ELECTRICAL INSTALLATION CERTIFICATE

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS BS 7671 (IET WIRING REGULATIONS)
Acknowledgement: this certificate is based on the model in appendix 6 of BS 7671: 2008

Certificate No. 10-08/02

CLIENT DETAILS	INSTALLATION ADDRESS
WALMGATE PROPERTIES	
50 SCARCROFT ROAD	
YORK	
Postcode YO23 1NF	Postcode

DESCRIPTION AND EXTENT OF THE INSTALLATIONS (tick boxes as appropriate)

NEW INSTALLATION ☐ ADDITION TO AN EXISTING INSTALLATION ☐ ALTERATION TO AN EXISTING INSTALLATION ☐

Description of installation: NEW MAINS BOARDS DB1 + DB2

Extent of installation covered by this certificate: ALL CIRCUITS

(Use continuity sheet if necessary)

DESIGN

I/~~We~~ being the person(s) responsible for the design of the electrical installation (as indicated by my/~~our~~ signatures 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:

BS7671 2008 **amended to** 10-08-2018 **(date) except for the departures, if any, details as follows:-**

Details of departure from BS7671: Regulations 120:3 and 133.5

NONE

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

NONE

Risk assessment attached ☐

The extent of liability of the signatory or the signatories is limited to the work described above as the subject of this Certificate.
For the design of the installation: **(Where there is mutual responsibility for the design)

Designer No1 - Signature [signature]	Name (Capitals) A HATTON	Date 10-08-2018
Designer No2** - Signature	Name (Capitals)	Date

CONSTRUCTION

I being the person responsible for the construction of the electrical installation (as indicated by my signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design hereby CERTIFY that the construction work for which I have been responsible is to the best of my knowledge and belief in accordance with:

BS7671 2008 **amended to** 10-08-2018 **(date) except for the departures, if any, details as follows:-**

Details of departure from BS7671: 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 construction of the installation:

Constructors - Signature [signature]	Name (Capitals) A. HATTON	Date 10-08-2018

INSPECTION & TESTING

I being the person responsible for the inspection of the electrical installation (as indicated by my signature below), particulars of which are described above, having 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/~~our~~ knowledge and belief in accordance with:

BS7671 2008 **amended to** 10-08-2018 **(date) except for the departures, if any, details as follows:-**

Details of departure from BS7671: 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 inspection and testing of the installation:

Inspector - Signature [signature]	Name (Capitals) A - HATTON	Date 10-08-2018

NEXT INSPECTION

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

ELECTRICAL INSTALLATION CERTIFICATE

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS BS 7671 (IET WIRING REGULATIONS)
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Certificate No. 10-08/02

PARTICULARS OF SIGNATORIES TO THE ELECTRICAL INSTALLATION CERTIFICATE

Designer (No1)		Designer (No2) if applicable	
Name	ANDREW HATTON	Name	
Company	HATTON ELECTRICAL	Company	
Address	28 PEPPERMINT WAY	Address	
	SELBY		
Postcode	YO8 4QY	Tel No 01757 213607	Postcode / Tel No

Constructor		Inspector	
Name		Name	
Company		Company	
Address		Address	
Postcode	Tel No	Postcode	Tel No

CP Scheme: NAPIT N/A ☐ Membership No: 28569

SUPPLY CHARACTERISTICS & EARTHING ARRANGEMENTS

Earthing Arrangements		Number of Live Conductors		Nature of Supply Parameters	
TN-C		Phase 1	Wire 2	Normal Voltage U/U₀ *	230 V
TN-C-S		Other		Nominal Frequency f *	50 Hz
TT				Prospective fault current Ipf *	2.52 kA
IT		Confirmation of supply polarity		External loop impedance Ze *	0.09 Ω
TN-S	✓				

Supply Protective Device Characteristics			
Type/BSEN	1361	Nominal current rating	100 A

* by enquiry † by enquiry or by measurement

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

Means of Earthing		Details of Installation Earth Electrode (where applicable)	
Distributor's facility	✓	Type (eg. rod(s) tape etc)	
Installation earth electrode		Electrode resistance to Earth	Ω
Maximum Demand		Location	
Maximum demand (load)	84 kVA / Amps		

Main Protective Conductors

Earthing conductor:	Material COPPER	csa 16 mm²	Continuity and connection verified	✓
Main protective bonding conductors (to extraneous-conductive-parts)	Material COPPER	csa 10 mm²	Continuity and connection verified	✓

