

# ELECTRICAL INSTALLATION CONDITION REPORT

Acknowledgement: this certificate is based on the model in appendix 6 of BS 7671: 2008

Certificate No.

27 ROTHESAY.

Page 1 of 7

CLIENT DETAILS		INSTALLATION ADDRESS	
PARK HOUSES.		27 ROTHESAY AVENUE	
90 PAGET STREET		LENTON	
LOUGHBOLOUGH		NOTTINGHAM	
Postcode	LE11 5DT	Postcode	NG7 1PU

## PURPOSE FOR WHICH THIS REPORT IS REQUIRED

ELECTRICAL INSTALLATION CONDITION REPORT EXPIRED.

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

Occupier	STUDENT ACCOMODATION
Address	27 ROTHESAY AVENUE

## DESCRIPTION OF PREMISES

Domestic	<input checked="" type="checkbox"/>	Commercial	<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Other (include description)	<input type="checkbox"/>	
Estimated age of the wiring system: Years	5							
Evidence of Alterations / Additions:	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Not apparent	<input type="checkbox"/>	If 'Yes' estimate age	<input type="checkbox"/>
Date of last inspection:	JULY 2012		Records available:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	

Extent of electrical installation covered by this report	Agreed Limitations (See Reg 634.2)
VISUAL INSPECTION OF DISTRIBUTORS	NO DISMANTLING OF
EQUIPMENT, FULL INSPECTION	FITTED FURNITURE
AND TEST OF CONSUMER UNIT	Agreed with
AND ALL FINAL CIRCUITS	PARK HOUSES
	Operational limitations
	NONE

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 the inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment. This 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:

## SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety)	INSTALLATION IS SATISFACTORY
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Overall assessment of the installation in terms of its suitability for continued use:	Satisfactory	<input checked="" type="checkbox"/>	Unsatisfactory*	<input type="checkbox"/>
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\*An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.

## RECOMMENDATIONS & NEXT INSPECTION

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I/we recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as 'further investigation required' (Code FI). Observations classified as 'Improvement recommended' (code C3) should be given due consideration.

Subject to the necessary remedial action being taken, I/We recommend that this installation is further inspected and tested by 01-08-22 (Date)

## 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 of this report.

Inspected and tested by:		Report authorised for issue by:	
Name (Capitals)	OLIVER CLAYTON	Date	01-08-17
Signature		Name (Capitals)	OLIVER CLAYTON
For/on behalf of	C. CLAYTON ELECTRICAL LTD	Signature	
Position	ELECTRICIAN	For/on behalf of	C. CLAYTON ELECTRICAL LTD
Address	90 SHELTON ROAD, RADCLIFFE-ON-TRENT, NOTTS	Position	ELECTRICIAN
		Address	90 SHELTON ROAD, RADCLIFFE-ON-TRENT, NOTTS

CP Scheme: EECISA

N/A

Membership No: 22348

# ELECTRICAL INSTALLATION CONDITION REPORT cont.

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Certificate No.

27 ROTHESAI

## SUPPLY CHARACTERISTICS & EARTHING ARRANGEMENTS

Earthing Arrangements		Number of Live Conductors		Nature of Supply Parameters	
TN-C	TN-S	Phase	Wire	Normal Voltage U <sub>0</sub> *	V
TN-C-S ✓	TT	1	2	230	
IT		Other		Nominal Frequency f*	Hz
		Confirmation of supply polarity		Prospective fault current I <sub>pf</sub>	kA
Supply Protective Device Characteristics				External loop impedance Z <sub>e</sub> <sup>†</sup>	
Type	ADS	Nominal current rating	100 A	0.15	Ω
				* by enquiry	† by enquiry or by measurement

## PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of Earthing	Details of Installation Earth Electrode (where applicable)	
Distributor's facility ✓	Type [eg. rod(s) tape etc]	N/A
Installation earth electrode N/A	Electrode resistance to Earth	N/A Ω
	Location	N/A

## Main Protective Conductors

Earthing conductor:	Material	16	mm <sup>2</sup>	Continuity and connection verified	<input checked="" type="checkbox"/>
Main protective bonding conductors: (to extraneous conductors parts)	Material	10	mm <sup>2</sup>	Continuity and connection verified	<input checked="" type="checkbox"/>
To water installation pipes <input checked="" type="checkbox"/>	To gas installation pipes <input checked="" type="checkbox"/>	To oil installation pipes <input type="checkbox"/>	To structural steel		<input type="checkbox"/>
To lightning protection <input type="checkbox"/>	To other <input type="checkbox"/>	Specify			

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

BS, Type	No. of poles	2	Voltage rating	230 V
Location	Current rating	100 A	Fuse rating or setting	N/A A
If RCD main switch: Rated residual operating current I <sub>Δn</sub> = N/A mA Rated time delay N/A ms Measured operating time N/A ms (at I <sub>Δn</sub> )				

## OBSERVATIONS

Referring to the attached schedules of inspection and test results, and subject to the limitations specified at the **Extent and limitations of inspection and testing** section. No remedial action is required  The following observations are made  See below

OBSERVATIONS (Include schedule reference as appropriate)	CLASSIFICATION CODE
CONSUMER UNIT NOT FIRE RATED TO BS 7671 AMD 3	C3

One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action. **C1** - Danger present. Risk of injury. Immediate remedial action required. **C2** - Potentially dangerous - urgent remedial action required **C3** - Improvement recommended **F1** - Further investigation required without delay.

