



Electrical Certificate *Installation/Modification*

**Requirements for Electrical Installations - BS 7671: 2008
incorporating Amendment No.3, 2015 [IET Wiring Regulations]**

- 1** 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).
- 2** 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.
- 3** 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.
- 4** 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.
- 5** 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.
- 6** For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under "NEXT INSPECTION".
- 7** 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 of an existing electrical installation. An "Electrical Installation Condition Report" should be issued for such an inspection.
- 8** This Certificate is only valid if accompanied by the schedule of inspections and the schedule(s) of test results



Electrical Certificate *Installation/Modification*

Requirements for Electrical Installations – BS 7671: 2008
incorporating Amendment No.3, 2015 [IET Wiring Regulations 17th Edition]
All items inspected to confirm as appropriate, compliance
with the relevant clauses in BS7671

NA/ 2 7 7 9 4 0 0 0 0 1 0 6 3

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1 Details of the Installation

Client	Helen Lamb	Installation (If different from client)	Helen Lamb
Address	Viamed, 15 Station Road , Crosshills Keighley, West Yorkshire	Address	Viamed, 15 Station Road , Crosshills Keighley, West Yorkshire
Postcode	BD20 7DT	Postcode	BD20 7DT

2 Description, extent and limitations of the Installation (note 5)

Installation is New ☐ Addition ☐ Alteration ☒ Records available Yes ☒ No ☐ Date of original Installation Not Known

Description of installation

Removal of existing socket circuit in stores. Installation of double sockets to goods in area.

Extent of installation covered by this Certificate

Test of sockets installed only. No testing undertaken of existing electrical installation. Unable to access supply protective device. Unable to perform Ze or PFC tests due to operational constraints.

Details of departure from BS7671 (Regulations 120.3 and 133.5)

Details of permitted exceptions. [Regulation 411.3.3] Where applicable a suitable risk assessment[s] must be attached to this certificate

Risk assessment attached ☐

3 For design, construction, inspection and testing [for sole person responsibility.]

I being the person responsible for design, construction, inspection and test of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the design, construction, inspection and test hereby CERTIFY that the design, construction, inspection and test for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2008, amended to 2015 (date) The extent of liability of the signatory or the signatories is limited to the work described in Section 2 as subject of this certificate.

For the DESIGN / CONSTRUCTION / INSPECTION AND TEST of the installation:

Next inspection I/We the designer[s] recommend that this Installation is further Inspected after an Interval of not more than 5 years

Company name	Sync Electrical Building Services Ltd
Installer	Robert Sunley
Company address	23 Highfell Rise Keighley, West Yorkshire
Postcode	BD22 6LG

Signature	Robert Sunley
Position	Electrician
Date	16/07/2018
NAPIT membership No.	27794

4 Supply characteristics and earthing arrangements

Earthing Arrangements TN-S ☒ TN-C-S ☐ TT ☐ Other ☐ Please specify:
Number a type of live conductors ac. ☒ d.c. ☐ No. of phases 3 No. of wires 4
Nature of Supply Parameters (Note: (1) by enquiry, (2) by enquiry or by measurement) Nominal voltage, U_o (1) 230 V Nominal frequency, f(2) 50
Hz Confirmation of supply polarity ☐ Prospective fault current, I_{pf} (2) LIM kA External loop Impedance, Z_e (2) LIM Ω
Supply Protective Device BS LIM Type LIM Nominal Current Rating LIM A
Other Sources of Supply

5 Particulars of installation referred to in this certificate

Means of Earthing Distributor's facility ☒ Installation earth electrode ☐

Details of installation Earth Electrode (where applicable) Type (e.g. rod(s), tape etc) N/A Maximum demand
Location N/A Electrode resistance to earth N/A Ω Maximum Demand (load)

Main Protective Conductors	Material	Csa (mm ²)	Verified	(connection / continuity)
Earthing Conductor	Copper	16	<input checked="" type="checkbox"/>	Water installation <input type="checkbox"/> Structural steel
Protective Bonding Conductor	Copper	10	<input type="checkbox"/>	Gas installation pipes <input checked="" type="checkbox"/> Lightning protection
Main Supply Conductor	Copper	25	<input checked="" type="checkbox"/>	Oil installation pipes <input type="checkbox"/> Other <input type="text"/>