To water installation pipes: ✓ To gas installation pipes: ✓ To oil installation pipes: To structural steel: To lightning protection:

To other incoming service(s) Specify

Main Switch / Switch-Fuse / Circuit Breaker / RCD

BS(EN)	60947-3	No. of poles	2	Voltage rating	230 V
Location	HALLWAY	Current rating	100 A	Fuse device rating or setting	100 A

If RCD main switch: Rated residual operating current IΔn = ☐ mA Rated time delay ☐ ms Measured operating time ☐ ms (at IΔn)

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

NONE

Schedules

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

No. of Inspection Schedules attached: 1 pages	No. of Test Result Schedules attached 1 pages

ELECTRICAL INSTALLATION CERTIFICATE
SCHEDULE OF INSPECTIONS
(FOR NEW INSTALLATION WORK ONLY)

Certificate No. 10-08/02

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671. The list of items is not exhaustive. Insert ✓ to indicate an inspection has been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item.

Item	Description	Outcome (✓ or N/A)
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT	
1.1	Condition of service cable	✓
1.2	Condition of service head	✓
1.3	Condition of distributor's earthing arrangement	✓
1.4	Condition of meter tails - Distributor / Consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of isolator (where present)	✓
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
21.	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	✓
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	✓
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of earthing and protective bonding arrangements: • Installation earth electrode (where applicable) (542.1.2.3)	✓
	• Earthing conductor and connections, including accessibility (542.3; 543.3.2)	✓
	• Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2)	✓
	• Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	✓
	• RCD(s) provided for fault protection (411.4.9; 411.5.3)	✓
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation: • Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓
	• Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	ADDITIONAL PROTECTION	
5.1	5.1 Presence and effectiveness of additional protection methods: • RCD(s) not exceeding 30 mA operating current (415.1; Part 7), see Item 8.14 of this schedule	✓
	• Supplementary bonding (415.2; Part 7)	✓
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection: • SELV system, including the source and associated circuits (Section 414)	✓
	• PELV system, including the source and associated circuits (Section 414)	✓
	• Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	✓
	• Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	✓
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)	✓
7.2	Presence of linked main switch(s) (537.1.4; 537.1.5; 537.1.6)	✓
7.3	Isolators, for every circuit or group of circuits and all items of equipment (537.2)	✓
7.4	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201)	✓
7.5	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.11)	✓
7.6	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.7	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
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)	✓
7.9	Presence of appropriate circuit charts, warning and other notices: • Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
	• Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓
	• Periodic inspection and testing notice (514.12.1)	✓
	• RCD quarterly test notice; where required (514.12.2)	✓
	• Warning notice of non standard (mixed) colours of conductors present (514.14)	✓
7.10	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓

ELECTRICAL INSTALLATION CERTIFICATE
SCHEDULE OF INSPECTIONS
(FOR NEW INSTALLATION WORK ONLY)

Certificate No. 10-08 /02

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671. The list of items is not exhaustive.

Insert ✓ to indicate an inspection has been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item.

Item	Description	Outcome (✓ or N/A)
8.0	CIRCUITS	
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)	✓
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	✓
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion (Sections 521, 522)	✓
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	✓
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	✓
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, .202, .204)	✓
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	✓
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.2)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓
8.14	Provision of additional protection by RCD not exceeding 30mA: • Socket-outlets rated at 20 A or less, unless exempt (411.3.3)	✓
	• Mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	✓
	• Cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	✓
	• Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	✓
8.15	Presence of appropriate devices for isolation and switching correctly located including: • Means of switching off for mechanical maintenance (537.3)	✓
	• Emergency switches (537.4)	
	• Functional switches, for control of parts of the installation and current-using equipment (537.5)	✓
	• Firefighter's switches (537.6)	✓
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)	✓
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	✓
9.3	Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	✓
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	✓
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc.	✓
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
11.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied)	N/A

GUIDANCE FOR RECIPIENTS

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 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

Inspected by: Name (Capitals)	Signature	Date
A. HATTON		10-08-2018

SCHEDULE OF TEST RESULTS

Acknowledgement: this certificate is based on the model in appendix 6 of BS 7671: 2008

Certificate No. 10-08/02

DB reference no. DB1	Details of circuits and/or installed equipment vulnerable to damage when testing	Details of test instruments used (state serial and/or asset numbers)	
Location HALLWAY	NONE	Multifunction	KEWTECH
Zs at DB (Ω) 0.09 / Ipf at DB (kA) 2.52		Insulation / continuity	KT64DL
Correct supply polarity confirmed ✓		Earth fault loop impedance	
Phase sequence confirmed (where appropriate) ✓		RCD	Earth electrode res.
Tested by: Name (Capitals) A. HATTON	Date 10-08-18		
Signature			

