



Inspection and test report

Electrician: Sipho Dlamini

Job number: JOB-5519

Date: 14 August 2026

Client: Johan Hattingh

Installation: 8 Seaview Crescent, Durban North

Supply type: Single-phase TN-C-S

DB location: Garage, left wall

Main breaker: 63 A

Circuits: 8

Scope of inspection

This report records a periodic inspection and test of the domestic installation at 8 Seaview Crescent ahead of a property transfer. The customer had reported nuisance tripping on the kitchen ring. This document records what was inspected and what was found. It does not constitute a statutory certificate for the installation.

Circuit test results

Kitchen ring — insulation resistance 0.4 M Ω before the faulty flex was removed, 186 M Ω after. RCD trip time 28 ms. Earth loop impedance 0.31 Ω .

Lights upstairs — insulation resistance 124 M Ω . RCD trip time 31 ms. Earth loop impedance 0.29 Ω .

Lights downstairs — insulation resistance 118 M Ω . RCD trip time 30 ms. Earth loop impedance 0.28 Ω .

Stove — insulation resistance 210 M Ω . RCD trip time 27 ms. Earth loop impedance 0.22 Ω .

Geyser — insulation resistance 198 M Ω . RCD trip time 29 ms. Earth loop impedance 0.24 Ω .

Garage and outside — insulation resistance 90 M Ω . RCD trip time 33 ms. Earth loop impedance 0.35 Ω .

Air conditioner — insulation resistance 155 M Ω . RCD trip time 32 ms. Earth loop impedance 0.27 Ω .

Spare / cooker hood — insulation resistance 140 M Ω . RCD trip time 30 ms. Earth loop impedance 0.30 Ω .

Observations and defects

Nuisance tripping on the kitchen ring was traced to a kettle flex with damaged insulation under the heat-shrink at the plug. With that appliance isolated, kitchen ring insulation resistance rose from 0.4 M Ω to 186 M Ω . No other circuit failed the insulation test. RCD trip times on all eight circuits were between 27 ms and 33 ms.

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Remedial work carried out

The faulty kettle flex was removed from service and left with the client. The kitchen ring was retested. Breaker labelling on the DB was corrected where two markers had swapped.

Outstanding items

The kettle must be rewired or replaced before it is used again. The garage earth bond to the water pipe is painted over at one clamp and should be cleaned at the next visit. Neither item blocks occupation. Neither item is certified by this report.

Recommendations

Retest the kitchen ring after the kettle is replaced. Keep a written log of any further RCD trips. A statutory certificate, if one is required for transfer, is a separate document in the prescribed format and is not issued from this inspection.

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