# HOW EDIS USES THE DATA CAPTURED FOR REPORTING ELECTRICAL COMPLIANCE

*After reading this document you should understand how EDIS uses data captured during electrical inspection and testing to report on electrical compliance. The document explains how the test coverage is calculated and a best practice for entering data into key fields to ensure the resulting compliance reports provide a view that allows data driven decision-making during the planning, reporting and execution of electrical compliance programmes.*

## Contents



## PURPOSE OF THIS DOCUMENT

The primary purpose of the document is to illustrate how the data entered into the EDIS system enables better electrical compliance decision making and reporting, if the correct format is used.

The document demonstrates the end-to-end EDIS cycle, and how the recording of **test results influences the last test/ next test date**, and how the **last test/next test date affects the compliance reporting**.

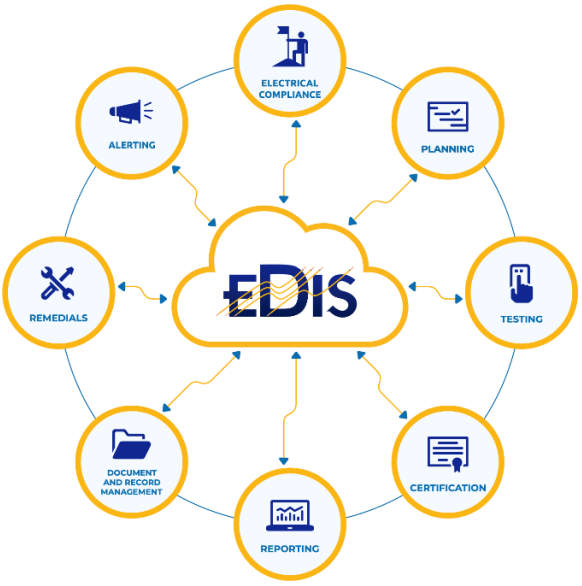
For context purposes the introduction to the document provides a very brief explanation of the electrical compliance requirements and the EDIS cycle. The Document also provides a 'worked example' using a single distribution board.

## ELECTRICAL COMPLIANCE REQUIREMENT

An electrical compliance process requires a risk assessment, this is typically done in the form of an EICR (Electrical Inspection Condition Report), the results are captured into a format described in BS7671 Condition Report model forms. The report provides a commentary and assessment of the condition of the electrical installation.

## THE EDIS CYCLE

The EDIS cycle is a system and process to facilitate the reporting and status of electrical compliance.




The EDIS Cycle automates the data handling for this process by tracking the inspections, actions required following from Observations.

The cycle starts with a compliance requirement that identified what needs to be Inspected and Tested. These items are inspected and the condition of these is then recorded in a certificate. After testing and remediation, the compliance can then be reported.

Managing, tracking and reporting on the compliance requirement:

EDIS identified and managed the compliance requirement in two ways:

1. Tracking the last test date of a circuit (and the recommended next test date), the circuits last test date is used to determine the distribution board test dates.
2. Tracking the observations and associated actions, this is done via the Action Require list which is created when Observation and recommendations are included in an EICR

If the next test date is in the future and there are no incomplete actions, it implies that the system has been inspected and any recommendations have been remediated or re-assigned.

As time passes the system needs to be re-tested, and the compliance reports are updated.

## IDENTIFYING THE DISTRIBUTION BOARDS AND CIRCUITS THAT REQUIRE INSPECTION AND TESTING

To identify which distribution boards, need to be tested compliance report with different levels of detail can be generated.

The report below is for a single building and it reports that there are 21 circuits due for testing in the Belsize building.

