



A Division of Transnet SOC Limited

INFRASTRUCTURE ENGINEERING

PROCUREMENT SPECIFICATION

Specification of Flat Endless Slings for rail engineering use.

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1. Scope

- 1.1 This specification covers the requirements for the supply of a safe endless sling.
- 1.2 The slings covered by this specification are intended for general purpose lifting operations, i.e. when used for lifting objects, materials or goods which require no deviations from the requirements, safety factors or safe working load limit's specified.
- 1.3 All slings required shall be delivered to the depot as will be stipulated on the contract for this procurement process.
- 1.4 Tenderers are requested to read this specification and related documents as highlighted in the specification.
- 1.5 Tenderers must submit the complete specification for products on offer at the tendering stage.

2. Technical Requirements

- 2.1. The design and construction of the endless sling must conform to the requirements stipulated in clause 5 of SANS 94 part 1&2/EN 1492-2:2000 latest document.
- 2.2. The material that must be used for design and construction of slings is polyester
- 2.3. The safe working load for both sling types shall be 25 tonne.
- 2.4. The minimum thickness for both slings shall be 3mm.
- 2.5. A safety factor of 7:1 is required for all slings to be supplied in line with this specification.
- 2.6. Dimensions shall be:

Description for 15m sling	Parameters (mm)
Effective Length	15000
Sling Width	150
Eye size	500
Consolidated sleeve length	14000

Description for 3m sling	Parameters (mm)
Effective Length	3000
Sling Width	130-150
Eye size	500
Consolidated sleeve length	2000

- 2.7. Length shall be pull to pull.
- 2.8. Both eyes shall have a lay flat protection.
- 2.9. The colour of all slings shall be orange

3. Environmental Conditions

- 3.1. The endless sling required shall be used in all weather conditions having altitudes varying from sea level to 1850m above sea level, relative humidity 0% to 90% and atmospheric conditions which vary from heavily saline to dry and dusty.
- 3.2. Ambient air temperatures ranging from -5° C to 50° C.
- 3.3. The supply of slings conforming to this specification must be suitable for use and storage in the temperature ranges -40°C to 100°C of polyester,

4. Qualification Requirements

- 4.1. It is the responsibility of the supplier to ensure that the all design, construction, testing and examination of the slings are carried out by a competent person.
- 4.2. The design of the slings required must be that of the manufacturer, it must be of robust construction in order to meet sustained operational duty demands, yet they must be light and easy for effective and safe use.
- 4.3. The slings will be acceptable in standard factory production finish and colour. Details to be furnished.

5. Performance Requirements

- 5.1. The actual design of the slings required shall have the capacities as stated in this specification.
- 5.2. The slings must be easily and economically maintained/repared with standard workshop tools and equipment when necessary.

6. Quality Standards Required

- 6.1 It is the responsibility of the supplier to ensure that the quality and the manufacturers test regime conforms to ISO 9001:2008
- 6.2 The requirements for marking and that of the manufacturers certificate must be in accordance with SANS 94-2 latest document.

7. Legal and Operational Requirements

- 7.1. Each sling must have individual serial number

- 7.2. Details of sling to appear on tag and steel washer.
- 7.3. An additional steel washer to be fitted for the asset number.
- 7.4. A certificate of conformance covering the sling eyes must be issued per sling.
- 7.5. Compliance to SANS 94-1&2/EN 1492-2:2000 latest document.
- 7.6. It is the responsibility of the supplier to ensure that all safety regulation processes and legislation concerning the manufacturing of the flat endless sling has been adhered to accordingly.