

ELECTRICAL INSTALLATION CONDITION REPORT

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 | DETAILS OF THE CLIENT | DETAILS OF THE INSTALLATION |
|--|---|--|
| Registration No: 609526000 Branch No: 000 | Contractor Reference Number (CRN): N/A | Occupier: N/A |
| Trading Title: Andrew D'auria Solutions Limited T/A AD Gas | Name: Pobl | Address: Swansea University, Singleton Park, Langland Block, SWANSEA |
| Address: 256 Trewyddfa Road, Swansea | Address: Gwalia Part of Pobl Group, Ty Gwalia, 7-13 The Kingsway, SWANSEA | Postcode: SA2 8PP Tel No: N/A |
| Postcode: SA6 8PD Tel No: 01792701074 | Postcode: SA1 5JN Tel No: 01792488056 | |

PART 2 : PURPOSE OF THE REPORT

Purpose for which this report is required: 5 Yearly Condition Report

Date(s) when inspection and testing was carried out: (01/07/2019 - 05/07/2019) Records available: () Previous inspection report available: () Previous report date: (N/A)

PART 3 : SUMMARY OF THE CONDITION OF THE INSTALLATION


General condition of the installation (in terms of electrical safety):
 Installation is in generally safe condition. All services are bonded in the Correct location. Not All circuits are protected by RCDs/RCBOs

Estimated age of electrical installation: (15) years Evidence of additions or alterations: () Overall assessment of the installation is: **Satisfactory** ~~Unsatisfactory~~ * (delete as appropriate)


PART 4 : DECLARATION

INSPECTION AND TESTING

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 7, having exercised reasonable skill and care when carrying out the inspection and testing of the existing installation, hereby CERTIFY that the information in this report, including the observations (page 2) and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and the limitations on the inspection and testing.

Name (capitals): PHIL HUGHES Signature:  Date: 05/07/2019

REVIEWED BY THE REGISTERED QUALIFIED SUPERVISOR FOR THE APPROVED CONTRACTOR

Name (capitals): PETER ROBERTS Signature:  Date: 08/07/2019

*An unsatisfactory assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified in PART 6, or that Further Investigation (CODE FI) without delay is required.

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PART 5 : NEXT INSPECTION

I/We (as indicated on page 1) recommend, subject to the necessary remedial work being taken, this installation should be further inspected and tested after an interval of not more than 5 years/~~XXXX~~* (delete as appropriate)
 Give reason for recommendation: As per advice in guidance note 3 and no adverse findings during inspection.

PART 6 : OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

| | | | | |
|---|---|---|---|--|
| CODES: <small>One of the following Codes, as appropriate, has been allocated to each of the observations made below to indicate to the person(s) responsible for the electrical installation the degree of urgency for remedial action</small> | CODE C1 'Danger Present' Risk of injury. Immediate remedial action required | CODE C2 'Potentially Dangerous' Urgent remedial action required | CODE C3 'Improvement Recommended' | CODE FI 'Further Investigation Required' |
|---|---|---|---|--|

Referring to the Schedule of Items Inspected (see PART 10), the attached Schedule of Circuit Details and Test Results (see PART 12), and subject to any agreed limitations listed in PART 7:

There are no items adversely affecting electrical safety (.....), OR The following observations and recommendations for action are made:

| Item No | Observation(s) | Code | Location Reference |
|-----------|---|-----------|----------------------|
| (1) | 5.5 Entry holes in top of did boards exceeds IPX4. Holes have been filled with insulation. Dis boards are in looked cupboards. | (C3) | (Electrical Riser) |
| (2) | 5.13RCBOs fitted to socket circuits only. No RCD protection for lighting or cooker circuits. Cooker isolators have integral sockets | (C3) | (Through out) |
| (3) | 5.14RCBOs fitted to socket circuits only. No RCD protection for lighting or cooker circuits. Cooker isolators have integral sockets | (C3) | (Through out) |
| (4) | 5.18no presence of six-monthly retest label | (C3) | (Dis board) |
| (5) | 6.2 Cables in plant room and switch room not supported against premature collapse. | (C3) | (Plant room) |
| (6) | 6.18 a)Cooker isolators have integral sockets with no RCD protection | (C3) | (Kitchen) |
| (7) | 6.18 c)No RCD protection on lighting and cooker circuits | (C3) | (Through out) |
| (8) | Cooker switches with Socket outlets within recommended 100mm of HOB with no RCD protection. | (C3) | (Kitchen) |
| (9) | Some Max Zs readings for sockets exceed those in BS7671. Circuits have RCD Protection | (C3) | (Dis Board) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |

Additional pages? (None) State page numbers: (N/A)
 Immediate action required for items: (N/A) Improvement recommended for items: (1,2,3,4,5,6,7,8,9)
 Urgent remedial action required for items: (N/A) Further investigation required for items: (N/A)

*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.

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PART 7 : DETAILS AND LIMITATIONS OF THE INSPECTION AND TESTING

The inspection and testing has been carried out in accordance with BS 7671: 2018, as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected unless specifically agreed between the Client and the Inspector prior to inspection.

Details of the installation covered by this report: All Fixed Wiring from associated distribution boards within installation. (see additional page No. N/A)

Agreed limitations including the reasons, if any, on the inspection and testing: Insulation Resistance taken between LN-E at 250v. No inspection of distributors supply equipment No disturbance to the fabric of the building. No testing of lift equipment No testing of plant room wiring fed from BMS Panel No testing of high level lighting

Agreed with (print name): CLIENT

Extent of sampling: 20% of accessories Inspection and test of distribution boards, Main protective bonding conductors, and final Circuits (see additional page No. N/A)

Operational limitations including the reasons: Unable to locate pay phone radial. (see additional page No. N/A)

PART 8 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

| System type and earthing arrangements | Number and type of live conductors | Nature of supply parameters |
|---------------------------------------|---|--|
| TN-C-S: (N/A) TN-S: (N/A) TT: (N/A) | AC 1-phase, 2-wire: (N/A) 2-phase, 3-wire: (N/A) | Nominal line voltage, $U^{(1)}$: (N/A) V |
| Other (state): N/A | 3-phase, 3-wire: (N/A) 3-phase, 4-wire: (N/A) | Nominal line voltage to Earth, $U_0^{(1)}$: (230) V |
| Supply protective device | DC 2-wire: (N/A) 3-wire: (N/A) Other: (N/A) | Nominal frequency, $f^{(1)}$: (50) Hz |
| (BS (EN) Non-verifiable) | Confirmation of supply polarity: (...✓...) | Prospective fault current, $I_{pf}^{(1)*}$: (N/A) kA |
| Type: (N/A) Rated current: (N/A) A | Other sources of supply (as detailed on attached schedule) Page No: (N/A) | External loop impedance, $Z_e^{(1)*}$: (N/A) Ω |

⁽¹⁾ By enquiry, measurement, or by calculation

PART 9 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS REPORT

| Means of Earthing | Main protective conductors | Main protective bonding connections | Main switch / Switch-fuse / Circuit-breaker / RCD |
|--|--|-------------------------------------|---|
| Distributor's facility: (...✓...) | Earthing conductor: (material Copper ... csa LIM ... mm ²) | Water installation pipes: (...✓...) | Type: (BS (EN) Non-verifiable) |
| Installation earth electrode: (N/A) | Connection / continuity verified: (...✓...) | Gas installation pipes: (...✓...) | Location: (Panel board) |
| Where an earth electrode is used insert | Main protective bonding conductors: (material Copper ... csa LIM ... mm ²) | Structural steel: (N/A) | No. of poles: (0) Rating / setting of device: (N/A) A |
| Type – rod(s), tape, etc: (None) | Connection / continuity verified: (N/A) | Oil installation pipes: (N/A) | Current rating: (N/A) A Voltage rating: (N/A) V |
| Location: (N/A) | | Lightning protection: (N/A) | Where an RCD is used as the main switch |
| Electrode resistance to Earth: (N/A) Ω | | Other (state): (N/A) | RCD rated residual operating current, $I_{\Delta n}$: (N/A) mA |
| | | | Measured operating time: (N/A) ms Rated time delay: (N/A) ms |

*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.

