



APPROVED CONTRACTOR

**ICON
INSTALLATIONS
LTD**
ELECTRICAL INSTALLATION CERTIFICATE
 (Requirements for Electrical Installations – BS 7671 IET
 Wiring Regulations)
DETAILS OF CLIENT
 Client/
 Address: St Mary's Church, Wigston Parva, Leicestershire, LE10 3AN
DETAILS OF THE INSTALLATION

Address:	St Mary's Church, Wigston Parva, Leicestershire, LE10 3AN	New	
Extent of the Installation covered by this Certificate:	Installation of consumer unit with surge protection and mains tails, Installation of new circuits to existing lighting & power points & tubular heating points, Installation of 2no metal clad socket for general use, Installation of one external light with PIR, Installation of one under cupboard light in Alter area.	An Addition	Yes
		An Alteration	Yes

DESIGN

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I/We, being the electrically skilled person(s) responsible for the design 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 design, 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: 2008 amended to 2015 except for the departures, if any, detailed as follows:

Details of departures from BS 7671 (Regulations 120.3. and 133.5) N/A

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

** (Where there is divided responsibility for the design)

Details of permitted exceptions (Regulation 411.3.3). Where applicable, a suitable risk assessment(s) must be attached to this Certificate.

Signature	Date	N/A	Name (CAPITALS)	N/A	Designer 1
Signature	Date	N/A	Name (CAPITALS)	N/A	Designer 2 **

CONSTRUCTION

I/We, being the electrically skilled person(s) responsible for the construction 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 construction, hereby Certify that the construction work for which I/We have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671:2008 amended to 2015 except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3 and 133.5) N/A

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

For the CONSTRUCTION of the installation:

Signature	Date	N/A	Name (CAPITALS)	N/A	Constructor
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INSPECTION AND TESTING

I/We, being the electrically skilled 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 inspection and testing work for which I/We have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671:2008 amended to 2015 except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3 and 133.5) N/A

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

For the INSPECTION AND TESTING of the installation:

Signature	Date	N/A	Name (CAPITALS)	N/A	INSPECTOR
Reviewed by					
Signature	Date	N/A	Name (CAPITALS)	N/A	Qualified Supervisor

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DESIGN, CONSTRUCTION, INSPECTION AND TESTING

* This box is to be completed only where the design, construction, inspection and testing have been the responsibility of one person.

I/we, being the electrically skilled person(s) responsible for the design, construction, 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 design, construction, inspection and testing, hereby CERTIFY that the inspection and testing work for which I/we have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671:2008 amended to 2015 except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3 and 133.5) NONE


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

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

Details of permitted exceptions (Regulation 411.3.3). Where applicable, a suitable risk assessment(s) must be attached to this Certificate.

Signature  Date 23/01/2019 Name (CAPITALS) EDWARD WILKES INSPECTOR

Reviewed by

Signature  Date 25.01.2019 Name (CAPITALS) GARY PATERSON Qualified Supervisor

PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION

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DESIGN (1) Oraanisation

ICON INSTALLATIONS LTD

Address: WORKSHOP A
25 HOME PARK ROAD
NUNEATON
WARWICKSHIRE CV11 5UB

Enrolment No. (Where appropriate) 0 4 1 4 5 3

Branch number (If applicable)

DESIGN (2) Organisation

Address:

Enrolment No. (Where appropriate)

Branch number (If applicable)

CONSTRUCTION Oraanisation

ICON INSTALLATIONS LTD

Address: WORKSHOP A
25 HOME PARK ROAD
NUNEATON
WARWICKSHIRE CV11 5UB

Enrolment No. (Where appropriate) 0 4 1 4 5 3

Branch number (If applicable)

INSPECTION & TESTING Oraanisation

ICON INSTALLATIONS LTD

Address: WORKSHOP A
25 HOME PARK ROAD
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Enrolment No. (Where appropriate) 0 4 1 4 5 3

Branch number (If applicable)

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System Types		Number and types of live conductors						Nature of supply Parameters				
TN-S	N/A	A.C.	√	D.C.	N/A	Nominal Voltage U/Uo			230	Volts		
TN-C-S	N/A	1-Phase 2 wire	√	1-Phase 3 wire	N/A	2 pole	N/A	Nominal Frequency			50	Hz
TN-C	N/A	2-Phase 3 wire	N/A	3 pole	N/A	Prospective fault current			2.33	kA		
TT	√	3-Phase 3 wire	N/A	3-Phase 4 wire	N/A	Other	N/A	External Ze			108	Ohms
IT	N/A	Other	N/A	Number of supplies			1					

