

1 DETAILS OF THE CLIENT

Client: Vision modular systems

Address: Woburn industrial estate, Woseley road, Bedford, MK42 7EF

2 DETAILS AND EXTENT OF THE INSTALLATION

Installation Address: Flat 1, 27 College Road, Croydon, CR0 1NJ

Extent of the installation covered by this certificate: 100% of the installation from within the apartment from Consumers Unit and final circuits. Sub Main by others.

The installation is: New installation Addition to an existing installation N/A Alteration to an existing installation N/A

3 COMMENTS ON EXISTING INSTALLATION

Comments on existing installation (In the case of an addition or alteration see Regulation 644.1.2):

None

4 NEXT INSPECTION

I RECOMMEND that this installation is further inspected and tested after an interval of not more than: **5 Years or change of tenant/owner**

5 TEST INSTRUMENTS

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

Multi-functional:	MFT 1751 101512142	Earth electrode resistance:	N/A
Insulation resistance:	MFT 1751 101512142	Earth fault loop impedance:	MFT 1751 101512142
Continuity:	MFT 1751 101512142	RCD:	MFT 1751 101512142

6 DESIGN, CONSTRUCTION, INSPECTION AND TESTING

I/We being the person(s) responsible for the design, construction, 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 design, construction, inspection and testing, hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2018, amended to 2020 except for the departures, if any, detailed as follows.

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5):


None

Details of permitted exceptions (Regulations 411.3.3): Risk assessment attached N/A

N/A

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.

For the DESIGN, the CONSTRUCTION, and the INSPECTION AND TESTING of the installation:

Name: **G NORMAN** Position: **QS** Signature:  Date: **03/04/2023**

7 DETAILS OF THE ELECTRICAL CONTRACTOR

Trading Title: We Love Solutions Limited

Address: 40 Roding View
Buckhurst Hill
Essex
Postcode: **IG9 6AQ**

Registration Number (if applicable): **022763000**

Telephone Number: **07956175757**

8 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):	<input checked="" type="checkbox"/>	1-phase (3 wire):	N/A	Nominal voltage(s): U: 240 V U ₀ : 230 V
TN-C-S	<input checked="" type="checkbox"/>	3-phase (3 wire):	N/A	3-phase (4 wire):	N/A	Nominal frequency, f: 50 Hz
TT	N/A	Other:	N/A		Prospective fault current, I _{pf} :	1.51 kA
		Confirmation of supply polarity:		<input checked="" type="checkbox"/>		External earth fault loop impedance, Z _e :
						BS(EN): See Reds Cert
						Type: LIM
						Rated current: LIM A
						Short-circuit capacity: LIM kA

9 PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE						
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):	45 Amps	Protective measure(s) against electric shock:	ADS		Measured Z _e :	0.15 Ω
Main Switch / Switch-Fuse / Circuit-Breaker / RCD						
Type	60947-3 Isolator		Current rating:	100 A	Supply conductors material:	Copper
BS(EN):			Fuse/device rating or setting:	N/A A	Supply conductors csa:	25 mm ²
Number of poles:	2		Voltage rating:	240 V	If RCD main switch:	
						Rated residual operating current (IΔn):
						Rated time delay:
						Measured operating time (at IΔn):
						N/A mA
						N/A ms
						N/A ms
Earthing and Protective Bonding Conductors						
Earthing conductor		Connection/continuity verified:		Bonding of extraneous-conductive parts		
Conductor material:	Copper	csa:	16 mm ²	<input checked="" type="checkbox"/>	To water installation pipes:	<input checked="" type="checkbox"/>
Main protective bonding conductors	Connection/continuity verified:		<input checked="" type="checkbox"/>		To oil installation pipes:	N/A
Conductor material:	Copper	csa:	6 mm ²	<input checked="" type="checkbox"/>	To structural steel:	N/A
						To gas installation pipes:
						To lightning protection:
						To other service(s):
						N/A
						N/A

