

Serial 210419158/1 4083219

Property reference 1CH00007

PART 1 : DETAILS OF CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR

Registration no: Branch No. **000**
 Trading title: **believe Housing**
 Address: **Coast House
Spectrum 4
Spectrum Business Park
Seaham**
 Post code: **SR7 7TT** Tel no.: **0300 1311999**

DETAILS OF THE CLIENT

Contractor Reference Number:
 Name: **believe Housing**
 Address: **Coast House
Spectrum 4
Spectrum Business Park
Seaham**
 Post code: **SR7 7TT** Tel no.: **0300 1311999**

DETAILS OF THE INSTALLATION

Occupier:
 Address: **Attlee Square Community Hub
Sherburn Village
Co Durham**
 Post code: **DH6 1JN** Tel no.:

PART 2 : PURPOSE OF THE REPORT

Purpose for which this report is required

**Domestic
Periodic Inspection**

Date when inspection and testing was carried out

14/04/2022

Records of
previous
inspection
available?

No

Available from

N/A

Previous report
date

21/11/2017

PART 3 : SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation
(in terms of electrical safety)

The installation is safe for continued use. All accessories appear to be in good condition. Existing C.U. in good condition. Meter tails and isolator switch appear to be in good order - no sign of overheating. Earthing / Bonding in good condition.; Evidence of mixed wiring colours;

Estimated age of electrical
installation

30+ yrs

Evidence of additions or
alterations

Yes

If Yes, estimated age

15 yrs

Estimated age of the wiring
system

30+ yrs

Overall assessment of the installation in terms of its suitability for
continued use

SATISFACTORY*

with C3 recommendations

* Observation classified as 'Improvement recommended (code C3)' (see PART 6) should be considered

PART 4 : DECLARATION

INSPECTION AND TESTING

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 7, having exercised reasonable skill and care when carrying out the inspection and testing of the existing installation, hereby CERTIFY that the information in this report, including the observations (PART 6) and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and the limitations on the inspection and testing.

Name **Nathan Davison**

Signature

Date **14/04/2022**

REVIEWED BY THE REGISTERED QUALIFIED SUPERVISOR FOR THE APPROVED CONTRACTOR

Name **Gary Barnfather**

Signature

Date **14/09/2022**

PART 5 : NEXT INSPECTION

I/We (as indicated on page 1) recommend, subject to the necessary remedial work being taken, the installation should be further inspected and tested after an interval of not more than **5 Years** (i.e. by **14/04/2027**) or **change of tenancy**

Reason for
recommendation**Engineer judgement**

* The proposed date for the next inspection should take into consideration any legislative or licencing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life

PART 6 : OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

CODES:	One of the following codes, as appropriate, has been allocated to each of the observations made below to indicate to the person(s) responsible for the electrical installation the degree of urgency for remedial action.	Code C1 'Danger present' Risk of injury. Immediate remedial action required.	Code C2 'Potentially dangerous' Urgent remedial action required	Code C3 'Improvement recommended'	Code FI 'Further investigation required'
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Referring to the Schedule of Items Inspected (see PART 10), and the attached Schedule of Circuit Details and Test Results (see PART 12), and subject to the limitations specified in PART 7:

The following observations and recommendations for action are made

Schedule of items inspected Observations

ITEM	OBSERVATION(S)	COMMENTS/LOCATION REFERENCE	CODE	COMPLETE
5.6	5.6 Condition of enclosure(s) in terms of fire rating	Made from combustible material	C3	
6.11	6.11 Adequacy of cables for current carrying capacity with regard for the type and nature of the installation	Circuits de rated at time of testfor reference method 101	C3	Yes

General Observations

ITEM	OBSERVATION(S)	COMMENTS/LOCATION REFERENCE	CODE	COMPLETE
1	Main protective bonding connection to water not accessible for inspection. 132.12	Connection verified using wandering lead method.	C3	
2	No 30ma RCD protection to circuits installed in a special location. 701.411.3.3.	Rectified at time of test		Yes

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PART 7 : DETAILS AND LIMITATIONS OF INSPECTION AND TESTING

The inspection and testing has been carried out in accordance with BS7671:2018, as amended. Cables concealed within trunking and conduits, concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected unless specifically agreed between the client and the inspector prior to the inspection.

