



Date 07/03/2022

Certificate Serial No/Ref:

63 Everett Street

Oakworth Electrical

Domestic Electrical Installation Certificate

(Requirements for Electrical Installations – BS 7671 IET Wiring Regulations)

DETAILS OF THE CLIENT		ADDRESS OF THE INSTALLATION	
Client and address	63 Everett Street Hartlepool	Installation address	63 Everett Street Hartlepool
	Postcode: TS26 0JA		Postcode: TS26 0JA
DETAILS OF THE INSTALLATION			The Installation Is
Extent of the installation work covered by this certificate	New consumer unit fitted		New <input checked="" type="checkbox"/>
			An addition <input type="checkbox"/>
			An alteration <input type="checkbox"/>
DESIGN, CONSTRUCTION, INSPECTION AND TESTING		* BS 7671 amended to : 2018	
I being the person/s responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature) 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 design, construction, inspection and testing work for which I/we have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671: amended to* except for the departures, if any, detailed as follows:		The extent of liability of the signatory/signatories is limited to work described above as the subject of this certificate. For the DESIGN, CONSTRUCTION, INSPECTION & TESTING of the installation.	
Details of departures from BS 7671: as amended (Regulations 120.3 & 133.5)		Signature Name (Capitals) DREW CRAVEN Date 07/03/2022	
N/A		The results of the inspection and testing reviewed by	
		Signature Name (Capitals) GRANT HAWKINS Date 07/03/2022	
PARTICULARS OF THE CONTRACTOR		NEXT INSPECTION	
Trading title	Oakworth Electrical	* Interval in terms of years, months, or weeks, as appropriate	
33 Hillmorton Road Ingleby Barwick Stockton On Tees	Email	I RECOMMEND that this installation is further inspected and tested after an interval of not more than * 07/03/25	
	Web	COMMENTS ON EXISTING INSTALLATION Additional information and report notes	
Telephone No		N/A	
	Postcode Ts17 5BH	SCHEDULE OF ADDITIONAL RECORDS See attached schedule	
Registration No: (if applicable) 51178	Branch No: (if applicable) N/A	Risk assessment attached	
		N/A	

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS				Nature of Supply Parameters				*Characteristics of Primary Supply									
System		Number and Type of Live Conductors		(1) by enquiry (2) by enquiry or by measurement (3) where more than one supply, the higher or highest values				*Other sources of supply to be detailed on attached schedules									
TN-S	N/A	1-phase (2 wire)	✓	1-phase (3 wire)	N/A	Nominal Voltage U (1)	230/230	V	Nominal frequency f (1)	50	Hz	BS(EN)	BS 1361 Type 2b				
TN-C-S	✓					AC or DC	A/C		External earth fault loop impedance Ze (2/3)	0.22	Ω	Type	Type 2				
TT	N/A	2-phase (3 wire)	N/A	3-phase (4 wire)	N/A	Uo (1)	230	V				Rated current	100	A	Short-circuit capacity		kA
* Other	N/A	other	N/A			Single-phase	Prospective fault current (2/3)	0.68	kA	3-phase	Prospective fault current (2/3)	N/A					


PARTICULARS OF INSTALLATION AT THE ORIGIN				Main Switch/Switch-Fuse/Circuit-Breaker/RCD														
Means of earthing		Details of installation Earth Electrode (where applicable)				Measured Ze		0.22	Ω									
Distributor's facility	✓	Type: (e.g rod(s), tape, etc)	N/A	Method of measurement:	N/A	Maximum demand: (load)	100	Amps										
Installation earth electrode	N/A	Electrode resistance to Earth	N/A	Location:	N/A	Number of smoke alarms	2											
Earthing conductor		Main protective bonding conductors and bonding of extraneous conductive parts (√)																
Conductor material:	Copper			Conductor material	Copper	Conductor csa	10	Location: (where not obvious)										
Conductor csa:	16	mm ²	Continuity check	✓	Gas installation pipes	✓	Water installation pipes	✓	Oil installation pipes	N/A	Structural steel	N/A	To other Specify	N/A				
																*RCD operating current IΔn	N/A	mA
																*RCD rated time delay	N/A	ms
																*RCD operating time (at IΔn)	N/A	ms
																* If RCD main switch		

SCHEDULE OF ITEMS TESTED					
✓	External earth loop impedance, Ze	✓	Polarity	✓	Protection by separation of circuits
N/A	Installation earth electrode resistance, Ra	✓	Earth fault loop impedance Zs	N/A	Other (*Please note below)
✓	Continuity of protective conductors	N/A	Verification of phase sequence	* Further notes for items tested, if applicable	
✓	Continuity of ring final circuit conductors	✓	Operation of residual current device(s)	N/A	
✓	Insulation resistance between live conductors	✓	Functional testing of assemblies		
✓	Insulation resistance between live conductors and earth	✓	Verification of voltage drop		

