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ELECTRICAL INSTALLATION CERTIFICATE

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671:2018

CERTIFICATE NUMBER

EIC

PART 1: CLIENT DETAILS

Address

Tel No

PART 2: INSTALLATION ADDRESS

Address

Tel No

Extent of the installation covered by this certificate

New installation

An addition

An alteration

Replacement of a distribution board

PART 3: FOR DESIGN, CONSTRUCTION, INSPECTION AND TESTING

I being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature 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 said work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2018 except for the departures, if any, detailed as follows:

Details of departures from BS 7671 as amended (Regulations 120.3, 133.1.3, 133.5):

Details of permitted exceptions (Regulation 411.3.3)

Where applicable, a suitable risk assessment(s) must be attached to this certificate

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

			Reviewed by:		
Signature		Date	Signature		Date
Name			Name		
For and on behalf of					
Address					
Postcode					
Tel number					

CERTIFICATE NUMBER	
EIC	

PART 4: SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing Arrangements		Number and Type of Live Conductors						Nature of Supply Parameters				Supply Protective Device	
TN-C		AC		DC	-			Nominal Voltages U/U_o (1)	230	V		BS (EN)	
TN-S		1-Phase, 2- wire		2- wire	-			Nominal frequency, f (1)	50	Hz		Type	
TN-C-S		2-Phase, 3- wire		3- wire	-			Prospective fault current, I_{pf} (2) *		kA		Rated current	A
TT		3-Phase, 3- wire		3-Phase, 4- wire		Other	-	External earth fault loop impedance, Z_e (2) *		Ω		* Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, Ipf, and external fault loop impedance, Ze, must be recorded.	
IT		Other Details:	-					(Note (1) by enquiry, (2) by enquiry or by measurement)					
		Confirmation of supply polarity						Phase sequence confirmed		(Where appropriate)			

Other sources of supply (as details on attached Inspection Schedule)

PART 5 : PARTICULARS OF THE INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand (load): kVA

Means of Earthing	(Select as appropriate)	Details of Installation Earth Electrode (where applicable)			
Distributor's facility		Type – rod(s), tape, etc:	-	Location	-
Installation earth electrode	-	Electrode Resistance, R_A	-	Ω	

Main Protective Conductors

Earthing Conductor:	Material	Copper	csa		mm^2	Connection / continuity verified	
Main protective bonding conductors: (To extraneous-conductive-parts)	Material	Copper	csa		mm^2	Connection / continuity verified	

To water installation pipes		To gas installation pipes		To oil installation pipes		To structural steel	
To lightning protection		To other		State details			

Main Switch / Switch-Fuse / Circuit Breaker / RCD

Type BS(EN)		Number of poles				Current Rating		A	
Location		Voltage rating		V		Fuse/device rating or setting		A	
If RCD Main Switch:	Rated residual operating current $I_{\Delta n}$=		mA	Rated time delay		ms	Measured operating time (at $I_{\Delta n}$)		

PART 6: COMMENTS ON EXISTING INSTALLATION (In the case of an addition or alteration see Regulation 644.1.2)

Note: Enter 'NONE' or where appropriate, the page number(s) of additional page(s) of comments on the existing installation

PART 7: SCHEDULE(S)

The attached schedule(s) are part of this document and this Certificate is valid only when they are attached to it.

Page no(s)		Schedule(s) of inspections	Page no(s)		Schedule(s) of circuit and test results for the installation

PART 8: NEXT INSPECTION

I, the designer recommend that this installation is further inspected and tested after an interval of not more than **

** The proposed date for the next inspection should take into consideration the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.

PART 9: SCHEDULE OF INSPECTIONS

CERTIFICATE NUMBER **EIC**

Insert √ to indicate an inspection has been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item. An entry must be made in every box.

