

Comments:

Comments on parts of the installation not covered by this report: Fixtures and Fittings

SECTION 5 - RESPONSIBILITY

NOTE — For existing installations, complete only 5.4. For new/alterd/temporary installations, if no signature appears in 5.1 to 5.3 the signatory of 5.4 takes responsibility. Where there are five or more installations on the same supply, a competent person signs 5.5

5.1 DESIGN. I, being the person responsible for the DESIGN of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the work for which I have been responsible, is to the best of my knowledge and belief in accordance with the relevant legislation. The extent of my liability is limited to the installation described in section 3 of this form.

For the DESIGN of the installation:

Name (in block letters): Position:
 Address:
 Signature:
 Profession Registration No.: (where applicable) Date:

5.2 MATERIAL SPECIFICATION / PROCUREMENT. I/We, being the person(s) responsible for the MATERIAL SPECIFICATION / PROCUREMENT for the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the equipment that I/we have procured, is to the best of my/our knowledge and belief in accordance with the relevant legislation. The extent of liability of the signatory is limited to the installation described in section 3 of this form.

For the MATERIAL SPECIFICATION / PROCUREMENT:

Name (in block letters): Alexander Ghan Position: Project Manager
 For and on behalf of: ECH Address: 4 Munro street
 Signature: [Signature] Paarden Eiland
 Date: Cape Town

5.3 CONSTRUCTION. I/We, being the person(s) responsible for the CONSTRUCTION of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the installation and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct and indicate

For the CONSTRUCTION of the installation:

Name (in block letters): Marthinus Louw Date of registration: 20/10/2017
 Electrical Contractor's Registration Number: WCD964 Expiry date of registration: 19/10/2020
 or
 Employer name: TCCA ENG Employee No.: N/A
 For and on behalf of contractor: ECH
 Signature: [Signature] Date: 21/11/2018

5.4 INSPECTION AND TESTS. I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct and indicate

☒ (for installation work performed since the publication of this part of SANS 10142), compliance with this standard or

☐ (for an installation that existed before the publication of this part of SANS 10142), that the installation complies with the general safety principles of this standard and is reasonably safe.

The extent of my liability is limited to the installation described in section 3 of this form.


Name of registered person: JARRAD ALLSCOP Registration Certificate No.: IE1546
 (in block letters)
 Type of registration: ☐ Master installation electrician ☒ Installation electrician ☐ Single-phase tester
 Signature: [Signature] Date: 21/11/2018
 Tel. No.: 0215520671

5.5 COMPLIANCE OF INSTALLATION FROM COMMENCEMENT TO COMMISSIONING. (This part is only required in case of a new point of supply which is intended to supply five or more users).
 I, being the person responsible to ensure that the electrical installation, particulars of which are described in section 3 of this form and which is one of five or more installations on the same supply, CERTIFY that the installation was done in accordance with SANS 10142-1.

☐ An Approved inspection Authority for electrical installations Chief Inspectors's Registration No.:
☐ A competent person as defined Indicate competency
☐ A professionally registered person Category of professional registration: Registration No.:

Name (in block letters): Address:
 Signature:
 Date:

Annexure 1
DEPARTMENT OF LABOUR
OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
CERTIFICATE OF COMPLIANCE



Certificate of compliance in accordance with regulation 7(1) of the Electrical Installation Regulations, 2009.

CERTIFICATE NO. ECA1436455

Certificate type (tick appropriate block)
 Initial Certificate ☒ Supplementary Certificate ☐

Supplement No.: N/A to Initial Certificate No.: N/A as issued on: N/A

Identification of the relevant electrical installation
 (Address or other unique reference, where applicable)
 Physical address: Cape Town International Airport
 Name of building: Terminal Building GPS Coordinates: 33.966473, 18.599910
 Suburb / Township: Matroosfontein Pole number: N/A
 District / Town / City: Cape Town Erf / Lot No.: N/A

Declaration by registered person
 I, JARRAD ALLSCOP (ID No.: 8706088039083)
 a registered person, declare that I have personally carried out the inspection and testing of the electrical installation described in the attached test report as per the requirements of:
 (Tick appropriate box)
 a) electrical installation regulations 9(2) (a) (new electrical installation); or ☒
 b) electrical installation regulations 9(2) (b) (existing electrical installation); or ☐
 c) electrical installation regulations 9(2) (c) (new part to existing installation) ☐

and deem the installation to be reasonably safe when properly used.

