

ELECTRICAL INSTALLATION CONDITION REPORT

Certificate number: 207 Registration number: 31226 (optional) Sheet 1 of 5

SECTION A: DETAILS OF THE CLIENT / PERSON ORDERING THE REPORT

Name MR J ALLGROVE Address 20 RIDGEMAN BROADSTONE, OXFORD OX8 8EA

SECTION B: REASON FOR PRODUCING THIS REPORT

H.M.O. House
Date(s) on which inspection and testing was carried out

SECTION C: DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Occupier STUDENTS
Address 31 BENGAL RD BURNEMOUTH
Description of premises (tick as appropriate)
Domestic Commercial Industrial Other (include brief description)

Estimated age of wiring system 30 years
Evidence of additions / alterations Yes No Not apparent If yes, estimate age 10 years
Installation records available? (Regulation 621.1) Yes No Date of last inspection NOT KNOWN (date)

SECTION D: EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of electrical installation covered by this report ALL FIXED WIRING
Agreed limitations including the reasons (see Regulation 634.2) 20% OF OUTLETS TESTED & INSPECTED WHERE PRACTICABLE SO AS NOT TO CAUSE DAMAGE TO DECOR ETC
Agreed with: J ALLGROVE
Operational limitations including the reasons (see page no. 4)

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671:2008 (IET Wiring Regulations) as amended to

It should be noted that cables concealed within trunking and conduits, under floors, in roof spaces and generally within the fabric of the building or underground, have NOT been inspected unless specifically agreed between the client and inspector prior to inspection.

SECTION E: SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety) SATISFACTORY
Overall assessment of the installation in terms of its suitability for continued use **SATISFACTORY / UNSATISFACTORY** * (delete as appropriate).
* An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.

SECTION F: RECOMMENDATIONS

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I/we recommend that any observations classed as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as 'Further investigation required'. Observations classified as 'Improvements recommended' (code C3) should be given due consideration. Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by 22/5/19 (date).

SECTION G: DECLARATION

I/We being the person(s) responsible for the inspection and testing 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 inspection and testing, hereby declare that the information in this report, including the observations and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in Section D of this report.

Inspected and tested by:
Name (CAPITALS): A Ramswell
Signature: A Ramswell
For/on behalf of: SPARK-KIT
Position: ELECTRICIAN
Address: 11 RICHMOND HEIGHTS 7 DEAN PARK
B41 1HU Date: 22/5/14

Report authorised for issue by:
Name (CAPITALS): A. RAMSWELL
Signature: A Ramswell
For/on behalf of: SPARK-KIT
Position: ELECTRICIAN
Address: Date: 22/5/14

SECTION H: SCHEDULE(S)

..... schedule(s) of inspection and schedule(s) of test results are attached. The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

ELECTRICAL INSTALLATION CONDITION REPORT

SECTION I: SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

| Earthing arrangements | Number and type of live conductors | Nature and type of supply parameters | Supply protective device |
|--|--|--|--|
| TN-C <input type="checkbox"/> | <input type="checkbox"/> a.c. | <input type="checkbox"/> d.c. | <input type="checkbox"/> Nominal voltage, U / U ₀ ⁽¹⁾ <u>230</u> V |
| TN-S <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> 1-phase, 2-wire | <input checked="" type="checkbox"/> 2-wire | <input type="checkbox"/> Nominal frequency, f ⁽¹⁾ <u>50</u> Hz |
| TN-C-S <input type="checkbox"/> | <input type="checkbox"/> 2-phase, 3-wire | <input type="checkbox"/> 3-wire | <input type="checkbox"/> Prospective fault current, I _{pf} ⁽²⁾ kA |
| TT <input type="checkbox"/> | <input type="checkbox"/> 3-phase, 3-wire | | External loop impedance, Z _e ⁽²⁾ Ω |
| IT <input type="checkbox"/> | <input type="checkbox"/> 3-phase, 4-wire | | Note: (1) by enquiry. (2) by enquiry or measurement |
| | Confirmation of supply polarity <input type="checkbox"/> | | Type <u>II</u> |
| | | | Rated current <u>100</u> A |