**INTERIM STATUS REPORT AS AT 30 DECEMBER 2023**

*Estate:* *Demo Estate*

| Building Name | Test Coverag | C1 | C2 | C3 | FI | LIM | NV | FIO | NCFI | ERR | Energised Ccts (Total non-spare) | Ccts Not Due for testin | Ccts Due for testing | Last 5 Inspection Dates | Latest Inspected Certificat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belsize | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 21 | 30/01/2019 | 11500 |

A more detailed compliance report displaying board/circuit details can be generated to identify specific boards and circuits that need testing. As an example, the distribution board schedule below shows the status of the Last test and Next test dates prior to testing. In this example **the last test date is 01/01/2019, with a next test date set for 01/01/2024**

## CR-01/1 DB

| Circuit Number and Phase | Circuit Designation | Type of wiring | Reference Method | Number of Points served | Circuit Conductors: csa | | Max. disconnection time permitted by BS 7671(s) | Overcurrent Protection Device | | | | RCD | Maximum $Z_s$ permitted by BS 7671 | Test Date - Next Test |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Live ($mm^2$) | cpc ($mm^2$) | | BS (EN) | Type No | Rating (A) | Short-circuit capacity (kA) | operating current, $I_{Dn}$ (mA) | | |
| 1 - L1 | Socket on Panel 1 & Lowerator | B | B | 2 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 1 - L2 | Socket on Panel 3 | B | B | 1 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 1 - L3 | Socket on Panel 4 | B | B | 1 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 2 - L1 | Induction Hob 1 Socket | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 2 - L2 | Induction Hob 2 Socket | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 2 - L3 | Cold Well | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L1 | Soup & Lowerator | B | B | 2 | 2.5/4 | 2.5/4 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L2 | Hot Cupboard Near | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L3 | Hot Cupboard Far | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 4 - L1 | Hot Plate 6 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 4 - L2 | Heat Lamps 6 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 4 - L3 | Hot Plate 5 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 5 - L1 | Heat Lamps 5 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 5 - L2 | Hot Plate 4 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 5 - L3 | Heat Lamps 4 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 6 - L1 | Hot Plate 3 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 6 - L2 | Heat Lamps 3 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 6 - L3 | Hot Plate 2 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 7 - L1 | Heat Lamps 2 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 01/01/2019-01/01/2024 |
| 7 - L2 | Trayside Lights | B | B | 1 | 1.5 | 1.5 | 0.4 | 60898 | C | 6 | N/A | 3.6 | 10 | 01/01/2019-01/01/2024 |
| 7 - L3 | Plinth Lights | B | B | 1 | 1.5 | 1.5 | 0.4 | 60898 | C | 6 | N/A | 3.6 | 10 | 01/01/2019-01/01/2024 |

# TESTING THE DISTRIBUTION BOARDS

During the testing of the distribution board, there are test readings and observations, in this example the observations are associated with a circuit. The schedule below shows the Circuit schedule of tests and provides an example of how the test results and observation can be recorded.

The example has been developed to illustrate how different situation can be handled when capturing the information. The information entered will determine how the circuit test dates and observations are handled by the EDIS system