## Schedules

The attached Schedules are part of this document and this Certificate is valid only when they are attached to it.

No. of Inspection Schedules attached:	3	No. of Test Result Schedules attached:	1
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# ELECTRICAL INSTALLATION CONDITION REPORT cont.

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Certificate No.

27 ROTHESAY.

Page 3 of 7

OUTCOMES	Acceptable condition	√	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A
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Item	Description	Outcome
(Use codes above. Provide additional comment where appropriate. C1, C2, C3 & FI coded items to be recorded under observations in the Condition Report)		
<b>1.0</b>	<b>DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT</b>	
1.1	Condition of service cable	✓
1.2	Condition of service head	✓
1.3	Condition of distributor's earthing arrangement	✓
1.4	Condition of meter tails - Distributor / Consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of isolator (where present)	N/A
<b>2.0</b>	<b>PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)</b>	
<b>3.0</b>	<b>EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)</b>	
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 (543.3.2)	✓
<b>4.0</b>	<b>CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)</b>	
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)	C3
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)	✓
4.10	Presence of RCD quarterly 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)	✓
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 switching or 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)	✓

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Certificate No.

27 ROTHESAY

Page 4 of 7

OUTCOMES	Acceptable condition	√	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A
Item	Description											Outcome (Use codes above. Provide additional comment where appropriate. C1, C2, C3 & FI coded items to be recorded under observations in the Condition Report)
<b>4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) - continued</b>												
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 (411.4.9; 411.5.2; 531.2)											N/A
4.19	RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1)											✓
4.20	Confirmation of indication that SPD is functional (534.2.8)											✓
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
<b>5.0 FINAL CIRCUITS</b>												
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, ducting 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	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 (411.3.1.1; 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: Extent and limitations) (522.6.202)											LIM
5.11	Cables concealed under floors, above ceilings or in walls / partitions, adequately protected against damage (See extent and limitations) (522.6.204)											LIM
5.12	Provision of additional protection by RCD not exceeding 30mA:											✓
	• for all socket-outlets of rating 20 A or less unless an exception is permitted (411.3.3)											✓
	• for supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)											N/A
	• for cables concealed in walls at a depth of less than 50mm (522.6.202, 203)											✓
	• for cables concealed in walls / partitions containing metal parts regardless of depth (522.6.203)											N/A
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)											✓
5.17	Termination of cables at enclosures—indicate extent of sampling in Extent and Limitations 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))											✓

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Certificate No.

27 ROTM 65AX

Page 5 of 7

OUTCOMES	Acceptable condition	√	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A
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Item	Description	Outcome (Use codes above. Provide additional comment where appropriate. C1, C2, C3 & FI coded items to be recorded under observations in the Condition Report)
<b>5.0 FINAL CIRCUITS - continued</b>		
5.19	Suitability of accessories for external influences (512.2)	✓
5.20	Adequacy of working space / accessibility to equipment (132.12; 513.1)	✓
<b>6.0 LOCATION(S) CONTAINING A BATH OR SHOWER</b>		
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.2)	✓
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (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: 2008 (701.512.2)	N/A
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m 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 control gear etc for a particular zone (701.512.3)	✓
6.8	Suitability of current-using equipment for particular position within the location (701.55)	✓
<b>7.0 OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS</b>		
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)	N/A

## GUIDANCE FOR RECIPIENTS (to be appended to the Report)

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

- The purpose of this Condition Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see SUMMARY OF THE CONDITION OF THE INSTALLATION). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see OBSERVATIONS).
- The person ordering the Report should have received the "original" Report and the inspector should have retained a duplicate.
- 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.
- 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 quarterly. For safety reasons it is important that this instruction is followed.
- The section titled 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.
- 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 EXTENT AND LIMITATIONS.
- For items classified in OBSERVATIONS as C1 ("Danger present"), the safety of those using the installation is at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work immediately.
- For items classified in OBSERVATIONS as C2 ("Potentially dangerous"), the safety of those using the installation may be at risk and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
- Where it has been stated in OBSERVATIONS 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 RECOMMENDATIONS).
- 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 the Report under RECOMMENDATIONS and on a label at or near to the consumer unit/distribution board.

