

[BS 7671:2008 as amended]



## Details of the Client

Client/ Address: Eko Custom Homes Ltd, Annie Reed Road, Beverley, East Yorkshire, HU17 0LF

## Details of the Installation

Address: Kontiki Beech House, 5 Blue Anchor Road, Moore Road, Filey, Yorks, YO14 9GG

Extent of the installation covered by this certificate: All fixed wiring

The installation is:

New

An Addition  N/A

An Alteration  N/A

## Design

I being the person(s) responsible for the design of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which

I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to July 2011 except for the departures, if any detailed as follows:

Details of departures from BS7671, as amended (Regulations 120.3, 133.5): None

The extent of liability of the signatory or signatories is limited to the work described above as the subject of this certificate.

For the DESIGN of the installation:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Name: Mr Danny Jenkins Designer 1

Signature: \_\_\_\_\_ Date: N/A Name: N/A Designer 2 \*\*

\*\*(where there is divided responsibility for the design)

## Construction

I being the person(s) responsible for the construction of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which

I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to July 2011 except for the departures, if any detailed as follows:

Details of departures from BS7671, as amended (Regulations 120.3, 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:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Name: P.Waites. Constructor

## Inspection and Testing

I being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have 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 knowledge and belief in accordance with BS 7671 amended to July 2011 except for the departures, if any detailed as follows:

Details of departures from BS7671, as amended (Regulations 120.3, 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:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Name: P.Waites. Inspector

Reviewed by

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Name: Mr Danny Jenkins Qualified Supervisor

## Particulars of the Organisation(s) Responsible for the Electrical Installation

|                        |   |                         |                     |              |
|------------------------|---|-------------------------|---------------------|--------------|
| DESIGN (1)             | Organisation  | Celect Services Limited |                     |              |
| Address                | Units 7&8 college Farm<br>Duloe<br>St, Neots<br>PE19 5HQ.<br>Pe19 5HQ |                         | Tel                 | 01480 407778 |
|                        | NICEIC Enrolment Number   | 21384                   |                     |              |
|                        | Branch No.(If Applicable)   | N/A                     |                     |              |
| DESIGN (2)             | Organisation  | N/A                     |                     |              |
| Address                |   |                         | Registration Number |              |
|                        | Tel   | N/A                     |                     |              |
| CONSTRUCTION           | Organisation  | Celect Services Limited |                     |              |
| Address                | Units 7&8 college Farm<br>Duloe<br>St, Neots<br>PE19 5HQ.<br>Pe19 5HQ |                         | Tel                 | 01480 407778 |
|                        | NICEIC Enrolment Number   | 21384                   |                     |              |
|                        | Branch No.(If Applicable)   | N/A                     |                     |              |
| INSPECTION AND TESTING | Organisation  | Celect Services Limited |                     |              |
| Address                | Units 7&8 college Farm<br>Duloe<br>St, Neots<br>PE19 5HQ.<br>Pe19 5HQ |                         | Tel                 | 01480 407778 |
|                        | NICEIC Enrolment Number   | 21384                   |                     |              |
|                        | Branch No.(If Applicable)   | N/A                     |                     |              |

## Supply Characteristics and Earthing Arrangements

| System Type(s) | Number and Type of Live Conductors  |  |                          |                               |                                     | Nature of Supply Parameters |                          |     |   |                          | Characteristics of Primary Supply Overcurrent Protective Device(s) |    |                          |                                     |
|----------------|-------------------------------------|--|--------------------------|-------------------------------|-------------------------------------|-----------------------------|--------------------------|-----|---|--------------------------|--|----|--------------------------|-------------------------------------|
| TN-S           | <input type="checkbox"/>            | a.c. <input checked="" type="checkbox"/> |                          | d.c. <input type="checkbox"/> |                                     | Nominal Voltage U           | <input type="checkbox"/> | V   | U <sub>o</sub>                            | <input type="checkbox"/> | 230  | V  | BS(EN)                   |                                     |
| TN-C-S         | <input checked="" type="checkbox"/> | 1-Phase (2 wire)                         | <input type="checkbox"/> | 1-Phase (3 wire)              | <input checked="" type="checkbox"/> | 2 Pole                      | <input type="checkbox"/> | N/A | Nominal frequency f                       | <input type="checkbox"/> | 50   | Hz | 88-2 Fuse HRC            |                                     |
| TN-C           | <input type="checkbox"/>            | 2-Phase (3 wire)                         | <input type="checkbox"/> | 3 Pole                        | <input type="checkbox"/>            | 3 Pole                      | <input type="checkbox"/> | N/A | Prospective fault current I <sub>pf</sub> | <input type="checkbox"/> | 0.80   | kA | Type                     | <input type="checkbox"/>            |
| TT             | <input type="checkbox"/>            | 3-Phase (3 wire)                         | <input type="checkbox"/> | 3-Phase (4 wire)              | <input type="checkbox"/>            | Other                       | <input type="checkbox"/> | N/A | External loop impedance Z <sub>e</sub>    | <input type="checkbox"/> | 0.13   | Ω  | Rated current            | <input type="checkbox"/>            |
| IT             | <input type="checkbox"/>            | Other                                    | <input type="checkbox"/> |                               |                                     |                             |                          |     | Number of sources                         | <input type="checkbox"/> | 1  |    | Short circuit Capacity   | <input type="checkbox"/>            |
|                |                                     |  |                          |                               |                                     |                             |                          |     |   |                          |  |    | Confirmation of Polarity | <input checked="" type="checkbox"/> |

