 Eskom	Standard	Security Division
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Title: Locks and keys for use in Eskom
Telecommunications

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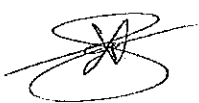
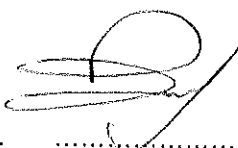
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1. Introduction

The aim of this document is to provide a specification for the use of mechanical locks within the Eskom Telecommunications (ET) environment. The document considers the applied standardization within Eskom Telecommunications relating to locks and keys in light of the current financial constraints experienced by Eskom Holdings SOC Ltd. ET has standardized on Multi-Lock products and has over 2000 locks in circulation and all technicians are issued with 248S+ keys which allows multi access to different locks with the same key thereby reducing the quantity of keys required.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

To provide a technical specification for the supply of mechanical locks for use in Eskom Telecommunications.

2.1.2 Applicability

This standard shall apply throughout Eskom Telecommunications

2.1.3 Effective date

The effective date will be the date when the authoriser signs the document.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] ISO 9001 Quality Management Systems
- [2] Act 85 of 1993, Occupational Health and Safety Act
- [3] Act 56 of 2001, Private Security Industry Regulation Act
- [4] 32-1134 Access Control Policy.

2.2.2 Informative

- [1] ETSP 0830 - Specification for Eskom Telecommunications Locks and Keys
- [2] BS EN 12320: 2012 – Building Hardware – Padlocks & padlock fittings

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[3] BS EN 1303: 2005 – Building Hardware – Cylinders for locks

2.3 Definitions

Not applicable

2.4 Abbreviations

EN – European Standards

ET – Eskom Telecommunications

Mm - Millimetres

2.5 Roles and Responsibilities

2.5.1 **Procurement Officials:** must refer to this standard in their purchasing documents and require that equipment and material offered for purchase meet the requirements of this standard.

2.5.2 **Security Division:** is responsible for the maintenance and upkeep of this standard.

2.5.3 **Security Manager:** is responsible for the development of procedures and performance measures to ensure that the standard is implemented and complied with.

2.6 Process for Monitoring

Eskom processes shall be adhered to. The contractor shall be responsible for the provision of all services and documentation associated with the device.

2.7 Related/Supporting Documents

Not applicable.

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3. Document Content

3.1 FUNCTIONAL REQUIREMENTS

3.1.1 Locks

- a) All Locks to be supplied as specified in the lock descriptions in this document.
- b) Where tenders are unsure samples of the locks shall be presented to them on request..

3.1.2 Keys

- a) ET has standardised on the Interactive© key system offered by Multi-Lock and uses 248S+ keys within the business. All provided locks shall be equipped with the Interactive© cylinders to enable continued use of existing keys within ET.

3.2 Locks

The following locking solutions are recommended:

3.2.1 Sliding Bolt Lock – 12mm Bolt

- a) The selected lock shall be suitable in the application as an extra high security lock.
- b) The lock shall require a 90° key rotation to open.
- c) Materials:
 - o Lock Body – The lock body shall be made of case hardened steel,
 - o Bolt – The bolt shall be made of hardened boron alloy steel
- d) The lock shall have the following anti-tamper features:
 - o The lock shall have a non-key retaining feature, and
 - o Shall have engineered internal drilling protection.
- e) Shall be provided with a protective shutter to prevent dust contamination.
- f) Shall be corrosion resistant
- g) The supplied lock(s) shall be fitted with the Interactive© Cylinder platform and utilise the Key-Alike cylinder option.
- h) The selected lock shall comply with the Grade 5 requirements of the EN12320 standard.

3.2.2 Sliding Bolt Lock (Cased) – 12.7mm Bolt

- a) The selected lock shall be suitable in the application as an extra high security lock.
- b) The lock shall require a 55° key rotation to open.
- c) The bolt shall be spring loaded for release.
- d) Materials:

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- Shell – Shall be made of hardened steel
- Core – Shall be made of black plated solid brass,
- Bolt – Shall be made of hardened boron alloy steel
- e) The lock shall have the following anti-tamper features:
 - The lock shall have a non-key retaining feature, and
 - Shall have engineered internal drilling protection.
- f) Shall be provided with a protective shutter to prevent dust contamination.
- g) Shall be corrosion resistant
- h) The supplied lock(s) shall be fitted with the Interactive© Cylinder platform and utilise the Key-Alike cylinder option.
- i) The selected lock shall comply with the Grade 4 requirements of the EN12320 standard.

