

SLOVENSKI STANDARD SIST EN 15272-2:2007

01-maj-2007

D`cj]`UnUWY]bg_YjcXY!'JcX]`c`nUjfj'!'&"XY.'CVfU Ub]''_c`i h

Inland navigation vessels - Equipment for rope leading - Part 2: Fairlead

Fahrzeuge der Binnenschifffahrt - Ausrüstung zur Seilführung - Teil 2: Umlenkrolle

Bateaux de navigation intérieure Equipement de guidage de câble - Partie 2: Chaumard a rouleaux

(standards.iteh.ai)

Ta slovenski standard je istoveten z: EN 15272-2:2007

<u>SIST EN 15272-2;2007</u>

https://standards.iteh.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-

1db84516984b/sist-en-15272-2-2007

ICS:

47.020.50 Palubna oprema ter naprave Deck equipment and

installations

SIST EN 15272-2:2007 en

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 15272-2:2007

https://standards.iteh.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-1db84516984b/sist-en-15272-2-2007

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2007

EN 15272-2

ICS 47.020.50; 47.060

English Version

Inland navigation vessels - Equipment for rope leading - Part 2: Fairlead

Bateaux de navigation intérieure - Equipement de guidage de câble - Partie 2: Chaumard à rouleaux

Fahrzeuge der Binnenschifffahrt - Ausrüstung zur Seilführung - Teil 2: Umlenkrolle

This European Standard was approved by CEN on 3 February 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Iteland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

SIST EN 15272-2:2007

https://standards.iteh.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-1db84516984b/sist-en-15272-2-2007



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents Page Foreword 4 Normative references5 2 Safety requirements6 4.1 Dimensions......6 4.2 4.3 Material7 4.4 4.5 Shaft bearing7 4.6 Fixing holes 7 5.1 5.2 Designation8 Designation of a fairlead8 6.1 6.2 Designation of a bush8 7 Marking8 8 Manufacturer's certificate8 Annex A (informative) Component parts of a fairlead made of cast steel......9 Materials Component parts ITEN STANDARD PREVIEW 10 **A.1 A.2** A.2.1 Shaft (standards itah ai) 12 A 2 2 A.2.3 A.2.4 Washer SIST FN 15272-2:2007 14 A.2.5 Annex B (informative) Example https://standards.itch.ai/catalog/standards/sist/a26b21a6-a6ca-4d80-b085 **B.1 Figures** Figure 1 — Fairlead.......6 Figure A.2 — Roller, item 1, only for nominal size 1.......11

Figure A.6 — Washer, item 5	14
Figure B.1 — Fairlead on deck	15
Tables	
Table 1 — Main dimensions	7
Table A.1 — Materials	9
Table A.2 — Dimensions for roller (cast)	11
Table A.3 — Shaft dimensions	12
Table A.4 — Dimensions for bushes and washer	14

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 15272-2:2007</u> https://standards.iteh.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-1db84516984b/sist-en-15272-2-2007

Foreword

This document (EN 15272-2:2007) has been prepared by Technical Committee CEN/TC 15 "Inland navigation vessels", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2007, and conflicting national standards shall be withdrawn at the latest by September 2007.

prEN 15272 Inland navigation vessels — Equipment for rope leading consists of:

- Part 1: General requirements
- Part 2: Fairlead
- Part 3: Roller fairleads
- Part 4: Rope lead

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 15272-2:2007

https://standards.iteh.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-1db84516984b/sist-en-15272-2-2007

1 Scope

This European Standard specifies requirements for fairleads on inland navigation vessels. It applies to fairleads for guiding ropes perpendicularly to the fairlead shaft.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies

EN 13573:2001, Inland navigation vessels — Anchoring, coupling, towing, hauling and mooring systems

prEN 15272-1, Inland navigation vessels — Equipment for rope leading — Part 1: General requirements

EN ISO 1302, Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation (ISO 1302:2002)

ISO 2768-1, General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indication

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13573:2001 and the following apply.

3.1
fairlead
pedestal unit fairlead
fairlead washer
pulley with concave guide for reversing ropes

(standards.iteh.ai)

<u>SIST EN 15272-2:2007</u> https://standards.iteh.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-1db84516984b/sist-en-15272-2-2007

Safety requirements

Dimensions

Dimensions in millimetres

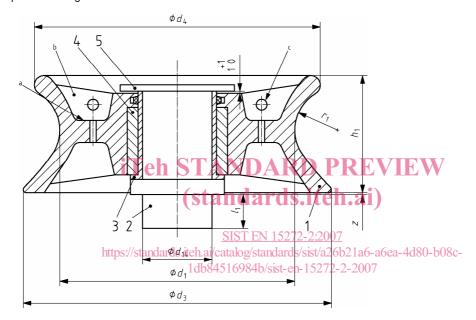
For general tolerances ISO 2768- - accuracy grade m shall apply.

Surface data shall be according to EN ISO 1302.

Fairleads shall have no sharp edges or burr.

Edges shall be rounded and have a radius R of at least 2 mm.

Details not given need not comply with the illustration given here; compliance is only required for the dimensions and specifications given in clauses 4 to 7.



Key

- 1 Roller
- 2 Shaft
- 3 Bush for shaft
- 4 Bush for roller
- 5 Washer

 a Marking
- ^b Rib ^c Fixing holes

Figure 1 — Fairlead

Table 1 — Main dimensions

Nominal size	d_1	d_3	d_4	d ₁₄ н7	h_1	r_1	S
	mm	mm	mm	mm	mm	mm	mm
1	160	210	195	60	80	25	1,5
2	200	265	245	70	102	32	2,5
3	250	330	300	85	126	42	2,5
5	320	420	390	106	160	55	2,5
8	400	530	490	125	208	73	2,5

4.2 Strength

The fairlead, its component parts and the fairlead fastening to the vessel shall withstand the basic test load as specified in prEN 15272-1 without any permanent deformation.

All materials are permitted that meet the strength requirements specified in 4.2 except grey cast iron.

Plastics shall be UV-resistant.

4.4 Corrosion protection

Components susceptible to corrosion shall be permanently protected.

4.5 Shaft bearing

The materials of the bearing shells shall be compatible with each other.

The shaft bearings shall either be maintenance-free or capable of being lubricated.

4.6 Fixing holes

(standards.iteh.ai)

In the case of rollers of nominal size 3 to 8, fixing holes shall be provided at the top of two ribs located opposite each other for connecting shackles. https://standards.itch.ai/catalog/standards/sist/a26b21a6-a6ea-4d80-b08c-

1db84516984b/sist-en-15272-2-2007

Test methods

5.1 General

The strength of the components can be proven by calculation or by testing.

5.2 Testing

For the test, a rope is laid in a U-shape around the fairlead with the rope ends horizontal, i.e. perpendicular to the shaft.

The tensile load of 1,25 times the minimum breaking load according to prEN 15272-1 shall be applied to both ends of the basic rope for 60 s. The load is applied 50 times.

None of the fairlead components shall have undergone any permanent deformation and all of them shall be fully functional.