Main Switch

Location Cupboard in entrance. BS(EN) 5419 No. of Poles 2 Current Rating 100 A
Fuse/device rating or setting A Voltage rating 230 V
If RCD main switch: Rated residual operating current I_{Δn} = mA Rated time delay ms (at I_{Δn})
Measured operating trip time ms

Comments on existing installation (In the case of addition or alteration see Section 633)

Unable to clarify if the main incoming water supply is bonded. The incoming water supply stop cock is buried in the wall of the ladies w.c.

(For additions or alterations) cables concealed within trunking and conduits, or cables or conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground may not have been Inspected.

Schedule of Inspections attached ☒



Electrical Certificate Installation/Modification Inspection Schedule

for Domestic and Similar Premises with up to 100A Supply

Requirements for Electrical Installations – BS 7671: 2008
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A Schedule of Inspections Outcomes

Acceptable
condition:
Pass

Not
applicable:
N/A

(In the Outcome column use the codes above.)

Item No.	Description	Outcome
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT	
1.1	Condition of service cable	Pass
1.2	Condition of service head	Pass
1.3	Condition of distributor's earthing arrangement	Pass
1.4	Condition of meter tails - Distributor / Consumer	Pass
1.5	Condition of metering equipment	Pass
1.6	Condition of isolator (where present)	N/A
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Adequate arrangements where a generator set operates as a switched alternative to the public supply [551.6]	N/A
2.2	Adequate arrangements where a generator 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; 543.3.2]	N/A
3.1.3	Main protective bonding conductors and connection, including accessibility [411.3.1.2; 543.3.2]	N/A
3.1.4	Provision of safety electrical earthing / bonding labels at all appropriate locations [514.13]	N/A
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 contact with live parts) within the installation:	
4.1.1	Insulation of live parts e.g. conductors completely covered with durable insulating material [461.1]	Pass
4.1.2	Barriers and enclosures e.g. correct IP Rating [416.2]	Pass
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of methods:	
5.1.1	RCD(s) not exceeding 30mA operating current [415.1; Part 7] see item 8.14 of this schedule	Pass
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 system, including the source and associated circuits [Section 414]	N/A
6.1.2	PELV system, 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]	N/A
6.1.4	Electrical separation for one item of 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]	Pass
7.2	Presence of linked main switch(s) [537.1.4; 537.1.5; 537.1.6]	Pass
7.3	Isolators, for every circuit or group of circuits and all items of equipment [537.2]	Pass

Inspector's Name Robert Sunley

Signature

Date 16/07/2018

Robert Sunley



Electrical Certificate Installation/Modification Inspection Schedule

for Domestic and Similar Premises with up to 100A Supply

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A Schedule of Inspections

Outcomes

Acceptable
condition:
Pass

Not
applicable:
N/A

(In the Outcome column use the codes above.)

