SLOVENSKI STANDARD
SIST EN 526:2000

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Inland navigation vessels - Gangway with a length not exceeding 8 m - Requirements, types

Inland navigation vessels - Gangway with a length not exceeding 8 m - Requirements, types

Fahrzeuge der Binnenschiffahrt - Landstege bis 8 m Länge - Anforderungen, Bauarten

Bateaux de navigation intérieure - Passerelles d'embarquement d'une longueur qui ne dépasse pas 8 m - Exigences, types

Ta slovenski standard je istoveten z: **EN 526:1993**

ICS:

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

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English version

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

Contents list

Foreword

This European Standard has been prepared by CEN/TC 15 "Inland navigation vessels" the secretariat of which is held by DIN.

This document has been submitted to the Formal Vote and the result was positif.

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of an identical text or by endorsement, at the latest by March 1994, and conflicting national standards shall be withdrawn at the latest by March 1994.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Inland navigation vessels - Gangways with a length not exeeding 8 m - Requirements, types

1 Scope

This standard applies to gangways on inland navigation vessels except those gangways intended for passengers. It specifies types, main dimensions and test conditions which have to be observed for safety reasons.

A gangway serves as walkway between ship and shore.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited in the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 209-1:1989	Wrought aluminium and alumunium alloys - Chemical composition and forms of products - Part 1: Chemical composition
ISO 209-2:1989	Wrought aluminium and aluminium alloys - Chemical composition and forms of products - Part 2: Forms of products
ISO 3674:1976	Shipbuilding - Inland vessels - Deck rail
ISO 6361-2:1990	Wrought aluminium and aluminium alloy sheets, strips and plates - Part 2: Mechanical properties

3 Definitions

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

3.1 Gangway
Moveable walkway for use on inland navigation vessels.

3.2 Side stringer
Girder used as longitudinal supporting member of the gangway.

3.3 Anti-slip lug
Supporting element providing safety for the gangway to prevent it slipping overboard.

3.4 Wheel
Component providing support at and allowing longitudinal movement on the land adjacent to the vessel.

3.5 Walkway
Deck of the gangway.

3.6 Cross-member
Connection between the side stringers and support for the walkway.

3.7 Tread
A batten or bulb fitted on the walkway perpendicular to its longitudinal axis.

3.8 Lashing bracket
Bracket for handling the gangway, securing the gangway on board and fixing hand rail and intermediate rail.

3.9 Hand rail
Upper continuous part of the guard rail.

3.10 Intermediate rail
Part of the guard rail which is fixed between the hand rail and the walkway.

3.11 Stanchion
Vertical part of the guard rail and connection to the walkway.

3.12 Connector
Support for the stanchion on the side stringer.

3.13 Guard rail
A construction of stanchions, hand rail, intermediate rail and side stringers (which also act as toe rail).

4 Safety requirements

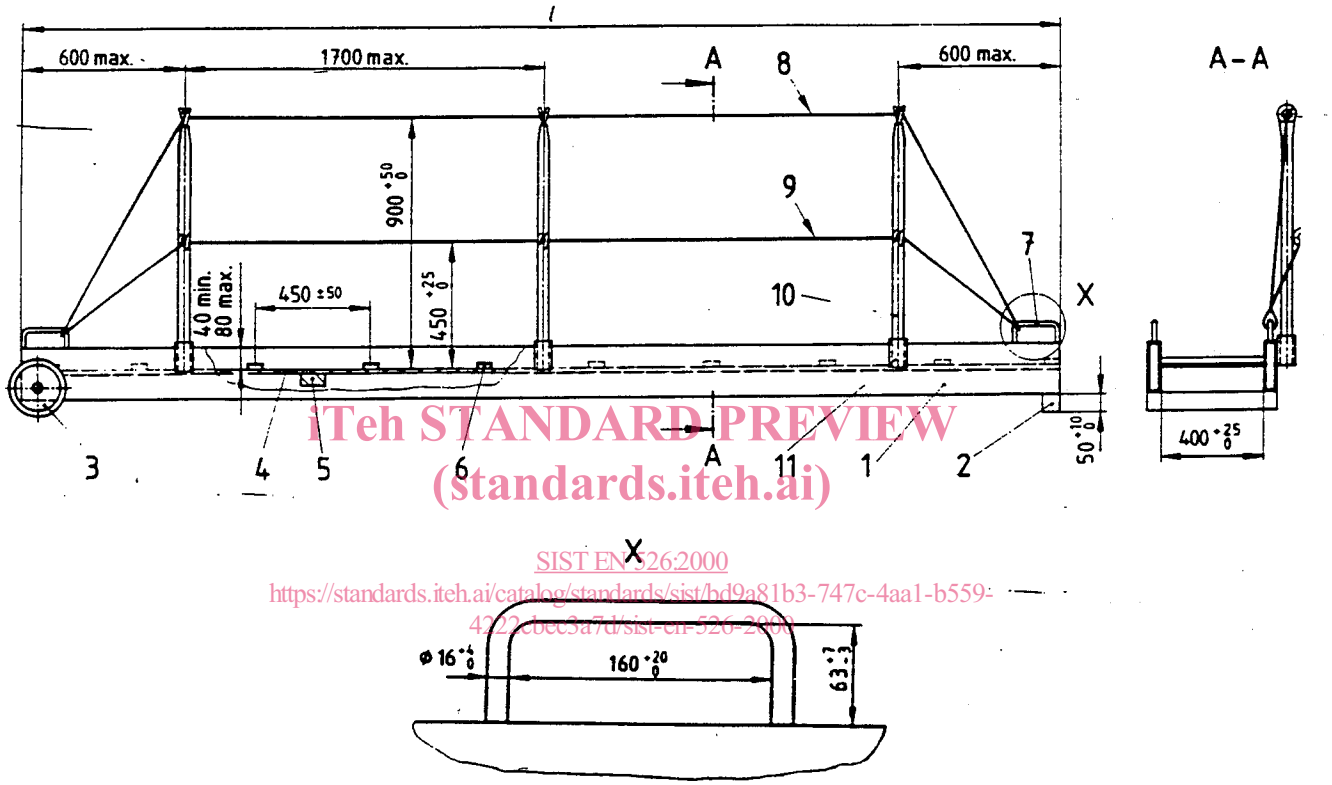
Requirements relating to type, dimensions, strength and manufacture.