CHARACTERISTICS OF THE SUPPLY OVERCURRENT PROTECTIVE DEVICE

Type BS/EN	LIM	Nominal current rating	NV	Amps	Short circuit capacity	NV	KA
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PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing		Details of installation Earth Electrode (where applicable)													
Supplier's facility	N/A	Type: (e.g. rods, tape ect)	ROD			Location			EXTERNAL BEHIND DB WALL						
Installation earth electrode	√	Electrode resistance, RA	108	Ohms	Method of measurement			N/A							
Maximum Demand (Load) Per phase	30	Amps	Method of protection against indirect contact						ADOS						
Main Switch or circuit-Breaker															
Type BSEN	60947-3 Isolator	No. Of poles	2	Voltage rating	400	V	Current rating	100	A	RCD IΔn	30	mA	RCD at IΔn	163	mS
Supply conductors															
Conductor material			Copper			Conductor csa			25			mm ²			
Earthing conductors															
Conductor material		Copper		Conductor csa		16		mm ²		Continuity check		√		(II) OK	
Main equipotential bonding conductors															
Conductor material		N/A		Conductor csa		N/A		mm ²		Continuity check		N/A		(II) OK	
Bonding of extraneous conductive parts (II)															
Water service	N/A	Gas service	N/A	Oil service	N/A	Structural steel	N/A	Lightning protection	N/A	Other services	N/A	List in report notes			

COMMENTS ON THE EXISTING INSTALLATION

Additional information and report notes

EXISTING LIGHT FITTINGS REMAIN INSTALLED WITH EXISTING TUBULAR HEATERS AS CUSTOMER SPECIFIED. RECOMMENDATION THAT THE TUBULAR HEATERS ARE REPLACED DUE TO CORROSSION.

FAULT PROTECTION PROVIDED BY RCD, TOUCH VOLTAGES CALCULATED AT LESS THAN 50V

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NEXT INSPECTION

The time interval recommended before the first periodic inspection must be inserted

I/We the designer(s), recommend that this installation is further inspected and tested after an interval of not more than **5 Years**

ITEMS REQUIRING INSPECTION DURING INITIAL VERIFICATION.

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671.

The list of items is not exhaustive.

ELECTRICAL INTAKE EQUIPMENT

√	Service Cable	√	Service cut-out/fuse
√	Meter tails - Distributor	√	Meter tails - Consumer
√	Metering equipment	√	Isolator

PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY

N/A	Presence of adequate arrangements where generator to operate as a switched alternative Dedicated earthing arrangement independent of that of the public supply
N/A	Presence of adequate arrangements where generator to operate in parallel with the public supply system
N/A	Correct connection of generator in parallel
N/A	Compatibility of characteristics of means of generation
N/A	Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values
N/A	Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values
N/A	Means to isolate generator from the public supply system

AUTOMATIC DISCONNECTION OF SUPPLY

Protective earthing/protective equipotential bonding arrangements. Presence and adequacy of ;

√	Distributor's earthing arrangement, or installation earth electrode arrangement		
√	Earthing conductor and connections, including accessibility		
N/A	Main protective bonding conductors and connections, including accessibility		
√	Earthing/bonding labels at all appropriate locations		
√	Accessibility of	N/A	FELV – requirements satisfied

OTHER METHODS OF PROTECTION

(Where any of the methods listed below are employed details should be provided on separate pages)

BASIC AND FAULT PROTECTION

where used, confirmation that the requirements are satisfied:

N/A	SELV	N/A	PELV
√	Double insulation	√	Reinforced insulation

BASIC PROTECTION:

√	Insulation of live parts	√	Barriers or enclosures
N/A	Obstacles	N/A	Placing out of reach

FAULT PROTECTION:

N/A	Non-conducting location Earth-free local equipotential bonding
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FAULT PROTECTION: (Cont)

√ Electrical separation

ADDITIONAL PROTECTION:

√	RCDs not exceeding 30 mA as specified
N/A	Supplementary bonding

SPECIFIC INSPECTION EXAMPLES

as appropriate to the installation

DISTRIBUTION EQUIPMENT

√	Adequacy of working space/accessibility to equipment		
√	Security of fixing	√	Insulation of live parts not damaged during erection
√	Adequacy / security of barriers	N/A	Placing out of reach
√	Suitability of enclosures for IP and fire ratings		
√	Enclosures not damaged during installation		
√	Presence and effectiveness of obstacles		
√	Presence of main switch(es), linked where required		
√	Operation of main switch(es) (functional check)		
√	Manual operation of circuit-breakers and RCDs to prove functionality		
√	Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check)		
√	RCD(s) provided for fault protection, where specified		
√	RCD(s) provided for additional protection, where specified		
N/A	Confirmation overvoltage protection (SPDs) provided where specified		
N/A	Confirmation of indication that SPD is functional		
√	Presence of RCD quarterly test notice at or near the origin		
√	Presence of diagrams, charts or schedules at or near each distribution board, where required		
√	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board.		

