ELECTRICAL INSTALLATION CERTIFICATE [BS 7671:2018 as amended]

000014293 - Master

APPROVED CONTRACTOR

Olwyn Fox 2000

Details of the Client

Client/Address	Northwood, 64 Harrogate Road, Chapel Allerton, Leeds, West Yorkshire, LS7 4LA

Details of the Installation

		The installation is:	
Address	4 Vicarage View, Headingley, Leeds, West Yorkshire, LS5 3HF	New	N/A
Extent of the installation covered by this certificate	New Mains	An Addition	N/A
		An Alteration	✓

Design

I being the person(s) responsible for the design of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to July 2018 (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.1.3 and 133.5) none

Details of permitted exceptions (Regulations 411.3.3): Yes

Where applicable, a suitable risk assessment(s) must be attached to this Certificate: N/A

Number of pages: n/a

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

For the DESIGN of the installation:

Signature		Date	28/05/2020	Name (CAPITALS)	D.Hepworth	Designer 1
Signature	N/A	Date	N/A	Name (CAPITALS)	N/A	Designer 2 **

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

Construction

I being the person(s) responsible for the construction of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to July 2018 (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.1.3 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 CONSTRUCTION of the installation:

Signature		Date	28/05/2020	Name (CAPITALS)	D.Hepworth	Constructor

Inspection and Testing

I being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the inspection and testing hereby CERTIFY that the work for which I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to July 2018 (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.1.3 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 INSPECTION AND TESTING of the installation:

Reviewed by

Signature		Date	28/05/2020	Signature		Date	28/05/2020
Name (CAPITALS)	D.Hepworth	Inspector		Name (CAPITALS)	R.Lord	Qualified Supervisor	

Particulars of the Organisation(s) Responsible for the Electrical Installation

DESIGN (1)	Organisation	Olwyn Fox 2000 Ltd			
Address	55 Commercial Street, Rothwell Leeds. West Yorkshire LS26 0QD	Tel 0113 2823159	NICEIC Enrolment Number	7630	
			Branch No.(If Applicable)	N/A	
DESIGN (2)	Organisation	N/A			
Address		Tel N/A	Registration Number	N/A	
			Branch No.(If Applicable)	N/A	
CONSTRUCTION	Organisation	Olwyn Fox 2000 Ltd			
Address	55 Commercial Street, Rothwell Leeds. West Yorkshire LS26 0QD	Tel 0113 2823159	NICEIC Enrolment Number	7630	
			Branch No.(If Applicable)	N/A	
INSPECTION AND TESTING	Organisation	Olwyn Fox 2000 Ltd			
Address	55 Commercial Street, Rothwell Leeds. West Yorkshire LS26 0QD	Tel 0113 2823159	NICEIC Enrolment Number	7630	
			Branch No.(If Applicable)	N/A	

Supply Characteristics and Earthing Arrangements

Tick boxes and enter details, as appropriate

System Type(s)

TN-S	N/A
TN-C-S	✓
TN-C	N/A
TT	N/A
IT	N/A

Number and Type of Live Conductors

		a.c.	✓	d.c.	✖
1-Phase (2 wire)	✓	1-Phase (3 wire)	N/A	2 Pole	N/A
2-Phase (3 wire)	N/A			3 Pole	N/A
3-Phase (3 wire)	N/A	3-Phase (4 wire)	N/A	Other	N/A
Other	N/A				

Nature of Supply Parameters

Nominal Voltage	$U^{(1)}$	N/A V	$Uo^{(1)}$	230 V
Nominal frequency	$f^{(1)}$	50 Hz		
Prospective fault current	$Ipf^{(2)}$	1.77 kA		
External loop impedence	$Ze^{(2)}$	0.13 Ω		
Number of Sources		1		

(1) by enquiry
(2) by enquiry or by measurement

Characteristics of primary supply overcurrent protective Device(s)

BS(EN)	88-2 Fuse HRC
Type	mG
Rated current	80 A
Short circuit Capacity	80 kA
Confirmation of Supply Polarity	✓

Particulars of Installation at the Origin

Means of Earthing

Distributor's facility	✓
Installation earth electrode	N/A

Details of Installation Earth Electrode (where applicable)

