

# Inland navigation vessels — Gangways for passenger vessels — Requirements, tests

The European Standard EN 14206:2003 has the status of a  
British Standard

ICS 47.060

## National foreword

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The UK participation in its preparation was entrusted by Technical Committee SME/32, Ships and marine technology, to Subcommittee SME/32/7, Ships and marine technology — Inland navigation vessels, which has the responsibility to:

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## Inland navigation vessels - Gangways for passenger vessels - Requirements, tests

Bateaux de navigation intérieure - Passerelles  
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essais

Fahrzeuge der Binnenschifffahrt - Landstege für  
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## Foreword

This document EN 14206:2003 has been prepared by 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of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

The standard specifies requirements for gangways for passenger vessels within the meaning of Council Directive 82/714/EEC of 4 October 1982 laying down technical requirements for inland waterway vessels.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This standard applies to gangways for passenger vessels for inland navigation. It specifies the type, main dimensions and test conditions that have to be observed for safety reasons

NOTE A gangway serves as walkway between the passenger vessel and the shore.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at 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 (including amendments).

EN 526:1993, *Inland navigation vessels – Gangways with a length not exceeding 8 m – Requirements, types*

EN 711:1995, *Inland navigation vessels – Railings for decks – Requirements, types*

ISO 2768-1, *General tolerances – Part 1: Tolerances for linear and angular dimensions without individual tolerance indications.*

## 3 Definitions

For the purposes of this European Standard, the definitions specified in EN 526 apply.

## 4 Safety requirements

### 4.1 Type

The gangway shall have railings on both sides.

### 4.2 Dimensions

#### 4.2.1 General

General tolerances: ISO 2768-c.

Details left unspecified are not expected to conform to the design illustrated here; compliance is only required in the case the dimensions specified and the requirements of clauses 4 and 6.

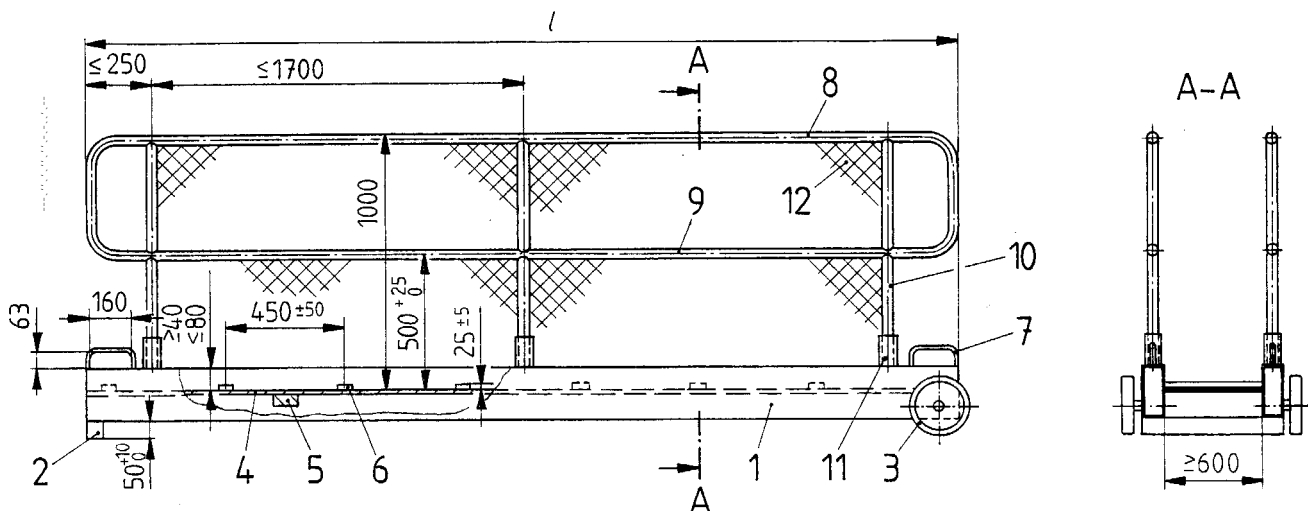
The edges shall be rounded with R 1,5 mm min.

#### 4.2.2 Clear width of gangway

The clear width of the gangway not suitable for wheelchairs shall be at least 600 mm, see Figure 1.

For gangways suitable for wheelchairs, the clear width shall be at least 900 mm.

Dimensions in millimetres



#### Key

1	Side stringer with integrated foot rail	5	Cross-member	9	Intermediate rail
2	Anti-slip lug	6	Tread	10	Stanchion
3	Wheel	7	Lashing bracket	11	Connector
4	Walkway	8	Hand rail	12	Lining

Figure 1 — Example of a 600 mm wide gangway with an anti-slip lug and wheels

### 4.3 Strength

The gangway shall be designed to withstand a live load of at least 5,0 kN/m<sup>2</sup> of the walkway surface.

