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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 1 : DETAILS OF THE CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR

Registration No: 606523 Branch No*: n/a

Trading Title: CM Sturrock Electrical Services

Address: Unit 5, Larch Court Dundee

Postcode: DD2 4SS Tel No: 01382 953506

DETAILS OF THE CLIENT

Contractor Reference Number (CRN): n/a

Name: Grant Property

Address: 10 Whitehall Crescent Dundee

Postcode: DD1 4AU Tel No: n/a

DETAILS OF THE INSTALLATION

Occupier: Vacant

Address: 12 Morgan Place Flat T/L Dundee

Postcode: DD4 6NA Tel No:

PART 2 : DETAILS OF THE ELECTRICAL WORK COVERED BY THIS INSTALLATION CERTIFICATE

Date works completed: 4/3/22

The installation is –

New: (✓)

An addition: ( )

An alteration: ( )

Replacement of a distribution board: ( )

Description and extent of the installation covered by this certificate:

Whole Installation - 10% of all outlets + accessories

Where necessary, continue on a separate numbered page: Page No(s) ( )

PART 3 : NEXT INSPECTION OF THE ELECTRICAL INSTALLATION

I/We, being the designer(s) of the electrical installation as documented in PART 4, RECOMMEND that this installation is further inspected and tested after an interval of not more than: 5 years, *(delete as appropriate)*

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(this option may be used where the design, construction, inspection & testing have been the responsibility of one person)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the design, construction, inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, hereby CERTIFY that the design, construction, inspection and testing for which I have been responsible is to the best of my knowledge and belief in accordance with *BS 7671: 2018*, amended to ..... (date) except for the departures, if any, detailed on attached page(s) ( ) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): Yes/NA Risk assessment attached: ( ) Page No(s) ( )

• Where selectivity is required, details of the verification appended (536.4): ( ) Page No(s) ( )

Name (capitals): AARON KING Signature: A. King Date: 4/3/22

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): CHRIS Sturrock Signature: Date: 4/3/22

*Where applicable

** *The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.*

This certificate is based on the model forms shown in Appendix 6 of *BS 7671*
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Please see the 'Notes for Recipient'

ICN18/1

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 4 : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK *(to be completed where different parties are responsible for the design, construction, inspection & testing)*

DESIGN *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I/We being the person(s) responsible for the design of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, having confirmed that the safety of the existing installation is not impaired, 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 *BS 7671: 2018*, amended to ..... (date) except for the departures, if any, detailed on attached page(s) (.....) (Regulations 120.3, 133.1.3 and 133.5).

• Permitted exception applied (411.3.3): Yes/NA Risk assessment attached: (.....) Page No(s) (.....) • Where selectivity is required, details of the verification appended (536.4): (.....) Page No(s) (.....)

DESIGNER 1 Name (capitals): CRAIG STURROCK Signature: ..... Date: 4/3/22

DESIGNER 2 *(where there is divided responsibility for design)* Name (capitals): ..... Signature: ..... Date: .....

CONSTRUCTION *(The extent of liability of the signatory is limited to the work detailed in PART 2)*

I, being the person responsible for the construction of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018,* amended to ..... (date) except for the departures, if any, detailed on attached page(s) (.....) (Regulations 120.3 and 133.5).

Name (capitals): Eddie Grant Signature: ..... Date: 04-03-2022

INSPECTION & TESTING *(The extent of liability of the signatories is limited to the work detailed in PART 2)*

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with *BS 7671: 2018*, amended to ..... (date) except for the departures, if any, detailed on attached page(s) (.....) (Regulations 120.3 and 133.5).

Name (capitals): AARON KING Signature: A. King Date: 4/3/22

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): CRAIG STURROCK Signature: ..... Date: 4/3/22

PART 5 : COMMENTS ON THE EXISTING INSTALLATION *(in the case of an addition or alteration see Regulation 644.1.2)*

Installation IS In Good Condition

Where necessary, continue on a separate numbered page: Page No(s) (.....)

