
International Standard 8148

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

Shipbuilding and marine structures — Derrick boom headfittings — Fixed type

Construction navale et structures maritimes — Ferrures de tête de corne de charge — Type fixe

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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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8148 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

Shipbuilding and marine structures — Derrick boom headfittings — Fixed type

1 Scope and field of application

This International Standard specifies dimensions and materials for fixed type headfittings on ships' derrick booms for cargo handling purposes. Guidance information on the positioning of the guy eyeplate (eyeplate according to ISO 8146) on the derrick boom is given in the annex.

2 References

ISO/R 286, *ISO system of limits and fits — Part 1: General, tolerances and deviations*.

ISO 630, *Structural steels*.

ISO 8146, *Shipbuilding and marine structures — Oval eyeplates*.

ISO 8147, *Shipbuilding — Ships' lifting gear — Terminology*.¹⁾

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 8147 apply.

4 Classification

4.1 Types

Fixed type derrick boom headfittings are divided into the following two types:

- type A: with oval eye in the cargo end *parallel* to the cargo boom;
- type B: with oval eye in the cargo end *oblique* to the cargo boom.

4.2 Nominal sizes

The nominal size designation for the cargo end and for the span end of a cargo-span headfitting plate is a numerical value without unit for reference and ordering purposes, and is derived from the permissible load in kilonewtons.

4.2.1 Preferred nominal sizes

The preferred nominal sizes are intended only where a rationalized range of headfitting plates is required.

NOTE — The preferred sizes appear in bold-face type in table 1.

5 Materials

Steel according to ISO 630, grade Fe 360 (as minimum quality).

NOTE — Alternatively ship quality steel plate may be used provided that it has equivalent mechanical and welding properties.

6 Manufacture

6.1 Forming

The headfitting shall be formed by a gas cutting process and subsequently forged or machined as necessary in order to produce the required finished section shape.

Care shall be taken to ensure that a smooth transition is made between the sections.

The headfitting may be manufactured of two single parts (span end and cargo end) which shall be welded to one common component before mounting.

1) At present at the stage of draft proposal.