 415 V Current rating (I_n): 100 A
(If) RCD: N/A mA Operation time (at $I_{\Delta n}$): — ms
DB/CU supplied from: Block H GROUND Floor CUPBOARD MAIN Switch Panel Circuit 1|1,2,3

Equipment vulnerable to testing:

Supply Protective Device Details

BS (EN): 60947-2 Current rating (I_n): 63 A (If) RCD: $I_{\Delta n}$: N/A mA Operating time at $I_{\Delta n}$: — ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ $5I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
1L1	SOCKETS KITCHEN ROOM 13-15	10	60898	B	32	10	N/A	2.5	1.5	N/A	0.40	0.40	0.26	0.31		LIM	>200	✓	0.40	N/A	N/A	N/A	
1L2	IMMERSION HEATER	1			16			2.5	1.5					0.15		>200	>200	✓	0.24				
1L3	SOCKETS Corridor H16-18	7			32			2.5	1.5		0.57	0.57	0.24	0.22		>200	>200	✓	0.37				
2L1	COOKER	1			32			6.0	2.5					0.22		>200	>200	N/A	0.31				
2L2	IMMERSION/PUMP	2			16			2.5	1.5					0.18		>200	>200	✓	0.27				
2L3	LIGHTS ROOMS Corridor 13-15	20			10			1.5	1.0					0.97		LIM	>200	✓	1.06				
3L1	LIGHTS KITCHEN ROOMS 16-18	18			10			1.5	1.0					0.72		LIM	>200	✓	0.81				
3L2	COOKER	1			32			6.0	2.5					0.19		>200	>200	N/A	0.28				
3L3	HEATING	4	↓	↓	20	↓	↓	2.5	1.5					0.71		LIM	>200	✓	0.80				
4L1	SPARE																						
4L2	SPARE									↓										↓	↓	↓	

TEST INSTRUMENTS USED	Make / Model / Serial Number	Multi-function:	Insulation resistance:	Continuity:	Earth electrode resistance:	Earth fault loop impedance:	RCD:
	FLUKE 1651 9609042						

Deviations from BS 7671: 2008:

and further comments:

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ]

CERT/REPORT No: [ ]

Location: ..... Date: .....

Designation: DIST BOARD H3 CONT'D

Inspected and tested by: (Print and sign)

Name: .....

Signature: .....

System Characteristics

System type:

TN-C-S ☐ TN-S ☐ TT ☐

(Tick relevant box(es))

Fault level(s):

1 ϕ ..... kA

3 ϕ ..... kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: ..... Ω

Main Switch

Supply polarity confirmed: ..... ☐

Make: ..... BS (EN): .....

Voltage rating: ..... V Current rating (I_n): ..... A

(If) RCD: ..... mA Operation time (at $I_{\Delta n}$): ..... ms

DB/CU supplied from: .....

Equipment vulnerable to testing: .....

Supply Protective Device Details

BS (EN): ..... Current rating (I_n): ..... A (If) RCD: $I_{\Delta n}$: ..... mA Operating time at $I_{\Delta n}$: ..... ms

CIRCUIT DETAILS / TEST RESULTS

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	Continuity (Ω): R_2	Insulation Resistance (MΩ): Live-Live	Insulation Resistance (MΩ): Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	RCD (ms): @ $5I_{\Delta n}$	RCD (ms): Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
4C3	HEATING	4	60898	B	20	10	N/A	2.5	1.5	N/A				0.97		LIM	7160	✓	1.06	N/A	N/A	N/A	
5C1	SPARE																						
5C2																							
5C3																							
6C1																							
6C2																							
6C3																							

TEST INSTRUMENTS USED — Make / Model / Serial Number

Multi-function: .....

Insulation resistance: .....

Continuity: .....

Earth electrode resistance: .....

Earth fault loop impedance: .....

RCD: .....

Deviations from BS 7671: 2008: .....

and further comments: .....

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

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Location: Block H Second Floor H19-24 KITCHEN Date: 12/9/14

Designation: DIST BOARD H4

Inspected and tested by: (Print and sign)
Name: A. MOFFAT
Signature: A. Moffatt

System Characteristics

System type:
TN-C-S ☑ TN-S ☐ TT ☐
(Tick relevant box(es))

Fault level(s):
1 ϕ ..... kA
3 ϕ 1.8 kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: 0.14 Ω

Main Switch Supply polarity confirmed: ☑

Make: CRABTREE BS (EN): 60947-3

Voltage rating: 415 V Current rating (I_n): 100 A

(If) RCD: N/A mA Operation time (at $I_{\Delta n}$): — ms

DB/CU supplied from: BLOCK H GROUND FLOOR CUPBOARD MAIN SWITCH PANEL CIRCUIT SL1,2,3

Equipment vulnerable to testing: .....