Circuit Details

Circuit number	Circuit Description	Overcurrent Device: BS (EN)	Type	Rating (A)	Breaking Capacity (kA)	Conductor Details: Reference Method	Live (mm²)	cpc (mm²)	Ring Final Circuit Continuity (Ω): r1 (line)	rn (neutral)	r2 (cpc)	Continuity (Ω) (R1+R2) or R2: (R1+R2)	R2	Insulation Resistance (MΩ): Live - Live	Live - Earth	Polarity ✓ or ✗	Zs (Ω)	RCD (ms): @ IΔn	@ 5 IΔn	Test Button Operation	Remarks (continue on a separate sheet if necessary)
1	KITCHEN SOCKETS	60898	B	32	6	C	2.5	1.5	0.57	0.66	1.17	0.69		300+	300+	✓	0.79	25	17	✓	
2	UPSTAIRS SOCKETS	60898	B	32	6	C	2.5	1.5	0.39	0.40	0.64	0.41		300+	300+	✓	0.51	25	17	✓	
3	DOWNSTAIRS SOCKETS	60898	B	32	6	C	2.5	1.5	0.41	0.41	0.71	0.53		300+	300+	✓	0.63	25	17	✓	
4	DOWNSTAIRS LIGHTS	60898	B	6	6	C	1.0	1.0	\	\	\	1.18		300+	300+	✓	1.28	25	17	✓	
5	UPSTAIRS LIGHTS	60898	B	6	6	C	1.0	1.0	\	\	\	1.35		300+	300+	✓	1.45	25	17	✓	
6	DOOR ENTRY SYSTEM	60898	B	6	6	C	1.0	1.0	\	\	\	0.11		300+	300+	✓	0.21	23	18	✓	
7	EMERGENCY LIGHTS	60898	B	6	6	C	1.0	1.0	\	\	\	0.12		300+	300+	✓	0.22	23	18	✓	
8	SMOKE ALARMS	60898	B	6	6	C	1.0	1.0	\	\	\	0.09		300+	300+	✓	0.19	23	18	✓	
9	FIRE ALARM SYSTEM	60898	B	6	6	C	1.5	1.5	\	\	\	0.15		300+	300+	✓	0.25	23	18	✓	
10	DB2 LOFT.	60898	B	50	6	C	16.0	10.0	\	\	\	0.34		300+	300+	✓	0.10	23	18	✓	

SCHEDULE OF TEST RESULTS

Acknowledgement: this certificate is based on the model in appendix 6 of BS 7671:2008

Certificate No. 10-08/02

DB reference no.	DB2
Location	LOFT
Zs at DB (Ω)	0·10
Ipf at DB (kA)	2·23
Correct supply polarity confirmed	✓
Phase sequence confirmed (where appropriate)	✓

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

NONE

Details of test instruments used (state serial and/or asset numbers)

Multifunction	KEWTECH
Insulation / continuity	KT64DL
Earth fault loop impedance	
RCD	
Earth electrode res.	

Tested by: Name (Capitals) A. HATTON Date 10-08-2018

Signature [signature]

Circuit Details		Overcurrent Device				Conductor Details			Test Results: Ring Final Circuit Continuity (Ω)			Continuity (Ω) (R1+R2) or R2		Insulation Resistance (MΩ)		Polarity	Zs (Ω)	RCD (ms)			Remarks (continue on a separate sheet if necessary)
Circuit number	Circuit Description	BS (EN)	Type	Rating (A)	Breaking Capacity (kA)	Reference Method	Live (mm²)	cpc (mm²)	r1 (line)	rn (neutral)	r2 (cpc)	(R1+R2)	R2	Live - Live	Live - Earth	✓ or ✗		@ IΔn	@ 5 IΔn	Test Button Operation	
1	LOFT SOCKETS	60898	B	32	6	C	2·5	1·5	0·22	0·22	0·47	0·28		300+	300+	✓	0·38	21	19	✓	
4	TV AMP	60898	B	16	6	C	2·5	1·5	\	\	\	0·37		300+	300+	✓	0·47	24	15	✓	
5	LOFT LIGHTS	60898	B	6	6	C	1·5	1·0	\	\	\	0·72		300+	300+	✓	0·82	24	15	✓	