10 INSPECTION SCHEDULE FOR DOMESTIC & SIMILAR PREMISES WITH UP TO 100A SUPPLY		
Item No	Description	Outcome
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)	
1.1	Service cable	<input checked="" type="checkbox"/>
1.2	Service head	<input checked="" type="checkbox"/>
1.3	Earthing arrangement	<input checked="" type="checkbox"/>
1.4	Meter tails	<input checked="" type="checkbox"/>
1.5	Metering equipment	<input checked="" type="checkbox"/>
1.6	Isolator (where present)	<input checked="" type="checkbox"/>
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of earthing and protective bonding arrangements:	
3.1.1	Distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	<input checked="" type="checkbox"/>
3.1.2	Installation earth electrode (where applicable) (542.1.2.3)	N/A
3.1.3	Earthing conductor and connections, including accessibility (542.3; 543.3.2)	<input checked="" type="checkbox"/>
3.1.4	Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2; 544.1)	<input checked="" type="checkbox"/>
3.1.5	Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	<input checked="" type="checkbox"/>
3.1.6	RCD(s) provided for fault protection (411.4.204; 411.5.3)	N/A

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

Item No	Description	Outcome
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:	
4.1.1	Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓
4.1.2	Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of additional protection methods:	
5.1.1	RCD(s) not exceeding 30mA operating current (415.1; Part 7), see Item 8.14 of this schedule	✓
5.1.2	Supplementary bonding (415.2; Part 7)	✓
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection:	
6.1.1	SELV system, including the source and associated circuits (Section 414)	✓
6.1.2	PELV system, including the source and associated circuits (Section 414)	N/A
6.1.3	Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	✓
6.1.4	Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	✓
7.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)	
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓
7.2	Components are suitable according to assembly manufacturer's instructions or literature (536.4.203)	✓
7.3	Presence of linked main switch(es) (462.1.201)	✓
7.4	Isolators, for every circuit or group of circuits and all items of equipment (462.2)	✓
7.5	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)	✓
7.6	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	✓
7.7	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.8	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
7.9	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, 411.5, 411.6; Sections 432, 433; 537.3.1.1)	✓
7.10	Presence of appropriate circuit charts, warning and other notices:	
7.10.1	Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
7.10.2	Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓
7.10.3	Periodic inspection and testing notice (514.12.1)	✓
7.10.4	RCD six-monthly test notice; where required (514.12.2)	✓
7.10.5	AFDD six-monthly test notice; where required	N/A
7.10.6	Warning notice of non-standard (mixed) colours of conductors present (514.14)	N/A
7.11	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓
8.0	CIRCUITS	
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	✓
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	✓
8.4	Cables correctly erected and supported throughout, with protection against abrasion (Sections 521, 522)	✓
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	✓

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

Item No	Description	Outcome
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	✓
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203; 522.6.204)	✓
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	✓
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3; 643.6)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓
8.14	Provision of additional protection/requirements by RCD not exceeding 30mA:	
8.14.1	Socket-outlets rated at 32A or less, unless exempt (411.3.3)	✓
8.14.2	Supplies for mobile equipment with a current rating not exceeding 32A for use outdoors (411.3.3)	✓
8.14.3	Cables concealed in walls at a depth of less than 50mm (522.6.202; 522.6.203)	✓
8.14.4	Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	✓
8.14.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
8.15.1	Means of switching off for mechanical maintenance (Section 464; 537.3.2)	✓
8.15.2	Emergency switching (465.1; 537.3.3)	✓
8.15.3	Functional switching, for control of parts of the installation and current-using equipment (463.1; 537.3.1)	✓
8.15.4	Firefighter's switches (537.4)	N/A
9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	✓
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	✓
9.3	Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	✓
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	✓
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)	✓
10.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	✓
10.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	✓
10.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	✓
10.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1 (701.512.3)	✓
10.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	✓
10.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	✓
10.8	Suitability of current-using equipment for particular position within the location (701.55)	✓
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS List all other special installations or locations present, if any (Record separately the results of particular inspections)	
11.1	N/A	N/A
11.2	N/A	N/A

All boxes must be completed. 'tick' indicates that an inspection or test was carried out and that the result was satisfactory. 'X' indicates that an inspection or test was carried out and the result is not satisfactory. 'N/A' indicates that an inspection or test was not applicable to the particular installation. 'LIM' indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection or test being carried out.