All fields must be completed. Enter either, as appropriate: '✓' if Acceptable condition; 'N/A' if Not applicable; 'LIM' if a Limitation exists; or Code appropriately – CODE 'C1', 'C2', 'C3' or 'FI' (codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)

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PART 10 : SCHEDULE OF ITEMS INSPECTED

| | | | | | |
|---|--|--|--|--|--|
| 1. External condition of electrical intake equipment (visual inspection only) (If inadequacies are identified with the intake equipment, it is recommended the person ordering the report informs the appropriate authority.) | | 4. Other methods of protection (N/A) | | 5.24 Single-pole switching or protective devices in line conductors only: (✓) | |
| 1.1 Service cable: (LIM) | | Details should be provided on separate sheets: Page No. (N/A) | | 5.25 Protection against mechanical damage where cables enter equipment: (✓) | |
| 1.2 Service head: (LIM) | | 5. Distribution equipment | | 5.26 Protection against electromagnetic effects where cables enter ferromagnetic enclosures: (✓) | |
| 1.3 Earthing arrangement: (LIM) | | 5.1 Adequacy of working space / accessibility of equipment: (✓) | | 6. Distribution / final circuits | |
| 1.4 Meter tails: (LIM) | | 5.2 Security of fixing: (✓) | | 6.1 Identification of conductors: (✓) | |
| 1.5 Metering equipment: (LIM) | | 5.3 Condition of insulation of live parts: (✓) | | 6.2 Cables correctly supported throughout their length: (C3) | |
| 1.6 Isolator (where present): (LIM) | | 5.4 Adequacy / security of barriers: (✓) | | 6.3 Condition of insulation of live parts: (✓) | |
| 2. Presence of adequate arrangements for parallel or switched alternative sources | | 5.5 Condition of enclosure(s) in terms of IP rating: (C3) | | 6.4 Non-sheathed cables protected by enclosures in conduit, ducting or trunking: (✓) | |
| 2.1 Adequate arrangements where a generating set operates as a switched alternative to the public supply: (N/A) | | 5.6 Condition of enclosure(s) in terms of fire rating: (✓) | | 6.5 Suitability of containment systems for continued use (including flexible conduit): (✓) | |
| 2.2 Adequate arrangements where generating set operates in parallel with the public supply: (N/A) | | 5.7 Enclosure not damaged / deteriorated so as to impair safety: (✓) | | 6.6 Cables correctly terminated in enclosures (indicate extent of sampling in PART 7 of report): (✓) | |
| 2.3 Presence of alternative / additional supply arrangement warning notice(s) at or near equipment, where required: (N/A) | | 5.8 Presence and effectiveness of obstacles: (N/A) | | 6.7 Indication of SPD(s) continued functionality confirmed: (LIM) | |
| 3. Automatic disconnection of supply | | 5.9 Presence of main switch(es), linked where required: (✓) | | 6.8 Adequacy of AFDD(s), where specified: (N/A) | |
| 3.1 Main earthing and bonding arrangements | | 5.10 Operation of main switch(es) (functional check): (✓) | | 6.9 Confirmation that conductor connections, including connections to busbars are correctly located in terminals and are tight and secure: (✓) | |
| a) Presence and condition of distributor's earthing arrangement: (LIM) | | 5.11 Correct identification of circuit protective devices: (✓) | | 6.10 Examination of cables for signs of unacceptable thermal and mechanical damage / deterioration: (✓) | |
| b) Presence and condition of earth electrode arrangement, if present: (N/A) | | 5.12 Adequacy of protective devices for prospective fault current: (✓) | | 6.11 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation: (✓) | |
| c) Adequacy of earthing conductor size: (✓) | | 5.13 RCD(s) provided for fault protection – includes RCBOs: (C3) | | 6.12 Adequacy of protective devices; type and rated current for fault protection: (✓) | |
| d) Adequacy of earthing conductor connections: (✓) | | 5.14 RCD(s) provided for additional protection – includes RCBOs: (C3) | | 6.13 Presence and adequacy of circuit protective conductors: (✓) | |
| e) Accessibility of earthing conductor connections: (✓) | | 5.15 RCD(s) provided for protection against fire – includes RCBOs: (N/A) | | 6.14 Co-ordination between conductors and overload protective devices: (✓) | |
| f) Adequacy of main protective bonding conductor size(s): (✓) | | 5.16 Manual operation of circuit-breakers and RCDs to prove disconnection: (✓) | | 6.15 Cable installation methods / practices appropriate to the type and nature of installation and external influences: (✓) | |
| g) Adequacy of main protective bonding conductor connections: (✓) | | 5.17 Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check): (✓) | | 6.16 Cables where exposed to direct sunlight, of a suitable type or adequately protected against solar radiation: (N/A) | |
| h) Accessibility of main protective bonding connections: (✓) | | 5.18 Presence of RCD six-monthly retest notice at or near equipment, where required: (C3) | | 6.17 Cables adequately protected against damage and abrasion: (✓) | |
| i) Accessibility and condition of other protective bonding connections: (✓) | | 5.19 Presence of diagrams, charts or schedules at or near equipment, where required: (✓) | | | |
| j) Provision of earthing / bonding labels at all appropriate locations: (✓) | | 5.20 Presence of non-standard (mixed) cable colour warning notices at or near equipment, where required: (✓) | | | |
| 3.2 FELV | | 5.21 Presence of next inspection recommendation label: (✓) | | | |
| a) Source providing at least simple separation: (N/A) | | 5.22 All other required labelling provided: (✓) | | | |
| b) Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises: (N/A) | | 5.23 Compatibility of protective device(s), base(s) and other components: (✓) | | | |

All fields must be completed. Enter either, as appropriate: '✓' if Acceptable condition; 'N/A' if Not applicable; 'LIM' if a Limitation exists; or Code appropriately – CODE 'C1', 'C2', 'C3' or 'FI' (codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)

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PART 10 : SCHEDULE OF ITEMS INSPECTED

- 6.18 Provision of additional protection by an RCD not exceeding 30 mA
 - a) For all socket-outlets with a rated current not exceeding 32 A, unless exempt: (C3) (.....)
 - b) Supplies for mobile equipment with a rated current not exceeding 32 A for use outdoors: (.....) ✓
 - c) For cables concealed in walls / partitions at a depth of less than 50 mm: (C3) (.....)
 - d) For cables concealed in walls / partitions containing metal parts regardless of depth: (LIM) (.....)
 - e) Circuits supplying luminaires within domestic (household) premises: (N/A) (.....)
- Note:** Older installations designed prior to BS 7671: 2018 may not have been provided with RCDs for additional protection.
- 6.19 Provision of fire barriers, sealing arrangements and protection against thermal effects: (.....) ✓
- 6.20 Band II cables segregated / separated from Band I cables: (.....) ✓
- 6.21 Cables segregated / separated from non-electrical services: (.....) ✓
- 6.22 Termination of cables at enclosures (indicate extent of sampling in PART 7 of report)
 - a) Connections under no undue strain: (.....) ✓
 - b) No basic insulation of a conductor, visible outside an enclosure: (.....) ✓
 - c) Connections of live conductors adequately enclosed: (.....) ✓
 - d) Adequacy of connection at point of entry to enclosure: (.....) ✓
- 6.23 Temperature rating of cable insulation adequate: (.....) ✓
- 6.24 Condition of accessories including socket-outlets, switches and joint boxes satisfactory: (.....) ✓
- 6.25 Suitability of accessories for external influences: (.....) ✓

- 6.26 Single-pole switching or protective devices in line conductors only: (.....) ✓
- 6.27 Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment: (.....) ✓
- 7. Isolation and switching**
- 7.1 Isolators
 - a) Presence and condition of appropriate devices: (.....) ✓
 - b) Acceptable location (local / remote): (.....) ✓
 - c) Capable of being secured in the OFF position: (.....) ✓
 - d) Correct operation verified: (.....) ✓
 - e) Clearly identified by position and / or durable markings: (.....) ✓
 - f) Warning label posted in situations where live parts cannot be isolated by the operation of a single device: (N/A) (.....)
- 7.2 Switching off for mechanical maintenance
 - a) Presence and condition of appropriate devices: (.....) ✓
 - b) Acceptable location: (.....) ✓
 - c) Capable of being secured in the OFF position: (.....) ✓
 - d) Correct operation verified: (.....) ✓
 - e) Clearly identified by position and / or durable marking(s): (.....) ✓
- 7.3 Emergency switching off / stopping
 - a) Presence and condition of appropriate devices: (.....) ✓
 - b) Readily accessible for operation where danger might occur: (.....) ✓
 - c) Correct operation verified: (LIM) (.....)
- 7.4 Functional switching
 - a) Presence and condition of appropriate devices: (.....) ✓
 - b) Correct operation (functionality) verified: (.....) ✓

- 8. Current-using equipment (permanently connected)**
- 8.1 Condition of equipment in terms of IP rating: (.....) ✓
- 8.2 Equipment does not constitute a fire hazard: (.....) ✓
- 8.3 Enclosure not damaged / deteriorated so as to impair safety: (.....) ✓
- 8.4 Suitability for the environment and external influences: (.....) ✓
- 8.5 Security of fixing: (.....) ✓
- 8.6 Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: (.....) ✓
- List number and location of luminaires inspected on a separate page: Page No. (N/A) (.....)
- 8.7 Recessed luminaires (e.g. downlighters)
 - a) Correct type of lamps fitted: (.....) ✓
 - b) Installed to minimise build-up of heat: (.....) ✓
 - c) No signs of overheating to surrounding building fabric: (.....) ✓
 - d) No signs of overheating to conductors / terminations: (.....) ✓

- 9. List all special installations or locations covered by this report**
- N/A (N/A) (.....)
- (.....) (.....)
- (.....) (.....)
- (.....) (.....)