## Particulars of Installation at the Origin

|                              |                                     |   |                          |
|------------------------------|-------------------------------------|---|--------------------------|
| <b>Means of Earthing</b>     |                                     | <b>Details of Installation Earth Electrode (where applicable)</b> |                          |
| Distributor's facility       | <input checked="" type="checkbox"/> | Type (eg rod(s), tape etc)  | <input type="checkbox"/> |
| Installation earth electrode | <input type="checkbox"/>            | Electrode resistance, R <sub>A</sub>                              | <input type="checkbox"/> |
|                              |                                     | Location  | <input type="checkbox"/> |
|                              |                                     | Method of measurement   | <input type="checkbox"/> |

|   |                                     |   |   |        |
|---|-------------------------------------|---|---|--------|
| <b>Main Switch or Circuit-Breaker</b>             |                                     | <b>Maximum Demand (load)</b>              | <b>Protective measure(s) against electric shock</b> |        |
| Type BS(EN)                                       | <input type="checkbox"/>            | 40  | Amps  | ADS    |
| Voltage Rating                                    | <input type="checkbox"/>            | 250                                       | V   |        |
| No. of poles                                      | <input type="checkbox"/>            | 2   |   |        |
| Current Rating                                    | <input type="checkbox"/>            | 63  | A   |        |
| Supply Conductors material                        | <input type="checkbox"/>            | Copper                                    |   |        |
| RCD operating current, I <sub>Δn</sub>            | <input type="checkbox"/>            | N/A                                       | mA  |        |
| Supply Conductors CSA                             | <input type="checkbox"/>            | 25  | mm <sup>2</sup>                                     |        |
| RCD operating time at, I <sub>Δn</sub>            | <input type="checkbox"/>            | N/A                                       | ms  |        |
| <b>Earthing and Protective Bonding Conductors</b> |                                     |   |   |        |
| <b>Earthing Conductor</b>                         |                                     | <b>Main Protective bonding conductors</b> |   |        |
| material:   | <input type="checkbox"/>            | Copper                                    |   |        |
| csa:  | <input type="checkbox"/>            | 16  | mm <sup>2</sup>                                     |        |
| Continuity/connection verified                    | <input checked="" type="checkbox"/> | material:                                 | <input type="checkbox"/>                            | Copper |
|   |                                     | csa:                                      | <input type="checkbox"/>                            | 10     |
|   |                                     | Continuity/connection verified            | <input checked="" type="checkbox"/>                 |        |
| <b>Bonding of extraneous conductive parts (✓)</b> |                                     |   |   |        |
| Water   | <input checked="" type="checkbox"/> | Gas                                       | <input type="checkbox"/>                            | N/A    |
| Oil   | <input type="checkbox"/>            | Steel                                     | <input checked="" type="checkbox"/>                 |        |
| Lightning   | <input type="checkbox"/>            | Other                                     | <input type="checkbox"/>                            | N/A    |

## Comments on Existing Installation

Where appropriate comments on the existing installation are to be found on page(s)  None

## Next Inspection

I,  The designer(s) RECOMMEND that this installation is further inspected and tested after an interval of not more than  10 Years or change of tenancy

## Schedule of Items Inspected

### PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK

#### Basic and fault protection

- N/A SELV
- N/A PELV
- Double or Reinforced insulation

#### Basic Protection

- Insulation of live parts
- Barriers or enclosures
- N/A Obstacles \*\*
- N/A Placing out of reach \*\*

