

DOMESTIC ELECTRICAL INSTALLATION CONDITION REPORT

Requirements For Electrical Installations - BS 7671 IET Wiring Regulations

Report Reference:

3802

1 DETAILS OF THE PERSON ORDERING THE REPORT

Client: Arches Housing Ltd

Address: 122 Burngreave Road, Sheffield, S3 9DE

2 REASON FOR PRODUCING THIS REPORT

Reason for producing this report:

To assess compliance with BS 7671.

Date(s) on which inspection and testing was carried out: 29/03/2022

3 DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Installation Address: Installation Address, Landlord supply Dean Court, Sheffield, S61 2JY

Estimated age of wiring system: >20 years

Evidence of additions/
alterations:

N/A

if yes, estimated age: N/A years

Installation records available? (Regulation 651.1)

N/A

Date of last inspection:

N/A

4 EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

Full

Agreed limitations including the reasons (see Regulation 653.2):

25% of the installation in accordance with item 3.8.2 of Guidance Note 3.

Agreed with: Arches Housing Ltd

Operational limitations including the reasons:

-

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671:2018 (IET Wiring Regulations) as amended to 2020.

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.

5 SUMMARY OF THE CONDITION OF THE INSTALLATION

See page 3 for a summary of the general condition of the installation in terms of electrical safety.

Overall assessment of the installation in terms of it's suitability for continued use*:

SATISFACTORY

* An unsatisfactory assessment indicates that dangerous (Code C1) and/or potentially dangerous (Code C2) conditions have been identified.

6 RECOMMENDATIONS

Where the overall assessment of the suitability of the installation for continued use on page 1 is stated as 'UNSATISFACTORY', I/We recommend that any observations classified as 'Code 1 - Danger Present' or 'Code 2 - Potentially dangerous' are acted upon as a matter of urgency.

Investigation without delay is recommended for observations identified as 'FI - Further Investigation Required'.

Observations classified as 'Code 3 - Improvement recommended' 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:

5 Years or change of tenant/owner

Note: The proposed date for the next inspection should take into consideration the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.

8 GENERAL CONDITION OF THE INSTALLATION

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

Good

9 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 4 of this report.

Trading Title: Earth Electrical Response Ltd

Address: 28 Salisbury Avenue
Dronfield

Postcode: S18 1WD


Registration Number (if applicable): 16147

Telephone Number: 07833 608363

For the INSPECTION, TESTING AND ASSESSMENT of the report:

Name: Michael Shipley Position: Electrician Signature:  Date: 29/03/2022

Report reviewed and authorised for issue by:

Name: Tim Turner Position: Electrician Signature:  Date: 29/03/2022

10 TEST INSTRUMENTS

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

Multi-functional:	9043063	Earth electrode resistance:	9043063
Insulation resistance:	9043063	Earth fault loop impedance:	9043063
Continuity:	9043063	RCD:	9043063

11 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements	Number and Type of Live Conductors	Nature of Supply Parameters	Supply Protective Device
TN-S <input type="checkbox"/> N/A	1-phase (2 wire): <input checked="" type="checkbox"/> 3-phase (3 wire): N/A	Nominal voltage(s): U: 240 V U _o : 230 V	BS(EN): LIM
TN-C-S <input checked="" type="checkbox"/>	1-phase (3 wire): N/A 3-phase (4 wire): N/A	Nominal frequency, f: 50 Hz	Type: --
TT <input type="checkbox"/> N/A	Other: N/A	Prospective fault current, I _{pf} : 2.4 kA	Rated current: 100 A
	Confirmation of supply polarity: <input checked="" type="checkbox"/>	External earth fault loop impedance, Z _e : 0.1 Ω	Short-circuit capacity: - kA