Indicate if the relevant requirements of Part 7 are satisfied and append results of inspection on a separate numbered page.

SCHEDULE OF ITEMS INSPECTED BY

Name (capitals): PHIL HUGHES

Signature: Date: 24/09/2019

PART 11 : 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 9. above) | Continuation sheets |
|-----------------------------------|---|--|---|-----------------------------------|
| Page No(s): (.....) 4 & 5 (.....) | Page No(s): (.....) 6-19 (.....) | Page No(s): (.....) None (.....) | Page No(s): (.....) None (.....) | Page No(s): (.....) 20-22 (.....) |

The pages identified are an essential part of this report (see Regulation 653.2).

All fields must be completed. Enter either, as appropriate: '✓' if Acceptable condition; 'N/A' if Not applicable; 'LIM' if a Limitation exists; or Code appropriately – CODE 'C1', 'C2', 'C3' or 'FI' (codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)

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PART 12 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing 9L2,9L3,9L1,8L3

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 (I) other - state: FP200

| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
|----------------|---------------------|----------------------------|----------------------------|-------------------------|-------------------------|------------------------|---------------------------------------|-------------------|--------|------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| 1L1 | DB1 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.01 | N/A | 200 | 200 | 500 | ✓ | 0.09 | N/A | N/A | N/A | |
| 1L2 | DB1 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.01 | N/A | 200 | 200 | 500 | ✓ | 0.09 | N/A | N/A | N/A | |
| 1L3 | DB1 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.01 | N/A | 200 | 200 | 500 | ✓ | 0.09 | N/A | N/A | N/A | |
| 2L1 | DB2 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.05 | N/A | 200 | 200 | 500 | ✓ | 0.10 | N/A | N/A | N/A | |
| 2L2 | DB2 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.05 | N/A | 200 | 200 | 500 | ✓ | 0.10 | N/A | N/A | N/A | |
| 2L3 | DB2 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.05 | N/A | 200 | 200 | 500 | ✓ | 0.10 | N/A | N/A | N/A | |
| 3L1 | DB3 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.06 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 3L2 | DB3 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.06 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 3L3 | DB3 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.06 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 4L1 | DB4 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.07 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 4L2 | DB4 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.07 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 4L3 | DB4 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.07 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 5L1 | DB5 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.10 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 5L2 | DB5 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.10 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 5L3 | DB5 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.10 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 6L1 | DB6 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.11 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 6L2 | DB6 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.11 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |
| 6L3 | DB6 | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.11 | N/A | 200 | 200 | 500 | ✓ | 0.12 | N/A | N/A | N/A | |

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: MCCB Pannel Board
 Location of DB: Electrical Riser Ground Floor

TESTED BY Name (capitals): PHIL HUGHES
 Signature: _____
 Position: Electrician
 Date: 01/07/2019

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

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

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

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

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

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (1008121101865448) Continuity: (N/A)

Insulation resistance: (N/A) Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A) RCD: (N/A)

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 9L2,9L3,9L1,8L3

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: FP200

| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
|----------------|---------------------|----------------------------|----------------------------|-------------------------|-------------------------|------------------------|---------------------------------------|-------------------|--------|------------|-----------------------------|---|---|--|--------------------------|----------------------|---|-----------------------|--------------------------|----------------------|------------------------------------|--------------|--|-------------------------|----------------|----------|
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| | | | | | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | | | | R ₂ | (MΩ) |
| 7L1 | PLANT ROOM | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.10 | N/A | 200 | 200 | 500 | ✓ | 0.13 | N/A | N/A | N/A | |
| 7L2 | PLANT ROOM | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.10 | N/A | 200 | 200 | 500 | ✓ | 0.13 | N/A | N/A | N/A | |
| 7L3 | PLANT ROOM | F | C | 1 | 16 | 16 | 5 | 60947-2 | MCCB63 | 16 | N/A | 0.26 | N/A | N/A | N/A | 0.10 | N/A | 200 | 200 | 500 | ✓ | 0.13 | N/A | N/A | N/A | |
| 8L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 8L2 | External Lighting | F | E | 1 | 16 | 16 | 5 | 60947-2 | MCCB63 | 16 | N/A | 0.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 8L3 | Fire Alarm Panel | O | E | 1 | 2.5 | 1.5 | 5 | 60947-2 | MCCB16 | 16 | N/A | 1.7 | N/A | N/A | N/A | N/A | N/A | LIM | 200 | 500 | ✓ | N/A | N/A | N/A | N/A | |
| 9L1 | Lift Panel | F | E | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | LIM | N/A | N/A | N/A |
| 9L2 | Lift Panel | F | E | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | LIM | N/A | N/A | N/A |
| 9L3 | Lift Panel | F | E | 1 | 16 | 16 | 5 | 60947-2 | MCCB80 | 16 | N/A | 0.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | LIM | N/A | N/A | N/A |
| 10L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10I2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| | | | |
|--|---|---|---|
| DISTRIBUTION BOARD (DB) DETAILS <small>(to be completed in every case)</small> | DB designation: MCCB Panel Board Location of DB: Electrical Riser Ground Floor | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 01/07/2019 |
|--|---|---|---|

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

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

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

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

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

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865448) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 3L2,1L1,5L3,2L3,1L2,2L2,2L1,1L3,3L1

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: N/A

| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | |
|----------------|---------------------------|----------------------------|----------------------------|-------------------------|-------------------------|------------------------|---------------------------------------|-------------------|------|------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|------|
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) | |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | (ms) | (ms) | (ms) |
| 1L1 | Lights rooms 001-004 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.84 | N/A | LIM | 200 | 250 | ✓ | 1.93 | N/A | ✓ | N/A | |
| 1L2 | Lights rooms 009-012 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.50 | N/A | LIM | 200 | 250 | ✓ | 1.59 | N/A | ✓ | N/A | |
| 1L3 | Lights Corridor North | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.88 | N/A | LIM | 200 | 250 | ✓ | 1.97 | N/A | ✓ | N/A | |
| 2L1 | Lights rooms 005-008 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.90 | N/A | LIM | 200 | 250 | ✓ | 1.98 | N/A | ✓ | N/A | |
| 2L2 | Lights rooms 013-016 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.45 | N/A | LIM | 200 | 250 | ✓ | 1.54 | N/A | ✓ | N/A | |
| 2L3 | Lights Corridor East | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.11 | N/A | LIM | 200 | 250 | ✓ | 1.20 | N/A | ✓ | N/A | |
| 3L1 | Lights Kitchen/switchroom | A | 102 | 3 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.05 | N/A | LIM | 200 | 250 | ✓ | 1.14 | N/A | ✓ | N/A | |
| 3L2 | Lights Kitchen | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.65 | N/A | LIM | 200 | 250 | ✓ | 0.74 | N/A | ✓ | N/A | |
| 3L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L3 | Lights Lobby | A | 102 | 9 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.72 | N/A | LIM | 200 | 250 | ✓ | 1.81 | N/A | ✓ | N/A | |
| 5L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L3 | Lights Stairs | A | 102 | 7 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.89 | N/A | LIM | 200 | 250 | ✓ | 1.98 | N/A | ✓ | N/A | |
| 6L1 | Sockets room 009-012 | A | 102 | 24 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.42 | 0.42 | 1.01 | 0.35 | N/A | LIM | 200 | 250 | ✓ | 0.17 | 38.8 | ✓ | N/A | |
| 6L2 | Sockets room 005-008 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.51 | 0.51 | 1.23 | 0.43 | N/A | LIM | 200 | 250 | ✓ | 0.29 | 38.7 | ✓ | N/A | |
| 6L3 | Sockets Corridor | A | 102 | 10 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.67 | 0.67 | 1.59 | 0.56 | N/A | LIM | 200 | 250 | ✓ | 0.51 | 38.9 | ✓ | N/A | |

DISTRIBUTION BOARD (DB) DETAILS DB designation: DB1 Ground floor (to be completed in every case) Location of DB: Electrical Riser
TESTED BY Name (capitals): PHIL HUGHES Position: Electrician
 Signature: _____ Date: 01/07/2019

TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
 Supply to DB is from: (MCCB Panel Board - 1L1) Nominal voltage: (415) V No. of phases: (3)
Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A
Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms
Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.09) Ω I_{pf} (4.02) kA

TEST INSTRUMENTS (enter serial number against each instrument used)
 Multi-function: (1008121101865448) Continuity: (N/A)
 Insulation resistance: (N/A) Earth fault loop impedance: (N/A)
 Earth electrode resistance: (N/A) RCD: (N/A)

Original (to the person ordering the work)

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XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing 3L2,1L1,5L3,2L3,1L2,2L2,2L1,1L3,3L1

| 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: N/A | | | | | | | | | | | | | | | | | |
|--------------------------|---------------------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|-----|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) | |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | | |
| 7L1 | Sockets room 013-016 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.42 | 0.42 | 1.08 | 0.37 | N/A | LIM | 200 | 250 | ✓ | 0.50 | 28.8 | ✓ | N/A | |
| 7L2 | Sockets room 001-004 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.60 | 0.57 | 1.00 | 0.40 | N/A | LIM | 200 | 250 | ✓ | 0.29 | 38.8 | ✓ | N/A | |
| 7L3 | Pay Phone Radial | A | 102 | 1 | 4 | 1.5 | 0.4 | 61009 | C | 20 | 10 | 30 | 0.87 | N/A | N/A | N/A | LIM | N/A | LIM | LIM | N/A | ✓ | LIM | N/A | LIM | N/A | |
| 8L1 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.11 | N/A | LIM | 200 | 250 | ✓ | 0.20 | N/A | N/A | N/A | |
| 8L2 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.04 | N/A | LIM | 200 | 250 | ✓ | 0.13 | N/A | N/A | N/A | |
| 8L3 | Door entry, camera, smoke vents | A | 102 | 3 | 4 | 1.5 | 0.4 | 60898 | C | 20 | 10 | N/A | 0.87 | N/A | N/A | N/A | 0.37 | N/A | LIM | 200 | 250 | ✓ | 0.46 | N/A | N/A | N/A | |
| 9L1 | Sockets Kitchen North | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.39 | 0.40 | 0.92 | 0.32 | N/A | LIM | 200 | 250 | ✓ | 0.21 | 38.7 | ✓ | N/A | |
| 9L2 | Sockets Kitchen East | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.25 | 0.26 | 0.54 | 0.19 | N/A | LIM | 200 | 250 | ✓ | 0.16 | 38.7 | ✓ | N/A | |
| 9L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10L1 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.54 | N/A | LIM | 200 | 250 | ✓ | 0.63 | N/A | N/A | N/A | |
| 10L2 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.24 | N/A | LIM | 200 | 250 | ✓ | 0.35 | N/A | N/A | N/A | |
| 10L3 | Auto Doors | A | 102 | 2 | 2.5 | 1.5 | 0.4 | 60898 | C | 16 | 10 | N/A | 1.09 | N/A | N/A | N/A | 0.43 | N/A | LIM | 200 | 250 | ✓ | 0.52 | N/A | N/A | N/A | |

| | | | |
|---|--|---|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB1 Ground floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 01/07/2019 |
|---|--|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 1L1) Nominal voltage: (415) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.09) Ω I_{pf} (4.02) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865448) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing 1L1,2L3,1L2,2L1,2L2,1L3

| 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: N/A | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| 1L1 | Lights Corridor North | A | 102 | 6 | 1.5 | 1 | 0.4 | 61009 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 2.20 | N/A | LIM | 200 | 250 | ✓ | 2.28 | 28.7 | ✓ | N/A |
| 1L2 | Lights rooms 101-104 | A | 102 | 16 | 1.5 | 1 | 0.4 | 61009 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 2.43 | N/A | LIM | 200 | 250 | ✓ | 2.51 | 28.9 | ✓ | N/A |
| 1L3 | Lights rooms 109-112 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.50 | N/A | LIM | 200 | 250 | ✓ | 1.58 | N/A | N/A | N/A |
| 2L1 | Lights Corridor East | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.42 | N/A | LIM | 200 | 250 | ✓ | 1.50 | N/A | N/A | N/A |
| 2L2 | Lights rooms 105-108 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.72 | N/A | LIM | 200 | 250 | ✓ | 1.80 | N/A | N/A | N/A |
| 2L3 | Lights rooms 113-116 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.40 | N/A | LIM | 200 | 250 | ✓ | 1.48 | N/A | N/A | N/A |
| 3L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3L2 | Lights Kitchen North | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.08 | N/A | LIM | 200 | 250 | ✓ | 1.16 | N/A | N/A | N/A |
| 3L3 | Lights Kitchen East | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.66 | N/A | LIM | 200 | 250 | ✓ | 0.74 | N/A | N/A | N/A |
| 4L1 | Lights Lobby | A | 102 | 9 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.30 | N/A | LIM | 200 | 250 | ✓ | 1.38 | N/A | N/A | N/A |
| 4L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 6L1 | Sockets Corridor | A | 102 | 10 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.60 | 0.60 | 2.05 | 0.66 | N/A | LIM | 200 | 250 | ✓ | 0.84 | 38.8 | ✓ | N/A |
| 6L2 | Sockets room 109-112 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.68 | 0.38 | 0.38 | 0.93 | 0.32 | N/A | LIM | 200 | 250 | ✓ | 0.41 | 38.7 | ✓ | N/A |
| 6L3 | Sockets room 105-108 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.48 | 0.48 | 1.59 | 0.51 | N/A | LIM | 200 | 250 | ✓ | 0.53 | 38.7 | ✓ | N/A |

| | | | |
|---|---|---|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB2 Firts floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: _____ | Position: Electrician Date: 24/09/2019 |
|---|---|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 2L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (N/A) Z_s (0.1) Ω I_{pf} (2.63) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|---|--|
| Multi-function: (1008121101865448) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing 1L1,2L3,1L2,2L1,2L2,1L3

| 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: N/A | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|-----|-----|-----|-----|-----|-----|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | | | | | | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) | | | | | | |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | | | | | | | | |
| 7L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 7L2 | Sockets room 113-116 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.38 | 0.38 | 0.95 | 0.33 | N/A | LIM | 200 | 250 | ✓ | 0.55 | 38.7 | ✓ | ✓ | N/A | | | | | | |
| 7L3 | Sockets room 101-104 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.51 | 0.54 | 1.45 | 0.49 | N/A | LIM | 200 | 250 | ✓ | 0.43 | 38.7 | ✓ | ✓ | N/A | | | | | | |
| 8L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 8L2 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.14 | N/A | LIM | 200 | 250 | ✓ | 0.22 | N/A | N/A | N/A | N/A | | | | | | |
| 8L3 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.13 | N/A | LIM | 200 | 250 | ✓ | 0.21 | N/A | N/A | N/A | N/A | | | | | | |
| 9L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9L2 | Sockets Kitchen North | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.36 | 0.32 | 0.82 | 0.29 | N/A | LIM | 200 | 250 | ✓ | 0.40 | 28.5 | ✓ | ✓ | N/A | | | | | | |
| 9L3 | Sockets Kitchen East | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.51 | 0.54 | 1.45 | 0.49 | N/A | LIM | 200 | 250 | ✓ | 0.29 | 29.2 | ✓ | ✓ | N/A | | | | | | |
| 10L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10L2 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.25 | N/A | LIM | 200 | 250 | ✓ | 0.33 | N/A | N/A | N/A | N/A | | | | | | |
| 10L3 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.41 | N/A | LIM | 200 | 250 | ✓ | 0.49 | N/A | N/A | N/A | N/A | | | | | | |

| | | | |
|---|---|---|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB2 Firts floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 24/09/2019 |
|---|---|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 2L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (N/A) Z_s (0.1) Ω I_{pf} (2.63) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865448) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