1.0	**EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)** **(An "X" indicates that the Distributor should be notified of any unsatisfactory condition)**	
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)	
2.1a	• Dedicated earthing arrangement independent of that of the public supply (551.7.2)	
2.2	**Presence of adequate arrangements where generator to operate in parallel with public supply system (551.7)**	
2.2a	• Correct connection of generator in parallel (551.7.2)	
2.2b	• Compatibility of characteristics of means of generation (551.7.3)	
2.2c	• Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.4)	
2.2d	• Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.5)	
2.2e	• Means to isolate generator from the public supply system 551.7.6)	
2.3	**Presence of alternative/additional supply warning notices at or near: (514.15)**	
2.3a	• The origin	
2.3b	• The meter position, if remote from origin	
2.3c	• The consumer unit/distribution board to which the alternative/additional sources are connected	
2.3d	• All points of isolation of ALL sources of supply	
3.0	**AUTOMATIC DISCONNECTION OF SUPPLY**	
3.1	**Presence and adequacy of protective earthing /bonding arrangements (411.3; Chapter 54)**	
3.1a	• Distributor's earthing arrangement or Installation earth electrode (where applicable) (542.1.2.1; 542.1.2.2) or installation electrode arrangement (542.1.2.3)	
3.1b	• Earthing conductor and connections (Section 526; 542.3; 543.1.1)	
3.1c	• Main protective bonding conductors and connections (Section 526; 544.1; 544.1.2)	
3.1d	• Earthing / bonding labels at all appropriate locations (514.13)	
3.2	**Accessibility of**	
3.2a	• Earthing conductor connections	
3.2b	• All protective bonding connections (543.3.2)	
3.3	FELV - requirements satisfied (411.7; 411.7.1)	
3.4	Reduced low voltage - requirements satisfied	
4.0	**BASIC PROTECTION**	
4.1	**Presence and adequacy of protective measures to provide basic protection:**	
4.1a	• Insulation of live parts not damaged during erection (416.1)	
4.1b	• Barriers or enclosures (416.2; 416.2.1)	
4.1c	• Obstacles** (Section 417; 417.2.1; 417.2.2)	
4.1d	• Placing out of reach** (Section 417; 417.3)	
5.0	**ADDITIONAL PROTECTION**	
5.1	Presence and effectiveness of methods which give both basic and fault protection:	
5.2	Supplementary bonding (Section 415; 415.2)	

5.1	RCDs not exceeding 30 mA operating current (415.1)		
6.0	**OTHER METHODS OF PROTECTION**		
6.1	**Basic And Fault Protection**	Source and associated circuit details	
6.1a	• SELV (Section 414)		
6.1b	• PELV (Section 414)		
6.1c	• Double / Reinforced insulation, (Section 412)		
	When used, provide details on a separate numbered page	Page:	
7.0	**DISTRIBUTION EQUIPMENT**		
7.1	Security of fixing (134.1.1)		
7.2	Insulation of live parts not damaged during erection (416.1)		
7.3	Adequacy / security of barriers (416.2)		
7.4	Suitability of enclosures for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)		
7.5	Enclosures not damaged during installation (134.1.1)		
7.6	Presence and effectiveness of obstacles (417.2)		
7.7	Presence of main switch(es), linked where required (462.1.201)		
7.8	Components are suitable according to assembly manufacturer's instructions or literature (536.1.203)		
7.9	Operation of main switch(es) (functional check) (643.10)		
7.10	Manual operation of circuit-breakers and RCDs to prove functionality (643.10)		
7.11	Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)		
7.12	RCD(s) provided for fault protection where specified (411.4.204; 411.5.2; 531.2)		
7.13	RCD(s) provided for additional protection, where specified (415.1)		
7.14	Confirmation overvoltage protection (SPDs) provided where specified (534.4.1.1)		
7.15	Confirmation of indication that SPD is functional (534.4.1.1)		
7.16	Presence of RCD quarterly test notice at or near the origin (514.12.2)		
7.17	AFDD six-monthly test notice; where required (514.12.1)		
7.18	Presence of diagrams, charts or schedules at or near each distribution board, where required (514.9.1)		
7.19	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required (514.14)		
7.20	Presence of next inspection recommendation label (514.12.1)		
7.21	Presence of other required labelling (Section 514)		
7.22	Selection of protective device(s) and base(s); correct type and rating (411.3.2; 411.4, .5, .6; Sections 432, 433, 434)		
7.23	Single-pole protective devices in line conductors only (132.14.1; 530.3.2, 643.6)		
7.24	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)		
7.25	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)		
7.26	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and		
7.27	Isolators for every circuit or group of circuits and all items of equipment (462.2)		
7.28	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)		
8.0	**CIRCUITS**		
8.1	Identification of conductors (514.3.1)		
8.2	Cables correctly supported throughout their length (522.8.5; 521.10.202)		
8.3	Examination of cables for signs of mechanical damage during installation (522.6.1; 522.8.1; 522.8.3)		
8.4	Examination of insulation of live parts, not damaged during erection (522.6.1; 522.8.1)		
	**** For use in controlled supervised/conditions only**		

PART 9: SCHEDULE OF INSPECTIONS

CERTIFICATE NUMBER **EIC**

Insert √ to indicate an inspection has been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item. An entry must be made in every box.