SCHEDULE OF INSPECTIONS (for new installation work only)

Item No	DESCRIPTION	OUTCOME	Item No	DESCRIPTION	OUTCOME	Item No	DESCRIPTION	OUTCOME
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)		6.0	OTHER METHODS OF PROTECTION		8.0	CIRCUITS continued	
1.1	Service cable	✓	6.1	Presence and effectiveness of methods which give both basic and fault protection:		8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	N/A
1.2	Service head	✓		• SELV system, including the source and associated circuits (Section 414)	N/A	8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion (Sections 521, 522)	N/A
1.3	Earthing arrangement	✓		• PELV system, including the source and associated circuits (Section 414)	N/A	8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	N/A
1.4	Meter tails	✓		• Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	✓	8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	N/A
1.5	Metering equipment	✓		• Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	N/A	8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203; 522.6.204)	✓
1.6	Isolator (where present)	✓	7.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S):		8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY		7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓	8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A	7.2	Components are suitable according to assembly manufacturer's instructions or literature (536.4.203)	✓	8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A	7.3	Presence of linked main switch(es) (462.1.201)	✓	8.11	No basic insulation of a conductor visible outside enclosure (526.8)	✓
3.0	AUTOMATIC DISCONNECTION OF SUPPLY		7.4	Isolators, for every circuit or group of circuits and all items of equipment (462.2)	✓	8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3; 643.6)	✓
3.1	Presence, adequacy of earthing & protective bonding arrangements:		7.5	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)	✓	8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓
	• Distributor's earthing arrangement (542.1.2.1; 542.1.2)	✓	7.6	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	✓	8.14	Provision of additional protection by RCD not exceeding 30mA:	
	• Installation earth electrode (where applicable) (542.1.2.3)	N/A	7.7	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓		• Socket-outlets rated at 32 A or less, unless exempt (411.3.3)	✓
	• Earthing conductor and connections, including accessibility (542.3; 543.3.2)	✓	7.8	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓		• Supplies for mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	✓
	• Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2; 544.1)	✓	7.9	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, 411.5, 411.6; Sections 432, 433; 537.3.1.1)	✓		• Cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	✓
	• Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)514.13)	✓	7.10	Presence of appropriate circuit charts, warning and other notices:			• Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	✓
	• RCD(s) provided for fault protection (411.4.204; 411.5.3)	N/A		• Provision of circuit charts/schedules or equivalent forms of information (514.9)	N/A		• Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
4.0	BASIC PROTECTION			• Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	N/A	8.15	Presence of appropriate devices for isolation and switching correctly located including:	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:			• Periodic inspection and testing notice (514.12.1)	✓		• Means of switching off for mechanical maintenance (Section 464; 537.3.2)	N/A
	• Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓		• RCD six-monthly test notice; where required (514.12.2)	✓		• Emergency switching (465.1; 537.3.3)	N/A
	• Barriers or enclosures e.g. correct IP rating (416.2)	✓		• Warning notice of non-standard (mixed) colours of conductors present (514.14)	✓		• Functional switching, for control of parts of the installation and current-using equipment (463.1; 537.3.1)	✓
5.0	ADDITIONAL PROTECTION			• AFDD six-monthly test notice; where required	N/A		• Firefighter's switches (537.4)	N/A
5.1	Presence and effectiveness of additional protection methods:		7.11	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	N/A			
	• RCD(s) not exceeding 30 mA operating current (415.1; Part 7), see Item 8.14 of this schedule	✓	8.0	CIRCUITS		8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓
	• Supplementary bonding (415.2; Part 7)	N/A	8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓	8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	✓

SCHEDULE OF INSPECTIONS (for new installation work only) continued

Item No	DESCRIPTION	OUTCOME	Item No	DESCRIPTION	OUTCOME	Item No	DESCRIPTION	OUTCOME
9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)		10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)		11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	N/A	10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc	✓	11.1	List all other special installations or locations present, if any (Record separately the results of particular inspections applied)	N/A
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	N/A	Inspected By		Date			
9.3	Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	N/A	DREW CRAVEN		07/03/2022			
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	N/A						

TEST INSTRUMENTS USED

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

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

N/A

DISTRIBUTION BOARD DETAILS FOR 63 Everett Street Hartlepool TS26 0JA																											
DB ref:	DB1	Zs at this board (Ω):	0.34	lpf at this board (kA):	0.68	Main switch type BSEN	60947	Rating:	100	Amps	Supply	25	mm ²	Earth:	16	mm ²											
Distribution board location:	Hall	Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type BSEN reference:	BS 1361 Type 2b	Rating:		Amps															
CIRCUIT DETAILS														TEST RESULTS													