12 PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing	Details of Installation Earth Electrode (where applicable)		
Distributor's facility: <input checked="" type="checkbox"/>	Type: N/A	Location: N/A	
Installation earth electrode: N/A	Resistance to Earth: N/A Ω	Method of measurement: N/A	
Maximum Demand (Load): - Amps	Protective measure(s) against electric shock: ADS		
Main Switch / Switch-Fuse / Circuit-Breaker / RCD Type: 60947-3 Isolator	Current rating: 100 A	Supply conductors material: Copper	If RCD main switch: Rated residual operating current (I _{Δn}): - mA
BS(EN) Number of poles: 2	Fuse/device rating or setting: 100 A	Supply conductors csa: 25 mm ²	Rated time delay: N/A ms
	Voltage rating: 240 V		Measured operating time (at I _{Δn}): - ms
Earthing and Protective Bonding Conductors		Bonding of extraneous-conductive parts	
Earthing conductor material: Copper	csa: 16 mm ²	Connection/continuity verified: <input checked="" type="checkbox"/>	To water installation: <input checked="" type="checkbox"/>
Main protective bonding conductors material: Copper	csa: 10 mm ²	Connection/continuity verified: <input checked="" type="checkbox"/>	To oil installation pipes: N/A
		To structural steel: N/A	To gas installation pipes: <input checked="" type="checkbox"/>
			To lightning protection: N/A
			To other service(s): N/A

13 INSPECTION SCHEDULE FOR DOMESTIC & SIMILAR PREMISES WITH UP TO 100A SUPPLY

Item	Description	Comments	Outcome
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)		
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 OTHER 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 connection 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 other protective bonding connections (543.3.1; 543.3.2)	-	LIM
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 (421.1.201; 526.5)	-	✓
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)	-	✓
4.6	Presence of main linked switch (as required by 462.1.201)	-	✓
4.7	Operation of main switch (functional check) (643.10)	-	✓
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)	-	✓
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	-	✓
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)	-	✓
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)	-	✓
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)	-	✓
4.14	Compatibility of protective devices, bases and other components; correct type and rating (No signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; Sections 432, 433)	-	✓

OUTCOMES													
Acceptable condition	✓	Unacceptable condition	C1 or C2	Improvement recommended	C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
	✓												

14 INSPECTION SCHEDULE FOR DOMESTIC & SIMILAR PREMISES WITH UP TO 100A SUPPLY

Item	Description	Comments	Outcome
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)	-	✓
4.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11)	-	✓
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)	-	✓
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)	-	✓
4.19	RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3; 415.1)	-	✓
4.20	Confirmation of indication that SPD is functional (651.4)	-	N/A
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	-	✓
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	-	N/A
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	-	N/A
5.0	FINAL CIRCUITS		
5.1	Identification of conductors (514.3.1)	-	LIM
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	-	LIM
5.3	Condition of insulation of live parts (416.1)	-	✓
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	-	✓
5.4.1	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	Coordination 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; Section 543)	-	✓
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 4. Extent and Limitations) (522.6.202)	-	LIM
5.11	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section 4. Extent and Limitations) (522.6.204)	-	LIM
5.12	Provision of additional requirements for protection by RCD not exceeding 30mA:		
5.12.1	For all socket-outlets of rating 32A or less, unless an exception is permitted (411.3.3)	-	N/A
5.12.2	For the supply of mobile equipment not exceeding 32A rating for use outdoors (411.3.3)	-	N/A
5.12.3	For cables concealed in walls at a depth of less than 50mm (522.6.202; 522.6.203)	-	N/A
5.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	-	N/A
5.12.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)	-	N/A

OUTCOMES

Acceptable condition	✓	Unacceptable condition	C1 or C2	Improvement recommended	C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
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15 INSPECTION SCHEDULE FOR DOMESTIC & SIMILAR PREMISES WITH UP TO 100A SUPPLY

