



SLOVENSKI STANDARD
oSIST prEN 17360:2019
01-april-2019

Plovila za celinske vode - Oporni drogovi in držala za nagibne in odstranljive palubne ograje

Inland navigation vessels - Stanchions and holders for tiltable and detachable railings

Fahrzeuge der Binnenschifffahrt - Stützen und Halter für umlegbare und losnehmbare Geländer

Bateaux de navigation intérieure - Chandeliers et supports pour garde-corps rabattables et démontables

<https://standards.iteh.ai/catalog/standards/sist/0bb44be5-8676-409d-a4f8-d78ca248b67d/sist-en-17360-2020>

Ta slovenski standard je istoveten z: prEN 17360

ICS:

47.020.10	Ladijski trupi in njihovi konstrukcijski elementi	Hulls and their structure elements
47.060	Jezerska in rečna plovila	Inland navigation vessels

oSIST prEN 17360:2019

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 17360

February 2019

ICS 47.020.10; 47.060

English Version

Inland navigation vessels - Stanchions and holders for tiltable and detachable railings

Bateaux de navigation intérieure - Chandeliers et
supports pour garde-corps rabattables et démontables

Fahrzeuge der Binnenschifffahrt - Stützen und Halter
für umlegbare und losnehmbare Geländer

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 15.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Requirements	5
4.1 General	5
4.2 Stanchion and holders for tiltable railings (CT)	6
4.2.1 Assembly	6
4.2.2 Stanchion, parts list	7
4.2.3 Parts	7
4.3 Stanchion and holders for detachable railings (CD)	8
4.3.1 Stanchion, assembly	8
4.3.2 Stanchion, parts list	9
4.3.3 Parts	10
5 Designation	11
Annex A (informative) Installation instructions for tiltable railings	12
Figures	
Figure 1 — Assembly of stanchion and flat bar holder for tiltable railings	6
Figure 2 — Stanchion post	7
Figure 3 — Twist-on connecting clamp	8
Figure 4 — Holder	8
Figure 5 — Assembly stanchion and socket for detachable railings	9
Figure 6 — Stanchion post	10
Figure 7 — Sleeve	10
Figure 8 — Socket	11
Figure A.1 — Installation example	12
Tables	
Table 1 — Parts list for stanchion and flat bar holder for tiltable railings	7
Table 2 — Parts list for stanchion for and socket for detachable railings	9

European foreword

This document (prEN 17360:2019) has been prepared by Technical Committee CEN/TC 15 “Inland navigation vessels”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 17360:2020

<https://standards.iteh.ai/catalog/standards/sist/0bb44be5-8676-409d-a4f8-d78ca248b67d/sist-en-17360-2020>

prEN 17360:2019 (E)**1 Scope**

This document is applicable to stanchions and holders of tiltable and detachable railings (railing type CT and CD according to EN 711 in work areas) for inland navigation vessels. These railings are situated in the side deck areas, where a permanently fitted railing can be an obstacle for loading/discharging operations.

The stanchions are designed for use with handrails and intermediate guardrails made of wire ropes.

Dimensions marked with a ● are safety dimensions and correspond to the stipulations in EN 711.

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.

EN 711, *Inland navigation vessels — Railings for decks and side decks — Requirements, designs and types*

EN 1123-3, *Pipes and fittings of longitudinally welded hot-dip galvanized steel pipes with spigot and socket for waste water systems — Part 3: Dimensions and special requirements for vacuum drainage systems and for drainage systems in ship-building*

EN 10025-1, *Hot rolled products of structural steels — Part 1: General technical delivery conditions*

EN 10058, *Hot rolled flat steel bars and steel wide flats for general purposes — Dimensions and tolerances on shape and dimensions*

EN 10217-7, *Welded steel tubes for pressure purposes — Technical delivery conditions — Part 7: Stainless steel tubes*

EN 10220, *Seamless and welded steel tubes — Dimensions and masses per unit length*

EN 10255, *Non-Alloy steel tubes suitable for welding and threading — Technical delivery conditions*

EN 12163, *Copper and copper alloys — Rod for general purposes*

EN 12164, *Copper and copper alloys — Rod for free machining purposes*

EN 13601, *Copper and copper alloys — Copper rod, bar and wire for general electrical purposes*