| Circuit Number | Phase | Sub-Main | TPN (Phases supply same point) | Circuit Designation | | Polarity (Y/N) | Max Zs EL1 Rec | RCD Trip Time (ms) x 1 | RCD Test Button Operation (Y/N) | AFDD Manual AFDD Test Button Operation (Y/N) | Observation Group (Available for organisations) | Observation (Select or type text) | Classification Code: 1,2,3,4,5,FIO C1,C2,C3 N/V,LIM,NCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SORT | | | | | | | | | | | | | |
| 1 | L1 | N | N | Socket on Panel 1 & Lower | | | | | | | TEST LIMITATIONS | lim1- ACCESS RESTRICTED | FI |
| 1 | L2 | N | N | Socket on Panel 3 | | | | | | | TEST LIMITATIONS | lim2 - NOT ABLE TO OPEN BOARD | LIM |
| 1 | L3 | N | N | Socket on Panel 4 | | | | | | | TEST LIMITATIONS | Lim3 - could not locate | FI |
| 2 | L1 | N | N | Induction Hob 1 Socket | | | | | | | - | - | - |
| 2 | L2 | N | N | Induction Hob 2 Socket | | | | | | | - | - | - |
| 2 | L3 | N | N | Cold Well | | | | | | | - | - | - |
| 3 | L1 | N | N | Soup & Lowerator | | | | | | | - | - | - |
| 3 | L2 | N | N | Hot Cupboard Near | | | | | | | - | - | - |
| 3 | L3 | N | N | Hot Cupboard Far | | | | | | | - | - | - |
| 4 | L1 | N | N | Hot Plate 6 | | Y | 0.11 | N/A | N/A | N/A | TEST LIMITATIONS | Zs by calculation | FIO |
| 4 | L2 | N | N | Heat Lamps 6 | | Y | 0.11 | N/A | N/A | N/A | TEST LIMITATIONS | Zs by calculation | FIO |
| 4 | L3 | N | N | Hot Plate 5 | | Y | 0.16 | N/A | N/A | N/A | TEST LIMITATIONS | Zs by calculation | FIO |
| 5 | L1 | N | N | Heat Lamps 5 | | Y | lim | N/A | N/A | N/A | TEST LIMITATIONS | Zs not possible due to… | LIM |
| 5 | L2 | N | N | Hot Plate 4 | | Y | lim | N/A | N/A | N/A | TEST LIMITATIONS | Zs not possible due to… | LIM |
| 5 | L3 | N | N | Heat Lamps 4 | | Y | lim | N/A | N/A | N/A | TEST LIMITATIONS | Zs not possible due to… | LIM |
| 6 | L1 | N | N | Hot Plate 3 | | Y | 0.11 | N/A | N/A | N/A | | No RCD/RCBO Protection. | C3 |
| 6 | L2 | N | N | Heat Lamps 3 | | Y | 0.11 | N/A | N/A | N/A | | Broken Socket outlet & No RCD/RCBO I | C2 |
| 6 | L3 | N | N | Hot Plate 2 | | Y | 0.16 | N/A | N/A | N/A | | Broken Socket outlet & No RCD/RCBO I | C3 |
| 7 | L1 | N | N | Heat Lamps 2 | | Y | 0.09 | N/A | N/A | N/A | | No RCD/RCBO Protection. | C3 |
| 7 | L2 | N | N | Trayside Lights | | Y | 0.13 | N/A | N/A | N/A | | No RCD/RCBO Protection. | C3 |
| 7 | L3 | N | N | Plinth Lights | | Y | 0.14 | N/A | N/A | N/A | | No RCD/RCBO Protection. | C4 |

## Entering test results and observations

The table below explains how the different results will impact the circuit test date, i.e. if the test date is not updated, the circuit will be deemed NOT tested, the test dates are updated based on the Zs value, if there is no Zs value the test date is not updated, a reason should be provided for the missing values.