Other sources of supply (as detailed on attached schedule)

SECTION J: PARTICULARS OF INSTALLATION REFERRED TO IN REPORT

| Means of earthing | Details of Earth Electrode (where applicable) |
|--|---|
| Distributor's facility <input checked="" type="checkbox"/> | Type <u>N/A</u> |
| Installation earth electrode <input type="checkbox"/> | Location <u>N/A</u> |
| | Resistance to earth Ω |

Main protective conductors

| | | | |
|---|---|--|--|
| Earthing conductor | Material <u>Copper</u> | Csa <u>16</u> mm ² | Connection/continuity verified <input checked="" type="checkbox"/> |
| Main protective bonding conductors | Material <u>Copper</u> | Csa <u>10</u> mm ² | Connection/continuity verified <input type="checkbox"/> |
| To incoming water service <input checked="" type="checkbox"/> | To incoming gas service <input checked="" type="checkbox"/> | To incoming oil service <input type="checkbox"/> | To structural steel <input type="checkbox"/> |
| To lightning protection <input type="checkbox"/> | To other incoming service(s) <input type="checkbox"/> | Specify | |

Main switch / switch fuse / circuit breaker / RCD

| | | |
|----------------------------------|---|--|
| Location <u>front room</u> | Current rating <u>60</u> A | If RCD main switch |
| | Fuse / device rating or setting <u>60</u> A | Rated residual operating current (I _{Δn}) mA |
| BS (EN) <u>13 60947-3</u> | Voltage rating <u>230</u> V | Rated time delay ms |
| No. of poles <u>2</u> | | Measured operating time (at I _{Δn}) ms |

SECTION K: OBSERVATIONS

Referring to the attached schedules of inspection and test results, and subject to the limitations specified in the *Extent and Limitations of Inspection and testing section*

No remedial action is required The following observations are made: (See below)

| Observation(s) | Classification code | Further investigation required (YES/NO) |
|---|---------------------|---|
| <u>No RCD protection on lighting circuits & sockets</u> | <u>3</u> | |
| <u>No identification of conductors in lighting circuits</u> | <u>3</u> | |
| <u>socket circuits</u> | <u>3</u> | |
| | | |
| | | |
| | | |
| | | |
| | | |

One of the following codes, as appropriate, has been allocated to each of the observations made to indicate to the person(s) responsible for the installation the degree of urgency of remedial action required.

- C1 – Danger present. Risk of injury. Immediate remedial action required
- C2 – Potentially dangerous. Urgent remedial action required
- C3 – Improvement recommended

Use additional form if required

CONDITION REPORT INSPECTION SCHEDULE

NOTE: This form is suitable for many types of smaller installations not exclusively domestic