EN 22768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1)*

EN ISO 4014, *Hexagon head bolts — Product grades A and B (ISO 4014)*

EN ISO 4032, *Hexagon regular nuts (style 1) — Product grades A and B (ISO 4032)*

ISO 262, *ISO general purpose metric screw threads — Selected sizes for screws, bolts and nuts*

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:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 stanchion

part of the railing designed to support handrail and intermediate guardrail

3.2 holder

part of the railing used to attach the stanchion to the deck

3.2.1 flat bar holder

holder for a tiltable railing

3.2.2 socket

holder for a detachable railing

3.3 tiltable railing

foldable railing

CT

Commercial Tilttable

railing which can be tilted by releasing the handrail and intermediate guardrail

3.4 detachable railing

plug-in railing

CD

Commercial Detachable

railing which can be detached when the handrail and intermediate guardrail is released

4 Requirements

4.1 General

General tolerances: EN 22768-1

Details not specified shall be selected appropriately.

Installation instructions for tiltable railings see Annex A.

Dimensions s for wall thickness of posts (Pos No 1 and 7) and Sleeve (Pos No 8) are:

- Stainless steel 2,5 mm according to EN 10217-7;
- Galvanized steel 2,6 mm according to EN 1123-3;
- Black steel 3,2 mm according to EN 10255.

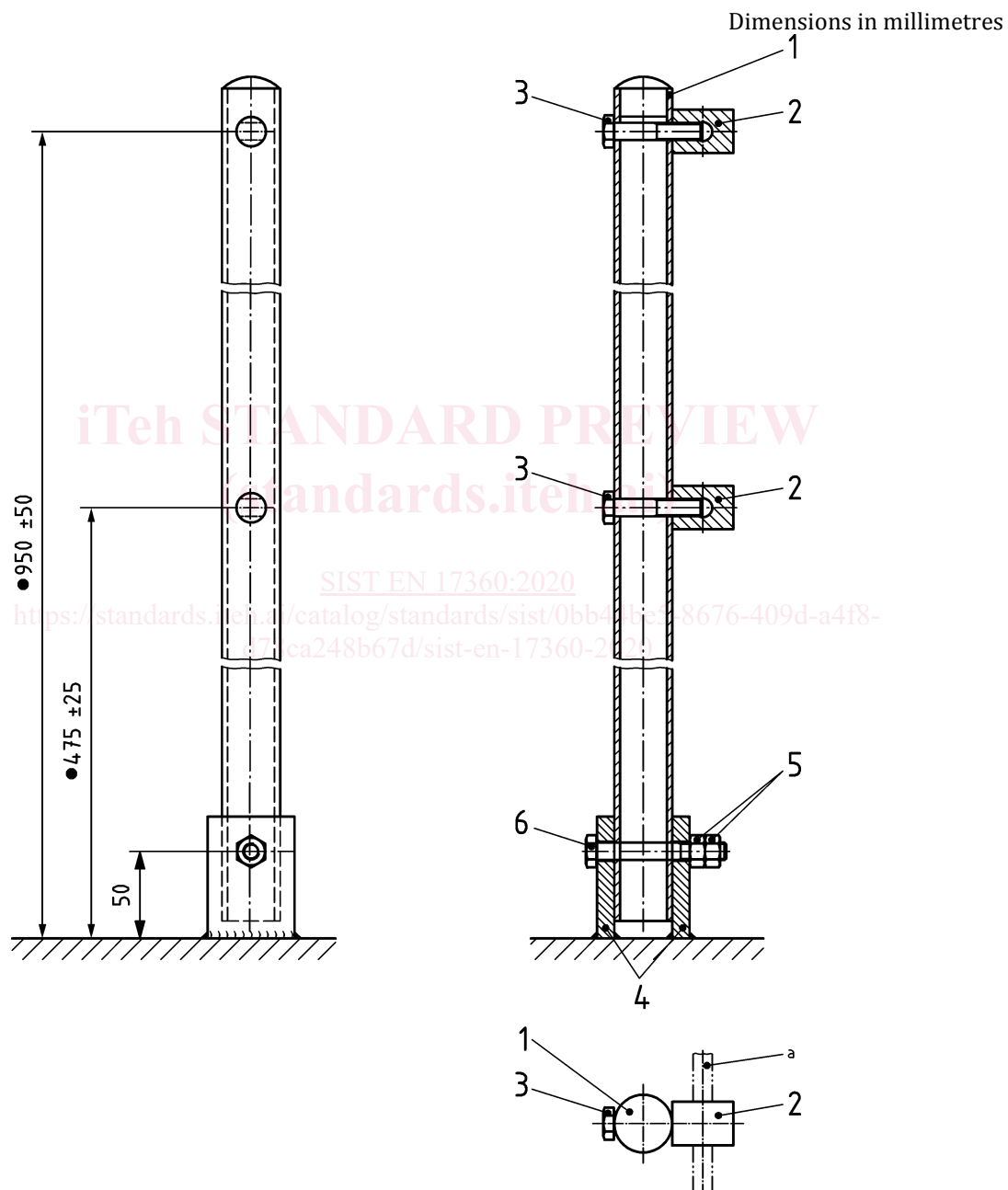
Sharp edges removed.