With reference to the table above

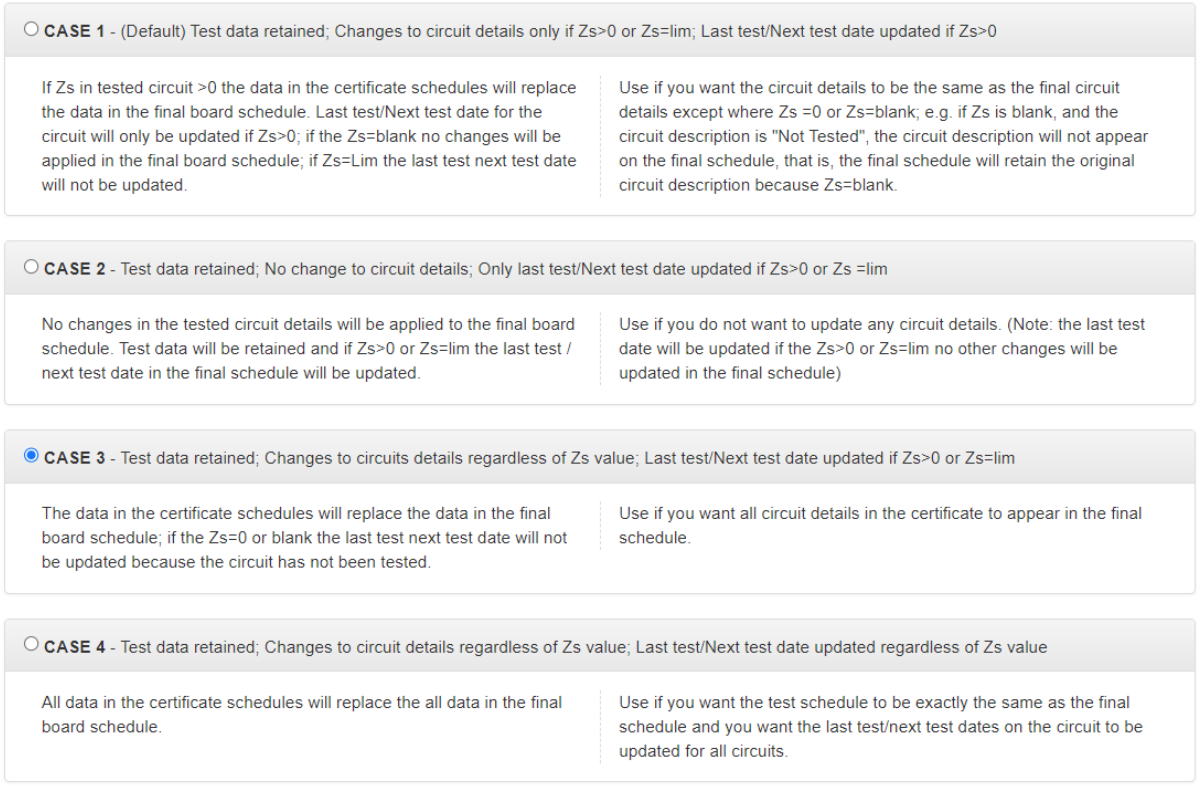
| | | | | |
|---|---|---|---|---|
| 1 | L1 | The circuit was not accessible and could not be tested<br>No test results are entered,<br>The Observations indicating the reason for not testing has been entered<br>**No Zs value implies the last/Next test date will NOT be updated and the circuit will be "untested"** | | |
| | | | | |
| 2 | L1 | No tests carried out<br>No test results<br>No comment on the reason<br>**No Zs value implies the last/Next test date will NOT be updated and the circuit will be "untested"** | | |
| | | | | |
| 3 | L1 | *Same as 2L1:*<br>No tests carried out<br>No test results<br>No comment on the reason | | |

| | | | | |
|---|---|---|---|---|
| | | **No Zs value implies the last/Next test date will NOT be updated and the circuit will be "untested"** | | |
| | | | | |
| 4 | L1 | Test carried out<br>Some limitations,<br>Note there is a value in the Zs field<br>Limitation described<br>Cat Code: FIO<br>**Zs value implies the last/Next test date WILL be updated and the circuit will be set as "tested"** | | |
| | | | | |
| 5 | L1 | Test carried out<br>Some limitations,<br>Note the LIM value in the Zs field<br>Limitation described<br>Cat Code: LIM<br>**Zs value implies the Last/Next test date WILL be updated and the circuit will be set as "tested"** | | |
| | | | | |
| 6 | L1 | Test carried out<br>No Material Limitations<br>Any comments and findings described in the Observations<br>**Zs value implies the Last/Next test date WILL be updated and the circuit will be set as "tested"** | | |
| | | | | |
| 7 | L1 | Test carried out<br>No Material Limitations<br>Any comments and findings described in the Observations<br>Note that the Cat Code for 7 L3- is an undefined value, i.e. C4, this will be flagged as an ERR in the report.<br>**Zs value implies the Last/Next test date WILL be updated and the circuit will be set as "tested"** | | |
| | | | | |

## COMPLETING THE CERTIFICATE AND UPDATING THE COMPLIANCE DETAILS

The CASE 3 for completion is applied. Note these can be overwritten at the time of certificate completion. In this case. The data in the certificate schedules will replace the data in the final board schedule; **if the Zs=0 or blank the last test next test date will not be updated because the assumption is that the the circuit has not been tested if there is no value. If there is a**

**value, e.g. numeric or LIM, the system will assume that the circuit has been tested and update the last/next test dates.**




# The RESULTING DATA UPDATES

## Last/next test dates for the circuits

The resulting distribution board schedule and changes in the last/next test dates for the above example are shown below. Based on the CASE 3 scenario; any circuits that have no Zs value are not updated, and last/next test dates remain unchanged.