#### Fault protection

##### Automatic disconnection of supply

- Presence of earthing conductor
- Presence of circuit protective conductors
- Presence of main protective bonding conductors
- Presence of earthing arrangements for combined protective and functional purposes
- Presence of adequate arrangements for other source(s), where applicable
- N/A FELV
- Choice and setting of protective and monitoring devices (for fault protection and/or overcurrent protection)

##### Non-conducting location \*\*

- N/A Absence of protective conductors

##### Earth-free local equipotential bonding \*\*

- N/A Presence of earth-free equipotential bonding

##### Electrical Separation

- N/A For **one item** of current-using equipment
- For **more than one item** of current-using equipment

##### Additional protection

- Presence of residual current device(s)
- Presence of supplementary bonding conductors

\*\* For use in controlled supervised/conditions only

### Prevention of mutual detrimental influence

- Proximity of non-electrical services and other influences
- N/A Segregation of Band I and Band II circuits and Band II insulation used
- Segregation of safety circuits

### Identification

- Presence of diagrams, instructions, circuit charts and similar information
- Presence of danger notices and other warning notices
- Labelling of protective devices, switches and terminals
- Identification of conductors

### Cables and conductors

- Selection of conductors for current-carrying capacity and voltage drop
- Erection methods
- Routing of cables in prescribed zones
- Cables incorporating earthed armour or sheath, or run in an earthed wiring system, or otherwise protected against nails, screws and the like
- Additional protection by 30mA RCD for cables concealed in walls (where required, in premises not under the supervision of skilled or instructed persons)
- Connection of conductors
- Presence of fire barriers, suitable seals and protection against thermal effects

### General

- Presence and correct location of appropriate devices for isolation and switching
- Adequacy of access to switchgear and other equipment
- Particular protective measures for special installations and locations
- Connection of single pole devices for protection or switching in line conductors only
- Correct connection of accessories and equipment
- N/A Presence of undervoltage protective devices
- Selection of equipment and protective measures appropriate to external influences
- Selection of appropriate functional switching devices

## Schedule of Items Tested

+ see note below

- External earth fault loop impedance,  $Z_e$
- N/A Installation earth electrode resistance,  $R_A$
- Continuity of protective conductors
- Continuity of ring final circuit conductors
- Insulation resistance between live conductors
- Insulation resistance between live conductors and Earth
- N/A Protection by separation of circuits

- N/A Basic Protection by barrier or enclosure provided during erection
- N/A Insulation of non-conducting floors and walls
- Polarity
- Earth fault loop impedance,  $Z_s$
- Verification of phase sequence
- Operation of residual current devices
- Functional testing of assemblies
- Verification of voltage drop

## Schedule of Additional Records [See attached schedule]

Note: Additional page(s) must be identified by the Electrical Installation Certificate serial number and page number(s)

6 - 7

+ All boxes must be completed

✓ to Indicate an Inspection has been carried out and the result is satisfactory

x to Indicate an Inspection has been carried out and the result is not satisfactory (applicable for a periodic inspection only)

N/A to Indicate the Inspection is not applicable to a particular item

## Board Details

| TO BE COMPLETED IN EVERY CASE  |                         | ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION |     |                 |                          |
|--------------------------------|-------------------------|--|-----|-----------------|--------------------------|
| Location of distribution board | External Mains cupboard | Supply to distribution board is from   | N/A |                 | Associated RCD (if any)  |
| Distribution board designation | DB 1                    | No of phases   | N/A | Nominal Voltage | N/A V                    |
|                                |                         | Overcurrent protective device for the distribution circuit   |     |                 | RCD No of poles          |
|                                |                         | Type BS(EN)  | N/A | Rating          | N/A A                    |
|                                |                         |  |     |                 | RCD rating, I $\Delta$ n |
|                                |                         |  |     |                 | N/A mA                   |