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

This certificate is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. Where an item is not applicable insert N/A
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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 6 : DETAILS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION *(signatures of which are in PART 4)*

DESIGN, CONSTRUCTION, INSPECTION & TESTING

Organisation: C M Sturrock
Registration No*: 606523
Branch No*: /
Address: Unit 5 Larch Court Dundee
Postcode: DD2 4SS
Tel No: 01382 433501

DESIGN

DESIGNER 1

Organisation:
Registration No*:
Branch No*:
Address:
Postcode:
Tel No:

DESIGNER 2

Organisation:
Registration No*:
Branch No*:
Address:
Postcode:
Tel No:

CONSTRUCTION

Organisation:
Registration No*:
Branch No*:
Address:
Postcode:
Tel No:

INSPECTION & TESTING

Organisation: CM Sturrock Electrical
Registration No*: 606523
Branch No*: N/A
Address: Unit 5, Larch Court Dundee
Postcode: DD2 4SS
Tel No:

PART 7 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements

TN-C-S: (✓) TN-S: ( ) TT: ( )
Other *(state)*:

Supply protective device

(BS (EN) 1361)
Type: (II) Rated current: (100) A

Number and type of live conductors

AC 1-phase, 2-wire: (✓) 2-phase, 3-wire: ( )
3-phase, 3-wire: ( ) 3-phase, 4-wire: ( )
DC 2-wire: ( ) 3-wire: ( ) Other: ( )
Confirmation of supply polarity: (✓)
Other sources of supply *(as detailed on attached schedule)* Page No:(N/A)

Nature of supply parameters

Nominal line voltage, U [1]: (230) V
Nominal line voltage to Earth, U_0 [1]: (230) V
Nominal frequency, f [1]: (50) Hz
Prospective fault current, I_{pf} [1]**: (0·60) kA
External loop impedance, Z_e [1]**: (0·34) Ω

[1] *By enquiry, measurement, or by calculation*

PART 8 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand (load): (100) kVA / A *(delete as appropriate)*

Means of Earthing

Distributor's facility: (✓)
Installation earth electrode: ( )

Where an earth electrode is used insert

Type – rod(s), tape, etc: ( )
Location: ( )
Electrode resistance to Earth: ( ) Ω

Main protective conductors

Earthing conductor:
(material Copper csa 16 mm²)
Connection / continuity verified: (✓)

Main protective bonding conductors:
(material Copper csa 10 mm²)
Connection / continuity verified: (✓)

Main protective bonding connections

Water installation pipes: (✓)
Gas installation pipes: (✓)
Structural steel: ( )
Oil installation pipes: ( )
Lightning protection: ( )
Other *(state)*:

Main switch / Switch-fuse / Circuit-breaker / RCD

Type: (BS (EN) 60947-3)
Location: (Hall)
No. of poles: (2)
Current rating: (100) A
Rating / setting of device: (100) A
Voltage rating: (230) V

Where an RCD is used as the main switch

RCD rated residual operating current, $I_{\Delta n}$: ( ) mA
Measured operating time: ( ) ms
Rated time delay: ( ) ms

**Where applicable*

*** Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, I_{pf}, and external earth fault loop impedance, Z_e, must be recorded.*

ICN18/5

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED – continues on next page

1. External condition of electrical intake equipment (visual inspection only)

1.1 Service cable: (✓) 1.2 Service head: (✓)
1.3 Earthing arrangement: (✓) 1.4 Meter tails: (✓)
1.5 Metering equipment: (✓) 1.6 Isolator (where present): (N/A)

2. Parallel or switched alternative sources of supply

2.1 Presence of adequate arrangements where generator to operate as a switched alternative:
- a) Dedicated earthing arrangement independent of that of the public supply (N/A)

2.2 Presence of adequate arrangements where generator to operate in parallel with public supply:
- a) Correct connection of generator in parallel (N/A)
- b) Compatibility of characteristics of means of generation (N/A)
- 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)
- 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)
- e) Means to isolate generator from public supply (N/A)