Presence of alternative supply warning notice at or near ;

N/A	1. The origin	N/A	2. The meter position, if remote from origin
N/A	3. The distribution board to which the alternative/additional sources are connected		
N/A	4. All points of isolation of ALL sources of supply		
√	Presence of next inspection recommendation label		
N/A	Presence of other required labelling		
√	Selection of protective device(s) and base(s); correct type and rating		

ITEMS REQUIRING INSPECTION DURING INITIAL VERIFICATION (CONTINUED)

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671.

The list of items is not exhaustive.

DISTRIBUTION EQUIPMENT (Continued)

- √ Single-pole protective devices in line conductor only
- √ Protection against mechanical damage where cables enter equipment
- √ Protection against electromagnetic effects where cables

CIRCUITS

- √ Identification of conductors
- √ Cables correctly supported throughout
- √ Examination of cables for signs of mechanical damage during installation
- √ Examination of insulation of live parts, not damaged during erection
- √ Non-sheathed cables protected by enclosure in conduit, ducting or trunking
- √ Suitability of containment systems (including flexible conduit)
- √ Correct temperature rating of cable insulation
- √ Adequacy of cables for current-carrying capacity with regard for the type and nature of installation
- √ Adequacy of protective devices: type and fault current rating for fault protection
- √ Presence and adequacy of circuit protective conductors
- √ Coordination between conductors and overload protective devices
- √ Wiring systems and cable installation methods / practices with regard to the type and nature of installation and external influences
- N/A Cables concealed under floors, above ceilings, in walls adequately protected against damage by contact with fixings

Provision of additional protection by RCDs having rated residual operating current (I_{Δn}) not exceeding 30 mA

- N/A 1 For circuits used to supply mobile equipment not exceeding 32 A rating for use outdoors in all cases
- √ 2 For all socket-outlets of rating 20 A or less provided for use by ordinary persons unless exempt
- N/A 3 For cables concealed in walls at a depth of less than 50mm
- √ Provision of fire barriers, sealing arrangements so as to minimize the spread of fire
- N/A Band II cables segregated/separated from Band I cables
- √ Cables segregated/separated from non-electrical services

CIRCUITS (Continued)

Termination of cables at enclosures

- √ 1. Connections under no undue strain
- √ 2. No basic insulation of a conductor visible outside enclosure
- √ 3. Connections of live conductors adequately enclosed
- √ 4. Adequately connected at point of entry to enclosure (glands, bushes etc.)
- √ Suitability of circuit accessories for external influences
- √ Circuit accessories not damaged during erection
- √ Single-pole devices for switching in line conductor only
- √ Adequacy of connections, including cpc's, within accessories and at fixed and stationary equipment

ISOLATION AND SWITCHING

Isolators

- √ 1. Presence and location of appropriate devices
- √ 2. Capable of being secured in the OFF position
- √ 3. Correct operation verified (functional check)
- √ 4. The installation, circuit or part thereof that will be isolated is clearly identified by location and/or durable marking
- N/A 5. Warning label posted in situations where live parts cannot be isolated by the operation of a single device

Switching off for mechanical maintenance

- √ 1. Presence of appropriate devices
- √ 2. Acceptable location – state if local or remote from equipment in question
- √ 3. Capable of being secured in the OFF position
- √ 4. Correct operation verified (functional check)
- √ 5. The circuit or part thereof to be disconnected clearly identified by location and/or durable marking

Emergency switching/stopping

- N/A 1. Presence of appropriate devices
- N/A 2. Readily accessible for operation where danger might occur

ITEMS REQUIRING INSPECTION DURING INITIAL VERIFICATION (CONTINUED)

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671.

The list of items is not exhaustive.

CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

ISOLATION AND SWITCHING (Continued)

√ Suitability of equipment in terms of IP and fire ratings

Emergency switching/stopping (Continued)

√ Enclosure not damaged/deteriorated during installation so as to impair safety

N/A 3. Correct operation verified (functional check)

√ Suitability for the environment and external influences

N/A 4. The installation, circuit or part thereof to be disconnected,

√ Security of fixing

Functional switching

N/A Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire

√ 1. Presence of appropriate devices

N/A Provision of undervoltage protection, where specified

√ 2. Correct operation verified (functional check)

√ Provision of overload protection, where specified

Recessed luminaires (downlighters)

N/A 1. Correct type of lamps fitted

N/A 2. Installed to minimise build-up of heat

PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

N/A Particular requirements for special locations are fulfilled.

