

**PERIODIC INSPECTION REPORT FOR AN ELECTRICAL INSTALLATION
(Requirements for Electrical Installations – BS 7671 IEE Wiring Regulations)**

Original Certificate **Certificate reference 411**

DETAILS OF THE CLIENT

Name: Dowens
Address: 25 Cherch Street Seaham

PURPOSE FOR WHICH THIS REPORT IS REQUIRED

To assess the condition of the installation in relation to current standards.

DETAILS OF THE INSTALLATION

Occupier:
Address: 29 Eloise close Seahm

Description of Premises:	Domestic	#	Commercial	Industrial	Other
Estimated age of the Electrical Installation:	15	Years	Evidence of Alterations or Additions:	No	If "yes" estimated age: Years
Date of the last Inspection and test report:					Records available: No

EXTENT AND LIMITATIONS OF THE INSPECTION

Extent of the Electrical installation covered by this report:

Sample of fixtures and fittings have been removed

Limitations:

As below

Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in roof spaces and generally within the fabric of the building or under ground have not been inspected.
This inspection has been carried out in accordance with BS 7671: 2001 (IEE Wiring Regulations), amended to 01/03/2004.

ORGANISATION RESPONSIBLE FOR THE TESTING AND INSPECTION

Organisation A.I. Electrical Services 07861231634
Address: 7 Ennerdale Close Seaham
NICEIC Enrolment No. (Where appropriate) 6 0 7 9 1 4

Co. Durham
SR78DI

Branch number
(If applicable) 0 0 0

SCHEDULE OF ITEMS INSPECTED (See Section 712 of BS 7671: 2001)

<u>Method of protection against electric shock</u>		<u>Prevention of mutual detrimental influences</u>	
	(a) Protection against both direct and indirect contact:	#	(a) Proximity of non-electrical services and other influences
N/A	(i) SELV	N/A	(b) Segregation of band I and band II circuits or band II insulation used
	(ii) Limitation of discharge of energy	N/A	(c) Segregation of safety circuits
	(b) Protection against direct contact:		Identification
#	(i) Insulation of live parts	X	Presence of diagrams, instructions, circuit charts and similar information
#	(ii) Barriers and enclosures	#	Presence of danger notices and other warning signs
N/A	(iii) Obstacles	#	Labelling of protective devices, switches and terminals
N/A	(iv) Placing out of reach	#	Identification of conductors
N/A	(v) PELV		Cables and conductors
X	(vi) Presence of RCD for supplementary protection	LIM	Routing of cables in prescribed zones or within mechanical protection
	(c) Protection against indirect contact:	LIM	Connection of conductors
	(i) EEBAD including:	LIM	Erection methods
#	Presence of earthing conductors	#	Selection of conductors for current-carrying capacity and volt drop
#	Presence of circuit protection conductors	#	Presence of fire barriers, suitable seals and protection against thermal effects
#	Presence of main equipotential conductors		General
#	Presence of supplementary equipotential bonding conductors	#	Presence and correct location of appropriate devices for isolation and switching
N/A	Presence of earthing arrangements for combined protective and functional purposes	#	Adequacy of access to switchgear and other equipment
N/A	Presence of adequate arrangements for alternative sources(s), where applicable	X	Particular protective measures for special installations and locations
#	Presence of residual current devices(s)	#	Connection of single pole devices for protection or switching in phase conductors only
#	(ii) Use of class II equipment or equivalent	LIM	Correct connection of accessories and equipment
N/A	(iii) Non-conducting location: Absence of protective conductors	N/A	Presence of undervoltage protective devices
N/A	(iv) Earth free equipotential bonding: Presence of earth free equipotential bonding conductors	#	Choice of setting of protective and monitoring devices for protection against indirect and/or overcurrent
N/A	(v) Electrical separation	#	Selection of equipment and protective measures appropriate to external influences
		#	Selection of appropriate functional switching devices

- # 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 (See Section 712 of BS 7671: 2001)

#	External earth loop impedance, Ze	#	Protection by separation of circuits
N/A	Installation earth electrode resistance, Ra	#	Protection against direct contact by barrier or enclosure provided during erection
#	Continuity of protective conductors	N/A	Insulation of non-conducting floors or walls
#	Continuity of ring circuit conductors	#	Polarity
#	Insulation resistance between live conductors	#	Earth fault loop impedance Zs
#	Insulation resistance between live conductors and earth	#	Operation of residual current devices
#	Site applied insulation	#	Functional testing of assemblies

TEST INSTRUMENTS USED

Earth fault loop impedance	9083p
Insulation resistance	9083p
Continuity	9083p
RCD	9083p
Other	N/A
Other	N/A

COMMENTS ON EXISTING INSTALLATION

Note: Enter "None" or "See report notes". Report notes will be appended to this report if required.

See report notes

NOTES FOR RECIPIENT

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

This Periodic Inspection Report form is intended for the reporting on the condition of an existing electrical installation.

You should have received an original Certificate and the contractor should have retained a duplicate. If you were the person ordering this report, but not the owner of the installation, you should pass this Report, or a full copy of it, immediately to the user.

The original Report is to 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 Report will provide the new owner with the details of the condition of the electrical installation at the time the Report was issued.

The 'Extent and Limitations' box should fully identify the extent of the installation covered by this Report and any limitations on the inspection and tests. The contractor should have agreed these aspects with you and any interested parties (Licensing Authority, Insurance Company, Building Society etc) before the inspection was carried out.

The Report will usually contain a list of recommended actions necessary to bring the installation up to the current standard. **For items classified as 'requires urgent attention', the safety of those using the installation may be at risk**, and it is recommended that a competent person undertake the necessary remedial work without delay.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection is stated in the Report under "Next Inspection."