2.3 Presence of alternative / additional supply warning notices at or near:
- a) The origin (N/A)
- b) The meter position, if remote from origin (N/A)
- c) The consumer unit / distribution board to which the alternative / additional sources are connected (N/A)
- d) All points of isolation of ALL sources of supply (N/A)

3. Automatic disconnection of supply

3.1 Presence and adequacy of protective earthing / bonding arrangements as follows:
- a) Distributor's earthing arrangement or installation earth electrode arrangement (✓)
- b) Earthing conductor and connections (✓)
- c) Main protective bonding conductors and connections (✓)
- d) Earthing / bonding labels at all appropriate locations (✓)

3.2 Accessibility of:
- a) Earthing conductor connections (✓)
- b) All protective bonding connections (✓)

3.3 FELV – requirements satisfied: (N/A)
3.4 Reduced low voltage – requirements satisfied: (N/A)

4. Additional protection

4.1 The presence and effectiveness of additional protection methods used, as follows:
- a) RCDs not exceeding 30 mA operating current, as specified (✓)
- b) Supplementary bonding (✓)

5. Basic protection *(‡ For use in controlled / supervised conditions only)*

5.1 Presence and adequacy of protective measures to provide basic protection:
- a) Insulation of live parts (✓)
- b) Barriers or enclosures (Lim)
- c) Obstacles ‡ (Lim)
- d) Placing out of reach ‡ (Lim)

6. Basic and fault protection

- a) SELV (N/A)
- b) PELV (N/A)
- c) Double or reinforced insulation (✓)

When used, provide details on a separate numbered page: Page No (N/A)

7. Distribution equipment

7.1 Adequacy of working space / accessibility: (✓)
7.2 Security of fixing: (✓)
7.3 Insulation of live parts not damaged during erection: (✓)
7.4 Adequacy / security of barriers: (✓)
7.5 Suitability of enclosures for IP and fire ratings: (✓)
7.6 Enclosures not damaged during installation: (✓)
7.7 Presence and effectiveness of obstacles: (✓)
7.8 Presence and operation (functional) check of main switch(es): (✓)
7.9 Components are suitable according to assembly manufacturer's instructions or literature: (✓)
7.10 Operation of circuit-breakers and RCDs to prove functionality: (✓)
7.11 RCD(s) provided for fault protection, where specified: (✓)
7.12 RCD(s) provided for protection against fire, where specified: (✓)
7.13 RCD(s) provided for additional protection, where specified: (✓)
7.14 Confirmation overvoltage protection (SPDs) provided, where specified: (N/A)
7.15 Indication of SPD(s) continued functionality confirmed: (N/A)
7.16 Selection of protective devices(s) and base(s); correct type and rating: (✓)
7.17 Single-pole protective devices in line conductors only: (✓)
7.18 Protection against mechanical damage where cables enter equipment: (✓)
7.19 Protection against electromagnetic effects where cables enter ferromagnetic enclosures: (✓)
7.20 Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure: (✓)
7.21 Presence of RCD six-monthly test notice, where required: (✓)
7.22 Presence of diagrams, charts or schedules at or near each distribution board, where required: (✓)
7.23 Presence of next inspection recommendation label: (✓)
7.24 Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required: (✓)
7.25 Presence of other required labelling: (✓)

8. Circuits

8.1 Identification of conductors: (✓)
8.2 Cables correctly supported throughout, with protection against abrasion: (✓)
8.3 Examination of cables for signs of mechanical damage during installation: (✓)
8.4 Examination of installation of live parts, not damaged during erection: (✓)
8.5 Non-sheathed cables protected by enclosure in conduit, ducting or trunking: (✓)
8.6 Suitability of containment systems (including flexible conduit): (✓)
8.7 Correct temperature rating of cable insulation: (✓)
8.8 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation: (✓)
8.9 Adequacy of protective devices: type and fault current rating for fault protection: (✓)
8.10 Adequacy of AFDD(s), where specified: (N/A)
8.11 Presence and adequacy of circuit protective conductors: (✓)
8.12 Coordination between conductors and overload protective devices: (✓)