Details of the installation covered by this report

All Rooms;
Full test

Agreed limitations including the reasons, if any, on the inspection and testing

Minimum of 10% of accessories removed for inspection. Cables accessible from loft hatch have been visually inspected. All connections in consumer unit are to correct torque setting. Polarity confirmed at all socket outlets. Insulation resistance tested line + neutral to earth only;

Agreed with

Alan Scott - Electrical Manager

Extent of sampling

All fixed electrical circuits and 20 % of accessories visually inspected.

Operational limitations including the reasons

Zs calculated from $Z_s = Z_e + (R1 + R2)$; No access to primary supply;

PART 8 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements

TN-C-S

Supply protective device

BS(EN)

Sealed

Type

Sealed

Rated current

Sealed

A

Supply Conductor CSA

Sealed

mm²

Number and type of live connectors

AC 1-Phase 2 wire

Primary Supply Conductor Material

Copper

Primary Supply Conductor CSA

25

mm²

Confirmation of supply polarity

✓

Number of sources

1

Nature of Supply Parameters

Nominal line voltage U

N/A

V

Nominal line voltage to Earth (Uo)

230v

V

Nominal frequency (f)

50

Hz

Prospective fault current (I_{pf})

1.4

kA

External loop impedance (Z_e)

0.17

Ω

PART 9 : PARTICULARS OF THE INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing

Distributors facility

Where an earth electrode is used:

Type (e.g. Rod(s), Tapes etc.)

N/A

Location

N/A

Method of measurement

N/A

Electrode resistance to Earth

N/A

Ω

Other

Number of smoke alarms

3

Main protective conductors

Earthing conductor:

Conductor material

Copper

CSA

16

mm²

Connection/continuity verified

✓

None

Main protective bonding conductors:

Conductor material

Copper

CSA

10

mm²

Connection/continuity verified

✓

Main protective bonding connections

Water installation pipes

✓

Gas installation pipes

✓

Structural steel

N/A

Oil installation pipes

N/A

Lightning protection

N/A

District heating

N/A

Other incoming services:

N/A

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

Type BS(EN)

60947-3

Location

Staff room

No of poles

2

Rating/setting of device (A)

N/A

Current rating (A)

100

Voltage rating (V)

230

Conductor CSA

25

mm²

Where an RCD is used as the main switch:

RCD rated residual operating current (I_{Δn})

100mA

Measured operating time

273.3ms

Rated time delay

S ms

PART 10 : SCHEDULE OF ITEMS INSPECTED

OUTCOMES	Acceptable condition	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A	Further investigation required	FI
ITEM NO	DESCRIPTION								OUTCOME	Comments/Location reference			
1.0	EXTERNAL CONDITION OF ELECTRICAL INTAKE EQUIPMENT (visual inspection only)												
	(If inadequacies are identified with the intake equipment, it is recommended the person ordering the report informs the appropriate authority)												
1.1	Service cable								✓				
1.2	Service head								✓				
1.3	Earthing arrangement								✓				
1.4	Meter tails								✓				
1.5	Metering equipment								✓				
1.6	Isolator (where present)								✓				
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR PARALLEL OR SWITCHED ALTERNATIVE SOURCES												
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply								✓				
2.2	Adequate arrangements where a generating set operates in parallel to the public supply								✓				
2.3	Presence of alternative / additional supply arrangement warning notice(s) at or near equipment, where required								✓				
3.0	AUTOMATIC DISCONNECTION OF SUPPLY												
3.1	Main earthing and bonding arrangements												
	a) Presence and condition of distributors earthing arrangement								✓				
	b) Presence and condition of earth electrode arrangement, if present								✓				
	c) Adequacy of earthing conductor size								✓				
	d) Adequacy of earthing conductor connections								✓				
	e) Accessibility of earthing conductor connections								✓				
	f) Adequacy of main protective bonding conductor size(s)								✓				
	g) Adequacy of main protective bonding connections								✓				
	h) Accessibility of main protective bonding connections								✓				