Supply Protective Device Details BS (EN): 60947-2 Current rating (I_n): 63 A (If) RCD: $I_{\Delta n}$: N/A mA Operating time at $I_{\Delta n}$: — ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ $5I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
1L1	HEATING	4	60898	B	32	10	N/A	2.5	1.5	N/A				0.37		>200	>200	✓	0.51	N/A	N/A	N/A	
1L2	COOKER H19-24	1			32			6.0	2.5					0.57		>200	>200	✓	0.65				
1L3	SOCKETS ROOMS	8			82			2.5	1.5		0.52	0.52	0.28	0.20		LIM	>200	✓	0.44				
2L1	IMMERSION HEATER	1			16			2.5	1.5					0.10		>200	>200	✓	0.24				
2L2	SOCKETS KITCHEN/ROOMS	9			32			2.5	1.5		0.52	0.51	0.41	0.23		LIM	>200	✓	0.38				
2L3	IMMERSION + PUMP	2	↓	↓	16	↓		2.5	1.5					0.24		>200	>200	✓	0.38				
3L1	Spare																						
3L2	COOKER H19-24	1	60898	B	32	10		6.0	2.5					0.23		>200	>200	✓	0.37				
3L3	LIGHTS KITCHEN ROOMS CORRIDOR x2	18			10			1.5	1.0					0.80		LIM	>200	✓	0.94				
4L1	HEATING	4			16			2.5	1.5					0.62		LIM	>200	✓	0.76				
4L2	UNUSED		↓	↓	16	↓	↓			↓										↓	↓	↓	

TEST INSTRUMENTS USED — Make / Model / Serial Number: Multi-function: FLUKE 1651 66809042

Insulation resistance:

Continuity:

Earth electrode resistance:

Earth fault loop impedance:

RCD:

Deviations from BS 7671 2008:

and further comments:

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

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CERT/REPORT No:

Location: ..... Date: .....

Designation: DIST BOARD 4

Inspected and tested by: (Print and sign)

Name: .....

Signature: .....

System Characteristics

System type:

TN-C-S ☐ TN-S ☐ TT ☐

(Tick relevant box(es)

Fault level(s):

1 ϕ ..... kA

3 ϕ ..... kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: ..... Ω

Main Switch

Supply polarity confirmed: ..... ☐

Make: ..... BS (EN): .....

Voltage rating: ..... V Current rating (I_n): ..... A

(If) RCD: ..... mA Operation time (at $I_{\Delta n}$): .....ms

DB/CU supplied from: .....

Equipment vulnerable to testing: .....

Supply Protective Device Details

BS (EN): ..... Current rating (I_n): ..... A (If) RCD: $I_{\Delta n}$: ..... mA Operating time at $I_{\Delta n}$: ..... ms

CIRCUIT DETAILS / **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ 5$I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
4L3	LIGHTS Rooms x4	20	60898	B	10	10	N/A	1.5	1.0	N/A				0.77		LIM	>200	✓	0.91	N/A	N/A	N/A	
5L1	SPARE																						
5L2	↓																						
5L3																							
6L1																							
6L2																							
6L3																							

TEST INSTRUMENTS USED — Make / Model / Serial Number

Multi-function: .....

Insulation resistance: .....

Continuity: .....

Earth electrode resistance: .....

Earth fault loop impedance: .....

RCD: .....

Deviations from BS 7671: 2008: .....

and further comments: .....

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

Page [ ] of [ ] CERT/REPORT No: [ ]

Location: BLOCK H SECOND FLOOR H25-30 KITCHEN CUPBOARD Date: 12/9/14

Designation: DIST BOARD H5

Inspected and tested by: (Print and sign)
Name: A. MOFFATT
Signature: A. Moffatt

System Characteristics

System type:
TN-C-S ☑ TN-S ☐ TT ☐
(Tick relevant box[es])

Fault level(s):
1 ϕ ..... kA
3 ϕ 2 kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: 0.12 Ω

Main Switch

Supply polarity confirmed: ☑
Make: CRABTREE BS (EN): 60947-3
Voltage rating: 415 V Current rating (I_n): 100 A
(If) RCD: N/A mA Operation time (at $I_{\Delta n}$): — ms
DB/CU supplied from: BLOCK H GROUND FLOOR CUPBOARD, MAIN SWITCH PANEL CIRCUIT 6L1,2,3.