4.2 Stanchion and holders for tiltable railings (CT)

4.2.1 Assembly

The stanchion consists of stanchion post, twist on connection clamps and flat bar holder. The upper end of the stanchion post has to be enclosed (welded shut and smoothed or closed with a cup or plug). The flat bar holder shall be designed for welding onto the deck.

Figure 1 and Figure A.1 illustrate a stanchion for tiltable railings (CT) suitable for ropes for handrail and intermediate guardrail(s) with a diameter of 8 mm to 10 mm, with stanchion tube end enclosed by a plug.



Key

- a rope
- Pos. no. see parts list Table 1.
- safety dimension see EN 711.

Figure 1 — Assembly of stanchion and flat bar holder for tiltable railings

4.2.2 Stanchion, parts list

Table 1 — Parts list for stanchion and flat bar holder for tiltable railings

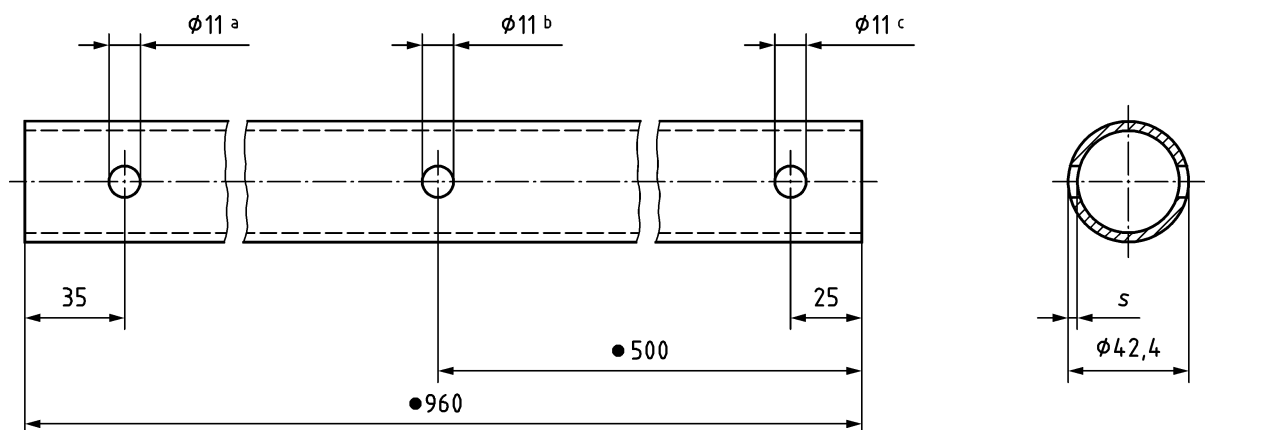
Pos. no.	Number of pieces	Designation	Comment
1	1	Stanchion post	Alternatively: EN 10217-7 ^a , EN 1123-3, EN 10255
2	2 ^a	Twist on connection clamp	Alternatively: EN 12163, EN 12164, EN 13601,
3	2 ^a	Hexagon head bolt	EN ISO 4014 — M10 × 60 — 8.8
4	2	Holder	Semi-finished product according to EN 10058 Weld seam: circumferential continuous fillet weld of $a = 4$ mm thickness
5	2	Hexagon nuts	EN ISO 4032 — M10 — 8
6	1	Hexagon head bolts	EN ISO 4014 — M10 × 80 — 8.8

