INTERNATIONAL STANDARD

First edition 2012-07-01

Ships and marine technology — Ship's mooring and towing fittings — Cruciform bollards

res et i orquage l Navires et technologie maritime — Corps-morts et ferrures de



Reference number ISO 13797:2012(E)



© ISO 2012

<text> All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

Case postale 56 • CH-1211 Geneva 20 . Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org

Published in Switzerland

Page

Contents

Fore	word	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification	1
4.1 4 2	Type Nominal sizes	1 1
5	Dimensions	
6	Materials	
7	Construction	
8	Manufacturing and inspection	
9	Marking	2
Anne	ex A (informative) Basis for strength assessment of cruciform bollards	5
Biblie	iography	7
	Provide and the second se	

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 13797 was prepared by Technical Committee ISO/TC 8, Ships and marine technology, Subcommittee m So B Drokiew Concerned with the Concerned of the Concer SC 4, Outfitting and deck machinery.

Ships and marine technology — Ship's mooring and towing fittings — Cruciform bollards

1 Scope

This International Standard specifies the design, size and technical requirements for cruciform bollards suitable for installation on sea-going vessels to meet normal mooring and towing requirements.

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.

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 Classification

4.1 Type

Depending on the manufacturing method, cruciform bollards shall be classified as the following two types:

- Type A manufactured by steel pipes;
- Type B manufactured by steel plates.

4.2 Nominal sizes

The nominal sizes, D_n , of cruciform bollards are denoted by reference to the outside diameter of the main post in millimetres, in terms of the nearest number drawn from a basic series of preferred numbers.

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

5 Dimensions

Cruciform bollards have dimensions and particulars in accordance with Table 1 and Figure 1

6 Materials

The materials of the following components shall be used for manufacturing the cruciform bollards:

Plates: weldable steel plates having a yield point of not less than 235 N/mm².