## Circuit Details

| Circuit number and line | Circuit designation | Type of wiring | Reference method | No of points served | Circuit conductors csa  |                        | Max. permitted disconnection time s | Overcurrent protective device |      |             |                              | RCD<br>Op. current<br>I $\Delta$ n | Max. permitted Zs<br>$\Omega$ |
|-------------------------|---------------------|----------------|------------------|---------------------|-------------------------|------------------------|-------------------------------------|-------------------------------|------|-------------|------------------------------|------------------------------------|-------------------------------|
|                         |                     |                |                  |                     | Live<br>mm <sup>2</sup> | cpc<br>mm <sup>2</sup> |                                     | BS(EN)                        | Type | Rating<br>A | Short circuit capacity<br>kA |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
| 1/S                     | Sub Mains(CCU 1)    | A              | 102              | 1                   | 10                      | 10                     | 5                                   | 60898 MCB                     | B    | 50          | 10                           | N/A                                | 0.92                          |
| 2/S                     | External Socket     | A              | E                | 1                   | 2.5                     | 1.5                    | 0.4                                 | 60898 MCB                     | B    | 20          | 10                           | 30                                 | 2.30                          |
| 3/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 4/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 5/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 6/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 7/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 8/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 9/S                     | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 10/S                    | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 11/S                    | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
| 12/S                    | SPARE               | -              | -                | -                   | -                       | -                      | -                                   | -                             | -    | -           | -                            | -                                  | -                             |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |
|                         |                     |                |                  |                     |                         |                        |                                     |                               |      |             |                              |                                    |                               |

## Wiring Code

| A  | B  | C  | D   | E   | F                         | G                         | H                        | O     |
|--|--|--|---|---|---------------------------|---------------------------|--------------------------|-------|
| Thermoplastic insulated/ sheathed cables | Thermoplastic cables in metallic conduit | Thermoplastic cables in non-metallic conduit | Thermoplastic cables in metallic trunking | Thermoplastic cables in non-metallic trunking | Thermoplastic/ SWA cables | Thermosetting/ SWA cables | Mineral-insulated cables | Other |

**Board Tests**

|   |   |
|---|---|
| <p>ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p>   | <p>TEST INSTRUMENTS (SERIAL NUMBERS) USED</p>   |
| <p>Zs <input type="text" value="N/A"/> Ω      Operating times of associated RCD (if any)      At I Δ<sub>n</sub> <input type="text" value="N/A"/> ms</p> <p>Ipf <input type="text" value="N/A"/> kA      At 5I Δ<sub>n</sub> <input type="text" value="N/A"/> ms (if applicable)</p> <p>Confirmation of Supply polarity <input checked="" type="checkbox"/></p> | <p>Earth fault loop impedance <input type="text" value="0909509/0239"/> RCD <input type="text" value="0909509/0239"/></p> <p>Insulation resistance <input type="text" value="0909509/0239"/> Multi-function <input type="text" value="N/A"/></p> <p>Continuity <input type="text" value="0909509/0239"/> Other <input type="text" value="N/A"/></p> |

**Circuit Tests**

| Circuit number and line | Circuit impedances Ω                           |                          |                      |  |                | Insulation resistance |              |            |               | Polarity | Maximum measured earth fault loop impedance Ω | RCD                 |                      |                       |
|-------------------------|--|--------------------------|----------------------|--|----------------|-----------------------|--------------|------------|---------------|----------|---|---------------------|----------------------|-----------------------|
|                         | Ring final circuits only (measured end to end) |                          |                      | All circuits (At least one column to be completed) |                | Line/Line             | Line/Neutral | Line/Earth | Earth/Neutral |          |   | Operating times     |                      | Test button operation |
|                         | r <sub>1</sub> (Line)                          | r <sub>n</sub> (Neutral) | r <sub>2</sub> (cpc) |  |                |                       |              |            |               |          |   | At I Δ <sub>n</sub> | At 5I Δ <sub>n</sub> |                       |
|                         |  |                          |                      | R <sub>1</sub> + R <sub>2</sub>                    | R <sub>2</sub> | MΩ                    | MΩ           | MΩ         | MΩ            |          |   | ms                  | ms                   |                       |
| 1/S                     | N/A  | N/A                      | N/A                  | 0.03   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.18  | N/A                 | N/A                  |                       |
| 2/S                     | N/A  | N/A                      | N/A                  | 0.02   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.15  | 17                  | 16                   | ✓                     |
| 3/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 4/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 5/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 6/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 7/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 8/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 9/S                     | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 10/S                    | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 11/S                    | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
| 12/S                    | -  | -                        | -                    | -  | -              | -                     | -            | -          | -             | -        | -   | -                   | -                    | -                     |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |
|                         |  |                          |                      |  |                |                       |              |            |               |          |   |                     |                      |                       |

**Tested By**

|  |   |
|--|---|
| Signature <input type="text"/>             | Position <input type="text" value="Tester"/>            |
| Name <input type="text" value="P Waites"/> | Date of testing <input type="text" value="05/07/2012"/> |