ICN18/7

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 9 : SCHEDULE OF ITEMS INSPECTED

8.13 Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences: (✓)

8.14 Cables concealed under floors, above ceilings, in walls / partitions, adequately protected against damage: (✓)

8.15 Cables installed in walls / partitions, installed in prescribed zones: (✓)

8.16 Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA:

a) For all socket-outlets with a rated current not exceeding 32 A or less, unless exempt (✓)

b) For supplies to mobile equipment with a current rating not exceeding 32 A for use outdoors (N/A)

c) For cables concealed in walls / partitions at a depth of less than 50 mm (✓)

d) For cables concealed in walls / partitions containing metal parts regardless of depth (✓)

e) For circuits supplying luminaires within domestic (household) premises only (✓)

8.17 Provision of fire barriers, sealing arrangements so as to minimise the spread of fire: (LIM)

8.18 Band II cables segregated / separated from Band I cables: (LIM)

8.19 Cables segregated / separated from non-electrical services: (LIM)

8.20 Termination of cables at enclosures:

a) Connections under no undue strain (✓)

b) No basic insulation of a conductor visible outside enclosure (✓)

c) Connections of live conductors adequately enclosed (✓)

d) Adequately connected at point of entry to enclosure (✓)

8.21 Suitability of circuit accessories for external influences: (✓)

8.22 Circuit accessories not damaged during erection: (✓)

8.23 Single-pole devices for switching or protection in line conductors only: (✓)

8.24 Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment: (✓)

9. Isolation and switching

9.1 Isolators:

a) Presence and location of appropriate devices (✓)

b) Capable of being secured in the OFF position (✓)

c) Correct operation verified (functional check) (✓)

d The installation, circuit or part thereof that will be isolated is clearly identified by location and / or durable marking (✓)

e) Warning notice posted in situations where live parts cannot be isolated by the operation of a single device (N/A)

9.2 Switching off for mechanical maintenance:

a) Presence of appropriate devices (✓)

b) Acceptable location (local or remote) (✓)

c) Capable of being secured in the OFF position (✓)

d) Correct operation verified (functional check) (✓)

e) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (✓)

9.3 Emergency switching / stopping:

a) Presence of appropriate devices (N/A)

b) Readily accessible for operation where danger might occur (N/A)

c) Correct operation verified (functional check) (N/A)

d) The installation, circuit or part thereof to be disconnected clearly identified by location and / or durable marking (N/A)

e) Firefighter's switches present, where required: (N/A)

9.4 Functional switching:

a) Presence of appropriate devices (✓)

b) Correct operation verified (functional check) (✓)

10. Current-using equipment (permanently connected)

10.1 Suitability of equipment in terms of IP and fire ratings: (✓)

10.2 Enclosure not damaged / deteriorated during installation so as to impair safety: (✓)

10.3 Suitability for the environment and external influences: (✓)

10.4 Security of fixing: (✓)

10.5 Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire: (✓)

10.6 Recessed luminaires (downlighters):

a) Correct type of lamps fitted (✓)

b) Installed to minimise build-up of heat (✓)

10.7 Provision of undervoltage protection, where specified: (✓)

10.8 Provision of overload protection, where specified: (✓)

10.9 Adequacy of working space / accessibility to equipment: (✓)

11. 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:

..... ( )

..... ( )

..... ( )

..... ( )

..... ( )

Details must be appended on a separate numbered page (see PART 10 below)

SCHEDULE OF ITEMS INSPECTED BY

Name (capitals): AARON KING

Signature: A. King Date: 4/3/22

PART 10 : SCHEDULES AND ADDITIONAL PAGES

Schedule of Inspections	Schedule of Circuit Details and Test Results for the installation	Additional pages, including data sheets for additional sources	Special installations or locations *(indicated in item 11 above)*	Continuation sheets
Page No(s): (4 & 5)	Page No(s): (6)	Page No(s): ( )	Page No(s): ( )	Page No(s): ( )

The pages identified are an essential part of this certificate.

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ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations

Original (to the person ordering the work)

PART 11 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing .....