Inspected by:

Name (Capitals) OLIVER CLAYTON

Signature



Date 01-08-17

DB reference no. 001 Details of circuits and/or installed equipment vulnerable to damage when testing

Location CEMEX Details of test instruments used (state serial and/or asset numbers)

Zs at DB (Ω) 0.15 Ipf at DB (kA) 16522/2517032

Correct supply polarity confirmed  Insulation / continuity ---

Phase sequence confirmed (where appropriate)  Earth fault loop impedance ---

Tested by: Name (Capitals) OUVER CAYRON Date 01.08.17 RCD --- Earth electrode res. N/A

Signature [Signature] Test Results

Circuit number	Circuit Description	Overcurrent Device				Conductor Details		Ring Final Circuit Continuity (Ω)			Continuity (Ω) (R1+R2) or R2		Insulation Resistance (MΩ)		Polarity	Zs (Ω)	RCD (ms)		Remarks (continue on a separate sheet if necessary)
		BS (EN)	Type	Rating (A)	Breaking Capacity (kA)	Reference Method	Live (mm <sup>2</sup> )	cpc (mm <sup>2</sup> )	r1 (line)	r <sub>n</sub> (neutral)	r2 (cpc)	Live - Live	Live - Earth	@ IΔn			@ 5 IΔn	Test Button Operation	
	<b>RCD 1</b>																		
1	1ST FLOOR SHOWER	60898	B	40	6	B	10.0	6.0	/	/	/	0.17	/	0.00	0.00	0.38	22.1	11.6	✓
2	KITCHEN SOCKETS	60898	B	32	6	B	2.5	1.5	0.44	0.45	0.73	0.29	0.00	0.00	1.13	21.1	11.6	✓	
3	UP SOCKETS	60898	B	32	6	B	2.5	1.5	0.62	0.62	1.00	0.42	0.00	0.00	1.31	21.1	11.6	✓	
4	COOKER	60898	B	20	6	B	2.5	1.5	/	/	/	0.76	0.00	0.00	0.92	21.1	11.6	✓	
5	FIRE ALARM	60898	B	16	6	B	1.5	1.0	/	/	/	0.75	0.00	0.00	0.96	21.1	11.6	✓	
6	DOWN LIGHTS.	60898	B	6	6	B	1.5	1.0	/	/	/	1.69	0.00	0.00	1.96	21.1	11.6	✓	

DB reference no. 001

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

Details of test instruments used (state serial and/or asset numbers)

Location CEWA

Multifunction 1652c / 2377038

Zs at DB (Ω) 0.15 Ipf at DB (kA)

Insulation / continuity 211 -

Correct supply polarity confirmed

Earth fault loop impedance 11 -

Phase sequence confirmed (where appropriate)

RCD 11 -

Earth electrode res.

Tested by: Name (Capitals) OUEL CARON Date 01-09-17

Test Results

Signature

Circuit Details

Circuit number	Circuit Description	Overcurrent Device				Conductor Details				Ring Final Circuit Continuity (Ω)			Continuity (Ω) (R1+R2) or R2		Insulation Resistance (MΩ)		Polarity	Zs (Ω)	RCD (ms)		Test Button Operation	Remarks (continue on a separate sheet if necessary)	
		BS (EN)	Type	Rating (A)	Breaking Capacity (kA)	Reference Method	Live (mm <sup>2</sup> )	cpc (mm <sup>2</sup> )	r1 (line)	rn (neutral)	r2 (cpc)	(R1+R2)	R2	Live - Live	Live - Earth	✓ or ✗			@ IΔn	@ 5 IΔn			
	RCD TT																						
1	2ND FLOOR SHOWER	60898	B	40	6	B	10.06.0	/	/	/	0.61	/	/	/	/	/	/	/	0.15	34.2/3.1	/		
2	HOB	60898	B	32	6	B	6.02.5	/	/	/	0.65	/	/	/	/	/	/	/	0.81	34.2/3.1	/		
3	DOWN SOCKETS	60898	B	32	6	B	2.5/1.5	0.43	0.43	0.79	0.30	/	/	/	/	/	/	1.42	32.2/3.1	/			
4	CEWA SOCKETS	60898	B	20	6	B	2.5/1.5	/	/	/	0.52	/	/	/	/	/	/	/	0.88	34.2/3.1	/		
5	UP LIGHTS	60898	B	6	6	B	1.5/1.0	/	/	/	1.61	/	/	/	/	/	/	/	1.77	34.2/3.1	/		
6	EM LIGHTS.	60898	B	6	6	B	1.5/1.0	/	/	/	1.91	/	/	/	/	/	/	/	2.09	34.2/3.1	/		