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	i) Accessibility and condition of other protective bonding connections	✓	
	j) Provision of earthing/bonding labels at all appropriate locations	✓	
3.2	FELV		
	a) Source providing at least simple separation	✓	
	b) Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises	N/A	
4.0	OTHER METHODS OF PROTECTION (where the methods of protection listed below are employed, details should be provided in comments) (See "Examples of items requiring inspection" Edition 18 page 477)		
4.1	Non-conducting location (418.1)	N/A	
4.2	Earth-free local equipotential bonding (418.2)	N/A	
4.3	Electrical separation for more than one item of equipment (Section 413; 418.3)	N/A	
4.4	Double insulation (Section 412)	N/A	
4.5	Reinforced insulation (Section 412)	N/A	
4.6	Use of obstacles (417.2)	N/A	
4.7	Placing out of reach	N/A	
5.0	DISTRIBUTION EQUIPMENT		
5.1	Adequacy of working space/accessibility of the equipment	✓	
5.2	Security of fixing	✓	
5.3	Condition of insulation of live parts	✓	
5.4	Adequacy/security of barriers	✓	
5.5	Condition of enclosure(s) in terms of IP rating	✓	
5.6	Condition of enclosure(s) in terms of fire rating	C3	Made from combustible material
5.7	Enclosure not damaged/deteriorated so as to impair safety	✓	
5.8	Presence and effectiveness of obstacles	✓	
5.9	Presence of main switch(es) linked where required	✓	
5.10	Operation of main switch(es) (functional check)	✓	
5.11	Correct identification of circuit protective devices	✓	
5.12	Adequacy of protective devices for prospective fault current	✓	
5.13	RCD(s) provided for fault protection - including RCBOs	✓	
5.14	RCD(s) provided for additional protection - including RCBOs	✓	
5.15	RCD(s) provided for protection against fire - including RCBOs	✓	
5.16	Manual operation of circuit-breakers and RCDs to prove disconnection	✓	
5.17	Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional test)	✓	
5.18	Presence of RCD six-monthly retest notice at or near equipment where required	✓	
5.19	Presence of diagrams, charts or schedules at or near equipment, where required	✓	
5.20	Presence of non-standard (mixed) cable colour warning notice at or near equipment where required	✓	
5.21	Presence of next inspection recommendation label	✓	
5.22	All other required labelling provided (please specify)	✓	
5.23	Compatibility of protective device(s), base(s) and other components	✓	
5.24	Single pole switching or protective devices in line conductor only	✓	
5.25	Protection against mechanical damage where cables enter equipment	✓	
5.26	Protection against electromagnetic effects where cables enter ferrometallic enclosures	✓	
6.0	DISTRIBUTION/FINAL CIRCUITS		
6.1	Identification of conductors	✓	
6.2	Cables correctly supported throughout their length	✓	
6.3	Condition of the insulation of live parts	✓	
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking	✓	
6.5	Suitability of containment systems for continued use (including flexible conduit)	✓	
6.6	Cables correctly terminated in enclosures (indicate extent of sampling in Part 7 of report)	✓	
6.7	Indication that SPD(s) continued functionality confirmed	✓	
6.8	Adequacy of AFDDs, where specified	✓	
6.9	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	✓	
6.10	Examination of cables for signs of unacceptable thermal and mechanical damage/deterioration	✓	
6.11	Adequacy of cables for current carrying capacity with regard for the type and nature of the installation	C3	Circuits de rated at time of testfor reference method 101
6.12	Adequacy of protective devices; type and rated current for fault protection	✓	
6.13	Presence and adequacy of circuit protective conductors	✓	
6.14	Co-ordination between conductors and overload protective devices	✓	
6.15	Cable installation methods/practices appropriate to the type and nature of installation and external influences	✓	
6.16	Cables where exposed to direct sunlight, of a suitable type or adequate protection against solar radiation	✓	
6.17	Cables adequately protected against damage and abrasion	✓	
6.18	Provision of additional protection by an RCD not exceeding 30mA		