At the upper end, railing stanchions shall withstand a load of at least 1 000 N being applied in any direction without causing permanent deformation.

The stanchions shall not deflect by more than 50 mm.

### 4.4 Treads

The top of the walkway shall have an anti-slip surface. Additionally, treads in the form of battens or bulbs shall be provided, see Figure 1. These treads shall have a height of  $(25 \pm 5)$  mm, be  $(450 \pm 50)$  mm apart and painted a luminous colour.

The walkway shall ensure free drainage of water.

Side stringers made of dark materials shall be painted with luminous paint on the top side.

### 4.5 Handling

Two lashing brackets shall be fitted at each end of the gangway, see Figure 1.

NOTE Lashing brackets are used for handling and for lashing purposes.

The mass of the gangway shall not exceed the value  $M_{\max}$  to be calculated, in kg

$$M_{\max} = \frac{l}{75} + 5$$

Where

$M_{\max}$  is the maximum allowable mass of the gangway, in kilograms (kg);

$l$  is the overall length of the gangway, in millimetres (mm).

## 4.6 Additional requirements for gangways suitable for wheelchairs

### 4.6.1 Accessibility

At the ends of the gangway, fold-down ramps shall be fitted with a gradient not exceeding 1:4.

The treads specified in 4.4 shall not be more than 300 mm wide and shall be fitted in the middle. The ramps shall not be curved and shall be designed so that they can be folded down onto the walkway

### 4.6.2 Mass

The mass shall not exceed

$$M_{\max} = \frac{l}{50} + 5$$

Where

$M_{\max}$  is the maximum allowable mass of the gangway, in kilograms (kg);

$l$  is the overall length of the gangway, in millimetres (mm).

## **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 fitting**

#### **5.2.1 Anti-slip lug**

At both ends of the gangway, the underside shall be provided with anti-slip lugs.

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

#### **5.2.2 Wheel**

Wheels can be fitted at one end of the gangway instead of the anti-slip lug. They shall be fitted so that the gangway is stable

### **5.3 Railings**

#### **5.3.1 Design**

The height of the railings shall be 1 000 mm and the design shall be type PF, PG or PZ as specified in EN 711:1995.

#### **5.3.2 Stanchion**

The stanchions of the railing can be fixed, detachable or collapsible.

Detachable stanchions shall be secured against unintentional removal.

#### **5.3.3 Foot rail**

The sides of the walkway shall be demarcated by means of foot rails. These can be integrated into the side stringers and shall be at least 40 mm, but not exceed 80 mm, in height.

### **5.4 Material**

All components shall be durably protected and/or impregnated against the effects of weathering. They shall be resistant to oil, diesel fuel, salt water, sunlight and micro-organisms



## 6 Testing

### 6.1 Visual examination

All the requirements not tested for in 6.2 to 6.5 shall be checked by visual examination and practical testing.

### 6.2 Material testing

Material certificates shall be provided to prove that the materials meet the requirements specified in 5.4.

### 6.3 Strength testing

The test is carried out as a loading test

Support the gangway on the anti-slip lugs or the wheels.

Then apply a test load of 6,25 kN/m<sup>2</sup> of surface of the walkway distributed uniformly over the gangway.

The deflection shall not exceed 2 % of the length of the gangway.

After removing the load, no permanent deflection shall be detectable in any part of the gangway.

### 6.4 Testing of railings

The deflections of the railing stanchions and those of the hand rail and intermediate rail shall be tested with the load specified in 4.3.

### 6.5 Checking of mass

Check the mass by weighing.

## 7 Manufacturer's certificate

The manufacturer shall certify that the gangway has been designed, constructed and tested in accordance with this standard.

## 8 Designation

Designation of a gangway with an overall length of 3 000 mm and a clear width of 900 mm complying with this standard:

**Gangway EN xxx – 3 000 – 900**

## 9 Marking

The gangway marking shall be on a name plate.

The name plate shall be made of weather-resistant materials and shall be permanently fitted where it can be easily seen.

## EN 14206:2003 (E)

It shall contain at least the following information:

- description: gangway
- standard no.: EN 14206
- dimensions: overall length in mm – clear width in mm
- allowable load-carrying capacity:: 5 kilonewtons (kN) per square metre (m<sup>2</sup>)
- manufacturer or supplier;
- year of manufacture;
- test mark of the manufacturer.



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