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System Types		Number and types of live conductors				Nature of supply Parameters		
TN-S	#	A.C.	#	D.C.		Nominal Voltage U/Uo	230/230	Volts
TN-C-S		1-Phase 2 wire	#	1-Phase 3 wire		Nominal Frequency	50	Hz
TN-C		2-Phase 3 wire				Prospective fault current	16	kA
TT		3-Phase 3 wire		3-Phase 4 wire	Other	External Ze	0.8	Ohms
IT		Other				Number of supplies	1	

CHARACTERISTICS OF THE SUPPLY OVERCURRENT PROTECTIVE DEVICE

Type BS/EN	1361	Nominal current rating	80	Amps	Short circuit capacity	16.5	KA
------------	------	------------------------	----	------	------------------------	------	----

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of earthing		Details of installation Earth Electrode (where applicable)											
Supplier's facility	#	(e.g. rods, tape ect)	Type:	copper	Location	down stairs toilet							
Installation earth electrode	N/A	Electrode resistance, RA		Ohms	Method of measurement								
Maximum Demand (Load) Per phase	54	Amps	Method of protection against indirect contact		EEBADS								
Main Switch or circuit-Breaker													
Type BSEN	60947	No. Of poles	2	Voltage rating	230	V	Current rating	100	A	RCD IΔn	mA	RCD at IΔn	mS
Supply conductors													
Conductor material		Copper			Conductor csa		16 mm ²						
Earthing conductors													
Conductor material		Copper			Conductor csa		16 mm ²		Continuity check		#	(✓) OK	
Main equipotential bonding conductors													
Conductor material		Copper			Conductor csa		16 mm ²		Continuity check		#	(✓) OK	
Bonding of extraneous conductive parts (✓)													
Water service	Gas service	#	Oil service	N/A	Structural steel	N/A	Lightning protection	N/A	Other services	N/A	List in report notes		

OBSERVATION AND RECOMMENDATIONS

Referring to the attached Schedules of Inspection and Test Results and subject to the limitations specified at the Extent and Limitations of the Inspection section:

No

Remedial work is required

The following observations are made:

One of the following numbers, as appropriate, will be allocated to each of the observations made to indicate to the person(s) responsible for the installation the action recommended.

1

Requires urgent attention.

2

Requires improvement.

3

Requires further investigation.

4

Does not comply with BS 7671:2001 amended to 01/03/2004

OBSERVATION AND RECOMMENDATIONS

The following Category 1 observations were made

OBSERVATION AND RECOMMENDATIONS

The following Category 2 observations were made

OBSERVATION AND RECOMMENDATIONS

The following Category 3 observations were made

OBSERVATION AND RECOMMENDATIONS

The following Category 4 observations were made

SUMMARY OF THE INSPECTION

Date of the inspection 14/04/2022

General condition of the installation Satisfactory

Additional information and report notes

INSPECTION AND TESTING

I/We, being the 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 amended to 01/03/2004 except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended See notes

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 14/04/2022

Name
(CAPITALS) W A JORDAN

INSPECTOR

Signature		Date	14/04/2022	Reviewed by Name (CAPITALS)	W A JORDAN	Qualified Supervisor
-----------	---	------	------------	-----------------------------------	------------	-------------------------

NEXT INSPECTION

We recommend that this installation is further inspected and tested after an interval of not more than 5 years, provided that any observation requiring urgent attention are attended to with out delay.

DISTRIBUTION BOARD DETAILS

DB ref.: 01	Z _s at this board (Ω): 0.15	I _{pn} at this board (kA): 1.53	Main switch type BSEN reference: 60947	Rating: 100Amps	Supply conductors: 16mm ²	Earth: 16mm ²
Distribution board location: down stairs toilet		Supplied from: meter		No. Of phases: Single	Supply protective device type: 1361	
				Rating: 80Amps		

TEST RESULTS

CIRCUIT DETAILS

Circuit Reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors		Max. Disconnection time permitted (s)	Overcurrent devices			Maximum Z _s permitted Ω	Circuit impedances Ω				Insulation resistance				RCD							
					Live (mm ²)	cpc (mm ²)		Type BS EN	Rating (A)	Short circuit capacity (kA)		I _{Δn} mA	Ring final circuits only (Measured end to end)	All circuits (At least one column to be completed)	Phase /Phase M Ω	Phase /Neutral M Ω	Phase /Earth M Ω	Neutral /Earth M Ω	Polarity	Maximum Measured Z _s Ω	At 1sn ms	At 5 x 1sn ms					
																							R ₁	r _n	r ₂	R ₁ + R ₂	R ₂
1	Lights down	A	1	4	1	1	5	60898	6	6	30	6.4	-	-	-	1.11	-	-	200	200	200	200	Y	1	-	-	
2	Lights up	A	1	3	1	1	5	60898	6	6	30	6.4	-	-	-	1.13	-	-	200	200	200	200	Y	1	-	-	
3	Smokes	A	1	2	1	1	5	60898	6	6	30	6.4	-	-	-	0.89	-	-	200	200	200	200	Y	1	-	-	
4	Heating	A	1	1	2.5	1.5	5	60898	6	6	30	6.4	-	-	-	0.85	-	-	200	200	200	200	Y	1	-	-	
5																											
6	cooker	A	1	1	6	2.5	0.4	60898	40	6	30	1.09	-	-	-	0.85	-	-	200	200	200	200	Y	1	-	-	
7	Ring up	A	1	6	2.5	2.5	0.4	60898	32	6	30	1.2	0.36	0.36	0.71	0.89	-	-	200	200	200	200	Y	1	14	10	
8	Ring down	A	1	11	2.5	1.5	0.4	60898	32	6	30	1.2	0.46	0.46	0.92	0.85	-	-	200	200	200	200	Y	1	16	9	
9																											
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