Item No.	Description	Outcome
7.4	Suitability of enclosure[s] in terms of IP and fire rating [416.2; 421.1.6; 421.1.201]	Pass
7.5	Protection against mechanical damage where cables enter equipment [522.8.1; 522.8.11]	Pass
7.6	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure [526.1]	Pass
7.7	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel [521.5]	Pass
7.8	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection [411.3.2; 411.4, .5, .6; Sections 432,433]	Pass
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]	Pass
7.9.2	Warning notice of method of isolation where live parts not capable of being isolated by a single device [514.11]	Pass
7.9.3	Presence of inspection and testing notice [514.12.1]	Pass
7.9.4	RCD quarterly test notice; where required [514.12.2]	Pass
7.9.5	Warning notice of non-standard (mixed) cable colour of conductors present [514.14]	Pass
7.10	Presence of labels I indicate the purpose of switchgear and protective devices [514.1.1; 514.8]	Pass
8.0	FINAL CIRCUITS	
8.1	Adequacy of cables for current-carrying capacity with regard for the type and nature of the installation [Section 523]	Pass
8.2	Cable installation methods suitable for the location(s) and external influences [Section 522]	Pass
8.3	Segregation / separation of Band I (ELV) from Band I (LV) circuits, and electrical and non-electrical services[528]	Pass
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion [Sections 521, 522]	Pass
8.5	Provision of fire barriers, sealing arrangements where necessary [527.2]	N/A
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking [521.10.1; 526.8]	Pass
8.7	Cables concealed under floors, above ceilings or in walls / partitions, adequately protected against damage. [522.6.201; 202; 204]	N/A
8.8	Conductors correctly identified by colour, lettering or numbering [Section 514]	Pass
8.9	Presence, adequacy and correct termination of circuit protective conductors [411.3.1.1; 543.1]	Pass
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain [Section 526]	Pass
8.11	No basic insulation of a conductor visible outside enclosure [526.8]	Pass
8.12	Single-pole devices for switching or protection in line conductors only [132.14.1; 530.3.2]	Pass
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences [134.1.1; 512.2; Section 526]	Pass
8.14	Provision of additional protection by RCD not exceeding 30mA:	
8.14.1	Socket-outlets rated at 20 A or less unless exempt [Regulation 411.3.3]	Pass
8.14.2	Mobile equipment with a current rating not exceeding 32 A for use outdoors [411.3.3]	Pass
8.14.3	Cables concealed in walls at a depth of less than 50mm [522.6.202; 522.6.203]	N/A
8.14.4	Cables concealed in walls / partitions containing metal parts regardless of depth [522.6.203]	N/A
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]	Pass

Inspector's Name Robert Sunley

Date 16/07/2018

Signature

Robert Sunley



Electrical Certificate Installation/Modification Inspection Schedule

for Domestic and Similar Premises with up to 100A Supply

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A Schedule of Inspections Outcomes

Acceptable
condition:
Pass

Not
applicable:
N/A

(In the Outcome column use the codes above.)

Item No.	Description	Outcome
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]	N/A
8.15.4	Firefighters 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]	N/A
9.2	Provision of overload and / or undervoltage protection e.g. rotating machines, if required [Sections 445; 552]	N/A
9.3	Installed to minimize the build-up of heat and restrict the spread of fire [421.1.4; 559.5.1]	N/A
9.4	Adequacy of working space. Accessibility to equipment [132.12; 513.1]	N/A
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) [Sections 445; 552]	N/A
11.1	OTHER SPECIAL INSTALLATIONS OR LOCATIONS	
11.1	List all other special installations or locations present, if any. [Record separately the results of particular inspections applied]	

Schedule of Tests

Results to be recorded on Schedule of Test Results

N/A	External earth loop Impedance, Z_e
N/A	Installation earth electrode
N/A	Prospective fault current I_{pf}
Yes	Continuity of Earth Conductors
Yes	Continuity of Circuit Protective Conductors
Yes	Continuity of ring final conductors
Yes	Continuity of Protective Bonding Conductors
Yes	Volt drop verified

Yes	Insulation Resistance between Live conductors
Yes	Insulation Resistance between Live conductors & Earth Polarity (Prior to energisation)
Yes	Polarity (prior to energisation)
Yes	Polarity (after energisation) including phase sequence
Yes	Earth fault loop impedance
Yes	RCDs / RCBOs including discrimination
Yes	Functional testing of devices.