| OUTCOMES | Acceptable condition | ✓ | Unacceptable condition | State C1 or C2 | Improvement recommended | State C3 | Not verified | NV | Limitation | Lim | Not applicable | N/A |
|------------|---|---|------------------------|----------------|-------------------------|----------|--|----|------------|--|----------------|-----|
| Item no | Description | | | | | | Outcome <small>(Use codes above, provide additional comment where appropriate. C1, C2 and C3 coded items to be recorded in Section K of the Condition Report)</small> | | | Further investigation required? <small>(YES / NO)</small> | | |
| 1.0 | DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT | | | | | | | | | | | |
| 1.1 | Service cable condition | | | | | | ✓ | | | | | |
| 1.2 | Condition of service head | | | | | | ✓ | | | | | |
| 1.3 | Condition of tails – distributor | | | | | | ✓ | | | | | |
| 1.4 | Condition of tails – consumer | | | | | | ✓ | | | | | |
| 1.5 | Condition of metering equipment | | | | | | ✓ | | | | | |
| 1.6 | Condition of isolator (where present) | | | | | | ✓ | | | N/A | | |
| 2.0 | PRESENCE OF ADEQUATE ARRANGEMENTS FOR SECONDARY OR ALTERNATIVE SOURCES SUCH AS MICROGENERATORS (551.6; 551.7) | | | | | | | | | | | |
| 3.0 | EARTHING / BONDING ARRANGEMENTS (411.3; chap 54) | | | | | | | | | | | |
| 3.1 | Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) | | | | | | ✓ | | | | | |
| 3.2 | Presence and condition of earth electrode where applicable (542.1.2.3) | | | | | | ✓ | | | N/A | | |
| 3.3 | Provision of earthing / bonding labels at all appropriate locations (514.13.1) | | | | | | ✓ | | | | | |
| 3.4 | Confirmation of earthing conductor size (542.3; 543.1.1) | | | | | | ✓ | | | | | |
| 3.5 | Accessibility and condition of earthing conductor at MET (543.3.2) | | | | | | ✓ | | | | | |
| 3.6 | Confirmation of main protective bonding conductor sizes (544.1) | | | | | | ✓ | | | | | |
| 3.7 | Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2) | | | | | | ✓ | | | | | |
| 3.8 | Accessibility and condition of all protective bonding connections (543.3.2) | | | | | | ✓ | | | | | |
| 4.0 | CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) | | | | | | | | | | | |
| 4.1 | Adequacy of working space / accessibility to consumer unit / distribution board (132.12; 513.1) | | | | | | ✓ | | | | | |
| 4.2 | Security of fixing (134.1.1) | | | | | | ✓ | | | | | |
| 4.3 | Condition of enclosure(s) in terms of IP rating etc (416.2) | | | | | | ✓ | | | | | |
| 4.4 | Condition of enclosure(s) in terms of fire rating etc (526.5) | | | | | | ✓ | | | | | |
| 4.5 | Enclosure not damaged / deteriorated so as to impair safety (621.2 iii) | | | | | | ✓ | | | | | |
| 4.6 | Presence of main linked switch (as required by 537.1.4) | | | | | | ✓ | | | | | |
| 4.7 | Operation of main switch (functional check) (612.13.2) | | | | | | ✓ | | | | | |
| 4.8 | Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2) | | | | | | ✓ | | | | | |
| 4.9 | Correct identification of circuit details and protective devices (514.8.1; 514.9.1) | | | | | | ✓ | | | | | |
| 4.10 | Presence of RCD quarterly test notice present at or near consumer unit / distribution board (514.12.2) | | | | | | ✓ | | | | | |
| 4.11 | Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14) | | | | | | ✓ | | | | | |
| 4.12 | Presence of alternative supply warning notice at or near consumer unit / distribution board (514.15) | | | | | | N/A | | | | | |
| 4.13 | Presence of other required labelling (please specify) (Section 514) | | | | | | N/A | | | | | |
| 4.14 | Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (421.1.3) | | | | | | ✓ | | | | | |
| 4.15 | Single-pole protective devices in line conductor only (132.14.1; 530.3.2) | | | | | | ✓ | | | | | |
| 4.16 | Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.1; 522.8.11) | | | | | | ✓ | | | | | |
| 4.17 | Protection against electromagnetic effects where cables enter consumer unit / distribution board / enclosures (521.5.1) | | | | | | ✓ | | | | | |
| 4.18 | RCD(s) provided for fault protection – includes RCBOs (411.4.9; 411.5.2; 531.2) | | | | | | ✓ | | | | | |
| 4.19 | RCD(s) provided for additional protection – includes RCBOs(411.3.3; 415.1) | | | | | | ✓ | | | | | |