I have entered the number of this certificate on the attached test report(s).

I declare that the persons responsible for the design, specification, procurement, construction commissioning and inspection and test have completed the relevant sections of the test report.

Registered person registration number: IE1946 Date of registration: 08/04/2009
 Type of registration: (Tick appropriate box)
 Electrical tester for single phase ☐ Installation electrician ☒ Master installation electrician ☐
 Signature: [Signature] Date: 21/11/2018

Contact details of registered person:
 Address: 36 Stella Rd, Montague Gardens, Cape Town
 Tel. No.: 0219820671 Fax No.: 0219820679
 Cell No.: N/A Email: N/A

NOTE: 1. This certificate is not valid unless all the sections have been completed correctly and the test report in the format approved by the chief inspector is attached.
 2. This certificate will be invalid if any corrections have been made.

Declaration by electrical contractor
 I, Marthinus Louw (ID No.: 6702018012086)
 declare that the electrical installation has been carried out in accordance with the requirements of the Occupational Health and Safety Act, 1993, and regulations made thereunder.

Electrical contractor registration number: WCD964 Date of registration: 20/10/2017
 Signature: [Signature]

Contact details of electrical contractor: Name: TCCA Engineering
 Address: PO Box 318 Durbanville, Cape Town
 Tel. No.: 0219820671 Fax No.: 0219820679
 Cell No.: N/A Email: N/A

Recipient name: Signature: Date:



TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)

FOR USE BY ECA MEMBERS ONLY

Certificate of Compliance (CoC) No. 1436198

Date of issue:

Additional pages added ☐ Yes ☒ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.

NOTE 2 This report covers only that part of the installation described in section 3.

NOTE 3 This report covers the circuits for fixed appliances, but does not cover the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.

NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).

NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: N/A

Name of building: N/A

SECTION 2 - INSTALLATION

Existing Certificate ☒ No ☐ Yes Date issued: N/A Number: N/A

☐ Existing installation ☐ Alteration / Extension ☒ New installation ☐ Temporary installation

Type of installation: ☐ Residential ☒ Commercial ☐ Industrial ☐ Common area for multiple users (Sectional title)
☐ Other Describe: N/A

Type of electricity supply system:

☒ TN-S ☐ TN-C-S ☐ TN-C ☐ TT ☐ IT

Supply earth terminal provided: ☒ Yes ☐ No

Characteristics of supply:

Voltage: ☐ 230 V ☒ 400 V ☐ 525 V ☐ Other: N/A V

Number of phases: ☐ One ☐ Two ☒ Three Phase rotation: ☒ Clockwise ☐ Anticlockwise

Frequency: ☒ 50 Hz ☐ Other: N/A d.c.

Prospective short-circuit current at point of control (PSCC): 1,62 kA How determined? ☐ Calculated ☒ Measured ☐ From supplier

Main switch type:

☐ Switch disconnector (on-load isolator) ☐ Fuse switch ☒ Circuit-breaker ☐ Earth leakage circuit-breaker

☐ Earth leakage switch disconnector

Number of poles: 3 Current rating: 150 A Short-circuit/withstand rating: 15 kA

Rated earth leakage tripping current / Δn : ☒ 30 mA ☐ Other: N/A N/A mA

Surge protection (see 6.7.6 and annex i): ☐ Yes ☒ No

Is alternative power supply installed (see 7.12.1)? ☒ Yes ☐ No

Is any part of the installation a specialized electrical installation? ☐ Yes ☒ No
If yes, complete additional test reports (see 8.7).

Is any part of the installation at a voltage above 1 kV?: ☐ Yes ☒ No
If yes, competent person to approve design and complete additional test reports (see 8.5.3 and SANS 10142-2).