Equipment vulnerable to testing:

Supply Protective Device Details

BS (EN): 60947-2 Current rating (I_n): 63 A (If) RCD: $I_{\Delta n}$: N/A mA Operating time at $I_{\Delta n}$: — ms

CIRCUIT DETAILS / TEST RESULTS

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	r_n (neutral)	r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	R_2	Insulation Resistance (MΩ): Live-Live	Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	@ $5I_{\Delta n}$	Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
1L1	SPARE									N/A										N/A	N/A	N/A	
1L2	HEATING ROOM H27 KITCHEN CORRIDOR	8	60898	B	20	10	N/A	2.5	1.5					0.49		LIM	>200	✓	0.61				
1L3	COOKER 25-30	1			32			6.0	2.5					0.27		>200	>200	✓	0.39				
2L1	WATER HEATER	1			16			2.5	1.5					0.10		>200	>200	✓	0.22				
2L2	WATER HEATER PUMP	2			16			2.5	1.5					0.14		>200	>200	✓	0.26				
2L3	COOKER 25-30	1			32			6.0	2.5					0.31		>200	>200	✓	0.43				
3L1	SOCKETS ROOMS 25, 26, 28, 29, 30	10	↓	↓	32	↓	↓	2.5	1.5		0.51	0.51	0.32	0.47		LIM	>200	✓	0.39				
3L2	SPARE																						
3L3	SOCKETS KITCHEN 27	6	60898	B	32	10	N/A	2.5	1.5		0.39	0.39	0.71	0.55		LIM	>200	✓	0.41				
4L1	LIGHTS ROOMS	20	↓	↓	10	↓	↓	1.5	1.0					0.74		LIM	>200	✓	0.86				
4L2	HEATING	4	↓	↓	20		↓	2.5	1.5	↓				0.45		LIM	>200	✓	0.57	↓	↓	↓	

TEST INSTRUMENTS USED — Make / Model / Serial Number: Multi-function: FLUKE 1651 9603047
Insulation resistance:
Continuity:
Earth electrode resistance:
Earth fault loop impedance:
RCD:

Deviations from BS 7671: 2008:
and further comments:

DETAILS AT DISTRIBUTION BOARD (DB)/CONSUMER UNIT (CU)

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CERT/REPORT No:

Location: ..... Date: .....

Designation: DIST BOARD H5 CONTD

Inspected and tested by: (Print and sign)

Name: .....

Signature: .....

System Characteristics

System type:

TN-C-S ☐ TN-S ☐ TT ☐

(Tick relevant box(es)

Fault level(s):

1 ϕ ..... kA

3 ϕ ..... kA

Measured impedance at dis. board/consumer unit Z_e/Z_s*: ..... Ω

Main Switch Supply polarity confirmed: ☐

Make: ..... BS (EN): .....

Voltage rating: ..... V Current rating (I_n): ..... A

(If) RCD: ..... mA Operation time (at $I_{\Delta n}$): .....ms

DB/CU supplied from: .....

Equipment vulnerable to testing: .....

Supply Protective Device Details BS (EN): ..... Current rating (I_n): ..... A (If) RCD: $I_{\Delta n}$: ..... mA Operating time at $I_{\Delta n}$: ..... ms

CIRCUIT DETAILS **TEST RESULTS**

Circuit number	Circuit description	Number of points served	Overcurrent device: BS (EN)	Overcurrent device: Type	Overcurrent device: Rating (A)	Overcurrent device: Breaking capacity (kA)	Conductor details: Reference method	Conductor details: Live (mm²)	Conductor details: Cpc (mm²)	RCD (mA): Operating current, $I_{\Delta n}$	Ring final circuit continuity (Ω): r_1 (line)	Ring final circuit continuity (Ω): r_n (neutral)	Ring final circuit continuity (Ω): r_2 (cpc)	Continuity (Ω) (At least one column to be completed): $(R_1 + R_2)$	Continuity (Ω): R_2	Insulation Resistance (MΩ): Live-Live	Insulation Resistance (MΩ): Live-E	Polarity ✓	Max measured Z_s (Ω)	RCD (ms): @ $I_{\Delta n}$	RCD (ms): @ 5$I_{\Delta n}$	RCD (ms): Test Button operation ✓	Remarks (continue on a separate sheet if necessary)
4L3	LIGHTS KITCHEN/CORRIDOR	15	6898	B	10	10	N/A	1.5	1.0	N/A				0.77		LIM	>200	✓	0.89	N/A	N/A	N/A	
SL1	SPARE																						
SL2																							
SL3																							
6L1																							
6L2																							
6L3																							

TEST INSTRUMENTS USED — Make: Model: Serial Number:

Multi-function: .....

Insulation resistance: .....

Continuity: .....

Earth electrode resistance: .....

Earth fault loop impedance: .....

RCD: .....

Deviations from BS 7671: 2008: .....

and further comments: .....