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XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 3L,2L1,2L3,1L2,1L3,4L2,2L2,3L1,1L1

| Circuit description | | CODES for Type of wiring | | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | | |
|---------------------|----------------------------|---|--|--|---|---|--------------------------------|--------------------------------|------------------------------|-----------------------------|---|--|--------------------------|----------------------|------------------------------------|---|--|-----------------------|------------|-------------|---|----------------------------|--------------|------|------|-----|
| | | (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: N/A | | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | Ring final circuits only (measured end to end) | All circuits (complete at least one column) | | RCD (✓) | AFDD (✓) | | | | | | |
| Circuit number | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | Maximum permitted Z _s for installed protective device* (Ω) | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | (MΩ) | (MΩ) | (V) | (✓) | RCD (ms) | RCD (✓) | AFDD (✓) | | | |
| | | | | 1L1 | Lights rooms 209-212 | A | 102 | 16 | 1.5 | 1 | | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | | | | N/A | 1.49 | N/A |
| 1L2 | Lights Corridor | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.98 | N/A | LIM | 200 | 250 | ✓ | 2.12 | N/A | N/A | N/A |
| 1L3 | Lights rooms 201-204 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.62 | N/A | LIM | 200 | 250 | ✓ | 1.76 | N/A | N/A | N/A |
| 2L1 | Lights rooms 213-216 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.41 | N/A | LIM | 200 | 250 | ✓ | 1.55 | N/A | N/A | N/A |
| 2L2 | Lights Corridor | A | 102 | | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.56 | N/A | LIM | 200 | 250 | ✓ | 1.70 | N/A | N/A | N/A |
| 2L3 | Lights Rooms 205-208 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.59 | N/A | LIM | 200 | 250 | ✓ | 1.75 | N/A | N/A | N/A |
| 3L1 | Lights Kitchen | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.57 | N/A | LIM | 200 | 250 | ✓ | 0.71 | N/A | N/A | N/A |
| 3L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3L | Lights Kitchen | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.02 | N/A | LIM | 200 | 250 | ✓ | 1.16 | N/A | N/A | N/A |
| 4L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L2 | Lights Lobby | A | 102 | 9 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.49 | N/A | LIM | 200 | 250 | ✓ | 1.63 | N/A | N/A | N/A |
| 4L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 6L1 | Sockets room 205-208 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.54 | 0.51 | 1.24 | 0.44 | N/A | LIM | 200 | 250 | ✓ | 1.24 | 38.7 | ✓ | N/A |
| 6L2 | Sockets Corridor | A | 102 | 10 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.67 | 0.67 | 1.54 | 0.55 | N/A | LIM | 200 | 250 | ✓ | 0.43 | 38.9 | ✓ | N/A |
| 6L3 | Sockets 209-212 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.42 | 0.42 | 0.95 | 1.37 | N/A | LIM | 200 | 250 | ✓ | 0.26 | 38.9 | ✓ | N/A |

| | | | |
|---|--|--|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB3 Second Floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: _____ | Position: Electrician Date: 01/07/2019 |
|---|--|--|---|

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

Supply to DB is from: (MCCB Pannel Board - 3L1) Nominal voltage: (415) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (N/A) Z_s (0.14) Ω I_{pf} (4.36) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|---|--|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

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Circuits/equipment vulnerable to damage when testing 3L,2L1,2L3,1L2,1L3,4L2,2L2,3L1,1L1

| 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: N/A | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| 7L1 | Sockets room 201-204 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.58 | 0.57 | 1.34 | 0.48 | N/A | LIM | 200 | 250 | ✓ | 0.40 | 38.8 | ✓ | N/A |
| 7L2 | Spare | N/A | N/A | N/A | | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 7L3 | Sockets room 213-216 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.36 | 0.38 | 0.98 | 0.34 | N/A | LIM | 200 | 250 | ✓ | 0.35 | 38.8 | ✓ | N/A |
| 8L1 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | | N/A | LIM | 200 | 250 | ✓ | 0.10 | N/A | N/A | N/A |
| 8L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 8L3 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.02 | N/A | LIM | 200 | 250 | ✓ | 0.16 | N/A | N/A | N/A |
| 9L1 | Sockets Kitchen Esat | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.27 | 0.26 | 0.54 | 0.20 | N/A | LIM | 200 | 250 | ✓ | 0.25 | 28.7 | ✓ | N/A |
| 9L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 9L3 | Sockets Kitchen North | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.33 | 0.33 | 0.61 | 0.48 | N/A | LIM | 200 | 250 | ✓ | 0.77 | 38.8 | ✓ | N/A |
| 10L1 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.11 | N/A | LIM | 200 | 250 | ✓ | 0.25 | N/A | N/A | N/A |
| 10L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10L2 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.34 | N/A | LIM | 200 | 250 | ✓ | 0.48 | N/A | N/A | N/A |

| | | | |
|---|--|---|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB3 Second Floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 01/07/2019 |
|---|--|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 3L1) Nominal voltage: (415) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (N/A) Z_s (0.14) Ω I_{pf} (4.36) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 3L2,2L2,2L3,1L1,3L1,1L3,1L2,2L1

| 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: N/A | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| 1L1 | Lights 301-304 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.36 | N/A | LIM | 200 | 250 | ✓ | 1.51 | N/A | N/A | N/A |
| 1L2 | Lights room 309-312 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.80 | N/A | LIM | 200 | 250 | ✓ | 1.95 | N/A | N/A | N/A |
| 1L3 | Lights Corridor North | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.76 | N/A | LIM | 200 | 250 | ✓ | 1.91 | N/A | N/A | N/A |
| 2L1 | Lights rooms 305-308 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.65 | N/A | LIM | 200 | 250 | ✓ | 1.80 | N/A | N/A | N/A |
| 2L2 | Lights rooms 313-316 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.37 | N/A | LIM | 200 | 250 | ✓ | 1.42 | N/A | N/A | N/A |
| 2L3 | Lights Corridor East | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.26 | N/A | LIM | 200 | 250 | ✓ | 1.41 | N/A | N/A | N/A |
| 3L1 | Lights Kitchen North | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.98 | N/A | LIM | 200 | 250 | ✓ | 1.13 | N/A | N/A | N/A |
| 3L2 | Lights Kitchen East | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.55 | N/A | LIM | 200 | 250 | ✓ | 0.70 | N/A | N/A | N/A |
| 3L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L3 | Lights Lobby | A | 102 | 9 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.43 | N/A | LIM | 200 | 250 | ✓ | 1.58 | N/A | N/A | N/A |
| 5L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L3 | Lights Stairs | A | 102 | 11 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 2.79 | N/A | LIM | 200 | 250 | ✓ | 2.84 | N/A | N/A | N/A |
| 6L1 | Sockets room 309-312 | A | 102 | 24 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.36 | 0.36 | 1.02 | 0.35 | N/A | LIM | 200 | 250 | ✓ | 0.40 | 38.7 | ✓ | N/A |
| 6L2 | Sockets room 305-309 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.48 | 0.48 | 1.19 | 0.41 | N/A | LIM | 200 | 250 | ✓ | 0.60 | 38.7 | ✓ | N/A |
| 6L3 | Sockets Corridor | A | 102 | 10 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.60 | 0.57 | 1.45 | 0.51 | N/A | LIM | 200 | 250 | ✓ | 0.60 | 38.8 | ✓ | N/A |

| | | | |
|---|---|---|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB4 Third Floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: _____ | Position: Electrician Date: 01/07/2019 |
|---|---|---|---|

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

Supply to DB is from: (MCCB Panel Board - 3L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.14) Ω I_{pf} (N/A) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 3L2,2L2,2L3,1L1,3L1,1L3,1L2,2L1

| 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: N/A | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| 7L1 | Sockets room 313-316 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.38 | 0.38 | 1.34 | 0.43 | N/A | LIM | 200 | 250 | ✓ | 0.55 | 38.7 | ✓ | N/A |
| 7L2 | Sockets room 301-304 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.54 | 0.53 | 1.32 | 0.47 | N/A | LIM | 200 | 250 | ✓ | 0.48 | 38.7 | ✓ | N/A |
| 7L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 8L1 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.06 | N/A | LIM | 200 | 250 | ✓ | 0.21 | N/A | N/A | N/A |
| 8L2 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.08 | N/A | LIM | 200 | 250 | ✓ | 0.23 | N/A | N/A | N/A |
| 8L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 9L1 | Sockets Kitchen East | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.36 | 0.35 | 0.85 | 0.30 | N/A | LIM | 200 | 250 | ✓ | 0.35 | 29.2 | ✓ | N/A |
| 9L2 | Sockets Kitchen North | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.23 | 0.23 | 0.54 | 0.19 | N/A | LIM | 200 | 250 | ✓ | 0.27 | 28.5 | ✓ | N/A |
| 9L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10L1 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.34 | N/A | LIM | 200 | 250 | ✓ | 0.49 | N/A | N/A | N/A |
| 10L2 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.09 | N/A | LIM | 200 | 250 | ✓ | 0.24 | N/A | N/A | N/A |
| 10L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| | | | |
|--|---|---|---|
| DISTRIBUTION BOARD (DB) DETAILS <small>(to be completed in every case)</small> | DB designation: DB4 Third Floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 01/07/2019 |
|--|---|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 3L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.14) Ω I_{pf} (N/A) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

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XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing 2L1,3L2,2L3,1L1,2L2,1L3,3L3,1L2