Type (eg rod(s), tape etc)	N/A	Location	N/A
Electrode resistance,R_A	N/A Ω	Method of measurement	N/A

Main Switch/ Switch-Fuse/ Circuit-Breaker/ RCD

Type BS(EN)	5419 Isolator	Voltage Rating	230 V
No. of poles	2	Rated Current,In	100 A
Supply Conductors material	Copper	RCD operating current, I∆n	N/A mA
Supply Conductors CSA	25 mm^2	RCD operating time at, I∆n	N/A ms
		Rated time delay	N/A ms

Maximum Demand (Load)

80 Amps

Protective measure(s) against electric shock

ADS

Earthing conductor

Conductor material:	Copper
Conductor csa:	16 mm^2
Continuity verifed	✓
Connection verifed	✓

Main protective bonding conductors

Conductor material:	Copper
Conductor csa:	10 mm^2
Continuity verified	✓
Connection verified	✓

Bonding of extraneous conductive parts (✓)

Water installation pipes	✓
Lightning Protection	N/A
Oil installation pipes	N/A
Structural Steel	N/A
Gas installation pipes	✓
Other	N/A

Comments on Existing Installation:

In the case of an addition or alteration see regulation 644.1.2: --See Additional Page--

Next Inspection

I , the designer(s) RECOMMEND that this installation is further inspected and tested after an interval of not more than 5 Years or change of tenancy.

Schedule of Items Inspected

Outcomes	Acceptable condition	✓	Not applicable	N/A

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Item No	Description	Outcome	Item No	Description	Outcome
1.0	**External condition of electrical intake equipment (visual inspection only)** (If inadequacies are identified with the intake equipment it is recommended the person ordering the report informs the appropriate authority.)		6.0	**Basic and fault protection**	
1.1	Service cable	✓	a)	SELV	✓
1.2	Service head	✓	b)	PELV	✓
1.3	Earthing arrangement	✓	c)	Double insulation	✓
1.4	Meter tails	✓	d)	Reinforced insulation	✓
1.5	Metering equipment	✓	7.0	**Distribution equipment**	
1.6	Isolator (where present)	N/A	7.1	Working space/accessibility adequate/satisfactory	✓
2.0	**Parallel or switched alternative sources of supply**		7.2	Security of fixing	✓
2.1	Presence of adequate arrangements where generator to operate as a switched alternative:		7.3	Insulation of live parts not damaged during erection	✓
a)	Dedicated earthing arrangement independent of that of the public supply	N/A	7.4	Adequacy/security of barriers	✓
2.2	Presence of adequate arrangements where generator to operate in parallel with public supply system:		7.5	Suitability of enclosures for IP and fire ratings	✓
a)	Correct connection of generator in parallel	N/A	7.6	Enclosures not damaged during installation	✓
b)	Compatibility of characteristics of means of generation	N/A	7.7	Presence and effectiveness of obstacles	✓
c)	Means to provide automatic disconnection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values	N/A	7.8	Main switch(es): presence and operation (functional check)	✓
d)	Means to prevent connection of generator in the event of loss of public supply or voltage or frequency deviation beyond declared values	N/A	7.9	Components are suitable according to manufacturers' assembly instructions or literature	✓
e)	Means to isolate generator from public supply	N/A	7.10	Circuit-breaker and RCDs operation to prove functionality	✓
2.3	Presence of alternative/additional supply warning notices at or near:		7.11	RCD(s) provided for fault protection where specified	✓
a)	The origin	N/A	7.12	RCD(s) provided for protection against the risk of fire where present	✓
b)	The meter position if remote from origin	N/A	7.13	RCD(s) provided for additional protection where specified	✓
c)	The consumer unit/distribution board to which the alternative/ additional sources are connected	N/A	7.14	Confirmation overvoltage protection (SPDs) provided where specified	N/A
d)	All points of isolation of ALL sources of supply	N/A	7.15	SPDs functioning/operating as expected	N/A
3.0	**Automatic disconnection of supply**		7.16	Selection of protective devices(s) and base(s); correct type and rating	✓
3.1	Presence and adequacy of protective earthing/bonding arrangements as follows:		7.17	Single-pole protective devices in line conductors only	✓
a)	Distributor's earthing arrangement or installation earth electrode arrangement	N/A	7.18	Protection against mechanical damage where cables enter equipment	✓
b)	Earthing conductor and connections	✓	7.19	Protection against electromagnetic effects where cables enter ferromagnetic enclosures	✓
c)	Main protective bonding conductors and connections	✓	7.20	Confirmation that ALL conductor connections including connections to busbars are correctly located in terminals and are tight and secure	✓
d)	Earthing/bonding labels at all appropriate locations	✓	7.21	Presence of RCD six-monthly test notice where required	✓
3.2	Accessibility of:		7.22	Presence of diagrams, charts or schedules at or near each distribution board where required	✓
a)	Earthing conductor connections	✓	7.23	Presence of next inspection recommendation label	✓
b)	All protective bonding connections	✓	7.24	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board where required	N/A
3.3	FELV-requirements satisfied	✓	7.25	Presence of other required labelling	N/A
3.4	Nominal line to line voltage does not exceed 110V and the nominal line to earth voltage does not exceed 63.5V	N/A			
4.0	**Basic protection**				
4.1	Provisions for basic protection where specified:				
a)	Insulation of live parts	✓			
b)	Barriers or enclosures	✓			
c)	Obstacles	✓			
d)	Placing out of reach	N/A			
5.0	**Additional protection**				
5.1	The presence and effectiveness of additional protection methods used as follows:				
a)	RCDs should not exceed 30 mA	✓			
b)	Supplementary bonding	✓			

