Original Certificate | Certificate reference: CC 206 St Georges Rd Apt

ELECTRICAL INSTALLATION CONDITION REPORT

(Requirements for Electrical Installations – BS 7671 IEE Wiring Regulations)

DETAILS OF THE CLIENT

Name: Campus Cribs

Address:

PURPOSE FOR WHICH THIS REPORT IS REQUIRED

This report must be used only for reporting on the condition of an existing installation.

Electrical Condition Report **Date(s):** 23/09/20

DETAILS OF THE INSTALLATION

Occupier:

Address: 206 St Georges Road, Bolton

Description of Premises: **Domestic** √ **Commercial** **Industrial** **Other**

Estimated age of the Electrical Installation: 5 **Years** **Evidence of Alterations or Additions:** No **If "yes" estimated age:** **Years**

Date of previous Inspection: Unknown **Electrical Installation Certificate No: or previous Periodic Inspection report No:** Unknown

Records of installation available. **Records held by:**

EXTENT OF THE INSTALLATION AND LIMITATIONS OF THE INSPECTION AND TESTING

Extent of the Electrical installation covered by this report:

All electrical accessories and control equipment

Agreed Limitations (including the reasons), if any, on the inspection and testing

Operational limitations including the reasons (see page No.)

This inspection has been carried out in accordance with BS 7671:2008, as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in roof spaces and generally within the fabric of the building or under ground have not been inspected.

SUMMARY OF THE CONDITION OF THE INSTALLATION

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

All accessories and control equipment in good gondition and good working order.

If necessary, continue on additional page(s)? No **Yes** **Specify page**

Overall assessment of the installation: **SATISFACTORY** **(Delete as appropriate)**

An "Unsatisfactory" assessment indicates that dangerous and/or potentially dangerous conditions have been identified.

OBSERVATION AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached Schedules of Inspection and Test Results and subject to the limitations;

There are no item adversely affecting electrical safety, √ or **The following observations and recommendations for** **N/A** **are made**

Item No		*Code	Investigation required?
1			

Additional Pages? No Yes Specify page

*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:

Code C1 "Danger Present". Risk of injury. Immediate remedial action required.
Code C2 "Potentially dangerous". Urgent remedial action required.
Code C3 "Improvement recommended".

Please see the notes for recipient for guidance regarding the Classification codes.

Immediate remedial action required for items:	
Urgent remedial action required for items:	
Further investigation required for items:	
Improvement recommended for items:	

DECLARATION

I/We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signature(s) below, particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby Certify that the information on 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 of the installation and the limitation of the inspection and testing.

I/We further declare that in my/our judgement, the said installation was overall in satisfactory condition at the time of the inspection we carried out, and that it should be further inspected as recommended.

INSPECTION, TESTING AND ASSESSMENT BY:		**REPORT REVIEWED AND CONFIRMED BY:**	
Signature:	Kieranmoore	**Signature:**	
Name : (CAPITALS)	KIERAN MOORE	**Name : (CAPITALS)**	
Position:	ELECTRICIAN		(Registered Qualified Supervisor for the approved contractor at J)
Date:	23/09/20	**Date:**	

SCHEDULES AND ADDITIONAL PAGES

Schedule of items inspected Page No. 4,5,6,7	Additional pages, including additional source(s) data sheets: Page No(s):
Schedule of Circuit Details for the installation: Page No(s): 8	Schedule of Test Results for the installation: Page No(s):

The pages identified here form an essential part of this report. The report is valid only if accompanied by all the schedules and additional pages identified above.

NEXT INSPECTION

We recommend that this installation is further inspected and tested after an interval of not more than **5 Years**

Provided that any items which have been attributed a Recommendation Code C1 and C2 (require urgent attention) are remedied without delay and as soon as possible respectively. Items which have been attributed a Recommendation Code C3 should be actioned as soon as practicable (see F).