## Board Details

| TO BE COMPLETED IN EVERY CASE  |                  | ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION |                     |                          |                         |
|--------------------------------|------------------|--|---------------------|--------------------------|-------------------------|
| Location of distribution board | Kitchen Cupboard | Supply to distribution board is from   | SubMains(DB 1, 1/S) |                          | Associated RCD (if any) |
| Distribution board designation | CCU 1            | No of phases   | 1                   | Nominal Voltage          | 230 V                   |
|                                |                  | Overcurrent protective device for the distribution circuit   |                     |                          | RCD No of poles         |
|                                |                  | Type BS(EN)  | 60898 MCB B         | Rating                   | 50 A                    |
|                                |                  |  |                     | RCD rating, I $\Delta$ n | N/A mA                  |
|                                |                  |  |                     |                          | BS(EN)                  |
|                                |                  |  |                     |                          | N/A                     |

## Circuit Details

| Circuit number and line | Circuit designation   | Type of wiring | Reference method | No of points served | Circuit conductors csa |                     | Max. permitted disconnection time s | Overcurrent protective device |      |          |                           | RCD Op. current I $\Delta$ n | Max. permitted Zs $\Omega$ |
|-------------------------|-----------------------|----------------|------------------|---------------------|------------------------|---------------------|-------------------------------------|-------------------------------|------|----------|---------------------------|------------------------------|----------------------------|
|                         |                       |                |                  |                     | Live mm <sup>2</sup>   | cpc mm <sup>2</sup> |                                     | BS(EN)                        | Type | Rating A | Short circuit capacity kA |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
| 1/S                     | BOILER                | A              | 102              | 1                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 16       | 10                        | 30                           | 2.87                       |
| 2/S                     | Immersion Heater      | A              | 102              | 1                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 16       | 10                        | 30                           | 2.87                       |
| 3/S                     | Bedroom lights 1      | A              | 102              | 12                  | 1.5                    | 1                   | 0.4                                 | 61009 RCD/RCBO                | B    | 10       | 10                        | 30                           | 4.60                       |
| 4/S                     | Bedroom lights 2 +3   | A              | 102              | 15                  | 1.5                    | 1                   | 0.4                                 | 61009 RCD/RCBO                | B    | 10       | 10                        | 30                           | 4.60                       |
| 5/S                     | KITCHEN/living lights | A              | 102              | 13                  | 1.5                    | 1                   | 0.4                                 | 61009 RCD/RCBO                | B    | 10       | 10                        | 30                           | 4.60                       |
| 6/S                     | Smoke detectors       | A              | 102              | 3                   | 1.5                    | 1                   | 0.4                                 | 61009 RCD/RCBO                | B    | 6        | 10                        | 30                           | 7.67                       |
| 7/S                     | KITCHEN ring          | A              | 102              | 5                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 32       | 10                        | 30                           | 1.44                       |
| 8/S                     | Bedroom 1 radial      | A              | 102              | 2                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 20       | 10                        | 30                           | 2.30                       |
| 9/S                     | Bedroom 2 radial      | A              | 102              | 2                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 20       | 10                        | 30                           | 2.30                       |
| 10/S                    | Bedroom 3 radial      | A              | 102              | 2                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 20       | 10                        | 30                           | 2.30                       |
| 11/S                    | Living room radial    | A              | 102              | 3                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 20       | 10                        | 30                           | 2.30                       |
| 12/S                    | Cooker                | A              | 102              | 1                   | 2.5                    | 1.5                 | 0.4                                 | 61009 RCD/RCBO                | B    | 20       | 10                        | 30                           | 2.30                       |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |
|                         |                       |                |                  |                     |                        |                     |                                     |                               |      |          |                           |                              |                            |

## Wiring Code

| A                                       | B  | C  | D   | E   | F                        | G                        | H                        | O     |
|---|--|--|---|---|--------------------------|--------------------------|--------------------------|-------|
| Thermoplastic insulated/sheathed cables | Thermoplastic cables in metallic conduit | Thermoplastic cables in non-metallic conduit | Thermoplastic cables in metallic trunking | Thermoplastic cables in non-metallic trunking | Thermoplastic/SWA cables | Thermosetting/SWA cables | Mineral-insulated cables | Other |