Schedule of Items Inspected

Outcomes	Acceptable condition	✓	Not applicable	N/A

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Item No	Description	Outcome	Item No	Description	Outcome
8.0	**Circuits**		9.0	**Isolation and switching**	
8.1	Identification of conductors	✓	9.1	Isolators:	
8.2	Cables correctly supported throughout with protection against abrasion	N/A	a)	Presence and location of appropriate devices	✓
8.3	Examination of cables for signs of mechanical damage during installation	N/A	b)	Capable of being secured in the OFF position	✓
8.4	Examination of installation/insulation of live parts not damaged during erection	N/A	c)	Correct operation verified (functional check)	✓
8.5	Non-sheathed cables protected by enclosure in conduit, ducting or trunking	N/A	d)	The installation, circuit or part thereof that will be isolated is clearly identified by location and/or durable marking	✓
8.6	Suitability of containment systems (including flexible conduit)	N/A	e)	Warning notice posted in situations where live parts cannot be isolated by the operation of a single device	✓
8.7	Correct temperature rating of cable insulation	N/A	9.2	Switching off for mechanical maintenance:	
8.8	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	✓	a)	Presence of appropriate devices	✓
8.9	Adequacy of protective devices: type and fault current rating for fault protection	N/A	b)	Acceptable location (local or remote)	N/A
8.10	Operation/adequacy of AFDD(s) where present	N/A	c)	Capable of being secured in the OFF position	✓
8.11	Presence and adequacy of circuit protective conductors	N/A	d)	Correct operation verified (functional check)	✓
8.12	Coordination between conductors and overload protective devices	N/A	e)	The installation circuit or part thereof to be disconnected clearly identified by location and/or durable marking	✓
8.13	Wiring systems and cable installation methods/practices appropriate to the type and nature of installation and external influences	N/A	9.3	Emergency switching/stopping:	
8.14	Cables concealed under floors above ceilings in walls/ partitions adequately protected against damage	N/A	a)	Presence of appropriate devices	N/A
8.15	Cables that are installed in walls/partitions installed in prescribed zones	N/A	b)	Readily accessible for operation where danger might occur	N/A
8.16	Provision of additional protection by RCDs having rated residual operating current (I delta n) not exceeding 30 mA for:		c)	Correct operation verified (functional check)	N/A
a)	- all socket-outlets with a rated current not exceeding 32 A or less unless exempt	N/A	d)	The installation, circuit or part thereof to be disconnected clearly identified by location and/or durable marking	N/A
b)	- supplies to mobile equipment with a current rating not exceeding 32 A for use outdoors	N/A	e)	Firefighter's switches present/operating (where required)	N/A
c)	- cables concealed in walls/partitions at a depth of less than 50 mm	N/A	9.4	Functional switching:	
d)	- cables concealed in walls/partitions containing metal parts regardless of depth	N/A	a)	Presence of appropriate devices	N/A
e)	- circuits supplying luminaires within domestic (household) premises only	N/A	b)	Correct operation verified (functional check)	N/A
8.17	Provision of fire barriers sealing arrangements so as to minimise the spread of fire	N/A	10.0	Current-using equipment (permanently connected)	
8.18	Band II cables segregated/separated from Band I cables	N/A	10.1	Suitability of equipment in terms of IP and fire ratings	N/A
8.19	Cables segregated/separated from non-electrical services	N/A	10.2	Enclosure not damaged/deteriorated during installation so as to impair safety	✓
8.20	Termination of cables at enclosures:		10.3	Suitability for the environment and external influences	✓
a)	Connections under no undue strain	N/A	10.4	Security of fixing	✓
b)	No basic insulation of a conductor visible outside enclosure	N/A	10.5	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire	N/A
c)	Connections of live conductors adequately enclosed	N/A	10.6	Recessed luminaires (downlighters):	
d)	Adequately connected at point of entry to enclosure	N/A	a)	Correct type of lamps fitted	N/A
8.21	Suitability of circuit accessories for external influences	N/A	b)	Installed to minimise build-up of heat	N/A
8.22	Circuit accessories not damaged during erection	N/A	10.7	Provision of undervoltage protection, where specified	✓
8.23	Single-pole devices for switching or protection in line conductors only	N/A	10.8	Provision of overload protection, where specified	✓
8.24	Adequacy of connections including CPCs within accessories and at fixed and stationary equipment	N/A	10.9	Adequacy of working space/accessibility to equipment	✓
11.0	**Special installations or locations** List below any 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 7 are fulfilled:				