DETAILS OF ELECTRICALCONTRACTOR

Trading Title:	K.M ELECTRICAL SERVICES
Telephone number:	7850221036
Address:	BOLTON
Fax number:	
Postcode:	BL4 0DT
Registration number	
Branch number: (if applicable)	

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details, as appropriate

◊ System Type(s)		◊ Number and Type of Live Conductors			
TN-S	√	AC	√	DC	
TN-C-S		1-phase (2 wire)	√	1-phase (3 wire)	
TN-C		2-phase (3 wire)		3-phase (3 wire)	
TT		3-phase (4 wire)		2 pole	
IT		3 pole		other	
		Other (Please state)			

Nature of Supply Parameters		
Nominal Voltage U (1)	230	V
Nominal frequency f (1)	50	Hz
Prospective fault current (2/3)	0.36	kA
External earth fault loop impedance Ze (3/4)	0.64	Ω
Number of supplies		

NOTES: 1) by enquiry; (2) by enquiry or by measurement

◊ Characteristics of Primary supply Overcurrent Protective Device(s)		
BS(EN)	1361	
Type	BS3161 Fuse HBC - Type 2	
Rated current	100	A
Short-circuit capacity		kA

(3) where more than one supply, the higher or highest values; (4) by measurement

PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of earthing

Distributor's facility	√	Type: (eg rod(s), tape etc)		Location:		Maximum Demand:	kVA/Amps
Installation earth electrode		Electrode resistance, RA:	Ω	Method of measurement:		Protective measures against electric Shock:	

 # Main Switch or Circuit Breaker

Type (BS(EN))	60947-3 Isolator	Voltage Rating	230	V
No of Poles	2	Rated current I n	100	A
Supply conductors: material	Copper	RCD operating current IΔn		mA
Supply conductors: csa	25 mm²	RCD operating time (at IΔn)		ms

Earthing and Protective Bonding Conductors

Earthing conductor		Conductor csa	16	mm²
Conductor material	Copper	Continuity check	√	(√)

Bonding of extraneous-conductive-parts (√)

Gas service	n/a	Lighting	n/a
Water service	n/a	Structural steel	n/a
Oil service	n/a	Other service(s)	

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
1.0 Condition/adequacy of distributor's supply intake equipment			
1.1	Service cable	ACCEPTABLE	
1.2	Service cut-out/fuse(s)	ACCEPTABLE	
1.3	Meter tails - distributor	ACCEPTABLE	
1.4	Meter tails - consume	ACCEPTABLE	
1.5	Metering equipment	ACCEPTABLE	
1.6	Means of main isolation (where present)	ACCEPTABLE	
2.0	Presence of adequate arrangements for parallel or switched alternative sources	N/A	
3.0	Automatic disconnection of supply		
3.1 Main earthing and bonding arrangements			
	* Presence and condition of distributor's earthing arrangement	ACCEPTABLE	
	* Presence and condition of earth electrode arrangement	N/A	
	* Adequacy of earthing conductor size	ACCEPTABLE	
	* Adequacy of earthing conductor connections	ACCEPTABLE	
	* Accessibility of earthing conductor connections	LIMITED	
	* Adequacy of main protective bonding conductor size(s)	ACCEPTABLE	
	* Adequacy of main protective bonding conductor connections	ACCEPTABLE	
	* Accessibility of main protective bonding connections	LIMITED	
	* Provision of earthing/bonding labels at all appropriate locations	LIMITED	
3.2 FELV			
	* Source providing at least simple separation	N/A	
	* Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises	N/A	
3.3 Reduced low voltage			
	* Adequacy of source	N/A	
	* 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 on separate sheets)			
4.1	Double insulation	N/A	
4.2	Reinforced insulation	N/A	
4.3	Use of obstacles	N/A	
4.4	Placing out of reach	N/A	
4.5	Non-conducting location	N/A	
4.6	Earth-free local equipotential bonding	N/A	
4.7	Electrical separation for more than one item of equipment	N/A	
5. 0 Distribution equipment			
5.1	Adequacy of working space/accessibility of equipment	ACCEPTABLE	
5.2	Security of fixing	ACCEPTABLE	
5.3	Condition of insulation of live parts	ACCEPTABLE	
5.4	Adequacy/security of barriers	ACCEPTABLE	
5.5	Condition of enclosure(s) in terms of IP rating	LIMITED	
5.6	Condition of enclosure(s) in terms of fire rating	LIMITED	
5.7	Enclosure not damaged/deteriorated so as to impair safety	ACCEPTABLE	
5.8	Presence of main switch(es), linked where required	ACCEPTABLE	