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	a) For all socket-outlets with a rated current not exceeding 32A, unless exempt	✓	
	b) Supplies for mobile equipment not exceeding a rating not exceeding 32A for use outdoors	✓	
	c) For cables concealed in walls/partitions at a depth of less than 50mm	✓	
	d) For cables installed in walls/partitions containing metal parts regardless of depth	✓	
	e) Circuits supplying luminaires withing domestic (household) premises	✓	
	Note: Older installations designed prior to BS7671:2008 may not have been provided with RCDs for additional protection		
6.29	Provision of fire barriers, sealing arrangements and protection against thermal effects	✓	
6.20	Band II cables segregated / separated from Band I cables	✓	
6.21	Cables segregated/separated from non-electrical services	✓	
6.22	Termination of cables at enclosures (identify numbers and locations of items inspected in PART 7 of this report)		
	a) Connections under no undue strain	✓	
	b) No basic insulation of a conductor visible outside an enclosure	✓	
	c) Connections of live conductors adequately enclosed	✓	
	d) Adequacy of connection at point of entry to enclosure	✓	
6.23	Temperature rating of cable insulation adequate	✓	
6.24	Condition of accessories including socket-outlets, switches and joint boxes satisfactory	✓	
6.25	Suitability of accessories for external influences	✓	
6.26	Single-pole switching or protective devices in line conductors only	✓	
6.27	Adequacy of connections, including CPCs, within accessories and to fixed and stationary equipment	✓	
7.0	ISOLATION AND SWITCHING		
7.1	Isolators		
7.1.1	a) Presence and condition of appropriate devices	✓	
	b) Acceptable location (local or remote)	✓	
	c) Capable of being secured in the OFF position	✓	
	d) Correct operation verified	✓	
	e) Clearly identified by position and/or durable marking(s)	✓	
	f) Warning label posted in situations where live parts cannot be isolated by the operation of a single device	✓	
7.2	Switching off for mechanical maintenance:		
	a) Presence and condition of appropriate devices	✓	
	b) Acceptable location	✓	
	c) Capable of being secured in the OFF position	✓	
	d) Correct operation verified	✓	
	e) Clearly identified by position and/or durable marking(s)	✓	
7.3	Emergency switching off/stopping:		
	a) Presence and condition of appropriate devices	✓	
	b) Readily accessible for operation when danger might occur	✓	
	c) Correct operation verified	✓	
7.3.4	Clearly identified by position and/or durable marking(s) (537.4.2.7)	✓	
7.4	Functional switching:		
	a) Presence and condition of appropriate devices	✓	
	b) Correct operation (functionality) verified	✓	
8.0	CURRENT USING EQUIPMENT (permanently connected)		
8.1	Condition of equipment in terms of IP rating	✓	
8.2	Equipment does not constitute a fire hazard	✓	
8.3	Enclosure not damaged/deteriorated so as to impair safety	✓	
8.4	Suitability for the environment and external influences	✓	
8.5	Security of fixing	✓	
8.6	Cable entry holes in ceiling above luminaires sized or sealed so as to restrict spread of fire (indicate extent of sampling in PART 7 of report)	✓	
	List number and location of luminaires inspected in comments		
8.7	Recessed luminaires (e.g. downlighters)		
	a) Correct type of lamps fitted	✓	
	b) Installed to minimize the build-up of heat	✓	
	c) No sign of overheating to surrounding building fabric	✓	
	d) No signs of overheating to conductors/terminations	✓	
9.0	LIST ALL SPECIAL INSTALLATIONS OR LOCATIONS COVERED BY THIS REPORT		
	Indicate, in the comments, if the relevant requirements of PART 7 are satisfied and append results of inspection		

Inspected by **Nathan Davison**

Date **14/04/2022**

Signature



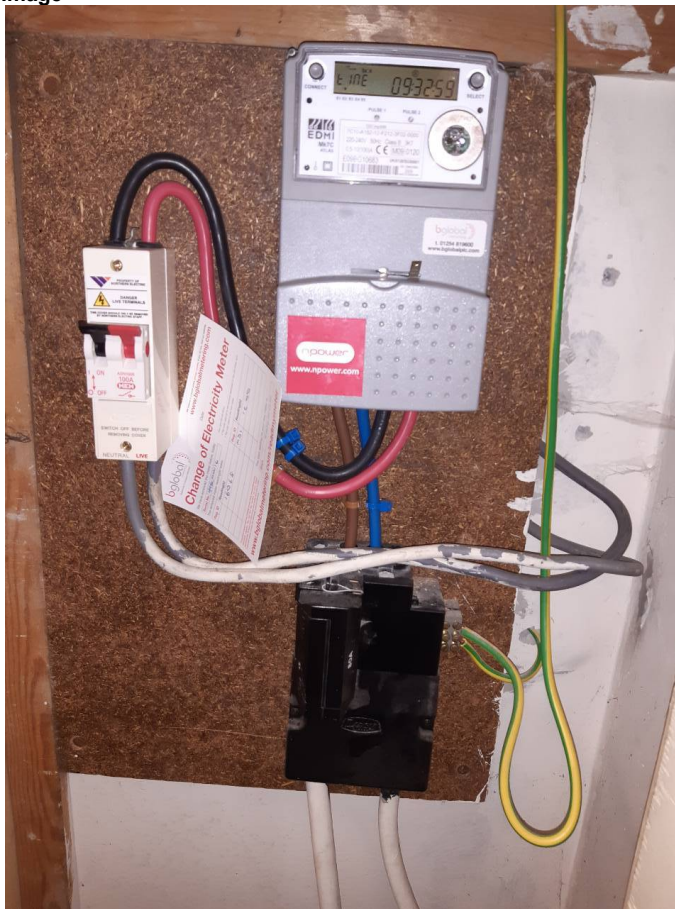
Serial 210419158/1 4083219**Property reference 1CH00007****PART 11 : SCHEDULES AND ADDITIONAL PAGES**