12.0	Other	Outcome

Inspected By

Name: D.Hepworth

Date: 28/05/2020

Signature:

Schedule of Additional Records (See attached schedule)

The attached Schedules are part of this document and this Certificate is valid only when they are attached to it

N/A Schedules of Inspections and N/A Schedules of Test Results

Board Details

TO BE COMPLETED IN EVERY CASE

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Location of Distribution Board: Cellar (Niglon)

Distribution board designation: DB 1

Supply to distribution board is from: N/A

No of phases: N/A

Nominal Voltage: N/A V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A

Rating: N/A A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/S	Shower	A	100	1	6	2.5	0.4	61009 RCD/RCBO		B	32	6	30	1.37
2/S	House Ring Main	A	100	8	2.5	1.5	0.4	61009 RCD/RCBO		B	32	6	30	1.37
3/S	Lighting upstairs	A	100	2	1.5	1	0.4	61009 RCD/RCBO		B	6	6	30	7.28
4/S	Lighting Downstairs	A	100	4	1.5	1	0.4	61009 RCD/RCBO		B	6	6	30	7.28
5/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
8/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
9/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
11/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/S	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs N/A Ω | Ipf N/A kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	97056411970597	RCD	97056411970597
Insulation resistance	97056411970597	Multi-function	N/A
Continuity	97056411970597	Other	N/A

Details of circuits and/or equipment vulnerable to damage

RCBO's

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/S	N/A	N/A	N/A	0.27	N/A	N/A	N/A	200	200	200	✓	0.39	26	✓		NO
2/S	0.61	0.61	1.10	0.85	N/A	N/A	N/A	200	200	200	✓	0.52	27	✓		NO
3/S	N/A	N/A	N/A	0.64	N/A	500	N/A	200	200	200	✓	0.86	26	✓		NO
4/S	N/A	N/A	N/A	0.53	N/A	500	N/A	200	200	200	✓	0.68	27	✓		NO
5/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature	D.Hepworth	Position	Electrician
Name	D.Hepworth	Date of testing	28/05/2020

Comments on Existing Installation

Installation with various additions and alterations,

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, 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. 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 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 skilled person or persons, competent in such work. 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 for new work associated with an addition or alteration to an existing installation. It should not have been issued for the inspection and testing 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.

These notes are based on those seen in Appendix 6 BS 7671:2018 (as amended)