Board Tests

|   |  |
|---|--|
| ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION  | TEST INSTRUMENTS (SERIAL NUMBERS) USED   |
| Zs <input type="text" value="0.18"/> Ω      Operating times of associated RCD (if any)      At I <sub>Δn</sub> <input type="text" value="N/A"/> ms<br>Ipf <input type="text" value="0.12"/> kA      At 5I <sub>Δn</sub> <input type="text" value="N/A"/> ms (if applicable) | Earth fault loop impedance <input type="text" value="0909509/0239"/> RCD <input type="text" value="0909509/0239"/><br>Insulation resistance <input type="text" value="0909509/0239"/> Multi-function <input type="text" value="N/A"/><br>Continuity <input type="text" value="0909509/0239"/> Other <input type="text" value="N/A"/> |
| Confirmation of Supply polarity <input checked="" type="checkbox"/>   |  |

Circuit Tests

| Circuit number and line | Circuit impedances Ω                           |                             |                         |  |                | Insulation resistance |              |            |               | Polarity | Maximum measured earth fault loop impedance Ω | RCD                |                     |                       |
|-------------------------|--|-----------------------------|-------------------------|--|----------------|-----------------------|--------------|------------|---------------|----------|---|--------------------|---------------------|-----------------------|
|                         | Ring final circuits only (measured end to end) |                             |                         | All circuits (At least one column to be completed) |                | Line/Line             | Line/Neutral | Line/Earth | Earth/Neutral |          |   | Operating times    |                     | Test button operation |
|                         | r <sub>1</sub><br>(Line)                       | r <sub>n</sub><br>(Neutral) | r <sub>2</sub><br>(cpc) | R <sub>1</sub> + R <sub>2</sub>                    | R <sub>2</sub> | MΩ                    | MΩ           | MΩ         | MΩ            |          |   | At I <sub>Δn</sub> | At 5I <sub>Δn</sub> |                       |
|                         | ms   | ms                          | ms                      | ms   | ms             | ms                    | ms           | ms         | ms            |          |   | ms                 |                     |                       |
| 1/S                     | N/A  | N/A                         | N/A                     | 0.17   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.34  | 28                 | 18                  | ✓                     |
| 2/S                     | N/A  | N/A                         | N/A                     | 0.12   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.31  | 28                 | 28                  | ✓                     |
| 3/S                     | N/A  | N/A                         | N/A                     | 1.04   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 1.48  | 22                 | 20                  | ✓                     |
| 4/S                     | N/A  | N/A                         | N/A                     | 1.36   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 1.84  | 21                 | 17                  | ✓                     |
| 5/S                     | N/A  | N/A                         | N/A                     | 2.42   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 2.64  | 28                 | 18                  | ✓                     |
| 6/S                     | N/A  | N/A                         | N/A                     | 1.18   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 1.63  | 33                 | 28                  | ✓                     |
| 7/S                     | 0.35   | 0.35                        | 0.60                    | 0.24   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 1.04  | 29                 | 28                  | ✓                     |
| 8/S                     | N/A  | N/A                         | N/A                     | 0.65   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.81  | 18                 | 18                  | ✓                     |
| 9/S                     | N/A  | N/A                         | N/A                     | 0.87   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.84  | 22                 | 18                  | ✓                     |
| 10/S                    | N/A  | N/A                         | N/A                     | 0.89   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 1.52  | 21                 | 20                  | ✓                     |
| 11/S                    | N/A  | N/A                         | N/A                     | 0.84   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 1.02  | 21                 | 18                  | ✓                     |
| 12/S                    | N/A  | N/A                         | N/A                     | 0.39   | N/A            | N/A                   | 200          | 200        | 200           | ✓        | 0.72  | 27                 | 17                  | ✓                     |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |
|                         |  |                             |                         |  |                |                       |              |            |               |          |   |                    |                     |                       |

Tested By

|  |   |
|--|---|
| Signature <input type="text"/>             | Position <input type="text" value="Tester"/>            |
| Name <input type="text" value="P Waites"/> | Date of testing <input type="text" value="05/07/2012"/> |

## ELECTRICAL INSTALLATION CERTIFICATE GUIDANCE NOTES FOR RECIPIENTS

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed and inspected in accordance with British Standard 7671:2008 (as amended) (The IEE 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 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 and any schedules are included in the project health and safety documentation.

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 on page 2 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 an existing installation. It should not have been issued for the inspection of an existing electrical installation. An "Electrical Installation Conditioning Report" should be issued for such an inspection.

The certificate is only valid if a test result schedule including test results is appended.

These notes are based on those seen in Appendix 6 BS 7671:2008 (as amended)