Schedule of additional records

The attached schedules are part of this document and this report is only valid when they are attached to it. Schedule of items inspected (PART 10) & Schedule of circuit details and test results (PART 12) are attached. This document consists of 12 pages.

Serial 210419158/1 4083219**Property reference 1CH00007****GENERAL PHOTOGRAPHS**

	Description	Image
1	Stop tap	

Serial 210419158/1 4083219**Property reference 1CH00007****METER PHOTOGRAPHS****Description
Meter****Image**

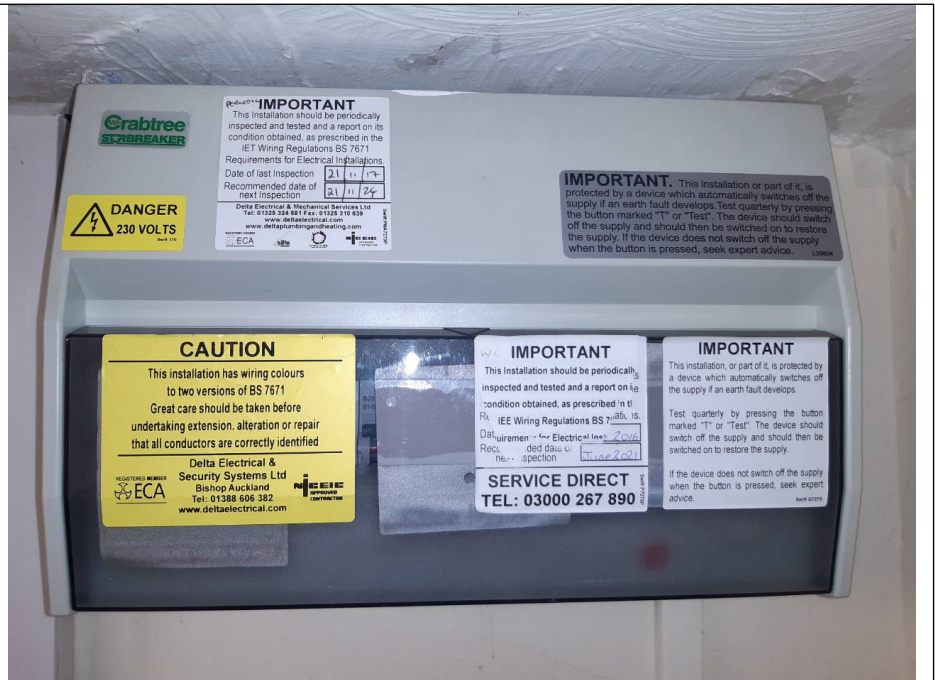
Serial 210419158/1 4083219

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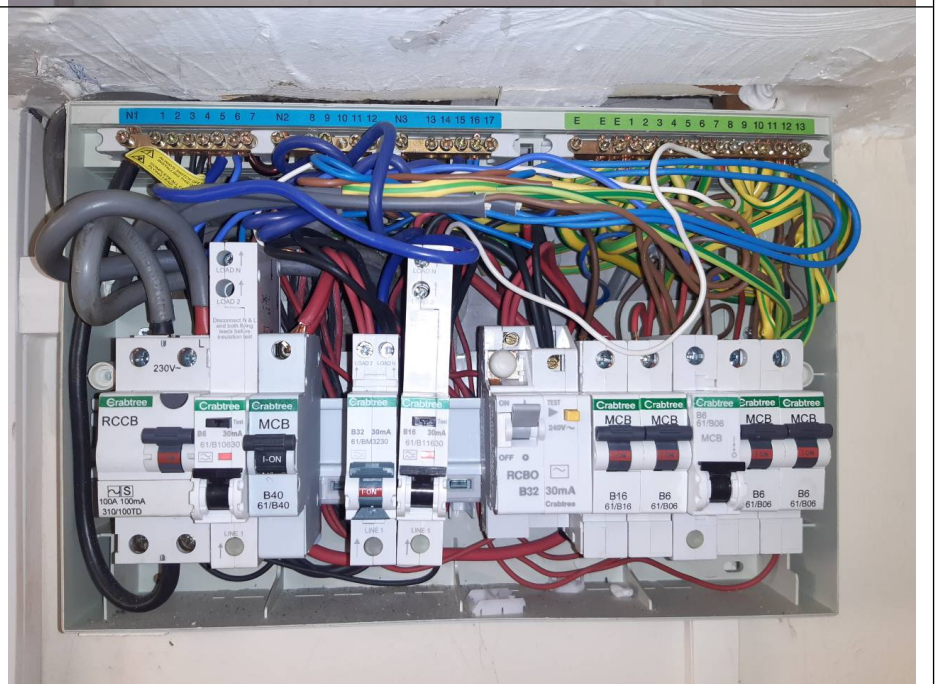
