

	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED Lifting Inspection	Doc No: QC-LIF-P-008
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Title: Inspection Procedure of Synthetic Round Slings		Rev: 2
Established By: Ashraf Elsaid	Position: Lifting Supervisor	Date: JULY-2022
Approved By: Ahmed Mohamed	Position: Operation Manager	

Inspection Procedure of Synthetic Round Slings

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1. YOUR SAFETY IS FIRST:

Your safety wear is mandatory at job sites including in general: suit, shoes, helmet, gloves, ear plugs, glasses, and mask.

2. SCOPE:

This procedure covers the inspection and testing of man-made (synthetic) round slings.

3. PRODUCT/ MANUFACTURE STANDARDS:

BS EN 1492- 2: 2000 + A1: 2008	<i>Textile Slings – Safety – Part 2: Round Slings, Man-Made Fibres, for General Purpose Use</i>
B30.9 - 2018	Slings

4. ROUND SLINGS:

A roundsling is an endless flexible sling consisting of a loadbearing core of yarn, completely enclosed in a woven cover, with or without fittings



5. INSPECTION AND TESTING OF ROUND SLINGS:

5.1- INSPECTION AND TESTING OF NEW ROUND SLINGS:

- All round slings shall be proof load tested by the sling manufacturer with written records kept of such testing.
- Client shall provide the manufacturer's test certificate at the time of inspection.
- If the record of test by the manufacturer is not available with the user, round slings shall be proof load tested as per (7. PROOF LOAD TEST).

5.2- INSPECTION AND TESTING OF IN-SERVICE ROUND SLINGS:

- In-service round slings shall be visually inspected as per (6. INSPECTION OF IN-SERVICE ROUND SLINGS).
- If the record of test by the manufacturer / inspection body is not available with the user or round sling is repaired as per the manufacturer's recommendations, round slings shall be proof load tested as per (7. PROOF LOAD TEST).

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INSPECTION OF IN-SERVICE ROUND SLINGS:

Examination periods should be determined by a competent person, taking into account the application, environment, frequency of use and similar matters, but in any event, slings should be visually examined at intervals not exceeding **six months** by a competent person to establish their fitness for continued use.

Before first use of the sling it should be ensured that:

- a) the sling corresponds precisely to that specified on the order;
- b) the manufacturer's certificate is to hand;
- c) the identification and WLL marked on the sling correspond with the information on the certificate.

Before each use, the sling should be inspected for defects and to ensure that the identification and specification are correct. A sling that is unidentified or defective should never be used, but should be referred to a competent person for examination.

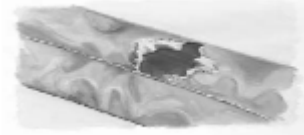
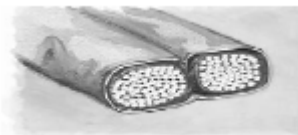
During the period of use, frequent checks should be made for defects or damage, these checks should extend to any fittings and lifting accessories used in association with the sling. If any doubt exists as to the fitness for use, or if any of the required markings have been lost or become illegible, the sling should be removed from service for examination by a competent person.

Any damage evident in the cover indicates potential damage to the load bearing core. The following are examples of defects or damage likely to affect the fitness of slings for continued safe use:

- a) Surface chafe on the surface fibres of the cover: Normal and has little effect, any substantial chafe, particularly localized, should be viewed critically.
- b) Cuts: Cross or longitudinal cuts in the cover, or any damage to the stitching.
- c) Exposed core.
- d) Chemical attack.
- d) Heat or friction damage.
- e) Damaged or deformed fittings.

A sling shall be removed from service if damaged such as the following is visible:

- Melting or charring of any part of the sling or fittings.
- Holes, tears, cuts, abrasive wear, or snags that expose the core yarn.
- Broken or worn stitching in the cover which that expose the core yarn.
- Fittings when damaged, stretched, cracked, worn, pitted, and distorted.
- Knots in any part of the sling.
- Other conditions including visible damage that cause doubt as to the continued use of the round sling.
- Missing or Illegible marking.



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6. PROOF LOAD TEST:

- The manufacturer shall retain a record of the results of all tests and examinations for inspection and reference purposes.
- If the record of test by the manufacturer is not available, only then the roundslings shall be proof load tested prior to initial use and the user shall maintain the record.
- The proof load of roundslings shall be $(2 \times WLL)$.
- The proof load for multiple leg slings shall be applied to individual legs and shall be $(2 \times WLL)$ of single leg sling.
- The slings shall sustain the load without any deformation
- The slings are post-test thoroughly examined as per (6- INSPECTION OF IN-SERVICE ROUND SLINGS)

7. REPAIRS:

- Slings shall be repaired only by a sling manufacturer or a qualified person. When a sling is repaired, it shall be marked to identify the repairing agent.
- Temporary repairs of the round sling cover, fittings, or stitching shall not be permitted.
- Repaired slings shall be proof load tested before being put into service.