Circuit Reference	Circuit Designation	Type of wiring	Reference method	Number of points served	Circuit Conductors		Max disconnection time	Protective Device					Continuity Ω					Insulation Resistance				Polarity	Maximum measured Zs Ω	RCD		AFDD	
					Live (mm ²)	cpc (mm ²)		Type BS (EN)	Rating (A)	RCD IΔn mA	Short circuit capacity (kA)	Max permitted Zs (Ω*)	Ring final circuits only (measured end to end)			All circuits (At least 1 column to be completed)		Insulation resistance test voltage V	Live - Live	Live - Neutral	Live - Earth			Neutral - Earth	Disconnection time (ms)		RCD test button/ functionality
													r1	rn	r2	R1+R2	R2										

1	Upstairs Sockets	A	C	5	2.5	1.5	0.4	60898 type B	32	30	6	1.10	0.55	0.55	0.90	0.28	N/A	500v	N/A	13.5	9.15	10.8	✓	0.50	31.5	11.4	✓	N/A		
2	Lights	A	C	8	1.5	1.0	0.4	60898 type B	6	30	6	5.82	N/A	N/A	N/A	0.98	N/A	500v	N/A	7.23	5.63	5.98	✓	1.20	31.5	11.4	✓	N/A		
3	Downstairs Sockets	A	C	8	2.5	1.5	0.4	60898 type B	32	30	6	1.10	0.35	0.35	0.56	0.18	N/A	500v	N/A	20.4	15.3	17.8	✓	0.40	30.2	10.5	✓	N/A		

* Where the maximum permitted earth fault loop impedance value stated is taken at from a source other than the tabulated values given in Chapter 41 of BS 7671 , state the source of the data



CODES FOR TYPES OF WIRING							
A	B	C	D	E	F	G	
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	Reference Methods are methods of installation for which the current-carrying capacity has been determined by test or calculation

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 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 a competent person. The maximum time interval recommended before the next inspection is 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 a 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.

The certificate is only valid if a Schedule of Inspection of Test Results is attached.

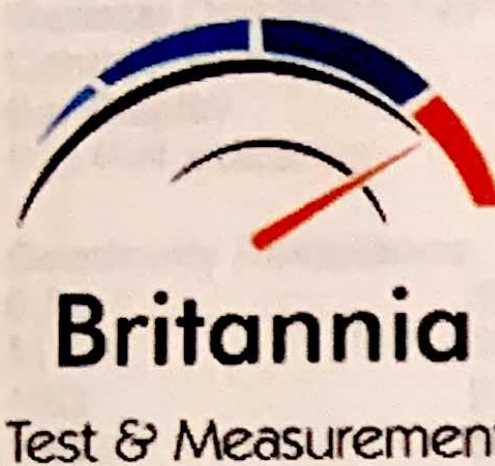
Electrical Test Instrument Calibration Certificate Copy

CERTIFICATE OF CALIBRATION

Issued By Britannia Test & Measurement Ltd
Date of Issue 03 February 2022

Certificate Number
BTM7651

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Britannia Test & Measurement Ltd
3K Brighthouse Brighthouse Village
Brighthouse Road
Middlesbrough
TS2 1RT

Test & Measurement

Approved Signatory

F Fielding C Trattles P Trattles

Customer : National Lighting
5 Portrack Trade Park, Cheltenham Road
Portrack Lane TS18 2AD

Date Received :

Instrument - System ID : ID12922
Description : Multifunction Tester
Manufacturer : Megger
Model Number : MFT1721
Serial Number : 101552341
Procedure Version : 1.00

Environmental Conditions

Temperature : 20°C +/- 1°C
Relative Humidity : 50% +/- 10%
Mains Voltage : 240V +/- 10V
Mains Frequency : 50Hz +/- 1Hz

Comments

Instrument was allowed to stabilise for at least 12 hours before calibration.
Instrument calibrated with test lead set supplied.

Traceability Information

Instrument description	Serial number	Certificate number	Cal. Date	Cal. Period
3200A Electrical Test Calibrator (STD)	M1384F15	44313	13/08/2021	52

Calibrated By : P Trattles

Date of Calibration : 03 February 2022

This certificate provides traceability of measurement to recognised National Standards, and to the units of measurement realised at the National Physical Laboratory or other recognised National Standards laboratories.
Copyright of this certificate is owned by the issuing laboratory and may not be reproduced except with the prior written approval of the issuing laboratory.
This certificate complies with the requirements of BS EN ISO 10012:2003.

Oakworth Electrical

Certifies this certificate is a true likeness of the original calibration certificate for the test instrument(s) used to assess electrical compliance for the installation

