

DOMESTIC ELECTRICAL INSTALLATION CONDITION REPORT

Requirements For Electrical Installations - BS 7671 IET Wiring Regulations

Report Reference: 141



1 DETAILS OF THE PERSON ORDERING THE REPORT

Client: Lets Let

Address: 37 Cadzow Street, Hamilton, ML3 6EE

2 REASON FOR PRODUCING THIS REPORT

Reason for producing this report:

Landlords safety report.

Date(s) on which inspection and testing was carried out: 21/08/2020

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

Installation Address: Installation Address, 16 Princes Gate, Rutherglen, Glasgow

Estimated age of wiring system: 40 years

Evidence of additions/
alterations:

if yes, estimated age: years

Installation records available? (Regulation 651.1)

Date of last inspection: N/A

4 EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

100% of the installation.

Agreed limitations including the reasons (see Regulation 653.2):

Characteristics of Primary Supply Overcurrent device. No testing of HVAC control cables. Routing of cables in prescribed zones or within mechanical protection. No Lifting of floor boards or inspection of loft space. Insulation resistance testing has been carried out to regulation 643.3.3 on circuits where it was impracticable to disconnect the load

Agreed with: Tenenat

Operational limitations including the reasons:

UNable to test equipment where access is restricted by height, furniture, stock or stored equipment

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 its 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.

7 OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached schedules of inspection and test results, and subject to the limitations specified on page 1 of this report under 'Extent of the Installation and Limitations of Inspection and Testing':

✓ There are no items adversely affecting electrical safety

or

N/A The following observations and recommendations are made

[illegible]

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

C1 Danger Present
Risk of injury. Im mediate
remedial action required

c2 Potentially dangerous
Urgent remedial action
required

c3 Improvement recommended

FI Further investigation
required without delay

Immediate remedial action required for items:

N/A

Urgent remedial action required for items:

N/A

Improvement recommended for items:

N/A

Further investigation required for items:

N/A

8 GENERAL CONDITION OF THE INSTALLATION

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

Installation is in good condition following the completion of remedial works

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: **G.W. Electrics Ltd**

Address: **Waverley House Caird Park Suite 2.3**
Hamilton
N/A

Registration Number (if applicable): **611439000**

Telephone Number: **01698652216**

Postcode: **ML3 0QA**

For the INSPECTION, TESTING AND ASSESSMENT of the report:

Name: **Andrew Wells** Position: **Electrician** Signature: *[Signature]* Date: **17/02/2021**

Report reviewed and authorised for issue by:

Name: **Gary Wedlock** Position: **Qualified Supervisor** Signature: *[Signature]* Date: **17/02/2021**

10 TEST INSTRUMENTS

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

Multi-functional:	237359	Earth electrode resistance:	N/A
Insulation resistance:	N/A	Earth fault loop impedance:	N/A
Continuity:	N/A	RCD:	N/A

11 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements	Number and Type of Live Conductors	Nature of Supply Parameters	Supply Protective Device
TN-S N/A	1-phase (2 wire): ☒ 1-phase (3 wire): N/A	Nominal voltage(s): U: 240 V Uo: 230 V	BS(EN): LIM
TN-C-S ☒	3-phase (3 wire): N/A 3-phase (4 wire): N/A	Nominal frequency, f: 50 Hz	Type: LIM
TT N/A	Other: N/A	Prospective fault current, Ipf: 1.53 kA	Rated current: LIM A
	Confirmation of supply polarity: ☒	External earth fault loop impedance, Ze: 0.15 Ω	Short-circuit capacity: LIM kA

12 PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing	Details of Installation Earth Electrode (where applicable)
Distributor's facility: ☒	Type: N/A
Installation earth electrode: N/A	Resistance to Earth: N/A Ω
	Location: N/A
	Method of measurement: N/A
Maximum Demand (Load):	Protective measure(s) against electric shock: ADS
Main Switch / Switch-Fuse / Circuit-Breaker / RCD Type	Supply conductors material: Copper
BS(EN):	If RCD main switch: Rated residual operating current (IΔn): N/A mA
Number of poles:	Rated time delay: N/A ms
	Measured operating time (at IΔn): N/A ms
	Supply conductors csa: m m²
Earthing and Protective Bonding Conductors	Bonding of extraneous-conductive parts
Earthing conductor	To water installation ☒
Conductor material: Copper csa: 16 m m²	To gas installation pipes: ☒
Connection/continuity verified: ☒	To oil installation pipes: ☐
Main protective bonding conductors	To structural steel: ☐
Conductor material: Copper csa: 10 m m²	To lightning protection: ☐
Connection/continuity verified: ☒	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	N/A	✓
1.2	Service head	N/A	✓
1.3	Earthing arrangement	N/A	✓
1.4	Meter tails	N/A	✓
1.5	Metering equipment	N/A	✓
1.6	Isolator (where present)	N/A	N/A
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)		
2.0	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)	N/A	✓
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)	N/A	N/A
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)	N/A	✓
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)	N/A	✓
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)	N/A	✓
3.6	Confirmation of main protective bonding conductor sizes (544.1)	N/A	✓
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)	N/A	✓
3.8	Accessibility and condition of other protective bonding connections (543.3.1; 543.3.2)	N/A	✓
4.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)		
4.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)	N/A	✓
4.2	Security of fixing (134.1.1)	N/A	✓
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)	N/A	✓
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)	N/A	✓
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)	N/A	✓
4.6	Presence of main linked switch (as required by 462.1.201)	N/A	✓
4.7	Operation of main switch (functional check) (643.10)	N/A	✓
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)	N/A	✓
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	N/A	✓
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)	N/A	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	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)	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