^a In case of stanchion tube made of high grade steel, any fittings shall be of high grade steel likewise

4.2.3 Parts

4.2.3.1 Stanchion post (Pos. no. 1)

Figure 2 shows a stanchion post for $h = 950$ mm and $a_1 = 475$ mm with one intermediate guard rail, see EN 711.



Key

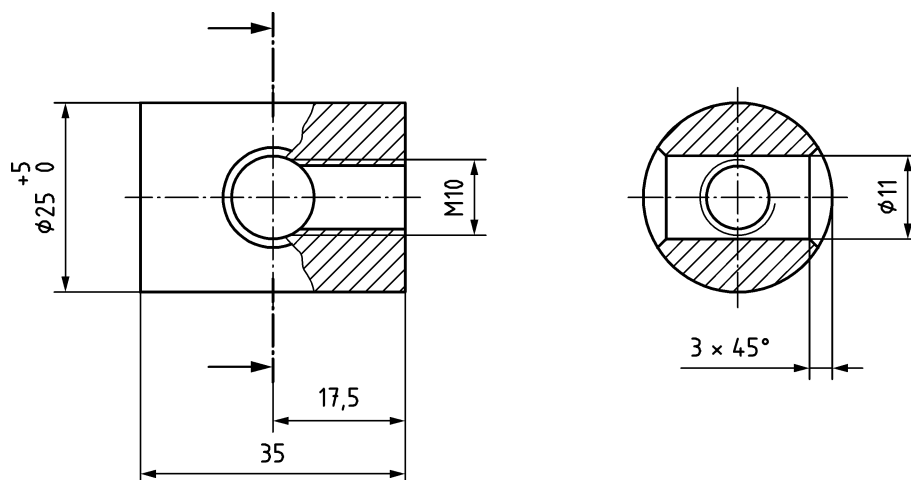
- safety dimensions: see Figure 1
- s wallthickness
- a bore hole for flat bar holder.
- b bore hole for intermediate guardrail.
- c bore hole for handrail.

Figure 2 — Stanchion post

prEN 17360:2019 (E)

4.2.3.2 Twist on connection-clamp (Pos. no. 2)

Dimensions in millimetres

**Key**

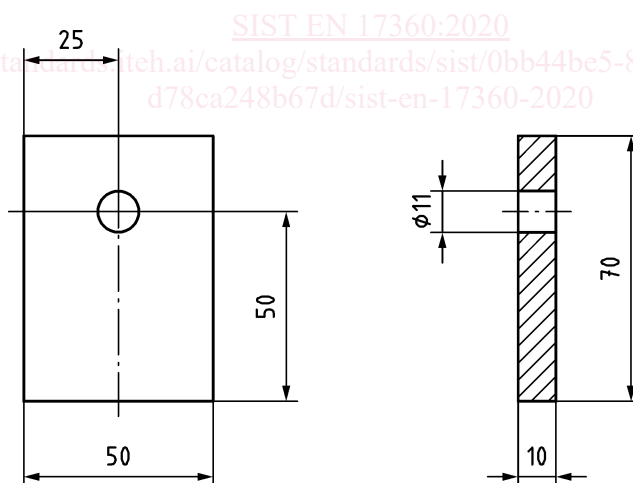
Sharp edges removed.

M10 metric ISO thread according to ISO 262

Figure 3 — Twist-on connecting clamp

4.2.3.3 Holder (Pos. no. 5)

Dimensions in millimetres

**Figure 4 — Holder**

4.3 Stanchion and holders for detachable railings (CD)

4.3.1 Stanchion, assembly

The stanchion consists of stanchion post, sleeves and socket. The socket has to be designed for being welded onto the deck. The upper stanchion post end has to be enclosed (welded shut and smoothed or closed with a cup or plug).