| CR-01/1 DB | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Circuit Number and Phase | Circuit Designation | Type of wiring | Reference Method | Number of Points served | Circuit Conductors: csa | | Max. disconnection time permitted by BS 7671(s) | Overcurrent Protection Device | | | | RCD | Maximum $Z_S$ permitted by BS 7671 | Test Date - Next Test |
| | | | | | Live ($mm^2$) | cpc ($mm^2$) | | BS (EN) | Type No | Rating (A) | Short-circuit capacity (kA) | operating current, $I_{Dn}$ (mA) | | |
| 1 - L1 | Socket on Panel 1 & Lowerator | B | B | 2 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 1 - L2 | Socket on Panel 3 | B | B | 1 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 1 - L3 | Socket on Panel 4 | B | B | 1 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 2 - L1 | Induction Hob 1 Socket | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 2 - L2 | Induction Hob 2 Socket | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 2 - L3 | Cold Well | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L1 | Soup & Lowerator | B | B | 2 | 2.5/4 | 2.5/4 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L2 | Hot Cupboard Near | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L3 | Hot Cupboard Far | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 4 - L1 | Hot Plate 6 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 4 - L2 | Heat Lamps 6 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 4 - L3 | Hot Plate 5 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 5 - L1 | Heat Lamps 5 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 5 - L2 | Hot Plate 4 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 5 - L3 | Heat Lamps 4 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 6 - L1 | Hot Plate 3 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 6 - L2 | Heat Lamps 3 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 6 - L3 | Hot Plate 2 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 7 - L1 | Heat Lamps 2 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 7 - L2 | Trayside Lights | B | B | 1 | 1.5 | 1.5 | 0.4 | 60898 | C | 6 | N/A | 3.6 | 10 | 29/01/2024-29/01/2029 |
| 7 - L3 | Plinth Lights | B | B | 1 | 1.5 | 1.5 | 0.4 | 60898 | C | 6 | N/A | 3.6 | 10 | 29/01/2024-29/01/2029 |

## Observations and recommendations

The Observations and recommendation for the certificate is shown in the Excel export of Observations and Recommendations below:

| F | G | H | I | J | K |
|---|---|---|---|---|---|
| Item Number | Board/Circuit | Estate Remedial Group | Observation Group | Item Text | Severity Code |
| 1 | CR-01/1 DB, 1 L1 | | TEST LIMITATIONS | lim1- ACCESS RESTRICTED | FI |
| 2 | CR-01/1 DB, 1 L2 | | TEST LIMITATIONS | lim2 - NOT ABLE TO OPEN BOARD | FI |
| 3 | CR-01/1 DB, 1 L3 | | TEST LIMITATIONS | Lim3 - could not locate | FI |
| 10 | CR-01/1 DB, 4 L1 | | TEST LIMITATIONS | Zs by calculation | FIO |
| 11 | CR-01/1 DB, 4 L2 | | TEST LIMITATIONS | Zs by calculation | FIO |
| 12 | CR-01/1 DB, 4 L3 | | TEST LIMITATIONS | Zs by calculation | FIO |
| 13 | CR-01/1 DB, 5 L1 | | TEST LIMITATIONS | Zs not possible due toâ¦ | LIM |
| 14 | CR-01/1 DB, 5 L2 | | TEST LIMITATIONS | Zs not possible due toâ¦ | LIM |
| 15 | CR-01/1 DB, 5 L3 | | TEST LIMITATIONS | Zs not possible due toâ¦ | LIM |
| 4 | CR-01/1 DB, 6 L1 | | | No RCD/RCBO Protection. | C3 |
| 5 | CR-01/1 DB, 6 L2 | | | Broken Socket outlet & No RCD/RCBO Protection. | C2 |
| 6 | CR-01/1 DB, 6 L3 | | | Broken Socket outlet & No RCD/RCBO Protection. | C3 |
| 7 | CR-01/1 DB, 7 L1 | | | No RCD/RCBO Protection. | C3 |
| 8 | CR-01/1 DB, 7 L2 | | | No RCD/RCBO Protection. | C3 |
| 9 | CR-01/1 DB, 7 L3 | | | No RCD/RCBO Protection. | C3 |

# AFTER TESTING AND CERTIFICATE COMPLETION

The overall results are summarised as follows:

## Circuit results

**K. LIST OF BOARDS IN THIS CERTIFICATE - 115724**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number of boards: | 1 | Total number of circuits: | 21 | Number of SPARE circuits: | 0 | | |
| Number of boards where Zdb is a numeric value: | 0 | Number of circuits with a Zs excluding SPARES | 9 | Number of circuits where Zs=LIM, excluding SPARE: | 3 | | |
| | | Number of circuits where Zs=blank or 0, excluding SPARE: | 9 | Number of circuits with other value, excluding SPARES: | 0 | | |

| Board Designation | Phase | Ways | Board Type | Section | Floor | Location |
|---|---|---|---|---|---|---|
| CR-01/1 DB | 3 | 7 | | | | |

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

**CIRCUITS DUE BEFORE TEST:**

21 Circuits due for testing 01/01/2024

**CIRCUITS DUE AFTER TEST:**

9 x circuits due for testing 01/01/2024 (12 circuits tested, 29/01/2024 and due in 29/02/2030)

**TEST LIMITATIONS:**

3 x circuits -deemed not tested (Zs= blank), with a TEST LIMITATION explanation (no access)

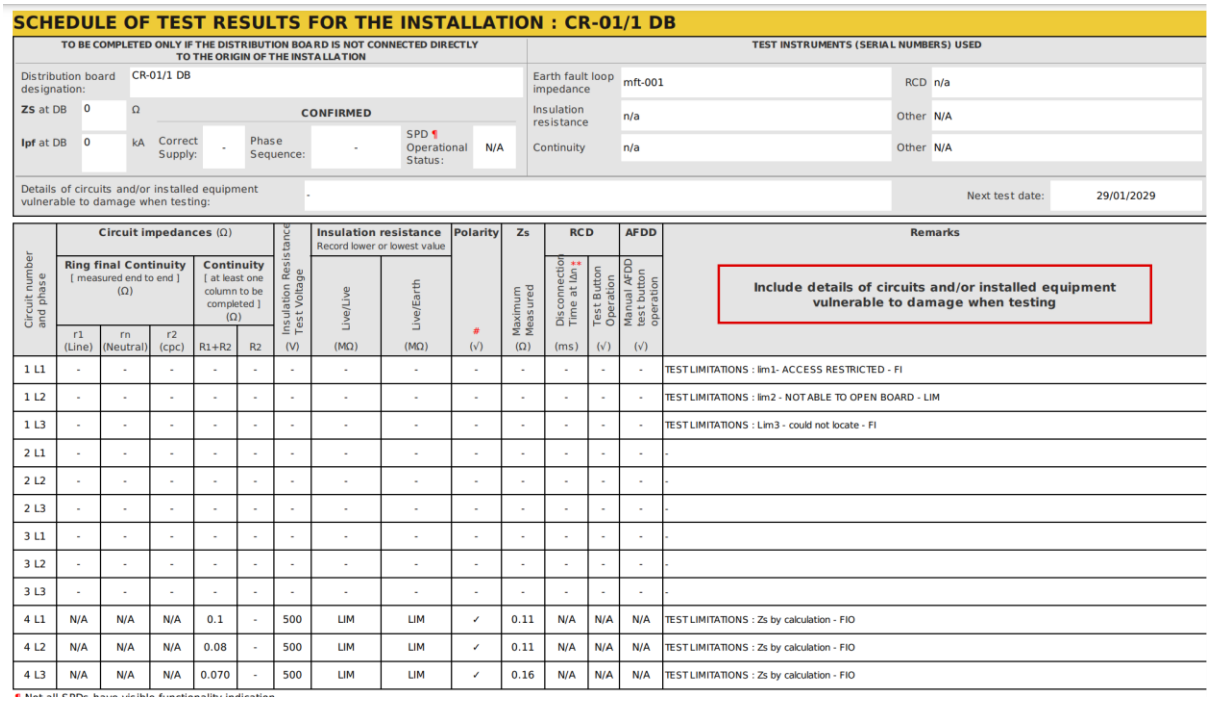
3 x circuits – deemed not tested (Zs= blank), with no explanation (no data, no observation)

6 x-deemed tested (Zs has a value), with a limitation or a “For Info Only” (FIO) notice

6 x-deemed tested with no limitation (Zs has a value), but with an observation

The results are reported in EDIS, there are views for each stakeholder:

PDF Certificate
The example below shows the Schedule of Test results, values entered and notes for the circuits.