CONSUMER UNIT PHOTOGRAPHS

Staff room -DB1

DB

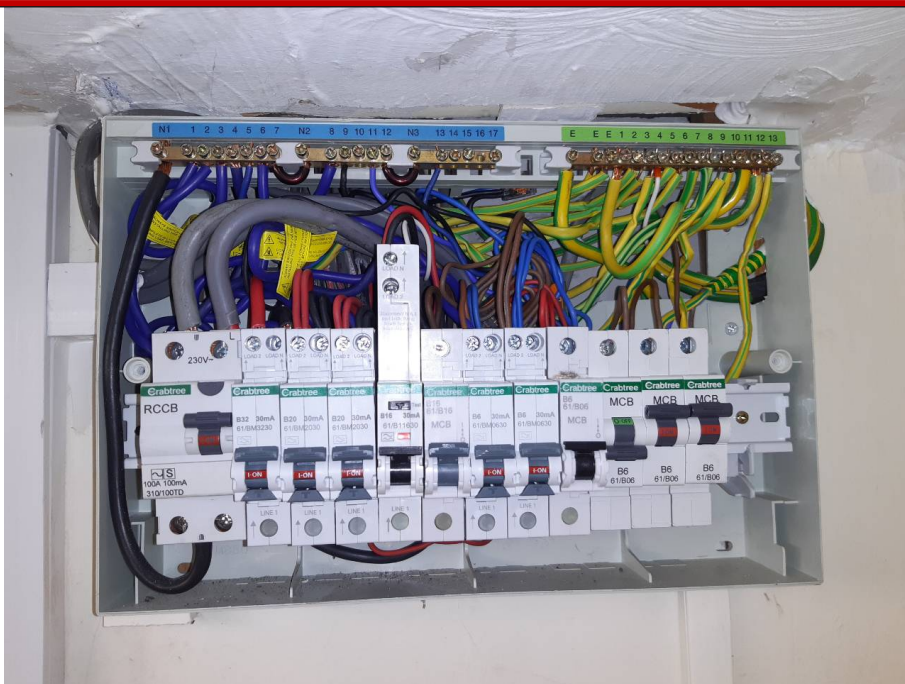


DB



Serial 210419158/1 4083219**Property reference 1CH00007**

DB after



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PART 12 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

CONSUMER UNIT / DISTRIBUTION BOARD DETAILS

Designation of consumer unit/DB

DB1

Location of consumer unit/DB

Staff room

Manufacturer

Crabtree

Zs at DB (Ω)

0.17

Prospective fault current at DB (kA)

1.4

Comment about condition of DB

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

Smoke alarms; CO detectors;