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)	N/A	✓
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)	N/A	✓
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)	N/A	✓
4.18	RCD(s) provided for fault protection - includes RCB0s (411.4.204; 411.5.2; 531.2)	N/A	N/A
4.19	RCD(s) provided for additional protection/requirements - includes RCB0s (411.3.3; 415.1)	N/A	N/A
4.20	Confirmation of indication that SPD is functional (651.4)	N/A	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)	N/A	✓
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)	N/A	✓
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	N/A	✓
5.3	Condition of insulation of live parts (416.1)	N/A	✓
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	N/A	✓
5.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)	N/A	✓
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	N/A	✓
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)	N/A	✓
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	N/A	✓
5.8	Presence and adequacy of circuit protective conductors (411.3.1; Section 543)	N/A	✓
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	N/A	✓
5.10	Concealed cables installed in prescribed zones (see Section 4. Extent and Limitations) (522.6.202)	N/A	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)	N/A	LIM
5.12	Provision of additional requirements for protection by RCD not exceeding 30 mA:		
5.12.1	For all socket-outlets of rating 32A or less, unless an exception is permitted (411.3.3)	N/A	N/A
5.12.2	For the supply of mobile equipment not exceeding 32A rating for use outdoors (411.3.3)	N/A	N/A
5.12.3	For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	N/A	N/A
5.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	N/A	N/A
5.12.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)	N/A	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

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)	N/A	N/A
5.14	Band II cables segregated/separated from Band I cables (528.1)	N/A	N/A
5.15	Cables segregated/separated from communications cabling (528.2)	N/A	N/A
5.16	Cables segregated/separated from non-electrical services (528.3)	N/A	N/A
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)	N/A	✓
5.17.2	No basic insulation of a conductor visible outside enclosure (526.8)	N/A	✓
5.17.3	Connections of live conductors adequately enclosed (526.5)	N/A	✓
5.17.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	N/A	✓
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))	N/A	✓
5.19	Suitability of accessories for external influences (512.2)	N/A	✓
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)	N/A	✓
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	N/A	✓
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)	N/A	N/A
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	N/A	N/A
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A	N/A
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	N/A	✓
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m 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)	N/A	✓
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	N/A	✓
6.8	Suitability of current-using equipment for particular position within the location (701.55)	N/A	✓
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	N/A	N/A	✓
7.2	N/A	N/A	✓
7.3	N/A	N/A	✓
7.4	N/A	N/A	✓
7.5	N/A	N/A	✓
7.6	N/A	N/A	✓
7.7	N/A	N/A	✓
7.8	N/A	N/A	✓
7.9	N/A	N/A	✓
7.10	N/A	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

16 SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Designation of consumer unit: **D.B. 1** Location: **Cupboard** Prospective fault current: **1.53 kA**

Circuit number	Circuit designation	Type of wiring	Reference Method	Number of points served	Circuit conductors: csa		Max disconnect time permitted by BS7671 s	Overcurrent protective devices				RCD		Circuit impedances (Ohms)					Insulation resistance			Polarity	Maximum measured earth fault loop impedance Zs Ω	RCD		AFDD
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Capacity kA	Operating current, IΔn mA	Maximum Zs permitted by BS7671 Ω	Ring final circuits only (measured end to end)			All circuits (one column to be completed)		Live - Live MΩ	Live - Earth MΩ	Test voltage V			Disconnection time ms	Test button operation ✓	
														r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2								
1	Shower	A	B	LIM	10	4	0.4	3036	N/A	45	4	N/A	0.56	N/A	N/A	N/A	0.19	N/A	LIM	>2000	250	✓	0.34	N/A	N/A	N/A
2	Cooker	A	B	LIM	6	2.5	0.4	3036	N/A	30	4	N/A	1.04	N/A	N/A	N/A	0.36	N/A	LIM	>2000	250	✓	0.51	N/A	N/A	N/A
3	Sockets	A	B	LIM	2.5	1.5	0.4	3036	N/A	30	4	N/A	1.04	0.44	0.44	0.46	0.55	N/A	LIM	>2000	250	✓	0.70	N/A	N/A	N/A
4	Water Heater	A	B	LIM	2.5	1.5	0.4	3036	N/A	15	4	N/A	2.43	N/A	N/A	N/A	0.35	N/A	LIM	>2000	250	✓	0.50	N/A	N/A	N/A
5	Lights	A	B	LIM	1.5	1.0	0.4	3036	N/A	5	4	N/A	9.1	N/A	N/A	N/A	0.66	N/A	LIM	>2000	250	✓	0.81	N/A	N/A	N/A

CODES FOR TYPE OF WIRING	A	B	C	D	E	F	G	H	O - Other	
	Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic /SWA cables	Thermosetting /SWA cables	Mineral insulated cables	N/A	

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.