5.9	**Operation of main switch(es) (functional check)**	**ACCEPTABLE**	
5.10	**Correct identification of circuit protective devices**	**ACCEPTABLE**	
5.11	Adequacy of protective devices for prospective fault current	**ACCEPTABLE**	
5.12	RCD(s) provided for fault protection – includes RCBOs	**ACCEPTABLE**	
5.13	**RCD(s) provided for additional protection – includes RCBOs**	**ACCEPTABLE**	
5.14	RCD(s) provided for protection against fire – includes RCBOs	**ACCEPTABLE**	
5.15	Manual operation of circuit-breakers and RCDs to prove disconnection	**ACCEPTABLE**	
5.16	Presence of RCD retest notice at or near equipment where required	**ACCEPTABLE**	
5.17	**Presence of diagrams, charts or schedules at or near equipment where required**	**LIMITED**	
5.18	**Presence of non-standard (mixed) cable colour warning notice at or near equipment where required**	**N/A**	
5.19	**Presence of alternative supply arrangement warning notice(s) at or near equipment where required**	**N/A**	
5.20	**Presence of replacement next inspection recommendation label**	**LIMITED**	
5.21	**Presence of other required labelling (specify)**	**ACCEPTABLE**	
5.22	**Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)**	**ACCEPTABLE**	
5.23	**Protection against mechanical damage where cables enter equipment**	**ACCEPTABLE**	
5.24	**Protection against electromagnetic effects where cables enter metallic enclosures**	**ACCEPTABLE**	
6.0 Distribution/final circuits			
6.1	**Identification of conductors**	**ACCEPTABLE**	
6.2	**Cables correctly supported throughout their length**	**LIMITED**	
6.3	**Condition of insulation of live parts**	**ACCEPTABLE**	
6.4	**Non-sheathed cables protected by enclosure in conduit, duct or trunking**	**LIMITED**	
6.5	**Suitability of containment systems for continued use (including flexible conduit)**	**ACCEPTABLE**	
6.6	**Cables correctly terminated in enclosures (indicate extent of sampling in Section D of report)**	**LIMITED**	
6.7	**Examination of cables for signs of unacceptable thermal and mechanical damage/deterioration**	**ACCEPTABLE**	
6.8	**Adequacy of cables for current-carrying capacity with regard to the type and nature of installation**	**ACCEPTABLE**	
6.9	**Adequacy of protective devices; type and rated current for fault protection**	**ACCEPTABLE**	
6.10	**Presence and adequacy of circuit protective conductors**	**ACCEPTABLE**	
6.11	**Co-ordination between conductors and overload protective devices**	**ACCEPTABLE**	
6.12	**Cable installation methods/practices appropriate to the type and nature of installation and external influences**	**ACCEPTABLE**	
6.13	**Cables where exposed to direct sunlight, of a suitable type**	**N/A**	
6.14	**Concealed cables installed in prescribed zones (see extent and limitations)**	**LIMITED**	
6.15	**Concealed cables incorporating earthed armour or sheath, or run within earthed wiring system,or otherwise protected against mechanical damage caused by nails, screws and the like where not in prescribed zones or not protected by 30 mA RCD (see extent and limitations)**	**LIMITED**	
6.16	**Provision of additional protection by 30 mA RCD for cables concealed in walls or partitions**	**ACCEPTABLE**	
6.17	**Provision of additional protection by 30 mA RCD**	**ACCEPTABLE**	
	*** Where reasonably likely to be used to supply mobile equipment for use outdoors**	**ACCEPTABLE**	
	*** For all socket-outlets of rating 20 A or less provided for use by ordinary persons**	**ACCPETABLE**	
6.18	**Provision of fire barriers, sealing arrangements and protection against thermal effects**	**ACCEPTABLE**	
6.19	**Band II cables segregated/separated from Band I cables**	**N/A**	
6.20	**Cables segregated/separated from non-electrical services**	**ACCEPTABLE**	
6.21	**Termination of cables at enclosures (identify numbers and locations of items inspected in Section D)**	**ACCEPTABLE**	
	* Connections under no undue strain	**ACCEPTABLE**	
	No basic insulation of a conductor visible outside an enclosure	**ACCEPTABLE**	
	Connections of live conductors adequately enclosed	**ACCEPTABLE**	
	Adequacy of connection at point of entry to enclosure (gland, bush or similar)	**ACCEPTABLE**	
6.22	**General condition of wiring systems**	**ACCEPTABLE**	
6.23	**Temperature rating of cable insulation**	**ACCEPTABLE**	
6.24	**Condition of accessories including socket-outlets, switches and joint boxes**	**ACCEPTABLE**	
6.25	**Suitability of accessories for external influences**	**ACCEPTABLE**	
7.0 Isolation and switching			