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: N/A

| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | |
|----------------|-----------------------|----------------------------|----------------------------|-------------------------|-------------------------|------------------------|---------------------------------------|-------------------|------|------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | (V) | (ms) |
| 1L1 | Lights Corridor North | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.74 | N/A | LIM | 200 | 250 | ✓ | 1.93 | N/A | N/A | N/A |
| 1L2 | Lights room 401-404 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.91 | N/A | LIM | 200 | 250 | ✓ | 2.1 | N/A | N/A | N/A |
| 1L3 | Lights Room 409-412 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.20 | N/A | LIM | 200 | 250 | ✓ | 1.39 | N/A | N/A | N/A |
| 2L1 | Lights Corridor East | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.37 | N/A | LIM | 200 | 250 | ✓ | 1.56 | N/A | N/A | N/A |
| 2L2 | Lights rooms 405-408 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.53 | N/A | LIM | 200 | 250 | ✓ | 1.72 | N/A | N/A | N/A |
| 2L3 | Lights rooms 413-416 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.33 | N/A | LIM | 200 | 250 | ✓ | 1.52 | N/A | N/A | N/A |
| 3L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3L2 | Lights Kitchen North | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.73 | N/A | LIM | 200 | 250 | ✓ | 0.92 | N/A | N/A | N/A |
| 3L3 | Lights Kitchen East | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.39 | N/A | LIM | 200 | 250 | ✓ | 0.58 | N/A | N/A | N/A |
| 4L1 | Lights Lobby | A | 102 | 9 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.56 | N/A | LIM | 200 | 250 | ✓ | 1.75 | N/A | N/A | N/A |
| 4L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 6L1 | Sockets Corridor | A | 102 | 10 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.67 | 0.67 | 1.55 | 0.55 | N/A | LIM | 200 | 250 | ✓ | 0.40 | 38.8 | ✓ | N/A |
| 6L2 | Sockets room 409-412 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.38 | 0.38 | 0.98 | 0.34 | N/A | LIM | 200 | 250 | ✓ | 0.35 | 38.7 | ✓ | N/A |
| 6L3 | Sockets room 405-408 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.54 | 0.54 | 1.28 | 0.45 | N/A | LIM | 200 | 250 | ✓ | 0.43 | 38.7 | ✓ | N/A |

DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case)

DB designation: DB5 Fourth Floor
 Location of DB: Electrical Riser

TESTED BY Name (capitals): PHIL HUGHES
 Signature: _____
 Position: Electrician
 Date: 01/07/2019

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

Supply to DB is from: (MCCB Panel Board - 5L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.19) Ω I_{pf} (N/A) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (1008121101865453) Continuity: (N/A)

Insulation resistance: (N/A) Earth fault loop impedance: (N/A)

Earth electrode resistance: (N/A) RCD: (N/A)

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 2L1,3L2,2L3,1L1,2L2,1L3,3L3,1L2

| 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 | (I) other - state: N/A | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|-----|-----|-----|-----|-----|-----|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | | | | | | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) | | | | | | |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | | | | | | | | |
| 7L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 7L2 | Sockets room 413-416 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.45 | 0.45 | 1.11 | 0.39 | N/A | LIM | 200 | 250 | ✓ | 0.97 | 38.7 | ✓ | ✓ | N/A | | | | | | |
| 7L3 | Sockets room 401-404 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.58 | 0.58 | 1.41 | 0.49 | N/A | LIM | 200 | 250 | ✓ | 0.43 | 38.7 | ✓ | ✓ | N/A | | | | | | |
| 8L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 8L2 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.05 | N/A | LIM | 200 | 250 | ✓ | 0.19 | N/A | N/A | N/A | N/A | | | | | | |
| 8L3 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.05 | N/A | LIM | 200 | 250 | ✓ | 0.12 | N/A | N/A | N/A | N/A | | | | | | |
| 9L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 9L2 | Sockets Kitchen East | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.42 | 0.42 | 0.99 | 0.35 | N/A | LIM | 200 | 250 | ✓ | 0.31 | 29.2 | ✓ | ✓ | N/A | | | | | | |
| 9L3 | Sockets Kitchen North | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.27 | 0.27 | 0.67 | 0.23 | N/A | LIM | 200 | 250 | ✓ | 0.38 | 28.5 | ✓ | ✓ | N/A | | | | | | |
| 10L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10L2 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.21 | N/A | LIM | 200 | 250 | ✓ | 0.40 | N/A | N/A | N/A | N/A | | | | | | |
| 10L3 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.03 | N/A | LIM | 200 | 250 | ✓ | 0.21 | N/A | N/A | N/A | N/A | | | | | | |

| | | | |
|--|--|---|---|
| DISTRIBUTION BOARD (DB) DETAILS <small>(to be completed in every case)</small> | DB designation: DB5 Fourth Floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 01/07/2019 |
|--|--|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 5L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.19) Ω I_{pf} (N/A) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

CONTINUATION SHEET: ELECTRICAL INSTALLATION CERTIFICATES & ELECTRICAL INSTALLATION CONDITION REPORTS

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

XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

(Delete as appropriate)

Circuits/equipment vulnerable to damage when testing 5L2,1L3,3L1,9L2,4L2,3L3,2L2,1L2,2L3,2L1,1L1

| Circuit description | | CODES for Type of wiring | | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | | | |
|---------------------|----------------------------|---|--|--|---|---|--------------------------------|--------------------------------|------------------------------|-----------------------------|---|--|------------------------|--------------------------|------------------------|---|--|-----------------------|------------|-------------|---|---|----------------------------|------------|-------------|-----|-----|
| | | (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: N/A | | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | Ring final circuits only (measured end to end) | All circuits (complete at least one column) | | RCD (✓) | AFDD (✓) | | | | | | | |
| Circuit number | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | (MΩ) | (MΩ) | (V) | (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | RCD (✓) | AFDD (✓) | | |
| | | | | 1L1 | Lights room 509-512 | A | 102 | 16 | 1.5 | 1 | | | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | | | N/A | 1.27 | N/A | LIM |
| 1L2 | Lights Corridor North | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.42 | N/A | LIM | 200 | 250 | ✓ | 1.65 | N/A | N/A | N/A | |
| 1L3 | Lights Room 501-504 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.57 | N/A | LIM | 200 | 250 | ✓ | 1.80 | N/A | N/A | N/A | |
| 2L1 | Lights Room 513-516 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.24 | N/A | LIM | 200 | 250 | ✓ | 1.47 | N/A | N/A | N/A | |
| 2L2 | Lights Corridor East | A | 102 | 6 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.15 | N/A | LIM | 200 | 250 | ✓ | 1.38 | N/A | N/A | N/A | |
| 2L3 | Lights rooms 505-508 | A | 102 | 16 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.63 | N/A | LIM | 200 | 250 | ✓ | 1.86 | N/A | N/A | N/A | |
| 3L1 | Lights Kitchen East | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.58 | N/A | LIM | 200 | 250 | ✓ | 0.81 | N/A | N/A | N/A | |
| 3L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3L3 | Lights Kitchen North | A | 102 | 2 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 1.19 | N/A | LIM | 200 | 250 | ✓ | 1.42 | N/A | N/A | N/A | |
| 4L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4L2 | Lights Lobby | A | 102 | 9 | 1.5 | 1 | 0.4 | 60898 | B | 10 | 10 | N/A | 3.5 | N/A | N/A | N/A | 1.89 | N/A | LIM | 200 | 250 | ✓ | 2.12 | N/A | N/A | N/A | |
| 4L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5L2 | Lights plant Room | A | 102 | 4 | 1.5 | 1 | 0.4 | 60898 | C | 10 | 10 | N/A | 1.75 | N/A | N/A | N/A | 0.57 | N/A | LIM | 200 | 250 | ✓ | 0.80 | N/A | N/A | N/A | |
| 5L3 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 6L1 | Sockets room 505-508 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.47 | 0.45 | 1.18 | 0.41 | N/A | LIM | 200 | 250 | ✓ | 0.49 | 38.5 | ✓ | N/A | |
| 6L2 | Sockets Corridor | A | 102 | 10 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.67 | 0.67 | 1.79 | 1.79 | N/A | LIM | 200 | 250 | ✓ | 0.54 | 38.8 | ✓ | N/A | |
| 6L3 | Sockets room 509-512 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.42 | 0.42 | 0.98 | 0.35 | N/A | LIM | 200 | 250 | ✓ | 0.36 | 38.8 | ✓ | N/A | |

| | | | |
|---|----------------------------------|---|-----------------------|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB6 Fith Floor | TESTED BY Name (capitals): PHIL HUGHES | Position: Electrician |
| | Location of DB: Electrical Riser | | Signature: |