√ To indicate that an inspection or test has been carried out and the result is satisfactory

X To indicate that an inspection or test has been carried out and the result was unsatisfactory

LIM To indicate that an inspection or test has not been carried out following agreed limitations of inspection or testing

N/A To indicate the inspection or test is not applicable

N/V To indicate that details could not be verified

SCHEDULE OF ITEMS TESTED

N/A External earth loop impedance, Z_e

N/A Basic protection against direct contact by barrier or enclosure provided during erection

√ Installation earth electrode resistance, R_a

N/A Insulation of non-conducting floors or walls

√ Continuity of protective conductors

√ Polarity

N/A Continuity of ring circuit conductors

√ Earth fault loop impedance Z_s

√ Insulation resistance between live conductors

N/A Verification of phase sequence

√ Insulation resistance between live conductors and earth

√ Operation of residual current devices

N/A Protection by separation of circuits

√ Functional testing of assemblies

√ Verification of voltage drop

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SCHEDULES OF ADDITIONAL RECORDS (See attached schedule/s)

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

**The attached Schedules are part of this document and this Certificate is valid only when they are attached to it.
Examples of items requiring Inspections and Schedules of Test Results are attached.**

Page No(s) of additional schedule(s):

TEST INSTRUMENTS USED	
Earth fault loop impedance	N/A
Insulation resistance	N/A
Continuity	N/A
RCD	N/A
Multi Functional Tester	18080224
Other	N/A

NOTES FOR RECIPIENT

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

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 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 health and safety documentations.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by an electrically skilled person. The time interval recommended before the first periodic inspection must be inserted and stated in the Certificate 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 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 accompanied by the Schedule of Inspections and the Schedule(s) of Test Results.

DISTRIBUTION BOARD DETAILS

DB ref.: DB 1	Z _s at this board (Ω): 108	I _{pn} at this board (KA): 2.33	Main switch type 60947-3 Isolator	Rating: 100 Amps	Supply conductors: 25 mm ²	Earth: 16 mm ²
Distribution board location: RHS CORNER		Supplied from: Mains		No. Of phases: Single	Supply protective device type: LIM	Rating: N/A Amps

CIRCUIT DETAILS

TEST RESULTS

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Circuit Reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors		Max. Disconnection time permitted (s)	Over-current devices			RCD IΔn mA	Maximum permitted Z _s Ω	Circuit impedances Ω			Insulation resistance		RCD							
					Live (mm ²)	CPC (mm ²)		Type BS EN	Rating (A)	Short circuit capacity (KA)			Ring final circuits only (Measured end to end)	r ₁	r _n	r ₂	R ₁ + R ₂	R ₂	Live /Live M Ω	Live /Earth M Ω	Polarity	Maximum Measured Z _s Ω	Functional Testing	At IΔn ms	At 5 x IΔn ms
1	SOCKET NEXT TO DB	B/D	B	1	2.5	2.5	0.4	60898 Type B	10	6	30	3.49	N/A	N/A	N/A	0.01	N/A	>200	>200	✓	129	✓	163	33	
2	LIGHTING	B/D	B	7	1.5	1.5	0.4	60898 Type B	6	6	30	5.82	N/A	N/A	N/A	0.36	N/A	>200	>200	✓	130	✓	163	33	
3	SOCKET LHS ALTER	B/D	B	1	2.5	2.5	0.4	60898 Type B	10	6	30	3.49	N/A	N/A	N/A	0.30	N/A	>200	>200	✓	128	✓	163	33	
4	SPARE																								
5	SPARE																								
6	HEATER LHS	B/D	B	4	2.5	2.5	0.4	60898 Type B	16	6	30	2.18	N/A	N/A	N/A	0.29	N/A	>200	>200	✓	131	✓	135	32	
7	HEATER RHS	B/D	B	7	2.5	2.5	0.4	60898 Type B	16	6	30	2.18	N/A	N/A	N/A	0.37	N/A	>200	>200	✓	136	✓	135	32	
8	HEATER BELOW DB	B/D	B	1	2.5	2.5	0.4	60898 Type B	16	6	30	2.18	N/A	N/A	N/A	0.02	N/A	>200	>200	✓	128	✓	135	32	
9	SPARE																								
10	SPARE																								

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- METALLIC CONDUIT	PVC CABLES IN METALLIC TRUNKING	PVC CABLES IN NON- METALLIC TRUNKING	PVC/SWA CABLES	XLPE/SWA CABLES	MINERAL-INSULATED CABLES	