7.1 Isolations			
	* presence and condition of appropriate devices	ACCEPTABLE	
	* acceptable location	ACCEPTABLE	
	* capable of being secured in the OFF position	ACCEPTABLE	
	* correct operation verified	ACCEPTABLE	
	* clearly identified by position and/or durable marking(s)	ACCEPTABLE	
	* Warning label posted in situations where live parts cannot be isolated by the operation of a single device	LIMITED	
7.2 Switching off for mechanical maintenance			
	* presence and condition of appropriate devices	ACCEPABLE	
	* acceptable location	ACCEPTABLE	
	* capable of being secured in the OFF position	ACCEPTABLE	
	* correct operation verified	ACCEPTABLE	
	* clearly identified by position and/or durable marking(s)	ACCEPTABLE	
7.3 Emergency switching/stopping			
	* presence and condition of appropriate devices	N/A	
	* readily accessible for operation where danger might occur	N/A	
	* correct operation verified	N/A	
	* clearly identified by position and/or durable marking(s)	N/A	
7.4 Functional switching			
	* presence and condition of appropriate devices		
	* correct operation verified		
8.0 Current-using equipment (permanently connected)			
8.1	Condition of equipment in terms of IP rating	ACCEPTABLE	
8.2	Equipment does not constitute a fire hazard	ACCEPTABLE	
8.3	Enclosure not damaged/deteriorated so as to impair safety	ACCEPTABLE	
8.4	Suitability for the environment and external influences	ACCEPTABLE	
8.5	Security of fixing	ACCEPTABLE	
8.6	Cable entry holes in ceiling above luminaries, sized or sealed so as to restrict the spread of fire (indicate extent of sampling in Section D of report)	ACCEPTABLE	
8.7 Recessed luminaires (e.g. downlighters)			
	* correct type of lamps fitted	ACCEPTABLE	
	* installed to minimise build-up of heat by use of “fire rated” fittings,insulation displacement box or similar	ACCEPTABLE	
	* no signs of overheating to surrounding building fabric	ACCEPTABLE	
	* no signs of overheating to conductors/terminations	ACCEPTABLE	
9.0 Location(s) containing a bath or shower			
9.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA	ACCEPTABLE	
9.2	Where used as a protective measure, requirements for SELV or PELV are met	N/A	
9.3	Shaver sockets comply with BS EN 61558-2-5 or BS 3535	ACCEPTABLE	
9.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2018	N/A	
9.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1	N/A	
9.6	Suitability of equipment for external influences for installed location in terms of IP rating	ACCEPTABLE	
9.7	Suitability of equipment for installation in a particular zone	ACCEPTABLE	
9.8	Suitability of current-using equipment for a particular position within the location	ACCEPTABLE	
10.0 Other Special installations or locations			
	List special locations present, if any. List the results of particular inspections applied.– a separate page is required for each location	N/A	

**** All Boxes must be completed***	**Unacceptable condition** state **C1** or **C2**	**Outcome**
√ Indicates **Acceptable condition**	**Improvement recommended** state **C3**	Provide additional comment where appropriate on attached numbered sheets. C1, C2 and C3 coded items to be recorded in section F of the report.
LIM indicates a **limitation**	**Further investigation required** state **F/I** (to determine whether danger or potential (danger exists)	
N/A indicates **Not applicable**		

SCHEDULE OF ITEMS TESTED

√	External earth loop impedance, Ze	√	Basic protection against direct contact by barrier or enclosure provided during erection
N/A	Installation earth electrode resistance, Ra	√	Insulation of non-conducting floors or walls
√	Continuity of protective conductors	√	Polarity
√	Continuity of ring circuit conductors	√	Earth fault loop impedance Zs
√	Insulation resistance between live conductors	N/A	Verification of phase sequence
√	Insulation resistance between live conductors and earth	√	Operation of residual current devices
√	Protection by separation of circuits	√	Functional testing of assemblies
		N/A	Verification of voltage drop

TEST INSTRUMENTS USED

Earth fault loop impedance	TELSAR 0100 MULTIMETER
Insulation resistance	TELSAR 0100 MULTIMETER
Continuity	TELSAR 0100 MULTIMETER
RCD	TELSAR 0100 MULTIMETER
Other	N/A
Other	N/A

NOTES FOR RECIPIENT

THIS CERTIFICATE IS A VALUABLE DOCUMENT AND SHOULD BE RETAINED FOR FUTURE REFERENCE

This Electrical Installation Condition Report form is intended for the reporting on the condition of an existing electrical installation.