Item	Description	Comments	Outcome
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)	-	✓
5.15	Cables segregated/separated from communications cabling (528.2)	-	✓
5.16	Cables segregated/separated from non-electrical services (528.3)	-	✓
5.17	Termination of cables at enclosures - indicate extent of sampling in Section 4 of the report (Section 526)		
5.17.1	Connections soundly made and under no undue strain (526.6)	-	✓
5.17.2	No basic insulation of a conductor visible outside enclosure (526.8)	-	✓
5.17.3	Connections of live conductors adequately enclosed (526.5)	-	✓
5.17.4	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 (651.2(v))	-	✓
5.19	Suitability of accessories for external influences (512.2)	-	✓
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)	-	✓
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	-	✓
6.0	LOCATION(S) CONTAINING A BATH OR SHOWER		
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)	-	✓
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 7671:2018 (701.415.2)	-	LIM
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1 (701.512.3)	-	✓
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	-	✓
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	-	✓
6.8	Suitability of current-using equipment for particular position within the location (701.55)	-	✓
7.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS List all other special installation or locations present, if any. (Record separately the results of particular inspections)		
7.1		-	✓
7.2		-	✓
7.3		-	✓
7.4		-	✓
7.5		-	✓
7.6		-	✓
7.7		-	✓
7.8		-	✓
7.9		-	✓
7.10		-	✓

OUTCOMES

Acceptable condition	✓	Unacceptable condition		C1 or C2	Improvement recommended	C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
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16 SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Designation of consumer unit: **D.B. 1** Location: **under stairs** Prospective fault current: **2.4 kA**

Circuit number	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa			Overcurrent protective devices					RCD Maximum Z_s permitted by BS7671 Ω	Circuit impedances (Ohms)					Insulation resistance			Polarity	Maximum measured earth fault loop impedance Z_s Ω	RCD		AFDD											
					Live mm ²	cpc mm ²	Max disconnect time permitted by BS7671 s	BS(EN)	Type No	Rating A	Capacity kA	Operating current, $I_{\Delta n}$ mA		Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Live - Live M Ω	Live - Earth M Ω	Test voltage V			✓	ms		✓										
														r_1 (Line)	r_n (Neutral)	r_2 (cpc)	R_1+R_2	R_2										✓	✓								
	Main Switch	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
1	Sockets	A	C	3	2.5	1.5	0.4	61009	C	16	10	30	1.37	N/A	N/A	N/A	0.42	N/A	LIM	> 200	500	✓	0.52	15.0	✓	N/A											
2	TV and Door	A	C	2	2.5	1.5	5	60898	B	16	10	30	2.30	N/A	N/A	N/A	0.35	N/A	LIM	> 200	500	✓	0.45	N/A	✓	N/A											
3	Lights	A	C	9	1.5	1.0	5	60898	B	6	10	30	6.14	N/A	N/A	N/A	0.68	N/A	LIM	> 200	500	✓	0.78	N/A	✓	N/A											
4	Outside lights	A	C	6	1.5	1.0	5	60898	B	6	10	30	7.28	N/A	N/A	N/A	0.78	N/A	LIM	> 200	500	✓	0.88	N/A	✓	N/A											
5	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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				

CODES FOR TYPE OF WIRING	A Thermoplastic insulated/sheathed cables	B Thermoplastic cables in metallic conduit	C Thermoplastic cables in nonmetallic conduit	D Thermoplastic cables in metallic trunking	E Thermoplastic cables in nonmetallic trunking	F Thermoplastic /SWA cables	G Thermosetting /SWA cables	H Mineral insulated cables	O - Other N/A
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DOMESTIC ELECTRICAL INSTALLATION CONDITION REPORT GUIDANCE FOR RECIPIENTS

(to be appended to the Report)

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

1. The purpose of this 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 5). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger.
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 a residual current device (RCD) there should be a notice at or near the device stating that it should be tested six-monthly. For safety reasons it is important that this instruction is followed.
5. Section 4 (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 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 4.
7. For items classified in Section 7 as C1 ('Danger present'), the safety of those using the installation is at risk, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.
8. For items classified in Section 7 as C2 ('Potentially dangerous'), the safety of those using the installation may be at risk and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
9. Where it has been stated in Section 7 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. 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 6).
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 6 of the Report under 'Recommendations' and on a label at or near to the consumer unit/ distribution board.