**SCHEDULE OF TEST RESULTS FOR THE INSTALLATION : CR-01/1 DB**

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

| | | | | | |
|---|---|---|---|---|---|
| Distribution board designation: | CR-01/1 DB | | | | |
| ZS at DB | 0 Ω | CONFIRMED | | | |
| Ipf at DB | 0 kA | Correct Supply: - | Phase Sequence: - | SPD ¶ Operational Status: | N/A |

TEST INSTRUMENTS (SERIAL NUMBERS) USED

| | | | |
|---|---|---|---|
| Earth fault loop impedance | mft-001 | RCD | n/a |
| Insulation resistance | n/a | Other | N/A |
| Continuity | n/a | Other | N/A |

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

Next test date: 29/01/2029

| Circuit number and phase | Circuit impedances (Ω) Ring final Continuity [ measured end to end ] (Ω) r1 (Line) | rn (Neutral) | r2 (cpc) | Continuity [ at least one column to be completed ] (Ω) R1+R2 | R2 | Insulation Resistance Test Voltage (V) | Insulation resistance Record lower or lowest value Live/Live (MΩ) | Live/Earth (MΩ) | Polarity # (√) | Zs Maximum Measured (Ω) | RCD Disconnection Time at IΔn ** (ms) | Test Button Operation (√) | AFDD Manual AFDD test button operation (√) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 L1 | - | - | - | - | - | - | - | - | - | - | - | - | - | TEST LIMITATIONS : lim1- ACCESS RESTRICTED - FI |
| 1 L2 | - | - | - | - | - | - | - | - | - | - | - | - | - | TEST LIMITATIONS : lim2 - NOT ABLE TO OPEN BOARD - LIM |
| 1 L3 | - | - | - | - | - | - | - | - | - | - | - | - | - | TEST LIMITATIONS : Lim3 - could not locate - FI |
| 2 L1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 L2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 L3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 L1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 L2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 L3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 L1 | N/A | N/A | N/A | 0.1 | - | 500 | LIM | LIM | ✓ | 0.11 | N/A | N/A | N/A | TEST LIMITATIONS : Zs by calculation - FIO |
| 4 L2 | N/A | N/A | N/A | 0.08 | - | 500 | LIM | LIM | ✓ | 0.11 | N/A | N/A | N/A | TEST LIMITATIONS : Zs by calculation - FIO |
| 4 L3 | N/A | N/A | N/A | 0.070 | - | 500 | LIM | LIM | ✓ | 0.16 | N/A | N/A | N/A | TEST LIMITATIONS : Zs by calculation - FIO |

Remarks: Include details of circuits and/or installed equipment vulnerable to damage when testing

**J. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN**

**Referring to the attached schedules of inspection and test results, and subject to the limitations at D:**
(The items in this section provide observations and recommendations for remedial actions.)

| Item No | | Board/Cct reference | Classification Code |
|---|---|---|---|
| **DISTRIBUTION BOARD AND CIRCUIT OBSERVATIONS** | | | |
| 1 | TEST LIMITATIONS: lim1- ACCESS RESTRICTED | CR-01/1 DB: 1 L1 | FI |
| 2 | TEST LIMITATIONS: lim2 - NOT ABLE TO OPEN BOARD | CR-01/1 DB: 1 L2 | FI |
| 3 | TEST LIMITATIONS: Lim3 - could not locate | CR-01/1 DB: 1 L3 | FI |
| 4 | No RCD/RCBO Protection. | CR-01/1 DB: 6 L1 | C3 |
| 5 | Broken Socket outlet & No RCD/RCBO Protection. | CR-01/1 DB: 6 L2 | C2 |
| 6 | Broken Socket outlet & No RCD/RCBO Protection. | CR-01/1 DB: 6 L3 | C3 |
| 7 | No RCD/RCBO Protection. | CR-01/1 DB: 7 L1 | C3 |
| 8 | No RCD/RCBO Protection. | CR-01/1 DB: 7 L2 | C3 |
| 9 | No RCD/RCBO Protection. | CR-01/1 DB: 7 L3 | C3 |
| 10 | TEST LIMITATIONS: Zs by calculation | CR-01/1 DB: 4 L1 | FIO |
| 11 | TEST LIMITATIONS: Zs by calculation | CR-01/1 DB: 4 L2 | FIO |
| 12 | TEST LIMITATIONS: Zs by calculation | CR-01/1 DB: 4 L3 | FIO |
| 13 | TEST LIMITATIONS: Zs not possible due to... | CR-01/1 DB: 5 L1 | LIM |
| 14 | TEST LIMITATIONS: Zs not possible due to... | CR-01/1 DB: 5 L2 | LIM |
| 15 | TEST LIMITATIONS: Zs not possible due to... | CR-01/1 DB: 5 L3 | LIM |