8.5	Non-sheathed cables protected by enclosure in conduit ducting or trunking (521.10.1)	
8.6	Suitability of containment systems (including flexible conduit) (Section 522)	
8.7	Correct temperature rating of cable insulation (522.1.1;Table 52.1)	
8.8	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation (Section 523)	
8.9	Adequacy of protective devices: type and fault current rating for fault protection (434.5)	
8.10	Presence and adequacy of circuit protective conductors (411.3.1; 543.1)	
8.11	Coordination between conductors and overload protective devices (433.1; 533.2.1)	
8.12	Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences (Section 522)	
8.13	**Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage (522.6.201, .202, .203, .204)**	
8.13a	• Installed in prescribed zones	
8.13b	• Incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like	
8.14	**Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA**	
8.14a	• For all socket-outlets of rating 32 A or less, unless exempt (411.3.3)	
8.14b	• Supplies for mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	
8.14c	• For cables installed in walls at a depth of • less than 50 mm (522.6.202, .203)	
8.14d	• For cables installed in walls/partitions containing metal parts regardless of depth (522.6.202, .203)	
8.14d	• For circuits supplying luminaries within domestic (household) premises only. (411.3.4)	
8.15	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire (Section 527)	
8.16	Band II cables segregated/separated from Band I cables (528.1)	
8.17	Cables segregated/separated from non-electrical services (528.3)	
8.18	**Termination of cables at enclosures**	
8.18a	• Connections under no undue strain (522.8.5; 526.6)	
8.18b	• No basic insulation of a conductor visible outside enclosure (526.8)	
8.18c	• Connections of live conductors adequately enclosed (526.5)	
8.18d	• Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	
8.19	Suitability of circuit accessories for external influences (512.2)	
8.20	Circuit accessories not damaged during erection (134.1.1)	
8.21	Single-pole devices for switching in line conductor only (132.14.1, 530.3.3, 643.6)	
8.22	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment (Section 526)	
9.0	**ISOLATION AND SWITCHING**	
9.1	**Isolators (462; 537.2)**	
9.1a	• Presence and location of appropriate devices (Section 462; 537.2.7)	
9.1b	• Capable of being secured in the OFF position (537.3.2.4)	
9.1c	• Correct operation verified (functional check) (643.10)	
9.1d	• The installation, circuit or part thereof to be disconnected, clearly identified by position and/or durable marking (537.2.7)	
9.1e	• Warning notice posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	

9.2	**Switching off for mechanical maintenance (Section 464; 537.3.2)**	
9.2a	• Presence of appropriate devices (464.1; 537.3.2)	
9.2b	• Acceptable location - state if local or remote from equipment in question (537.3.2.4)	
9.2c	• Capable of being secured in the OFF position (464.2)	
9.2d	• Correct operation verified (functional check) (643.10)	
9.2e	• The circuit or part thereof to be disconnected, clearly identified by location and/or durable marking (537.3.2.3; 3.2.4)	
9.3	**Emergency switching/stopping (Section 465; 537.3.3; 537.4)**	
9.3a	• Presence of appropriate devices (465.1; 537.3.3; 537.4)	
9.3b	• Readily accessible for operation where danger might occur (537.3.3.6)	
9.3c	• Correct operation verified (functional check) (643.10)	
9.3d	• The installation, circuit or part thereof to be disconnected, clearly identified by location and/or durable marking (537.3.3.6)	
9.4	**Functional switching (463.1; 537.3.1)**	
9.4a	• Presence of appropriate devices (537.1.1; 537.3.1.2)	
9.4b	• Correct operation verified (functional check) (537.3.1.1; 537.3.1.2; 643.10)	
10.0	**CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)**	
10.1	Suitability of equipment in terms of IP rating and fire ratings (416.2; 421.1; 421.201; 526.5)	
10.2	Enclosure not damaged/deteriorated during installation so as to impair safety (134.1.1)	
10.3	Suitability for the environment and external influences (512.2)	
10.4	Security of fixing (134.1.1)	
10.5	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire. (527.2)	
10.6	Provision of undervoltage protection, where specified (Section 445)	
10.7	**Recessed luminaires (downlighters)**	
10.7a	• Correct type of lamps fitted (559.3.1)	
10.7b	• Installed to minimise build-up of heat (421.1.2; 559.4.1)	
10.8	Provision of overload protection, where specified (Section 433; 552.1)	
10.9	Adequacy of working space/accessibility to equipment (132.12; 513.1)	
11.0	**SPECIAL INSTALLATIONS OR LOCATIONS**	
	List below all special Installations or locations which are part of the installation to be verified, and confirm that the additional requirements given in the respective section of Part 4 are fulfilled. (Details must be appended on a separate numbers page. (see PART 13 below)	

SCHEDULE OF ITEMS INSPECTED BY

Name	
Signature	
Date	

PART 10: SCHEDULE OF ADDITIONAL PAGES

Note: Additional page(s) must be identified by the Electrical Certificate serial number and page number(s).Installation.