13 SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Designation of consumer unit: **D.B. 1** Location: **MEP Room** Prospective fault current: **1.51 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			Disconnection time ms	Test button operation		
														r_1	r_n	r_2	R_1+R_2	R_2									
														(Line)	(Neutral)	(cpc)											
1	Hob	A	100	2	6	2.5	0.4	61009	B	32	6	30	1.37				0.35	N/A	>200	> 200	500	✓	0.5	19	✓	N/A	
2	Kitchen sockets	A	100	8	2.5	1.5	0.4	61009	B	32	6	30	1.37	0.28	0.28	0.49	0.2	N/A	>200	> 200	500	✓	0.35	19	✓	N/A	
3	Lounge sockets	A	100	5	2.5	1.5	0.4	61009	B	32	6	30	1.37	0.27	0.27	0.47	0.18	N/A	>200	> 200	500	✓	0.33	19	✓	N/A	
4	Bed 1 sockets	A	100	5	2.5	1.5	0.4	61009	B	32	6	30	1.37	0.39	0.39	0.63	0.26	N/A	>200	> 200	500	✓	0.41	19	✓	N/A	
5	Bed 2 and Hallway sockets	A	100	4	2.5	1.5	0.4	61009	B	32	6	30	1.37	0.3	0.3	0.5	0.2	N/A	>200	> 200	500	✓	0.35	19	✓	N/A	
6	Bed 3 sockets	A	100	3	2.5	1.5	0.4	61009	B	32	6	30	1.37	0.21	0.21	0.35	0.13	N/A	>200	> 200	500	✓	0.28	19	✓	N/A	
7	Hallway & MEP sockets	A	100	2	2.5	1.5	0.4	61009	B	32	6	30	1.37	0.03	0.03	0.09	0.03	N/A	>200	> 200	500	✓	0.18	19	✓	N/A	
8	Oven	A	100	2	2.5	1.5	0.4	61009	B	20	6	30	2.19				0.45	N/A	>200	> 200	500	✓	0.62	19	✓	N/A	
9	MVHR cupboard sockets	A	100	3	2.5	1.5	0.4	61009	B	20	6	30	2.19				0.12	N/A	>200	> 200	500	✓	0.27	19	✓	N/A	
10	MVHR	A	100	2	2.5	1.5	0.4	61009	B	20	6	30	2.19				0.4	N/A	>200	> 200	500	✓	0.55	19	✓	N/A	
11	Heat Interface Unit	A	100	2	2.5	1.5	0.4	61009	B	20	6	30	2.19				0.65	N/A	>200	> 200	500	✓	0.82	19	✓	N/A	
12	Towel rail 1	A	100	2	2.5	1.5	0.4	61009	B	20	6	30	2.19				0.35	N/A	>200	> 200	500	✓	0.5	19	✓	N/A	
13	Towel rail 2	A	100	2	2.5	1.5	0.4	61009	B	20	6	30	2.19				0.4	N/A	>200	> 200	500	✓	0.56	19	✓	N/A	
14	Kitchen & Lounge lights	A	100	14	1.5	1.0	0.4	61009	B	6	6	30	7.28				0.45	N/A	>200	> 200	500	✓	0.6	19	✓	N/A	
15	Bed 1 & bathroom lights	A	100	14	1.5	1.0	0.4	61009	B	6	6	30	7.28				0.45	N/A	>200	> 200	500	✓	0.6	19	✓	N/A	
16	Bed 2 & bathroom lights	A	100	10	1.5	1.0	0.4	61009	B	6	6	30	7.28				0.35	N/A	>200	> 200	500	✓	0.5	19	✓	N/A	
17	Hallway, MEP & Bed 3 lights	A	100	12	1.5	1.0	0.4	61009	B	6	6	30	7.28				0.6	N/A	>200	> 200	500	✓	0.75	19	✓	N/A	
18	Smoke & Heat detection	A	100	8	1.5	1.0	0.4	61009	B	6	6	30	7.28				0.8	N/A	>200	> 200	500	✓	0.95	19	✓	N/A	
19	Hob timer feed	A	100	2	1.5	1.0	0.4	61009	B	6	6	30	7.28				0.5	N/A	>200	> 200	500	✓	0.62	19	✓	N/A	
20	Hob timer																										
21	45 amp contactor																										

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

DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE GUIDANCE FOR RECIPIENTS

(to be appended to the Certificate)

This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed and inspected and tested in accordance with British Standard 7671 (as amended) (The IET Wiring Regulations).

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

The 'original' Certificate should 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 Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the certificate was issued. The Construction (Design and Management) Regulations require that for a project covered by those Regulations, a copy of this Certificate, together with schedules is included in the project health and safety documentation.

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 on Page 1 under 'Next Inspection'.

This Certificate is intended to be issued only for a new electrical installation or new work associated with an alteration or addition to an existing installation. It should not have been issued for the inspection of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such an inspection.

This Certificate is only valid if a Schedule of Inspections and Schedule of Test Results are appended.