ELECTRICAL INSTALLATION CERTIFICATE Requirements For Electrical Installations - BS 7671 IET Wiring Regulations

Certificate Reference:

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	PECTION SCHEDULE	
Item No	Description	Outcome
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)	
1.1	Service cable	
1.2	Service head	
1.3	Earthing arrangement	
1.4	Meter tails	
1.5	Metering equipment	
1.6	Isolator (where present)	
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Presence of adequate arrangements where generator to operate as a switched alternative (551	.6):
2.1.1	Dedicated earthing arrangement independent of that of the public supply (551.4.3.2.1)	
2.2	Presence of adequate arrangements where generator to operate in parallel with an public suppose. (551.7):	oly system
2.2.1	Correct connection of generator in parallel (551.7.2)	
2.2.2	Compatibility of characteristics of means of generation (551.7.3)	
2.2.3	Means to provide automatic disconnection of generator in the event closs of public supply vstem ovoltage or frequency deviation beyond declared values (551.7.4)	
2.2.4	Means to prevent connection of generator in the event of local public to poly system or voltage or frequency deviation beyond declared values (551.7.5)	
2.2.5	Means to isolate generator from the public supply system \$51.7	
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of protective earthing conding trangements (411.3; Chapter 54):	
3.1.1	Distributor's earthing arrangement 542.1.2.1; 142.1, 2), or in callation earth electrode arrangement (542.1.2.3)	
3.1.2	Earthing conductor and connections (Section 542,7, 542.3.2; 543.1.1)	
3.1.3	Main protective bond conductors and connections (Section 526; 544.1; 544.1.2)	
3.1.4	Earthing/bonding labes at a propriate Lations (514.13)	
3.2	Accessibility of:	
3.2.1	Ex thing conductor contections	
3.2.2	All purious ing corrections (543.3.2)	
3.3	FELV – requireme its satisfied (411.7; 411.7.1)	
4.0	BASIC ALL AULT PROTECTION (where used, confirmation that the requirements are satisfied)	
4.1	SELV (Section 414)	
4.2	PELV (Section 414)	
4.3	Double insulation (Section 412)	
4.4	Reinforced insulation (Section 412)	
5.0	BASIC PROTECTION	
5.1	Insulation of live parts (416.1)	
5.2	Barriers or enclosures (416.2; 416.2.1)	
5.3	Obstacles (Section 417; 417.2.1; 417.2.2)	
5.4	Placing out of reach (Section 417; 417.3)	
6.0	FAULT PROTECTION	
6.1	Non-conducting location (418.1)	
6.2	Earth-free local equipotential bonding (418.2)	
6.3	Electrical separation (Section 413; 418.3)	

Item No	Description	Outcome
7.0	ADDITIONAL PROTECTION	
7.1	RCDs not exceeding 30mA as specified (415.1)	
7.2	Supplementary bonding (Section 415; 415.2)	
8.0	DISTRIBUTION EQUIPMENT	
8.1	Security of fixing (134.1.1)	
8.2	Insulation of live parts not damaged during erection (416.1)	
8.3	Adequacy/security of barriers (416.2)	
8.4	Suitability of enclosures for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)	
8.5	Enclosures not damaged during installation (134.1.1)	
8.6	Presence and effectiveness of obstacles (417.2)	
8.7	Components are suitable according to manufacturers assembly instructions or literature (336.1.203)	
8.8	Presence of main switch(es), linked where required (462.1.201)	
8.9	Operation of main switch(es) (functional check) (643.10)	
8.10	Manual operation of circuit-breakers and RCDs to prove functionality (43.10)	
8.11	Confirmation that integral test button/switch causes RCD(s) to trip who operated (function shock) (643.10)	
8.12	RCD(s) provided for fault protection, where specified (4.1.4.204 11.5.2, 31.2)	
8.13	RCD(s) provided for additional protection, where specifie 415.1	
8.14	Confirmation overvoltage protection (SPDs) proceed where ecified (534.4.1.1)	
8.15	Presence of RCD six-monthly test notice at or near a origin (1.13.2)	
8.16	Presence of diagrams, charts or see les at or lear to h distribution board, where required (514.9.1)	
8.17	Presence of non-standard (mixed) coble across wirning office at or near the appropriate distribution board, where required (514-14)	
8.18	Presence of alterna y supply warning notice at or near (514.15):	
8.18.1	The original control of the control	
8.18.2	The meter position, if it mote from argin	
8.18.3	The distribution board to which the alternative/additional sources are connected	
8.18.4	All points of isolation of ALL sources of supply	
8.19	Presence of next Aspection recommendation label (514.12.1)	
8.20	Presence o other required labelling (Section 514)	
8.21	Selection of protective device(s) and base(s); correct type and rating (411.3.2; 411.4, .5, .6; Sections 432, 433, 434)	
8.22	Single-pole protective devices in line conductors only (132.14.1; 530.3.3; 643.6)	
8.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	
8.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	
8.25	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	
9.0	CIRCUITS	
9.1	Identification of conductors (514.3.1)	
9.2	Cables correctly supported throughout (522.8.5; 521.10.202)	
9.3	Examination of cables for signs of mechanical damage during installation (522.6.1; 522.8.1; 522.8.3)	
9.4	Examination of insulation of live parts, not damaged during erection (522.6.1; 522.8.1)	
9.5	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	