CODES for type of wiring	(A)	Thermoplastic insulated/ sheathed cables	(B)	Thermoplastic cables in metallic conduit	(C)	Thermoplastic cables in non-metallic conduit	(D)	Thermoplastic cables in metallic trunking	(E)	Thermoplastic cables in non-metallic trunking	(F)	Thermoplastic /SWA cables	(G)	Thermosetting / SWA cables	(H)	Mineral insulated cables	(O)
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														CIRCUIT IMPEDANCES (Ω)													
						CIRCUIT CONDUCT OR csa			PROTECTIVE DEVICES						RING FINAL CIRCUITS ONLY (MEASURED END TO END)			ALL CIRCUITS (complete at least one column)		INSULATION RESISTANCE						TEST BUTTONS	
Circuit Number	Circuit Description	CIRCUIT TYPE	TYPE OF WIRING (see code)	REFERENCE METHOD (see Appendix 4 of BS7671)	NUMBER OF POINTS SERVED	Live (mm²)	CPC (mm²)	Max disconnection time permitted by BS7671 (s)	BS (EN)	TYPE	(A) RATING	(KA) SHORT CIRCUIT CAPACITY	RCD OPERATING CURRENT I _{Δn}	MAXIMUM Z _s PERMITTED BY BS7671	r1 Line	r n Neutral	R2 cpc	R1 + R2	R2	LIVE/LIVE (MΩ)	LIVE/EARTH (MΩ)	TEST VOLTAGE DC	POLARITY	MAXIMUM MEASURED EARTH FAULT LOOP IMPEDANCE Z _s	RCD Operating Time (ms)	RCD	AFDD
1	Cooker	F	A	101	1	10	4	0.4	61009	B	32	6	30	1.37	N/A	N/A	N/A	0.09	N/A	N/A	>200	500	Yes	0.26	16	Pass	N/A
2	Sockets	F	A	101	7	2.5	1.5	0.4	61009	B	20	6	30	2.19	0.46	0.46	0.78	0.31	N/A	N/A	>200	500	Yes	0.35	15	Pass	N/A
3	Sockets Kitchen	F	A	101	5	2.5	1.5	0.4	61009	B	20	6	30	2.19	0.18	0.18	0.33	0.13	N/A	N/A	>200	500	Yes	0.32	17	Pass	N/A
3	Store/staff sockets	F	A	101	5	2.5	1.5	0.4	61009	B	16	6	30	2.73	N/A	N/A	N/A	0.31	N/A	N/A	>200	500	Yes	0.48	19	Pass	N/A
4	Door entry	F	A	101	1	2.5	1.5	0.4	61009	B	16	6	30	2.73	N/A	N/A	N/A	0.16	N/A	N/A	>200	500	Yes	0.33	20	Pass	N/A
6	Outside lighting	F	A	101	3	1.5	1	0.4	61009	B	6	6	30	7.28	N/A	N/A	N/A	0.29	N/A	N/A	>200	500	Yes	0.46	20	Pass	N/A
7	Lighting/smoke alarms	F	A	101	20	1.5	1	0.4	61009	B	6	6	30	7.28	N/A	N/A	N/A	0.57	N/A	N/A	>200	500	Yes	0.74	17	Pass	N/A
8	Carbon detector	F	A	101	1	1.5	1	0.4	60898	B	6	6	100	7.28	N/A	N/A	N/A	0.19	N/A	N/A	>200	500	Yes	0.36	273.3	Pass	N/A
9	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	Spur beside entrance	F	A	101	1	1.5	1	0.4	60898	B	6	6	100	7.28	N/A	N/A	N/A	0.15	N/A	N/A	>200	500	Yes	0.32	273.3	Pass	N/A
11	Central Heating	F	A	101	1	1.5	1	0.4	60898	B	6	6	100	7.28	N/A	N/A	N/A	0.21	N/A	N/A	>200	500	Yes	0.38	273.3	Pass	N/A
12	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	Spare way	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit types: D = Distribution Circuit, F = Final Circuit, R = RCD, M = Main Switch

* CSA of CPC: Cn = Conduit, Ar = Armour, Tr = Trunking, Sh = Sheath, Sb = Split Barrel

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

*** BOARD IS CONNECTED TO THE ORIGIN OF THE INSTALLATION ***

TEST INSTRUMENT (SERIAL NUMBERS) USED

MULTI-FUNCTION

CONTINUITY

INSULATION RESISTANCE

EARTH ELECTRODE
RESISTANCEEARTH FAULT LOOP
IMPEDANCE

RCD

1540132

N/A

N/A

N/A

N/A

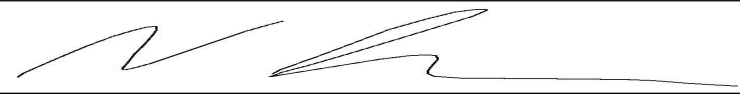
N/A

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TESTED BY

Signature



Name **Nathan Davison**

Position

Date of testing **14/04/2022 00:00:00**

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<< END OF CONSUMER UNITS/DISTRIBUTION BOARDS >>