Page No(s)	

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

CERTIFICATE NUMBER

EIC

To be completed in every case			**Complete only if distribution board is not connected directly to the origin of the installation.**				
Distribution Board (DB) Reference No			Distribution board is supplied from		No of phases		Nominal voltage 230 V
Location			Details of distribution circuit		Associated RCD (if any):		
Z_s at DB		Ω	Overcurrent protective device for the distribution circuit:		Type: BS (EN)		
I_{pf} at DB		kA	Type: BS (EN)	Rating A	At $I_{\Delta n}$ (mA)		RCD No of Poles

CIRCUIT DETAILS

Circuit ref	Circuit description	Type of wiring	Reference method *	Number of points supplied	Circuit conductor size (mm^2): Live	Circuit conductor size (mm^2): CPC	Max disconnection Time permitted by BS 7671 (s)	Overcurrent protection: BS (EN)	Overcurrent protection: Type	Overcurrent protection: Rating (A)	Overcurrent protection: Breaking capacity (kA)	RCD/RCBO: Rated operating current $I_{\Delta n}$	Maximum permitted Zs** (Ω)

* See Table 4A2 of Appendix 4 of BS 7671: 2018

**Where the maximum permitted earth fault loop impedance value stated in Max disconnection time permitted by BS7671 column is not taken from BS 7671, state the source of the data in the appropriate cell in the "Remarks" column.

CODES FOR TYPE OF WIRING	A	B	C	D	E	F	G	H	O Other State type
	Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral insulated cables	

SCHEDULE OF TEST RESULTS

CERTIFICATE NUMBER

EIC

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

Correct supply polarity confirmed

Phase sequence confirmed (where appropriate)

TEST INSTRUMENTS USED

	Serial Number		Serial Number
Earth fault loop impedance		RCD	
Insulation resistance		Multi Functional	
Continuity		Earth electrode resistance	

TEST RESULTS

Circuit Ref	Ring final circuit continuity (Ω)			Continuity (Ω) $R_1 + R_2$ or R_2		Insulation resistance			Polarity	Max measured earth fault loop impedance, Zs	RCD		AFDD	Remarks (Continue on a separate sheet if necessary)
						Live - Live	Live- Earth	Test Voltage DC			RCD Disconnection Time	RCD test button operation	Manual AFDD test button operation	
	r_1 (line)	r_n (neutral)	r_2 (cpc)	R_1+R_2	R_2	(MΩ)	(MΩ)	(V)	(√)	(Ω)	(ms)	(√)	(√)	

* (Record lowest value measured - Line/Line if applicable or Line(s)/Neutral)

** (Record lowest value measured – Line(s)/Earth or Neutral/Earth)

Tested by

Signature

Name

Position

Date of testing

ELECTRICAL INSTALLATION CERTIFICATE

GUIDANCE FOR RECIPIENTS

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 (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 owner.

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. 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 skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 2 under "NEXT INSPECTION".

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

This certificate is only valid if accompanied by the Schedule(s) of Inspections and the Schedule(s) of Test Results.

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DISTRIBUTION BOARD CHART REFERENCE

Distribution Board (DB) Reference No		Details of circuits and/or installed equipment vulnerable to damage when testing	
Distribution Board Location			

Zs at DB		I_{pf} at DB		Distribution board is supplied from		No of Phases	

CIRCUIT REF	DESCRIPTION	WIRING TYPE (SEE CODE BELOW)	REF METHOD	NO OF POINTS SERVED	CONDUCTORS CSA (MM²)		MAX DISC TIME (S)	OVERCURRENT PROTECTIVE DEVICE				RCD (MA)	MAXIMUM ZS PERMITTED BY BS7671 (Ω)
					LIVE	CPC		BS (EN)	TYPE NO	RATING (A)	SHORT-CIRCUIT CAPACITY (KA)		

CODES FOR TYPE OF WIRING

A	B	C	D	E	F	G	H	O (Other – please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral insulated cables	

Name of contractor	Address of contractor	Enrolment number