(insert Pass or N/A)

Inspector's Name Robert Sunley

Date 16/07/2018

Signature

Robert Sunley

Electrical Certificate Installation/Modification ***Test Schedule***

for Domestic and Similar Premises with up to 100A Supply

Requirements for Electrical Installations – BS 7671:2008 incorporating Amendment No.3 2015

[IET Wiring Regulations 17th Edition]

NA/	2	7	7	9	4	0	0	0	0	1	0	6	3
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Client Helen Lamb

Installation address Viamed, 15 Station Road, Crosshills, Keighley, West Yorkshire

Postcode BD20 7DT

Complete in every case

Location of distribution board	Stores
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
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90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Distribution board designation	Wylex 1
--------------------------------	---------

Number of ways 8

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from

Overcurrent protective device for the distribution circuit:	No. of phases	1	Nominal Voltage	230	V
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Type BS(EN)	3871-B	Rating	50	A
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Supply polarity confirmed	✓	Phase sequence confirmed	
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Characteristics at this distribution board

Z_{db}	0.27	Ω	Operating times of	At I Δn	ms
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I_{pf}	.867	kA	associated RCD(if any)	at 5 $I_{\Delta n}$	ms
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Associated RCD
(if any): BS (EN)

RCD	No of Poles	$I_{\Delta n}$	mA
1	2	10	10
2	2	10	10
3	2	10	10
4	2	10	10
5	2	10	10
6	2	10	10
7	2	10	10
8	2	10	10
9	2	10	10
10	2	10	10
11	2	10	10
12	2	10	10
13	2	10	10
14	2	10	10
15	2	10	10
16	2	10	10
17	2	10	10
18	2	10	10
19	2	10	10
20	2	10	10
21	2	10	10
22	2	10	10
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95	2	10	10
96	2	10	10
97	2	10	10
98	2	10	10
99	2	10	10
100	2	10	10

Test instrument serial number(s)

Earth fault loop impd.	1016911877
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Insulation resistance	1016911877
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Continuity 1016911877

RCD 1016911877

CIRCUIT DETAILS

TEST RESULTS

[illegible]

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

Wiring Types 1= PVC/PVC 2= Single Insulated in Conduit or Trunking 3= Mineral Insulated 4= SWA/XPLE 5= FP200

Tested by: Name (capital letters) ROBERT SUNLEY

Position	Electrician
----------	-------------

Date	Not Specified
------	---------------

Signature

Robert Sunley

This form is based on the requirements of Appendix 6 of BS 7671

NAPIT Administration Centre, 4th Floor, Mill 3, Pleasley Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

NA/EIC/CF/001 (V3)

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Electrical Certificate Installation/Modification Test Schedule

for Domestic and Similar Premises with up to 100A Supply

Requirements for Electrical Installations – BS 7671:2008 incorporating Amendment No.3 2015

[IET Wiring Regulations 17th Edition]

NA/	2	7	7	9	4	0	0	0	0	1	0	6	3
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Client Helen Lamb

Installation address Viamed, 15 Station Road, Crosshills, Keighley, West Yorkshire

Postcode BD20 7DT

Complete in every case

Location of distribution board	Goods in
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
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84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Distribution board designation	RCD - Sockets
--------------------------------	---------------

Number of ways	1
----------------	---

Complete only if the distribution board is not connected directly to the origin of the installation

Wylex 1, Supply to RCD (1)

Overcurrent protective device for the distribution circuit:	No. of phases	1	Nominal Voltage	230
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Type BS(EN)	3871 -B	Rating	32	A
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Supply polarity confirmed ☒ Phase sequence confirmed ☐

Characteristics at this distribution board

Z_{db}	0.39	Ω	Operating	At I _{An}	ms
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I_{pf}	0.610	kA	associated RCD(if any)	at 5 l Δn	ms
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Associated RCD
(if any): BS (EN)

RCD No. of	$I_{\Delta n}$	mA
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Test instrument serial number(s)

Earth fault loop imped	1016911877
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Insulation resistance	1016911877
-----------------------	------------

Continuity	1016911877
------------	------------

RCD	1016911877
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CIRCUIT DETAILS

TEST RESULTS

[illegible]

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

Wiring Types 1= PVC/PVC 2= Single Insulated in Conduit or Trunking 3= Mineral Insulated 4= SWA/XPLE 5= FP200

Tested by: Name (capital letters) ROBERT SUNLEY

Position	Electrician
----------	-------------

Date 05/07/2018

Signature

Robert Sunley

This form is based on the requirements of Appendix 6 of BS 7671

NAPIT Administration Centre, 4th Floor, Mill 3, Pleasley Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

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