



NSAI
Standards

Irish Standard
I.S. EN 711:2016

Inland navigation vessels - Railings for decks and side decks - Requirements, designs and types

I.S. EN 711:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 711:2016

Published:

2016-06-08

This document was published under the authority of the NSAI and comes into effect on:

2016-06-27

ICS number:

47.020.10

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 711:2016 is the adopted Irish version of the European Document EN 711:2016, Inland navigation vessels - Railings for decks and side decks - Requirements, designs and types

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 711

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2016

ICS 47.020.10

Supersedes EN 711:1995

English Version

Inland navigation vessels - Railings for decks and side decks - Requirements, designs and types

Bateaux de navigation intérieure - Garde-corps pour ponts et plats-bords - Exigences, types et modèles

Fahrzeuge der Binnenschifffahrt - Geländer für Decks und Gangborde - Anforderungen, Bauarten und Typen

This European Standard was approved by CEN on 25 March 2016.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
European Foreword.....	4
1 Scope	5
2 Normative references	5
3 Definitions.....	5
4 Safety requirements	6
4.1 Design	6
4.1.1 General	6
4.1.2 Railings in work areas	7
4.1.3 Railings in passenger areas	7
4.2 Safety dimensions	8
4.3 Sturdiness requirements	12
4.4 Workmanship	12
5 Materials	13
5.1 Choice of materials.....	13
5.2 Example of railing made of steel	13
5.3 Surface protection	13
6 Testing.....	13
7 Designation.....	13
Annex A (normative) Examples of materials and dimensions	14
Annex B (informative) Sample designs for railings in the area of mooring equipment and bulwarks	15
Figures	
Figure 1 — CF type fixed railing	8
Figure 2 — CT type tiltable railing.....	8
Figure 3 — CD type detachable railing.....	9
Figure 4 — PF type fixed railing	9
Figure 5 — PG type fixed railing.....	9
Figure 6 — PZ-Type Fixed Railing.....	10
Figure 7 — Examples for Type A, Baseboard, and Type C, Coaming	11
Figure B.1 — Sample design of a railing in area of the mooring equipment.....	15
Figure B.2 — Sample design of a railing in the transition to the bulwark — working areas	15
Figure B.3 — Sample design of a railing in the transition to the bulwark - passenger areas.....	16
Figure B.4 — Sample design of a railing for increasing the height of a bulwark	16

Tables

Table 1 — Overview of the usual railing types.....	7
Table 2 — Safety dimensions.....	11
Table 3 — Sturdiness requirements.....	12
Table A.1 — Example of materials and dimensions for stanchions, hand rails and intermediate rails made of steel	14

EN 711:2016 (E)

European Foreword

This document (EN 711:2016) was prepared by the Technical Committee CEN/TC 15, "Inland navigation vessels", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

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

This document supersedes EN 711:1995.

The following changes have been made in comparison with EN 711:1995:

- a) Title was modified;
- b) A new definition of "spring balanced unit" was added (3.7);
- c) The position of the toe rail was defined (4.1);
- d) Prohibition on climbing aids for railings on passenger ships (4.1);
- e) The Figures were improved and removed from the table (4.2);
- f) Railing height in working areas was redefined (4.2);
- g) Additional railing heights in passenger areas were added (4.2);
- h) Cables are required, i.e. no plastic ropes are permitted (4.1);
- i) The requirement relating to the tensioning of hand rails and intermediate rails were added (4.4);
- j) Spring balanced units were added (4.4.6);
- k) The minimum diameter for hand rails was added (4.4.7);
- l) The design of the mooring equipment was described (4.4.7);
- m) Function in the event of breakage in the material was added (5.1);
- n) Table 4 added in Annex A (5.2);
- o) Test requirements were defined (Clause 6);
- p) Designation updated (Clause 7);
- q) Sample designs for mooring equipment for transitioning to the bulwark and for increased bulwark height added as Annex B;
- r) Editorial changes made.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard is applicable to railings for decks and in gangways on inland navigation vessels. It lays down design, dimensions, strength and test conditions which have to be observed for safety reasons. The railings provide protection for persons against falling overboard and from one deck to another.

2 Normative references

The following documents which are cited at the appropriate places in this document are required for the application of this document. For dated references, only the editions referred to apply. For undated references the latest edition of the document (including all modifications) referred to applies.

EN 10025-2, *Hot rolled products of structural steels — Part 2: Technical terms of delivery for non-alloyed structural steels*

EN 10220, *Plain end steel tubes, welded and seamless — General tables for dimensions and masses per unit length*

EN ISO 1461, *Metallic coatings — Hot dipped galvanised coatings on fabricated ferrous products — Requirements and tests (ISO 1461)*

ISO 1835, *Short link chain for lifting purposes — Grade M (4), non-calibrated, for chain slings etc.*

ISO 2232, *Round drawn wire for general purpose non-alloy steel wire ropes and for large diameter steel wire ropes — Specifications*

ISO 2408, *Steel wire ropes for general purposes — Minimum requirements*

ISO 2768 (all parts), *General tolerances*

3 Definitions

For the purposes of this standard, the following definitions apply.

3.1

railing

<Inland navigation vessels> A construction of stanchions and hand rails as well as

- An intermediate rail and toe rail or
- A panel

3.2

stanchion

The vertical part of the railing, onto which the hand rails and intermediate rails or the network are mounted

3.3

hand rail

The uppermost continuous part of the railing, which serves as a handhold against falling overboard and/or for holding on

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-