| OUTCOMES | Acceptable condition | Unacceptable condition | State C1 or C2 | Improvement recommended | State C3 | Not verified | NV | Limitation | Lim | Not applicable | N/A |
|------------|--|------------------------|----------------|-------------------------|----------|--|----|--|-----|----------------|-----|
| Item no | Description | | | | | Outcome <small>(Use codes above, provide additional comment where appropriate. C1, C2 and C3 coded items to be recorded in Section K of the Condition Report)</small> | | Further investigation required? <small>(YES / NO)</small> | | | |
| 5.0 | FINAL CIRCUITS | | | | | | | | | | |
| 5.1 | Identification of conductors (514.3.1) | | | | | C3 | | | | YES | |
| 5.2 | Cables correctly supported throughout their run (522.8.5) | | | | | Lim | | | | | |
| 5.3 | Condition of insulation of live parts (416.1) | | | | | ✓ | | | | | |
| 5.4 | Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1) • To include the integrity of conduit and trunking systems (metallic and plastic) | | | | | ✓ | | | | | |
| 5.5 | Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523) | | | | | ✓ | | | | | |
| 5.6 | Co-ordination between conductors and overload protective devices (433.1; 533.2.1) | | | | | ✓ | | | | | |
| 5.7 | Adequacy of protective devices: type and rated current for fault protection (411.3) | | | | | ✓ | | | | | |
| 5.8 | Presence and adequacy of circuit protective conductors (411.3.1.1; Section 543.1) | | | | | ✓ | | | | | |
| 5.9 | Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522) | | | | | ✓ | | | | | |
| 5.10 | Concealed cables installed in prescribed zones (see Section D: Extent and limitations) (522.6.101) | | | | | Lim | | | | | |
| 5.11 | Concealed cables incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage from nails, screws and the like (see Section D: Extent and limitations) (522.6.101; 522.6.103) | | | | | Lim | | | | | |
| 5.12 | Provision of additional protection by RCD not exceeding 30 mA: • For all socket-outlets of rating 20 A or less provided for use by ordinary persons unless an exception is permitted (411.3.3) • For supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3) • For cables concealed in walls or partitions (522.6.102; 522.6.103) | | | | | ✓ | | | | | |
| | | | | | | ✓ | | | | | |
| | | | | | | C3 | | | | YES | |
| 5.13 | Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527) | | | | | ✓ | | | | | |
| 5.14 | Band II cables segregated / separated from Band I cables (528.1) | | | | | N/A | | | | | |
| 5.15 | Cables segregated / separated from communications cabling (528.2) | | | | | N/A | | | | | |
| 5.16 | Cables segregated / separated from non-electrical services (528.3) | | | | | N/A | | | | | |
| 5.17 | Termination of cables at enclosures – indicate extent of sampling in Section D of the report (Section 526) • Connections soundly made and under no undue strain (526.6) • No basic insulation of a conductor visible outside enclosure (526.8) • Connections of live conductors adequately enclosed (526.5) • Adequately connected at point of entry to enclosure (glands, bushes, etc.) (522.8.5) | | | | | ✓ | | | | | |
| | | | | | | ✓ | | | | | |
| | | | | | | ✓ | | | | | |
| | | | | | | ✓ | | | | | |
| | | | | | | ✓ | | | | | |
| 5.18 | Condition of accessories including socket-outlets, switches and joint boxes (621.2(iii)) | | | | | ✓ | | | | | |
| 5.19 | Suitability of accessories for external influences (512.2) | | | | | ✓ | | | | | |
| 6.0 | LOCATION(S) CONTAINING A BATH OR SHOWER | | | | | | | | | | |
| 6.1 | Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3) | | | | | X C3 | | | | YES | |
| 6.2 | Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5) | | | | | ✓ | | | | | |
| 6.3 | Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3) | | | | | N/A | | | | | |
| 6.4 | Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2) | | | | | Lim | | | | | |
| 6.5 | Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1 (701.512.3) | | | | | N/A | | | | | |
| 6.6 | Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2) | | | | | ✓ | | | | | |
| 6.7 | Suitability of equipment for installation in a particular zone (701.512.3) | | | | | ✓ | | | | | |
| 6.8 | Suitability of current-using equipment for a particular position within the location (701.55) | | | | | ✓ | | | | | |
| 7.0 | OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS | | | | | | | | | | |
| 7.1 | List all other special installations or locations present, if any (record separately the results of particular inspections applied). | | | | | N/A | | | | | |

