
International Standard



4127/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Shipbuilding — Inland vessels — Fairleads — Part 2 : Roller fairleads

Construction navale — Bateaux de navigation intérieure — Chaumards — Partie 2 : Chaumards à rouleaux

First edition — 1980-06-15

Sample Document

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UDC 621.122.014.24

Ref. No. ISO 4127/2-1980 (E)

Descriptors : shipbuilding, inland navigation, fairleaders, specifications, dimensions.

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4127/2 was developed by Technical Committee ISO/TC 8, *Shipbuilding*, and was circulated to the member bodies in November 1978.

It has been approved by the member bodies of the following countries :

Australia	France	Poland
Austria	India	Romania
Belgium	Ireland	Turkey
Bulgaria	Italy	United Kingdom
Chile	Japan	USSR
China	Korea, Dem. P. Rep. of	Yugoslavia
Czechoslovakia	Korea, Rep. of	

The member body of the following country expressed disapproval of the document on technical grounds :

Germany, F.R.

Shipbuilding — Inland vessels — Fairleads — Part 2 : Roller fairleads

1 Scope and field of application

This International Standard specifies the types, kinds, basic parameters of and technical requirements for roller fairleads for inland vessels.

2 Classification

2.1 Types

This International Standard specifies the two following types of fairleads :

Z : common roller fairlead

R : fairlead with a collapsible roller

2.2 Method of securing

This International Standard specifies two methods of securing roller fairleads :

P : for bolting (see left hand side of figures 1 and 2);

S : for welding (see right hand side of figures 1 and 2).

2.3 Nominal sizes

The nominal diameter of a roller is the nominal size of roller fairleads, in millimetres.

The nominal sizes are as follows :

Type Z : 80, 100, 150

Type R : 80, 100, 125, 150

3 Dimensions and loading

3.1 The main dimensions and loadings of a roller fairlead are given in the figures and tables 1 and 2.

3.2 The maximum loading values are given in the tables of dimensions. In compliance with the nominal sizes, the maximum diameter of steel and fibre rope is given. The basic loadings are : 75, 125, 220 kN.

4 Materials

The following materials shall be used for manufacturing the fairleads :

Body : weldable steel having a yield point of 25×10^4 kN/m² (25 kgf/mm²).

Roller : cast steel, or malleable cast iron having a yield point of 24×10^4 kN/m² (24 kgf/mm²).

Bolt and axle : steel having a yield point of 36×10^4 kN/m² (36 kgf/mm²).

Bush : bronze.

5 Construction

The construction of roller fairleads and the method of welding parts shall be in accordance with the provisions of this International Standard.

6 Finish

6.1 The body shall be welded, with blunted edges and polished welds.

6.2 The rollers shall be cleaned castings, with smooth working surfaces.

6.3 The bolt and socket shall be manufactured according to national standards.