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Ships and marine technology — Ship's mooring and towing fittings — Closed chocks

Navires et technologie maritime — Corps-morts et ferrures de remorquage de navires — Chaumards fermés

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Foreword

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

The committee responsible for this document is Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

This second edition cancels and replaces the first edition (ISO 13729:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

— technical guidelines have been added in 7.2and 7.3;

— the definition of SWL (3.1) has been reworded;

— the extension lines and dimension line in Figures 1 and 2 have been amended;

— technical information on FEM has been added in A.3.2.

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 www.iso.org/members.html.

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Introduction

The closed chock is a type of ship's mooring and towing fitting installed on the shipside to lead the mooring and towing rope from the ship's inboard to outboard.

The closed chocks are normally adopted for ships which use wire ropes. The radius of chock surface was designed based on the bending ratio of rope through the chock of not less than twelve times the wire rope diameter.

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Ships and marine technology — Ship's mooring and towing fittings — Closed chocks

1 Scope

This document specifies the types, nominal sizes, dimensions and materials, as well as construction, manufacturing and marking requirements, for closed chocks installed to lead the mooring and towing rope of a ship.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IMO Circular MSC/Circ.1175, *Guidance on shipboard towing and mooring equipment*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
safe working load
SWL
safe load limit (maximum permissible load) of the fittings used for mooring and towing

4 Classification

4.1 Type

The closed chock shall be classified by its installation site as belonging to one of the following types:

a) Type A: deck-mounted closed chock;

b) Type B: bulwark-mounted closed chock.

4.2 Nominal sizes

The nominal sizes, $L \times H \times D$, of closed chocks are denoted by reference to the width and height of the opening and the depth of the chock, in millimetres. For the closed chocks having the same size, the letter of the alphabet, i.e. A or B, is followed by the nominal size for the different SWL.

The nominal sizes are:

250 × 200 × 214, 300 × 250 × 286, 350 × 250 × 333, 400 × 250 × 381, 450 × 250 × 381, 500 × 250 × 381, 400 × 250 × 428, 450 × 250 × 428, 500 × 250 × 428, 500 × 400 × 428, 500 × 250 × 525A, 500 × 400 × 525A, 500 × 250 × 525B, 500 × 400 × 525B

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