4.1 Safety dimensions

Dimensions in millimeters

The gangways are not expected to conform to the design, compliance is only required in the case of dimensions specified and requirements as described in clauses 4 to 6.

Edges rounded R min. 1,5



1	Side stringer	5	Cross-member (Required for wooden constructions)	7	Lashing bracket
2	Anti-slip lug			8	Hand rail
3	Wheel			9	Intermediate rail
4	Walkway	6	Tread or bulb	10	Stanchion
				11	Connector

Figure 1: Gangway with one guard rail

4.2 Strength

4.2.1 Gangway

The gangway shall be designed to withstand a single load of 200 kg placed midlength on the gangway.

NOTE: That corresponds to a load caused by 3 persons standing at a distance of about 1 m from each other.

4.2.2 Guard rail

At the upper end, guard rail stanchions shall withstand a load of at least 300 N being applied in any direction without causing permanent deformation.

The stanchions shall not deflect by more than 50 mm.

Hand rail and intermediate rail shall be tensioned in such a way that deflection does not exceed 50 mm when a load of 200 N is applied in the middle between two stanchions.

4.3 Skidproofing

The surface of the walkway shall be skidproofed. Additionally, treads (battens or bulbs) shall be provided, see figure 1, to give a better foothold when the gangway is inclined.
The walkway shall ensure free drainage of water.

4.4 Buoyancy

The complete gangway unit with guard rail shall be buoyant.

4.5 Handling

For handling and lashing purposes, lashing brackets shall be fitted at each end and at each side of the gangway, see figure 1.

The gangway shall not have burrs or other sharp edges which might cause injuries.

The gangway's weight shall not exceed the values indicated in table 1.

Table 1: Overall length and weight

Overall length [1] / mm	Weight G [2] max. kg
4000	45
5000	55
6000	65
7000	75
8000	85

[1] Intermediate dimensions are admissible

[2] $G_{max.}\ kg = \frac{l}{100} + 5$

5 Construction

5.1 Gangway

Components which are liable to wear and tear - such as anti-slip lugs, wheels or treads - shall be constructed in a way to allow easy replacement of parts.

5.2 End fittings

5.2.1 Anti-slip lug

At the ship's side, the underside of the gangway shall be provided with an anti-slip lug.

The anti-slip lug shall be flush with the outer edges of the side stringers.

5.2.2 Wheels

At the landward side, two wheels shall be positioned at the outer side stringers.

5.3 Guard rail

5.3.1 Arrangement of guard rail

The guard rail shall be fitted at the right hand side of the gangway, seen from the landward side.

5.3.2 Stanchion with connector

The guard rail stanchions shall be arranged at regular intervals and detachably fastened in bush-shaped connectors and shall be secured against unintentional withdrawal.

The guard rail stanchions shall be provided with suitable rope guides according to figure 1, e.g. according to ISO 3674:1976, figure 6, version a).

5.3.3 Hand rail and intermediate rail

The rail ropes shall be adjustably fastened to both ends of the side stringers, e.g. to the lashing brackets.

5.4 Materials

Gangways can be constructed from aluminium, wood or other appropriate material.

All wooden parts shall be durably protected and/or impregnated against inclement weather.

Aluminium semi-finished products conforming to ISO 209-1:1989, ISO 209-2:1989 and ISO 6361-2:1990 shall be selected.

Side stringers made from dark material shall be marked at the upper surface with light-coloured, self-adhesive and reflecting strip.

6 Testing

Verification of the safety requirements for gangways is effected according to the specifications of this standard by visual examination and measurement carried out by authorized institutions.

6.1 Material testing

Material testing is effected by verification of material certificates.