DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

1 Cert No:

1

AW Electrical East Devon

2						
Business D	etails		Job Address		Client/Landlord's Details	
Register No. Operative Company Address	Adam Wheatle AW Electrical E 16 Marcom Close	East Devon	Name Address	St Catherine's New North Road Exeter Devon	Name Company Address	Marco Christoforou St Catherine's New North Road
Postcode Tel No.	Exmouth Devon EX8 5PW 07964363148		Postcode Tel No. Email	EX4 4AG	Postcode Tel No. Email	Exeter Devon EX4 4AG
Email	awelectricalea	stdevon@gmail.com				
3 DETAILS AN	ND EXTENT	OF THE INSTALLATION				
Extent of the ir covered by this		100% of the installation.				
The installation	n is:	An addition				
4 COMMENT	S ON EXISTI	NG INSTALLATION				
Existing instal	lation appear	s to be satisfactory, partia	ıl house rewir	e and kitchen rewire has taken place		
5 NEXT INSP	ECTION					
IRECOMMEN	ID that this in:	stallation is further inspec	ted and teste	d after an interval of not more than :	10 Ye	ars or change of tenant/owner
6 TEST INSTI	RUMENTS					
Details of Test	s Instruments	s used (state serial and/or	asset numbe	rs):		
Multi-functiona	ıl:	239379		Earth electrode resistance:		N/A
Insulation resist Continuity:	stance:	N/A N/A		Earth fault loop impedance RCD		N/A N/A
7 DESIGN, Co	ONSTRUCTION	ON, INSPECTION AND T	ESTING			
below), particutesting, hereby	lars of which CERTIFY th	are described above, have	ving exercised ich I/we have	inspection and testing of the electrical in d reasonable skill and care when carrying been responsible is to the best of my/o	ng out the de	sign, construction, inspection and
Details of depa	artures from E	3S 7671, as amended (Re	egulations 120	0.3, 133.5):		
Details of pern	nitted exception	ons (Regulations 411.3.3)	:		Risk as	sessment attached: NA
N/A						
				ork described above as the subject of the	nis certificate).
FOR DESIGN,	me CONSTR	OCTION, and the INSPE	CHON AND	TESTING of the installation: Signature:	Whlat	Date: 28/07/2020

8 SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements		er and Type of	Live Cond	luctors	Natu	re of Supply P	arameters	Supply Pro	tective Device
Arrangements									
TN-S	1-phase	Yes	1-phase	N/A	Nominal	U: 230 V	Uo: 230 v	BS(EN):	BS EN 3036
114-0	(2 wire):		(3 wire):		voltage(s):		Type:	-
	3-phase	N/A	3-phase	N/A		Nominal freque	ncy, f: 50 v	Rated current:	100 A
	(3 wire):		(4 wire):			Prospective fau	lt	Short-circuit capacity:	3 kA
	Other:	N/A				current, lpf:	1.38 kA	•	
	•••••	• • • • • • • • • • • • • • • • • • • •			•	External earth f	ault		
	Confirma	tion of supply p	olarity:	Yes		loop impedance	e, Ze: 0.17 Ω	• • • •	

9 PARTICULARS OF INSTALLATION	REFERRED TO IN THE CERTIFIC	ATE	
Means of Earthing	ו	Details of Installation Earth Ele	ctrode (where applicable)
	pe: N/A esistance to Earth: N/A Ω	Location: Method of measurer	nent: N/A N/A
Maximum Demand (Load): 100A	Protective measure(s) against	st electric shock: Automatic di	sconnection of Measured Ze: 0.17
Main Switch/Switch-Fuse/Circuit-Breake	er/RCD		If RCD main switch
Type BS (EN): Number of poles: BS EN 60947-3 2	Fuse/device rating 100A A	y conductors material: Copper y conductors csa: 25 mm²	Rated residual operating current (In): Rated time delay: Measured operating time (In): N/A ms N/A ms N/A ms
Earthing and Protective Bonding Condu	ctors	Bonding of extrar	neous-conductive parts
Conductor Material: Copper csa: 16	mm² Connection/continuity verified	d: Yes To water	To gas Yes installation pipes: Yes
Main protective bonding conductors		installation pipes:	To lightning
Conductor material: Copper csa: 10	mm² Connection/continuity verified	To oil installation pipes: To structural steel:	N/A protection: N/A To other N/A service(s): N/A