14 INS	PECTION SCHEDULE (CONTINUED)	
Item No	Description	Outcome
9.6	Suitability of containment systems (including flexible conduit) (Section 522)	
9.7	Correct temperature rating of cable insulation (522.1.1; Table 52.1)	
9.8	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	
9.9	Adequacy of protective devices: type and fault current rating for fault protection (434.5)	
9.10	Presence and adequacy of circuit protective conductors (411.3.1; 543.1)	
9.11	Coordination between conductors and overload protective devices (433.1; 533.2.1)	
9.12	Wiring systems and cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)	
9.13	Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203, 522.6.204)	
9.14	Provision of additional protection by RCDs having rated residual operating current (In) not excee	ding
9.14.1	For all socket-outlets of rating (32A) or less, unless exempt (411.3.3)	
9.14.2	Supplies for mobile equipment not exceeding 32A rating for use outdoors (411.3.3)	
9.14.3	For cables concealed in walls at a depth of less than 50mm (522.6.202, 203)	
9.14.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6. 2; .202)	
9.14.5	Circuits supplying luminaires within domestic (household) premises (4, 3,4)	
9.15	Provision of fire barriers, sealing arrangements so as to dinimize the spread of fire (Section 527)	
9.16	Band II cables segregated/separated from Band (cables 28.1)	
9.17	Cables segregated/separated from non-electric envices (1, 1, 3)	
9.18	Termination of cables at enclosures (Section 3. 5):	
9.18.1	Connections under no undue \$4.6 \$2.8.5; 52 5.6)	
9.18.2	No basic insulation of a conductor vy ible side enclose (526.8)	
9.18.3	Connections of live desclosed (526.5)	
9.18.4	Adequately connected at the top entry to inclosure (glands, bushes etc.) (522.8.5)	
9.19	Suitability of circuit ac esso les systemal influences (512.2)	
9.20	Circuit accessories not amaged during erection (134.1.1)	
9.21	Silver specific speci	
9.22	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment (Section 526)	
10.0	ISOLATI AND SWITCHING	
10.1	Isolators (462; 537.2):	
10.1.1	Presence and location of appropriate devices (Section 462; 537.2.7)	
10.1.2	Capable of being secured in the OFF position (537.2.4)	
10.1.3	Correct operation verified (functional check) (643.10)	
10.1.4	The installation, circuit or part thereof that will be isolated clearly identified by location and/or durable marking (537.2.7)	
10.1.5	Warning notice posted in situation where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	
10.2	Switching off for mechanical maintenance (Section 464; 537.3.2):	
10.2.1	Presence of appropriate devices (464.1; 537.3.2)	
10.2.2	Acceptable location - state if local or remote from equipment in question (537.3.2.4)	
10.2.3	Capable of being secured in the OFF position (464.2)	
10.2.4	Correct operation verified (functional check) (643.10)	
10.2.5	The circuit or part thereof to be disconnected clearly identified by location and/or durable marking (537.3.2.3; 537.3.2.4)	

15 INS	PECTION SCHEDULE (CONTINUED)	
Item No	Description	Outcome
10.3	Emergency switching/stopping (Section 465; 537.3.3; 537.4):	
10.3.1	Presence of appropriate devices (465.1; 537.3.3; 537.4)	
10.3.2	Readily accessible for operation where danger might occur (537.3.3.6)	
10.3.3	Correct operation verified (functional check) (643.10)	
10.3.4	The installation, circuit or part thereof to be disconnected clearly identified by location and/or durable marking (537.3.3.6)	
10.4	Functional switching (463.1; 537.3.1):	
10.4.1	Presence of appropriate devices (537.3.1.1; 537.3.1.2)	
10.4.2	Correct operation verified (functional check) (537.3.1.1; 537.3.1.2; 643.10)	
11.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
11.1	Suitability of equipment in terms of IP and fire ratings (416.2; 421.1; 421.1.201; 526.5)	
11.2	Enclosure not damaged/deteriorated during installation so as to impair safety (134.)	
11.3	Suitability for the environment and external influences (512.2)	
11.4	Security of fixing (134.1.1)	
11.5	Cable entry holes in ceilings above luminaires, sized or seal to as to harrict the spre d of are (527.2)	
11.6	Provision of undervoltage protection, where specified (S. Vion 44),	
11.7	Provision of overload protection, where specific (Section 4) 552.1)	
11.8	Recessed luminaires (downlighters):	
11.8.1	Correct type of lamps fitted (559.).	
11.8.2	Installed to minimize build-up of heat (421	
11.9	Adequacy of working , Vaccessibility o equipment (132.12; 513.1)	
12.0	LOCATION(S) CONT LININ BATH O SHOWER (SECTION 701)	
12.1	Actinional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)	
12.2	Wigner of the protective measure, requirements for SELV or PELV met (701.414.4.5)	
12.3	Shaver sockets couply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	
12.4	Presence for plementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	
12.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1 (701.512.3)	
12.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	
12.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	
12.8	Suitability of current-using equipment for particular position within the location (701.55)	
13.0	PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
13.1		
13.2		
13.3		