3.2.3 Padlocks – 8mm Shackles (Open shackle)

- a) The selected lock shall be suitable in the application as a high security lock.
- b) The shackles shall be 8mm in diameter.
- c) The lock shall require a 90° key rotation to open.
- d) Materials:
 - Lock Body – The lock body shall be made of steel,
 - Bolt – The bolt shall be made of hardened boron alloy steel
- e) The lock shall have the following anti-tamper features:
 - The lock shall have a key retaining feature, and
- f) The supplied lock(s) shall be fitted with the Interactive© Cylinder platform and utilise the Key-Alike cylinder option.
- g) The selected lock shall comply with the Grade 3 requirements of the EN12320 standard.

3.2.4 Padlocks – 10mm Shackles (Open shackle)

- a) The selected lock shall be suitable in the application as a high security lock.
- b) The shackles shall be 10mm in diameter..
- c) The lock shall require a 60° key rotation to open.
- d) Materials:
 - Lock Body – The lock body shall be made of case hardened steel,
 - Bolt – The bolt shall be made of hardened boron alloy steel
- e) The lock shall have the following anti-tamper features:
 - The lock shall have a key retaining feature, and

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- f) The supplied lock(s) shall be fitted with the Interactive© Cylinder platform and utilise the Key-Alike cylinder option.
- g) The selected lock shall comply with the Grade 4 requirements of the EN12320 standard.

3.2.5 Padlocks – 10mm Shackles (Closed shackle)

- a) The selected lock shall be suitable in the application as a high security lock.
- b) The shackles shall be 10mm in diameter..
- c) The lock shall require a 60° key rotation to open.
- d) Materials:
 - o Lock Body – The lock body shall be made of case hardened steel,
 - o Bolt – The bolt shall be made of hardened boron alloy steel
- e) The lock shall have the following anti-tamper features:
 - o The lock shall have a key retaining feature, and
- f) The supplied lock(s) shall be fitted with the Interactive© Cylinder platform and utilise the Key-Alike cylinder option.
- g) The selected lock shall comply with the Grade 4 requirements of the EN12320 standard.

3.2.6 Cylinders – Euro Cylinder

- a) The selected lock shall be suitable in the application as a double cylinder lock.
- b) The lock shall require a 360° key rotation to open.
- c) Materials:
 - o Lock Body – Solid brass,
 - o Cam – Solid steel,
 - o Pins – Nickle silver or stainless steel.
- d) The lock shall have the following anti-tamper features:
 - o The lock shall have a key retaining feature.
- e) The supplied lock(s) shall be fitted with the Interactive© Cylinder platform and utilise the Key-Alike cylinder option.

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3.3 MAINTENANCE

3.3.1 The unit must be of a low maintenance type and must require minimum future service.

3.3.2 Cylinder modules must be easily exchangeable.

3.3.3 Spare parts must be locally stocked and availability thereof must be guaranteed for a 5 (five) year period starting from date of first order delivery.

3.4 GUARANTEES, WARRANTY AND SERVICE

3.4.1 The supplier shall guarantee the complete unit for a period of 12 (twelve) months from date of delivery.

3.4.2 The successful tenderer shall, during the period of guarantee, repair the unit to the satisfaction of Eskom within 7 days after being notified that the unit is not operating.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
J Manyisa	Senior Manager, Eskom Telecommunications
M Ganesan	Risk Manager, Eskom Telecommunications
B Nala	Engineering Manager, Eskom Telecommunications

5. Revisions

Date	Rev.	Compiler	Remarks
October 2018	0	GE Jordaan	Document developed for business purposes

6. Development Team

The following people were involved in the development of this document:

- Security Solutions (Physical)
- Vossie Smit, Eskom Telecommunications

7. Acknowledgements

None

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