10 SCHEDULE OF ITEMS INSPECTED

	DULE OF ITEMS INSPECTED	1
Item	Description	Outcome
1.0	DISTRIBUTOR'S/SUPPLY INTAKE EQUIPMENT	
1.1	Condition of service cable	Yes
1.2	Condition of service head	Yes
1.3	Condition of distributor's earthing arrangement	Yes
1.4	Condition of tails - Distributor/Consumer	Yes
1.5	Condition of metering equipment	Yes
1.6	Condition of isolator (where present)	N/A
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	Installation earth electrode (where applicable) (542.1.2.3)	N/A
3.1.2	Earthing conductor and connections including accessibility (542.3; 542.3.2)	Yes
3.1.3	Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.3)	Yes
3.1.4	Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	Yes
3.1.5	RCD(s) provided for fault protection (411.4.9; 411.5.3)	N/A
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contract with live parts) within the installation:	
4.1.1	Insulation of live parts e.g. conductors completely covered with durable insulation materials (416.1)	Yes
4.1.2	Barriers or enclosures e.g. correct IP rating (416.2)	Yes

11 SCHEDULE OF ITEMS INSPECTED

Item	Description	Outcom
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	Yes
5.1.2	Supplementary bonding (415.2; Part 7)	N/A
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection:	
6.1.1	SELV systems, including the source and associated circuits (Section 414)	N/A
6.1.2	PELV systems, 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)	Yes
6.1.4	Electrical separation for one item or equipment e.g. shaver supply unit (Section 413)	N/A
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)	Yes
7.2	Presence of linked main switch(s) (537.1.4; 5.7.1.5; 537.1.6)	Yes
7.3	Isolators, for every circuit or group of circuits and all items of equipment (537.2)	Yes
7.4	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201)	Yes
7.5	Protection against mechnical damage where cables enter equipment (522.8.1; 522.8.11)	Yes
7.6	Confirmation that ALL conductor connections are corretly located in terminals and are tight and secure (526.1)	Yes
7.7	Avoidance of heating affects where cables enter ferromagnetic enclosures e.g. steel (521.5)	Yes
7.8	Selection of correct type and rating circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, .5, .6; Section 432, 433)	Yes
7.9	Presence of appropriate circuit charts, warning and other notices;	
7.9.1	Provision of circuit charts/schedules or equivalent forms of information (514.9)	Yes
7.9.2	Warning notice of method of isolation where live parts not capable of being by a single device (514.11)	N/A
7.9.3	Periodic inspection and testing notice (514.12.1)	Yes
7.9.4	RCD six-monthly test notice; where required (514.12.2)	Yes
7.9.5	Warning notice of non-standard (mixed) colours of conductors present (514.14)	Yes
7.10	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	Yes
8.0	CIRCUITS	
8.1	Adequacy of conductors for currents-carrying capacity with regards to type and nature of the installation (Section 523)	Yes
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	Yes
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	Yes
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion (Sections 521, 522)	Yes
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	Yes
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	Yes
8.7	Cables concealed under floors, above ceilings or in wall/partitions, adequately protected against damage (522.6.201, .202, .204)	Yes
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	Yes
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 542.1)	Yes
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	Yes
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	Yes
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.2)	Yes
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	Yes

12 SCHEDULE OF ITEMS INSPECTED

. GOLLE	DOLE OF ITEMS INSPECTED	
Item	Description	Outcome
8.14	Provision of additional protection by RCD not exceeding 30mA:	
8.14.1	Socket-outlet rated at 20 A or less unless exempt (411.3.3)	Yes
8.14.2	Mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	Yes
8.14.3	Cables concealed in walls at a depth of less than 50 mm (522.6.202, .203)	Yes
8.14.4	Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	Yes
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
8.15.1	Means of switching off for mechanical maintenance (537.3)	Yes
8.15.2	Emergency switches (537.4)	N/A
8.15.3	Functional switches, for control of parts of the installation and current-using equipment (537.5)	Yes
8.15.4	Firefighter's switches (537.6)	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)	Yes
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	N/A
9.3	Installed to minimise the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	Yes
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	Yes
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc.	Yes
10.2	Where used as a protective measure, requirement for SELV or PELV met (701.414.4.5)	N/A
10.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	Yes
10.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	N/A
10.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from Zone 1 (701.512.3)	Yes
10.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	Yes
10.7	Suitability of accessories and control gear etc. for a particular zone (701.512.3)	Yes
10.8	Suitability of current-using equipment for particular position within the location (701.55)	Yes
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS List all other special installation or locations present, if any. (Record separately the results of particular inspections applied.)	
11.1	N/A	N/A
11.2	N/A	N/A
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13 SCHEDULE OF ITEMS INSPECTED

