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ISO/PRF 18824

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Foreword

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This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

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Ships and marine technology — Ship's mooring and towing fittings — Horizontal roller fairleads

1 Scope

This document specifies the design, size and technical requirements for horizontal roller fairleads installed to brace the mooring rope over other obstacle fittings.

This document is applicable to the design, manufacture and inspection of horizontal roller fairleads.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at <u>https://www.electropedia.org/</u>

3.1

safe working load

SWL

maximum load applied on the rope in service conditions 8824

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Note 1 to entry: The SWL is expressed in tonnes (1 t = 9,8kN).
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3.2

horizontal roller fairlead

type of mooring fitting installed on board a ship to brace the mooring rope over other obstacle fittings

4 Nominal sizes

The nominal sizes, D_n , of horizontal roller fairleads are denoted by reference to the nominal diameter. The length, L, of horizontal roller fairleads are expressed in millimetres.

The typical nominal sizes, defined together as $D_n \times L$, are expressed in millimetres:

200 × 600, 200 × 800, 250 × 800, 250 × 1 000, 250 × 1 200.

5 Structure and dimension

Figure 1 shows the structure and dimension of horizontal roller fairleads. Table 1 shows the main parameters of horizontal roller fairleads.

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Dimensions in mm



A-A



Key

- 1 roller
- 2 retainer ring
- 3 axle
- 4 bush
- 5 bearing
- 6 grease nipple
- B_1 width of bearing seat (upper)
- *B*₂ width of foundation (upper)
- *L* length of roller (net)
- L_1 length of axle (total)
- *L*₂ length of foundation (inside)
- *t* thickness of roller (tube)

- 7 bearing seat
- 8 foundation
- 9 bolts (4 × M24)
- 10 end cover (with gasket)
- 11 SWL marking
- D nominal size
- D_1 diameter of roller (tube)
- *D*₂ diameter of roller (dam-plate)
- D_3 diameter of axle
- *D*⁴ diameter of bearing
- *H* height of the centre of roller with foundation
- *h* height of the centre of roller

Figure 1 — Horizontal roller fairleads