## Distribution board Schedule updated

The example shows the last/next test dates

| CR-01/1 DB | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Circuit Number and Phase | Circuit Designation | Type of wiring | Reference Method | Number of Points served | Circuit Conductors: csa | | Max. disconnection time permitted by BS 7671(s) | Overcurrent Protection Device | | | | RCD | Maximum $Z_S$ permitted by BS 7671 | Test Date - Next Test |
| | | | | | Live ($mm^2$) | cpc ($mm^2$) | | BS (EN) | Type No | Rating (A) | Short-circuit capacity (kA) | operating current, $I_{Dn}$ (mA) | | |
| 1 - L1 | Socket on Panel 1 & Lowerator | B | B | 2 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 1 - L2 | Socket on Panel 3 | B | B | 1 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 1 - L3 | Socket on Panel 4 | B | B | 1 | 4 | 4 | 0.4 | 60898 | C | 20 | N/A | 1 | 10 | 01/01/2019-01/01/2024 |
| 2 - L1 | Induction Hob 1 Socket | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 2 - L2 | Induction Hob 2 Socket | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 2 - L3 | Cold Well | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L1 | Soup & Lowerator | B | B | 2 | 2.5/4 | 2.5/4 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L2 | Hot Cupboard Near | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 3 - L3 | Hot Cupboard Far | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 16 | N/A | 1.3 | 10 | 01/01/2019-01/01/2024 |
| 4 - L1 | Hot Plate 6 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 4 - L2 | Heat Lamps 6 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 4 - L3 | Hot Plate 5 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 5 - L1 | Heat Lamps 5 | B | B | 3 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |
| 5 - L2 | Hot Plate 4 | B | B | 1 | 2.5 | 2.5 | 0.4 | 60898 | C | 10 | N/A | 2.1 | 10 | 29/01/2024-29/01/2029 |

# THE UPDATED COMPLIANCE REPORTS

BEFORE:

**INTERIM STATUS REPORT AS AT 30 DECEMBER 2023**

*Estate:* *Demo Estate*

| Building Name | Test Coverag | C1 | C2 | C3 | FI | LIM | NV | FIO | NCFI | ERR | Energised Ccts (Total non-spare) | Ccts Not Due for testin | Ccts Due for testin | Last 5 Inspection Dates | Latest Inspected Certificat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belsize | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 21 | 30/01/2019 | 11500 |

AFTER:

**INTERIM STATUS REPORT AS AT 30 JANUARY 2024**

*Estate:* *Demo Estate*

| Building Name | Test Coverage | C1 | C2 | C3 | FI | LIM | NV | FIO | NCFF | ERR | Energised Ccts (Total non-spare) | Ccts Not Due for testing | Ccts Due for testing | Last 5 Inspection Dates | Latest Inspected Certificates |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belsize | 57% | 0 | 1 | 5 | 3 | 3 | 0 | 3 | 0 | 0 | 21 | 12 | 9 | 30/01/2019 | 11500 |

This summarises:

- The test coverage i.e. 12 circuits tested out of 21.
- The number of Observations, specifically 3 x FI's, that have not had access.

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## CONCLUSION AND RECOMMENDATIONS

This document is not a replacement for good electrical engineering judgment or electrical wiring standards; It's only aims to illustrate how the EDIS system can assist in providing better process and information for improving electrical compliance in a building.

Following the data recording described in this document will lead to better electrical compliance reporting.