Item	Description	Outcome
12.1	External earth fault loop impedance, Ze	Yes
12.2	Installation earth electrode resistance, Ra	N/A
12.3	Continuity of protective conductors	Yes
12.4	Continuity of ring final circuit conductors	Yes
12.5	Insulation resistance between live conductors	Yes
12.6	Insulation resistance between live conductors and earth	Yes
12.7	Polarity	Yes
12.8	Earth fault loop impedance, Zs	Yes
12.9	Verification of phase sequence	N/A
12.10	Operation of residual current device(s)	Yes
12.11	Functional testing of assemblies	Yes
12.12	Verification of voltage drop	Yes

14 SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

kΑ Type of Wiring O-Other: A - PVC/PVC cables Designation of consumer unit: In high level cupboard Location: Utility Prospective fault current: 1.38 Circuit Overcurrent protective Insulation conductors: RCD Circuit impedances (Ohms) devices resistance CSS **RCD AFDD** All circuits Ring final circuit only Maximum measured earth fault loop impedance Zs (one column to (measured end to end) points served be completed) BS7671 Max disconnect time permitted by BS7671 Manual AFDD test button operation Circuit designation Operating current Type No Reference Method Disconnection time at I∆n Disconnection time at 5l∆n Live CDC BS (EN) þ Circuit number Live - Earth Type of wiring Test button - Live Maximum permitted by R₁+R₂ R_2 Operation r_1 r_2 Capacity Number of Polarity Rating Live $M\Omega$ МΩ mm² mm² s Α kΑ mΑ Ω (Line) (Neutral) (cpc) Ω ms ms 1 Α-Ε 5 BS EN 60898 В 32 6 0.13 >200 >200 Yes 0.30 N/A N/A Garage Supply 4 2.5 N/A 1.1 N/A N/A N/A N/A N/A N/A 2 Hob A -101 1 6 2.5 0.4 BS EN 61009 В 32 6 30 1.1 N/A N/A N/A 0.12 N/A >200 >200 Yes 0.29 24 24 Yes N/A 3 101 2.5 BS EN 61009 В 32 30 >200 >200 Yes 0.30 29 Cooker A -6 0.4 6 1.1 N/A N/A N/A 0.13 N/A 24 Yes N/A 101 2.5 BS EN 61009 В 32 30 0.49 0.50 0.76 0.27 >200 >200 Yes 0.44 24 24 4 Kitchen Ring A -11 1.5 0.4 6 1.1 N/A Yes N/A 13 Liahts A -101 0.4 BS EN 61009 В 6 6 30 5.82 N/A N/A N/A 1.45 N/A Lim >200 Yes 1.62 29 29 Yes N/A 1 14 BS EN 61009 В 6 N/A Lim >200 Yes 0.65 Lights 101 1 1 0.4 6 30 5.82 N/A N/A 0.48 N/A 29 29 Yes N/A 15 BS EN 61009 В 30 Lim >200 Yes 0.59 29 Kitchen Lights A -101 21 1 0.4 6 6 5.82 N/A N/A N/A 0.43 N/A 29 Yes N/A 12 Cannot Trace A -1 0.4 BS EN 61009 В 6 6 30 5.82 N/A N/A N/A N/A 29 29 Yes N/A 1 BS EN 61009 В 11 Immersion Heater A -101 2.5 1.5 0.4 6 6 30 5.82 N/A N/A N/A 0.27 N/A Lim >200 Yes 0.44 29 29 Yes N/A 10 2.5 1.5 0.4 BS EN 61009 В 16 30 2.15 N/A N/A 0.14 >200 >200 Yes 0.22 24 24 Sockets A -101 6 N/A N/A Yes N/A 9 Boiler A -101 1 2.5 1.5 0.4 BS EN 61009 В 16 6 30 2.15 N/A N/A N/A 0.58 N/A Lim >200 Yes 0.71 29 29 Yes N/A 8 2.5 1.5 0.4 BS EN 61009 В 16 30 2.15 N/A N/A 0.07 0.24 29 29 Outside gate A -Ε 6 N/A N/A Lim >200 Yes Yes N/A 7 Sockets 101 2.5 1.5 0.4 BS EN 61009 В 32 30 1.1 0.90 0.92 1.80 0.62 N/A Lim >200 Yes 0.92 30 30 Yes N/A A -6 6 Sockets A -101 2.5 1.5 0.4 BS EN 61009 В 32 6 30 1.1 0.74 0.73 1.47 0.67 N/A Lim >200 Yes 0.88 28 29 Yes N/A 5 101 2.5 1.5 BS EN 61009 В 32 30 1.1 0.55 0.70 0.22 Lim >200 Yes 0.69 30 29 N/A Sockets A -0.4 6 0.53 N/A Yes