Is this installation one of five or more on the same new supply?: ☐ Yes ☒ No

N/A
If yes, name of the competent person who supervised the installation (see 8.1.3). (Insert above)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT

(Add additional pages, specification references or drawings (layout of installation on premises), etc., where applicable)

SDB1 only as per DWA C2891E/LA1/201

NUMBER OF CIRCUITS OR POINTS COVERED BY THIS REPORT

Circuits	Existing installation				New/alterd/temporary installation			
	Main distribution board	Sub-distribution boards			Main distribution board	Sub-distribution boards		
Lighting circuits					2			
Lighting points					16			
Socket-outlet circuits					3			
Socket-outlets					5			
Three-phase socket-outlet circuits					1			
Three-phase socket-outlets					1			
Socket-outlets for critical application circuits					1			
Socket-outlets for critical applications					2			
Mixed circuits (number of)					1			
Motor circuits					1			
Control circuits					1			
Air-conditioning circuits					1			
Motor controlled assembly circuits					1			
Transformer circuits:	Lighting				1			
	Bell				1			
	Other				1			
Heating circuits					1			
Fan circuits					1			
Elevator / escalator circuits					1			
Signage circuits					1			
Fixed appliance circuits:	Cooking				1			
	Geyser				1			
	Pool pump				1			
	Borehole pump				1			
	Other				1			
Earth leakage:	Main Switch				1			
	Only socket-outlets				1			
Overhead busbars					1			
Alternative power supply connections					1			
Other circuits					1			

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Additional tests added ☐ Yes ☐ No ☒ N/A

Inspection	Existing Installation	New / altered / temporary installation
NOTE Answer "Yes" or "N/A". The report shall not be issued if any "No" answers appear.		
1. Accessible components are correctly selected.		YES
2. All protective devices are of correct rating.		YES
3. All protective devices are capable of withstanding the prospective fault level.		YES
4. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load.		YES
5. Components have been correctly installed.		YES
6. Disconnecting devices are correctly located and all switchgear switches the phase conductors.		YES
7. Different circuits are separated electrically.		YES
8. Connection of conductors and earthing and bonding are mechanically sound.		YES
9. Connection of conductors and earthing and bonding are electrically continuous.		YES
10. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled.		YES
11. Where an electrical circuit passes through a fire barrier, the integrity of the fire barrier has been maintained.		YES
12. Safety and emergency lighting and signs are functioning correctly.		YES
13. (a) In the case of new installations or additions or alterations to existing installations, the new, added or altered installation complies with this part of SANS 10142, or (b) In the case of installations that existed before the publication of this edition of SANS 10142, the installation complies with the general safety requirements in this edition of this part of SANS 10142 and is reasonably safe. Note 1 Indicate (a) or (b) or (a) and (b) on the test report. Note 2 Indicate N/A in the case of (a) or (b), where applicable.		N/A
14. Where an alternative supply is installed, it complies with the requirements in respect of connections, change-over switch and indicator.		YES
15. The position of the readily accessible earthing terminal for earth connections of other services by installers of such services (see 6.11.5) indicated on the distribution board (see 6.6.1.21 (e))?		YES

Tests		Readings / Results			
Carry out all the tests for the main distribution board. Also conduct all tests and complete copies of the tests for each distribution board and for each supply (normal and alternative supplies), and attach as annexes to this report.		Units	Instrument	Existing installation	New / altered / temporary installation
1. Continuity of bonding		Ω	MT390		0.11
2. Resistance of earth continuity conductor		Ω	MT390		0.11
3. Continuity of ring circuits (if applicable)		—	N/A		N/A
4. Earth loop impedance test: at main switch		Ω	MT390		0.11
5. Prospective short-circuit current at point of control (PSCC) for sub-distribution boards. Indicate: <u>1.62 kA</u> <input type="checkbox"/> Calculated <input checked="" type="checkbox"/> Measured <input type="checkbox"/> From supplier			MT390		16.42 A
6. Elevated voltage between incoming neutral and external earth (ground)		V	MT390		N/A
7. Earth resistance at electrode (if required)		Ω	N/A		N/A
8. Insulation resistance		M Ω	MT390		N/A
9. Voltage at main distribution board with no load for each phase to neutral		V	MT390	R	Y 241 B 242
10. Voltage at main distribution board with load (as calculated for full load) for each phase to neutral		V	MT390	R	Y 241 B 243
11. Voltage at available load (worst condition as calculated for full load) for each phase to neutral		V	MT390	R	Y 241 B 243
12. Operation of all earth leakage units		mA	MT390		30
13. Operation of all earth leakage test button		—	N/A	correct	correct
14. Polarity of points of consumption		—	MT390	correct	correct
15. Phase rotation at points of consumption for three-phase systems		—	MT390	correct	correct
16. All switching devices, make-and-break circuits		—	N/A	correct	correct