CODES for Type of wiring: (A) Thermoplastic insulated / sheathed cables; (B) Thermoplastic cables in metallic conduit; (C) Thermoplastic cables in non-metallic conduit; (D) Thermoplastic cables in metallic trunking; (E) Thermoplastic cables in non-metallic trunking; (F) Thermoplastic / SWA cables; (G) Thermosetting / SWA cables; (H) Mineral-insulated cables; (O) other - state:

Circuit number	Circuit description	Type of wiring (see Codes)	Reference Method (BS 7671)	Number of points served	Circuit conductor csa: Live (mm²)	Circuit conductor csa: cpc (mm²)	Max. disconnection time (BS 7671) (s)	Protective device: BS (EN)	Protective device: Type	Protective device: Rating (A)	Protective device: Short-circuit capacity (kA)	RCD: Operating current, $I_{\Delta n}$ (mA)	Maximum permitted Z_s for installed protective device* (Ω)	Circuit impedances (Ω): Ring final circuits only (measured end to end): (Line) r_1	Ring final circuits only: (Neutral) r_n	Ring final circuits only: (cpc) r_2	All circuits (complete at least one column): $(R_1 + R_2)$	All circuits: R_2	Insulation resistance: Live / Live (MΩ)	Insulation resistance: Live / Earth (MΩ)	Insulation resistance: Test voltage DC (V)	Polarity (✓)	Max. measured earth fault loop impedance, Z_s (Ω)	RCD operating time (ms)	Test buttons: RCD (✓)	Test buttons: AFDD (✓)
1	Shower	A	101	2	10	4	0·4	61009	B	40	6	30	0·87	—	—	—	0·01	—	>299	>299	500	✓	0·32	15·8	✓	—
2	Cooker	A	101	2	6	2·5	0·4	61009	B	32	6	30	1·08	—	—	—	0·06	—	>299	>299	500	✓	0·40	28·1	✓	—
3	Sockets (House)	A	101	12	2·5	1·5	0·4	61009	B	32	6	30	1·08	0·35	0·35	0·56	0·17	—	>299	>299	500	✓	0·72	27·8	✓	—
4	Sockets (Kitchen)	A	101	7	2·5	1·5	0·4	61009	B	32	6	30	1·08	0·20	0·21	0·39	0·13	—	>299	>299	500	✓	0·49	17·7	✓	—
5	Boiler	A	101	2	2·5	1·5	0·4	61009	B	16	6	30	2·18	—	—	—	0·12	—	>299	>299	500	✓	0·47	16·7	✓	—
6	lights + Smokes	A	101	19	1·5	1·0	0·4	61009	B	6	6	30	5·84	—	—	—	0·56	—	>299	>299	500	✓	0·90	13·1	✓	—
7	Alarm	A	101	2	1·5	1·0	0·4	61009	B	6	6	30	5·84	—	—	—	0·29	—	>299	>299	500	✓	0·63	14·7	✓	—

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)
DB designation: DB1
Location of DB: Hall

TESTED BY
Name (capitals): AARON KING
Signature: A. King
Position: Electrician
Date: 4/3/22

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

Supply to DB is from: (.....) Nominal voltage: (.....) V No. of phases: (.....)

Overcurrent protection device for the distribution circuit Type: (BS EN .....) Rating: (.....) A

Associated RCD (if any) Type: (BS EN .....) No. of poles: (.....) $I_{\Delta n}$ (.....) mA Operating time (.....) ms

Characteristics at this DB Confirmation of supply polarity: (.....) Phase sequence confirmed (where appropriate): (.....) Z_s (.....) Ω I_{pf} (.....) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (AK-6111-732)
Continuity: (.....)
Insulation resistance: (.....)
Earth fault loop impedance: (.....)
Earth electrode resistance: (.....)
RCD: (.....)

This certificate is based on the model forms shown in Appendix 6 of *BS 7671* Enter a (✓) or value in the respective fields, as appropriate. * Where figure is not taken from *BS 7671*, state source: (.....)

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