8. MARKING:

• GENERAL:

The marking of the round sling shall include the following:

- a) the working load limit, in straight pull;
- b) the material of the round sling, i.e. polyester, polyamide, polypropylene;
- c) grade of fitting;
- d) the nominal length in m;
- e) the manufacturer's name, symbol, trade mark or other unambiguous identification;
- f) the traceability code: The traceability code shall enable at least the following basic elements of the manufacturing record to be traced:
 - identification of the core and cover material.
 - identification of manufacturer's control.
 - identification and grade of fittings.
- g) the number and relevant part of this European Standard.

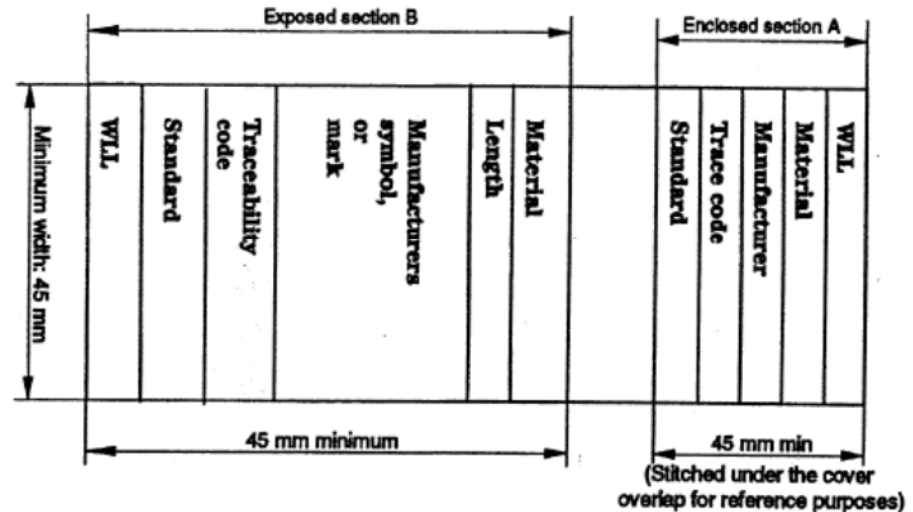
• LABEL:

The information shall be marked both legibly and indelibly, on a durable label fixed directly onto the round sling.

The material from which the round sling is made shall be identified by the color of the label itself on which information is marked

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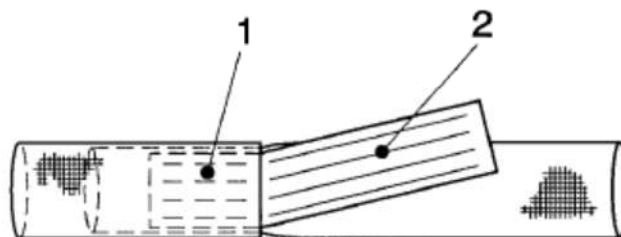
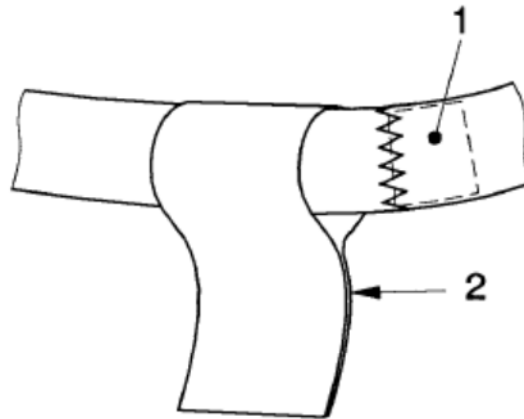
The following figure shows a typical label.



Working Load Limits			
Straight lift	Choked	Basket parallel	Basket (0 to 45°)
			
1t	800 kg	2t	1,4t

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The following figure shows the typical methods of attachment of the label.



Key

- 1 Exposed section B
- 2 Enclosed section A

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- **MARKING OF MULTI-LEG SLING ASSEMBLIES:**

The following requirements shall apply to 2 leg, 3 leg or 4 leg sling assemblies:

- a) the marking shall be on a readily-identifiable form of durable label which shall be attached to the master link to differentiate from other sling types;
- b) the marking of the sling assembly shall include the maximum angle of use of any leg to the vertical;
- c) the label on each leg shall not show the WLL.

If the item is not already marked, it shall be clearly marked (labelled) with an identification number and if the test is satisfactory, the WLL and date of the test.

9. REPORTING AND CERTIFICATION:

A certificate of test and thorough examination will be issued upon the satisfactory completion of the examination, i.e. the lifting equipment is safe to operate

A defect report will be issued if the lifting equipment fails to meet the requirements.

10. Inspector Competency and Qualification:

Inspector shall have minimum qualification of LEEA Foundation – LEEA Lifting Equipment General