You should have received an original Certificate and the contractor should have retained a duplicate. If you were the person ordering this report, but not the owner of the installation, you should pass this Report, or a full copy of it, immediately to the user.

The original Report is to be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Report will provide the new owner with the details of the condition of the electrical installation at the time the Report was issued.

The ‘Extent and Limitations’ box should fully identify the extent of the installation covered by this Report and any limitations on the inspection and tests. The contractor should have agreed these aspects with you and any interested parties (Licensing Authority, Insurance Company, Building Society etc) before the inspection was carried out.

The Report will usually contain a list of recommended actions necessary to bring the installation up to the current standard. **For items classified as ‘requires urgent attention’, the safety of those using the installation may be at risk,** and it is recommended that a competent person undertake the necessary remedial work without delay.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection is stated in the Report under “Next Inspection.”

DISTRIBUTION BOARD DETAILS

DB ref:	DB2 Apartments	Z_s at this board (Ω):	0.79	I_{pf} at this board (KA):	0.29	Main switch type BSEN reference:	60947-3 Isolator	Rating:	100 Amps	Supply conductors:	25 mm²	Earth:	16 mm²
Distribution board location:	Cellar			Supplied from:	Mains	No. Of phases:	Single	Supply protective device type: BSEN reference:	BS3161 Fuse HBC - Type 2	Rating:	100 Amps		

CIRCUIT DETAILS / TEST RESULTS

Circuit Reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors: Live (mm²)	Circuit conductors: cpc (mm²)	Max.Disconnection time permitted (s)	Overcurrent devices: Type BS EN	Overcurrent devices: Rating (A)	Overcurrent devices: Short circuit capacity (KA)	RCD: IΔn mA	Maximum permitted Zs Ω	Circuit impedances Ω: Ring final circuits only (Measured end to end): r_1	r_n	r_2	All circuits (At least one column to be completed): R_1+R_2	R_2	Insulation resistance: Phase /Phase M Ω	Phase /Neutral M Ω	Phase /Earth M Ω	Neutral /Earth M Ω	Polarity	Maximum Measured Zs Ω	RCD: At IΔn ms	RCD: At 5 x IΔn ms
1	Apt 1	A	B	1	16	6	0.4	60898 Type B	63	6	30	1.44	N/A	N/A	N/A	1.15	N/A	N/A	>199	>199	>199	√			
2	Apt 5	A	B	1	16	6	0.4	60898 Type B	63	6	30	1.44	N/A	N/A	N/A	1.15	N/A	N/A	>199	>199	>199	√			
3	Apt 6	A	B	1	16	6	0.4	60898 Type B	63	6	30	1.44	N/A	N/A	N/A	1.17	N/A	N/A	>199	>199	>199	√			
4	Apt 4	A	B	1	16	6	0.4	60898 Type B	63	6	30	1.44	N/A	N/A	N/A	1.21	N/A	N/A	>199	>199	>199	√			
5	Apt 2	A	B	1	16	6	0.4	60898 Type B	63	6	30	1.44	N/A	N/A	N/A	1.14	N/A	N/A	>199	>199	>199	√			
6	Apt 3	A	B	1	16	6	0.4	60898 Type B	63	6	30	1.44	N/A	N/A	N/A	1.18	N/A	N/A	>199	>199	>199	√			

CODES FOR TYPES OF WIRING								
A	B	C	D	E	F	G	H	O (other please state)
PVC/PVC CABLES	PVC CABLES IN METALLIC CONDUIT	PVC CABLES IN NON-METALIC CONDUIT	PVC CABLES IN METALIC TRUNKING	PVC CABLES IN NON-METALIC TRUNKING	PVC/SWA CABLES	XLPE/SWA CABLES	MINERAL-INSULATED CABLES	