Tested by: A Ramswell Name (CAPITALS)..... Signature A Ramswell Date 22/5/14

SCHEDULE OF TEST RESULTS

Sheet **5** of **5**



DB Reference no. **DB2**
 Location **HINDUST**
 Zs at DB (Ω) **0.16**
 I_{pn} at DB (kA) **1.44**
 Correct polarity of supply confirmed YES / ~~NO~~
 Phase sequence confirmed (where appropriate) **N/A**

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

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

Continuity **773**
 Insulation resistance **773**
 Earth fault loop impedance **773**
 RCD **773**
 Earth electrode resistance **N/A**

Tested by: **A. RAMSBERG**
 Name (CAPITALS) **A. RAMSBERG**
 Signature **A. Ramsberg** Date **22/5/14**

Circuit details

Overcurrent device

Conductor details

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V |
|----------------|---------------------|---------|------|------------|------------------------|------------------|-------------------------|------------------------|-----------------------|--------------------------|----------------------|--------------------------------------|----------------|-------------|----------|----------|--------------------|-------------------|--------------------|-----------------------|---|
| Circuit number | Circuit description | BS (EN) | Type | Rating (A) | Breaking capacity (kA) | Reference method | Live (mm ²) | cpc (mm ²) | r ₁ (line) | r _n (neutral) | r ₂ (cpc) | (R ₁ + R ₂) * | R ₂ | Live - Live | Live - E | Polarity | Z _s (Ω) | @1 _Δ n | @51 _Δ n | Test button operation | Remarks (continue on a separate sheet if necessary) |
| | LIGHTS | 60898 | B | 6 | 6 | — | 1 | 1 | — | — | — | 0.52 | — | >10 | >10 | ✓ | 0.58 | — | — | — | — |
| | SMOKES | 60898 | B | 6 | 6 | — | 1 | 1 | — | — | — | 0.85 | — | >10 | >10 | ✓ | 1.11 | — | — | — | — |
| | LIGHTS | 60898 | B | 6 | 6 | — | 1 | 1 | — | — | — | 1.15 | — | >10 | >10 | ✓ | 1.31 | — | — | — | — |
| | LIGHTS | 60898 | B | 6 | 6 | — | 1 | 1 | — | — | — | 2.33 | — | >10 | >10 | ✓ | 2.49 | — | — | — | — |
| | RCD | — | — | — | — | — | — | — | — | — | — | — | — | >10 | >10 | ✓ | — | — | — | — | — |
| | COOKER | 60898 | B | 32 | 6 | — | 6 | 2.5 | — | — | — | 0.36 | — | >10 | >10 | ✓ | 0.46 | 8.62 | 8.32 | ✓ | — |
| | SOCKETS | 60898 | B | 32 | 6 | — | 6 | 1.5 | — | — | — | 0.68 | — | >10 | >10 | ✓ | 0.84 | 8.62 | 8.32 | ✓ | — |
| | SOCKETS (KITCHEN) | 60898 | B | 32 | 6 | — | 6 | 1.5 | 0.35 | 0.34 | 0.45 | 0.33 | — | >10 | >10 | ✓ | 0.49 | 8.62 | 8.32 | ✓ | — |
| | SOCKETS X2 RCD | 60898 | B | 16 | 6 | — | 6 | 1.5 | — | — | — | 0.28 | — | >10 | >10 | ✓ | 0.44 | 8.62 | 8.32 | ✓ | — |

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.