All boxes must be completed. 'tick' indicates that an inspection or test was carried out and that the result was satisfactory. 'X' indicates than 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.

16 S	CHEDULE OF CIRC	UIT DETA	ILS	AND) TE	ST	RES	ULT	S																		
Distr	ibution board designation	:										Lo	catio	n:													
						Cir	cuit uctors:	time S7671	Overcui	rent p device		ve	RCD	BS7671		Circuit imp	oedance			Insulation resistance				measured : loop s Zs	RC	:D	AFDD
Circuit number and phase	Circuit designati	n	Reference Method Number of points served a point served		BS(EN)	Type No	> Rating	중 Capacity	3 Operating ➤ current, l∆n	Maximum Z _s	(meas							< Test voltage	□ Polarity	Maximum meas Searth fault loop impedance Zs	Bisconnection time	Test button operation	Test button operation				
																				1							
																	•										
												4															
													1														
												7	•														
TYP	S FOR Thermoplastic E OF insulated/sheathed RING cables	B Thermoplastic cables in metallic condui			ermop cables netallic	nch		cable	rmop stic s in me allic runking		in n		ic cable etallic ng	es	Thermo /SWA c			G mosetting /A cables	ir	Minera nsulated o				0 - Ot	her		
	OARD CHARACTER		NNEC	TED	то т		RIG	IN	F THE I	NST	ALLA	TIO	N														
	to this distribution board					\mathbf{N}					of pl								Confi	irmatio	n of su	pply p	olari	ty:			
	urrent protective device distribution circuit:	BS(EN):			•					Rat	ting:					lominal 'oltage:			Zs:				lр	f:			
RCD	distribution circuit.	BS(EN):								No	of po	oles	:			lating:				onnection at In:	on			isconn me at		า	
_	ETAILS OF TEST I			d/or a	sset	numl	pers)	:											CITTIC	uc III.			CII	ne de	5,111.		
Multi-f	unctional:						Ir	rsula	tion resis	stanc	e:								Со	ntinuity	y:						
Earth 6	electrode resistance:						E	arth	fault loop	o imp	edan	ice:							RC	D:							
19 T	ESTED BY																										
Nam			-	Positi	on:									Signa	ature:							Da	te:				
This for	m is based on the model	shown in Appe	endix	6 of	BS 7	671:2	2018.										Ref:			_					Pa	ige:	7 of 8

S	CHEDULE OF CIRC	UIT DETAILS	AND	TEST I	RES	ULT	rs																		
Distr	ibution board designation:									Loc	cation	า:													
				Cir condu	Circuit conductors:		0vercurrer de		ent protective evices		RCD	BS7671	Circuit impedances (Ohms)				nsulation esistance			sured	RC	:D	AFDD		
Circuit number and phase	Circuit designatio	Type of wiring	Reference Method	Number of points served mm 2	cuit ictors: sa cpc	Max disconned on permitted by B	BS(EN)	Type No	y Rating	중 Capacity	B Operating S current, I∆n	Maximum Z _s ප permitted by B	(meas	inal circui ured end r _n (Neutral)	to end)	columi comp		Ω M Live - Live	ω Live - Earth	< Test voltage	□ Polarity	Maximum measured S earth fault loop impedance Zs	B Disconnection time	Test button operation	Test button operation
											-	1													
															>										
								(
					4																				
						1		1																	
							>																		
			•	V																					
CODE: TYP! WIR	E OF insulated/sheathed	B Thermoplastic cables in metallic conduit		C ermoplastic cables in etallic condui		cable	D rmoplastic s in metallic runking			E plasti onmet	tallic		F Thermo	plastic		G mosettin /A cables	g ii	H Minera				0 - Ot	her		

Ref: ___

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This form is based on the model shown in Appendix 6 of BS 7671:2018.