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

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

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Contents

Page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13776 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

Introduction

The pedestal fairlead is a type of ship's mooring fitting installed on board to lead and change the direction of mooring ropes.

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

1 Scope

This International Standard specifies the design, size and technical requirements for pedestal fairleads installed to lead the mooring rope of a ship.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 13755, *Ships and marine technology — Ship's mooring and towing fittings — Steel rollers*

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.

3.1
safe working load
SWL
maximum load in kN on the rope that should normally be applied in service conditions

4 Nominal sizes

The nominal sizes, D_n, of pedestal fairleads are denoted by reference to the outside diameter of the roller in millimetres from a basic series of preferred numbers.

The nominal sizes are: 150, 200, 250, 300, 350, 400, 450 and 500.

5 Dimensions

Pedestal fairleads have dimensions and particulars in accordance with Table 1, and Figures 1 and 2.

6 Materials

The following material shall be used for manufacturing the pedestal fairleads:

— Pedestal: weldable steel plates having a yield point of not less than 235 N/mm^2.

7 Manufacturing and inspection

7.1 All surfaces of the pedestal fairleads, including welding, shall be free from any visible flaws or imperfections.

7.2 All surfaces in contact with the ropes shall be free from surface roughness or irregularities likely to cause damage to the ropes by abrasion.

7.3 The pedestal fairleads shall be coated externally with an anti-corrosion protective finish.

8 Marking

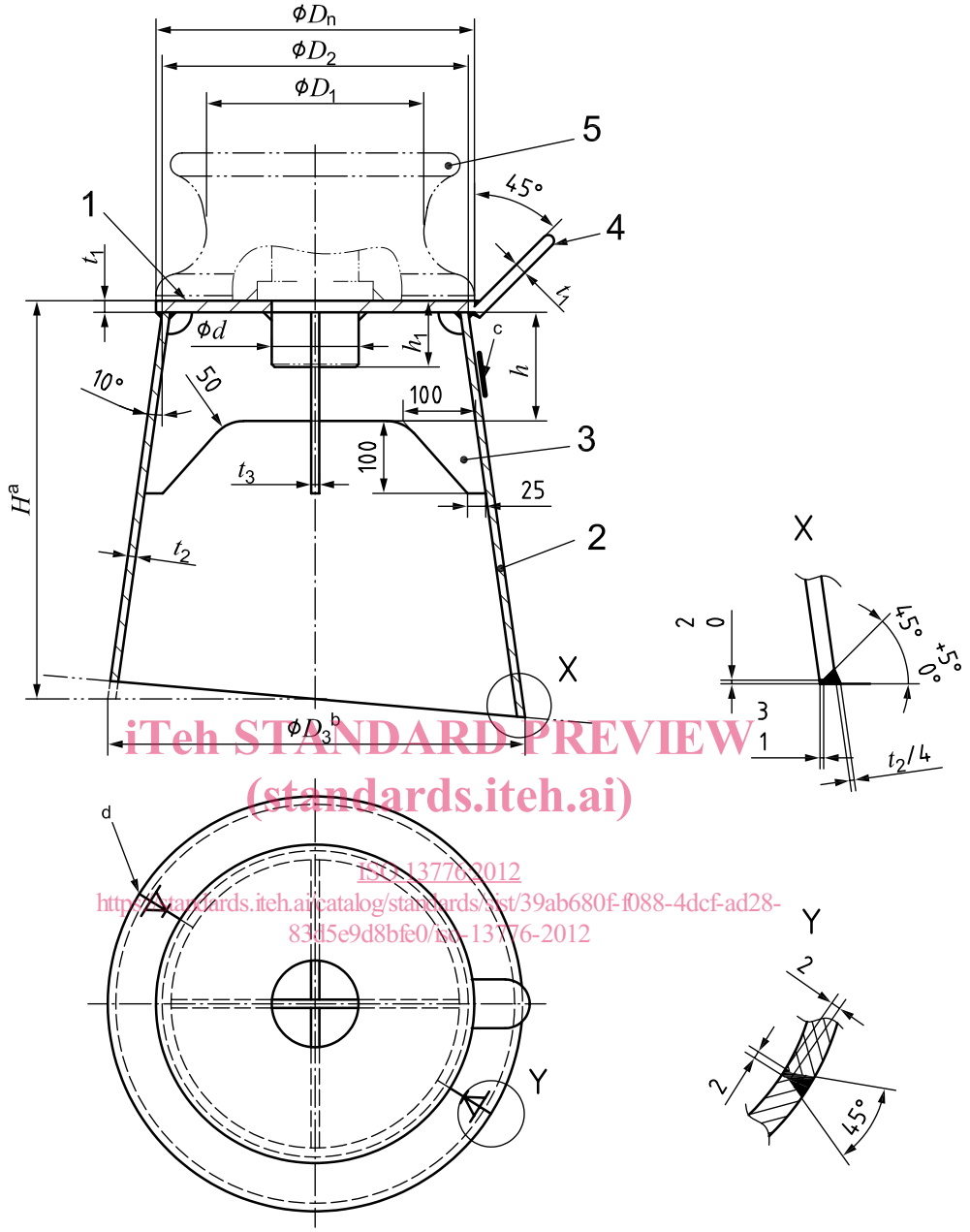
8.1 The safe working load (SWL) intended for the use of the pedestal fairleads shall be noted in the towing and mooring plan available on board for the guidance of the shipmaster as specified in MSC/Circ.1175.

8.2 The actual SWL on board shall be determined by considering the under deck reinforcement, and shall be marked on the towing and mooring plan. The actual SWL shall not be over the SWL indicated in this International Standard.

8.3 The pedestal fairleads shall be clearly marked with their SWL by weld bead or equivalent. The SWL shall be expressed in tonnes (letter 't') and be placed so that it is not obscured during operation of the fitting.

EXAMPLE SWL XXX t

Dimensions in millimetres



Key

1 top plate
2 body
3 reinforcement
4 rope guide
5 steel roller (ISO 13755 steel rollers)

a Height is to be determined in accordance with actual mooring rope height through the pedestal fairlead.
b Diameter Ø D_3 is to be calculated depending on the height of the pedestal , H [$D_3 = D_2 + 2 \times (H - t_1)$ x tan 10°].
c SWL marking.
d Seam.

Figure 1 — Assembly of pedestal fairleads