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

Supply to DB is from: (MCCB Pannel Board - 5L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.19) Ω I_{pf} (N/A) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

| | |
|---|--|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

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XXX / IPN : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing 5L2,1L3,3L1,9L2,4L2,3L3,2L2,1L2,2L3,2L1,1L1

| 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: N/A | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--|--|---|---|---------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------------|---|---|--|--------------------------|----------------------|---|----------------|-----------------------|-------------------|---------------------|--------------|--|-------------------------|--------------|----------|-----|
| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa | | | Protective device | | | | RCD Operating current, I _{Δn} (mA) | Maximum permitted Z _s for installed protective device* (Ω) | Circuit impedances (Ω) | | | | | Insulation resistance | | | Polarity (✓) | Max. measured earth fault loop impedance, Z _s (Ω) | RCD operating time (ms) | Test buttons | | |
| | | | | | Live (mm ²) | cpc (mm ²) | Max. disconnection time (BS 7671) (s) | BS (EN) | Type | Rating (A) | Short-circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | All circuits (complete at least one column) | | Live / Live (MΩ) | Live / Earth (MΩ) | Test voltage DC (V) | | | | RCD (✓) | AFDD (✓) | |
| | | | | | | | | | | | | | | (Line) r ₁ | (Neutral) r _n | (cpc) r ₂ | (R ₁ + R ₂) | R ₂ | | | | | | | | | |
| 7L1 | Sockets room 501-504 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.57 | 0.57 | 1.39 | 0.51 | N/A | LIM | 200 | 250 | ✓ | 0.51 | 38.8 | ✓ | N/A | |
| 7L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 7L3 | Sockets room 513-516 | A | 102 | 24 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.36 | 0.39 | 1.05 | 0.35 | N/A | LIM | 200 | 250 | ✓ | 0.40 | 28.8 | ✓ | N/A | |
| 8L1 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.07 | N/A | LIM | 200 | 250 | ✓ | 0.26 | N/A | N/A | N/A | |
| 8L2 | Sockets plant room | A | 102 | 3 | 4 | 1.5 | 0.4 | 61009 | C | 32 | 10 | 30 | 0.55 | 0.38 | 0.38 | 0.98 | 0.34 | N/A | LIM | 200 | 250 | ✓ | 0.32 | 38.7 | ✓ | N/A | |
| 8L3 | Cooker | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | N/A | 0.55 | N/A | N/A | N/A | 0.05 | N/A | LIM | 200 | 250 | ✓ | 0.28 | N/A | N/A | N/A | |
| 9L1 | Sockets Kitchen East | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.30 | 0.30 | 0.64 | 0.23 | N/A | LIM | 200 | 250 | ✓ | 0.34 | 38.6 | ✓ | N/A | |
| 9L2 | Plant room Interface | A | 102 | 1 | 4 | 1.5 | 0.4 | 60898 | C | 20 | 10 | 30 | 0.87 | 0.58 | 0.58 | 1.41 | 0.49 | N/A | LIM | 200 | 250 | ✓ | 0.43 | N/A | ✓ | N/A | |
| 9L3 | Sockets Kitchen North | A | 102 | 12 | 4 | 1.5 | 0.4 | 60898 | C | 32 | 10 | 30 | 0.55 | 0.33 | 0.36 | 0.86 | 0.29 | N/A | LIM | 200 | 250 | ✓ | 0.35 | 38.9 | ✓ | N/A | |
| 10L1 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10L3 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.31 | N/A | LIM | 200 | 250 | ✓ | 0.54 | N/A | N/A | N/A | |
| 11L1 | NTL | A | 102 | 2 | 4 | 1.5 | 0.4 | 61009 | C | 20 | 10 | 30 | 0.87 | N/A | N/A | N/A | 0.05 | N/A | LIM | 200 | 250 | ✓ | 0.28 | N/A | ✓ | N/A | |
| 11L2 | Spare | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11L3 | Hob | A | 102 | 1 | 6 | 2.5 | 0.4 | 60898 | C | 25 | 10 | N/A | 0.70 | N/A | N/A | N/A | 0.31 | N/A | LIM | 200 | 250 | ✓ | 0.54 | N/A | N/A | N/A | |

| | | | |
|---|--|---|---|
| DISTRIBUTION BOARD (DB) DETAILS (to be completed in every case) | DB designation: DB6 Fith Floor Location of DB: Electrical Riser | TESTED BY Name (capitals): PHIL HUGHES Signature: | Position: Electrician Date: 01/07/2019 |
|---|--|---|---|

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

Supply to DB is from: (MCCB Pannel Board - 5L1) Nominal voltage: (400) V No. of phases: (3)

Overcurrent protection device for the distribution circuit Type: (BS EN 60947-2) Rating: (80) A

Associated RCD (if any) Type: (BS EN N/A) No. of poles: (N/A) I_{Δn} (N/A) mA Operating time (N/A) ms

Characteristics at this DB Confirmation of supply polarity: (✓) Phase sequence confirmed (where appropriate): (✓) Z_s (0.19) Ω I_{pf} (N/A) kA

TEST INSTRUMENTS (enter serial number against each instrument used)

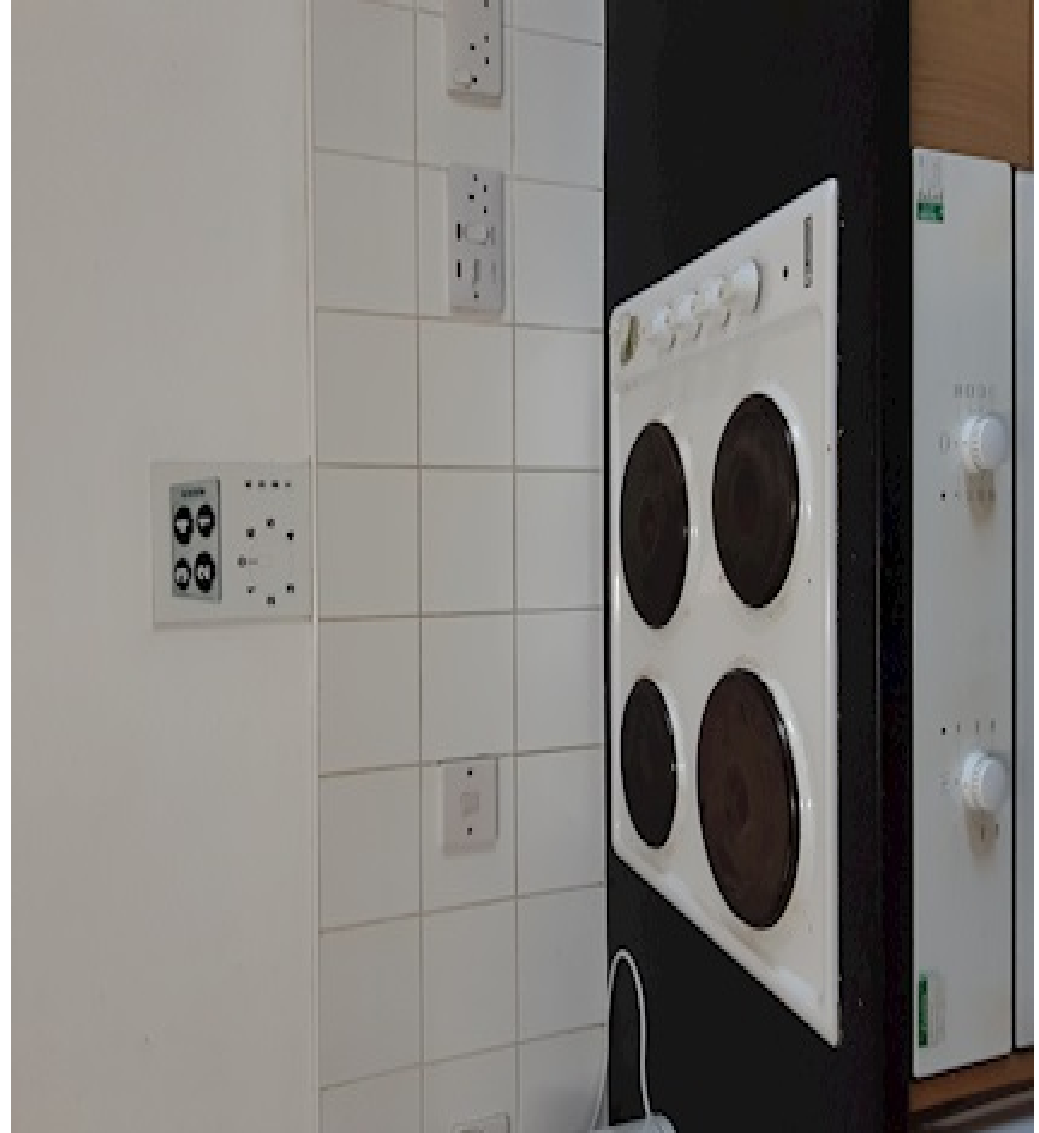
| | |
|--------------------------------------|-------------------------------------|
| Multi-function: (1008121101865453) | Continuity: (N/A) |
| Insulation resistance: (N/A) | Earth fault loop impedance: (N/A) |
| Earth electrode resistance: (N/A) | RCD: (N/A) |

Original (to the person ordering the work)

GENERAL CONTINUATION SHEET

NOTES

Sockets within 100mm of hob



GENERAL CONTINUATION SHEET

NOTES

Sockets within 100mm of hob



Original (to the person ordering the work)

GENERAL CONTINUATION SHEET

NOTES

Cables not supported in switchroom



Original (to the person ordering the work)

NOTES FOR RECIPIENT

THIS CONDITION REPORT IS AN IMPORTANT AND VALUABLE DOCUMENT WHICH SHOULD BE RETAINED FOR FUTURE USE

The purpose of periodic inspection is to determine, so far as is reasonably practicable, whether an electrical installation is in a satisfactory condition for continued service. This report provides an assessment of the condition of the electrical installation identified overleaf at the time it was inspected and tested, taking into account the stated extent of the installation and the limitations of the inspection and testing.

This report has been issued in accordance with the national standard for the safety of electrical installations, *BS 7671: 2018 – Requirements for Electrical Installations*.

The report identifies any damage, deterioration, defects and/or conditions found by the inspector which may give rise to danger (see PART 6), together with any items for which improvement is recommended.

If you were the person ordering this report, but not the user of the installation, you should pass this report, or a full copy of it including these notes, the schedules and additional pages (if any), immediately to the user.

This report should be retained in a safe place and shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this report will provide the new user with an assessment of the condition of the electrical installation at the time the periodic inspection was carried out.

Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested every six months. For safety reasons it is important that this instruction is followed.

For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. NICEIC* recommends that you engage the services of an NICEIC Approved Contractor for the inspection.

The recommended date by which the next inspection should be carried out is stated in PART 5 of this report. There should also be a notice at or near the main switchboard or distribution board/consumer unit indicating when the next inspection of the installation is due.

Only an NICEIC Approved Contractor or Conforming Body is authorised to issue this NICEIC Electrical Installation Condition Report. You should have received the report marked 'Original' and the Approved Contractor should have retained the report marked 'Duplicate'.

This report form is intended to be issued only for the purpose of reporting on the condition of an existing electrical installation and must not be issued to certify new electrical installation work including the replacement of a distribution board or consumer unit.

The report consists of at least six numbered pages. Additional numbered pages may have been provided to permit further relevant information relating to the installation to be recorded. For installations having more than one distribution board or more circuits than can be recorded on PART 12, one or more additional *Schedules of Circuit Details and Test Results* should form part of the report. The report is invalid if any of the schedules identified in PART 10 are missing. The report has a printed serial number, which is traceable to the Contractor to which it was supplied.

PART 7 (Details and limitations) should identify fully the extent of the installation covered by this report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.

Operational limitations may have been encountered during the inspection such as inability to gain access to parts of the installation or to an item of equipment. The inspector should have noted any such limitations in PART 7. It should be noted that the greater the limitations applying to a report, the less its value from the safety aspect.

A declaration should have been given by the inspector in PART 4 of the report. The declaration must reflect the statement given in PART 3, which summarises the observations and recommendations made in PART 6. Where one or more observations have been made in PART 6, the Classification code given to each by the inspector indicates the degree of urgency with which remedial action needs to be taken to restore the installation to a safe working condition.

Where the inspector has indicated an observation as code C1 (danger present) **the safety of those using the installation is at risk**. Wherever practicable, items classified as (C1) should be made safe on discovery, and it is recommended that a skilled person(s) competent in electrical installation work undertakes the necessary remedial work immediately.

Where the inspector has indicated an observation as code C2 (potentially dangerous) **the safety of those using the installation may be at risk**, and it is recommended that a skilled person(s) competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

Where the inspector has indicated that an item requires further investigation (FI), the investigation should be carried out without delay to determine whether danger or potential danger exists. For further guidance on the Classification codes, please see the reverse of page 2.

Where the installation can be supplied by more than one source, such as the public supply and a standby generator or microgenerator, this should be identified in PART 8 *Supply Characteristics and Earthing Arrangements*, and the *Schedules of Circuit Details and Test Results* (PART 12) compiled accordingly.

Where inadequacies in the intake equipment have been observed (Item 1 of PART 10), the person ordering the inspection should inform the distributor and/or supplier as appropriate.

Should the person ordering this report have reason to believe that it does not reasonably reflect the condition of the electrical installation reported on, that person should in the first instance raise the specific concerns in writing with the Approved Contractor. If the concerns remain unresolved, the person ordering this report may make a formal complaint to NICEIC, for which purpose a complaint form is available on request.

The complaints procedure offered by NICEIC is subject to certain terms and conditions, full details of which are available upon application. NICEIC does not investigate complaints relating to the operational performance of electrical installations (such as lighting levels), or to contractual or commercial issues (such as time or cost).

** NICEIC is operated by Certsure LLP, a partnership between the Electrical Contractors' Association and the charity, Electrical Safety First. NICEIC maintains and publishes registers of electrical contractors that it has assessed against particular scheme requirements (including the technical standard of electrical work).*

For further information about electrical safety and how NICEIC can help you, visit www.niceic.com

GUIDANCE FOR RECIPIENTS ON THE CLASSIFICATION CODES

Only one Classification code should be given for each recorded Observation

Classification code C1 (Danger present)

Where an observation has been given a Classification code C1, the safety of those using the installation is at risk and immediate remedial action is required.

The person responsible for the maintenance of the installation is advised to take action without delay to remedy the observed deficiency in the installation, or to take other appropriate action (such as switching off and isolating the affected part(s) of the installation) to remove the danger. The NICEIC Approved Contractor issuing this report will be able to provide further advice.

NICEIC makes available 'Electrical Danger Notification' forms to enable inspectors to record, and then to communicate to the person ordering the report, any dangerous condition discovered.

Classification code C2 (Potentially dangerous)

Classification code C2 indicates that, whilst those using the installation may not be at immediate risk, urgent remedial action is required to remove potential danger. The NICEIC Approved Contractor issuing this report will be able to provide further advice.

It is important to note that the recommendation given at PART 5 of this report (Next Inspection) for the maximum interval until the next inspection is conditional upon all items which have been given a Classification code C1 and code C2 being remedied immediately and as a matter of urgency, respectively.

It would not be reasonable for the inspector to indicate that the installation is in a satisfactory condition if any observation in this report has been given a code C1 or code C2 classification.

Classification code C3 (Improvement recommended)

Where an observation has been given a Classification code C3, the inspection and/or testing has revealed a non-compliance with the current safety standard which, whilst not presenting immediate or potential danger, would result in a significant safety improvement if remedied. Careful consideration should be given to the safety benefits of improving these aspects of the installation. The NICEIC Approved Contractor issuing this report will be able to provide further advice.

Code FI (Further investigation required without delay)

It should usually be possible for the inspector to attribute a Classification code to each observation without indicating a need for further investigation.

However, where 'FI' has been entered against an observation the inspector considers that further investigation of that observation is likely to reveal danger or potential danger that, due to the agreed extent or limitations of the inspection and/or testing, could not be fully identified at the time.

It would not be appropriate for the inspector to indicate that the installation is in a satisfactory condition if there is reasonable doubt as to whether danger or potential danger exists. Consequently, where the inspector has indicated 'Further investigation required without delay' (FI) the overall assessment of the installation (PART 3) should be marked as 'Unsatisfactory'.

If the inspector has indicated that an observation requires further investigation without delay, the person ordering this report is advised to arrange for the NICEIC Approved Contractor issuing the report (or another skilled person or persons competent in such work) to undertake further examination of that aspect of the installation as a matter of urgency, to determine whether or not danger or potential danger exists.

Further information

Further information on the application of Classification codes, primarily aimed at inspectors but of possible interest to persons ordering condition reports, can be found in Electrical Safety First's Best Practice Guide No 4 *Electrical installation condition reporting: Classification Codes for domestic and similar electrical installations*. The guide can be viewed or downloaded free of charge from www.electricalsafetyfirst.org.uk

For further information about electrical safety and how NICEIC can help you, visit www.niceic.com