

Inland navigation vessels - Floating landing stages and floating bridges on inland waters - Requirements, tests

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EUROPEAN STANDARD

EN 14504

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 14504:2016

English Version

Inland navigation vessels - Floating landing stages and floating bridges on inland waters - Requirements, tests

Bateaux de navigation intérieure - Embarcadères flottants et appontements flottants sur des eaux intérieures - Exigences, essais

Fahrzeuge der Binnenschifffahrt - Schwimmende Anlegestellen und schwimmende Brücken auf Binnengewässern - Anforderungen, Prüfungen

This European Standard was approved by CEN on 6 January 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 14504:2019) 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of an identical text or by endorsement, at the latest by October 2019, and conflicting national standards shall be withdrawn at the latest by October 2019.

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

This document supersedes EN 14504:2016.

The following changes have been made to EN 14504:2016:

- a) the title has been changed;
- b) definitions revised, new definition added;
- c) intact stability clarified (4.3.2);
- d) requirements on railings clarified (5.1);
- e) requirement for climbing equipment added (5.2.2);
- f) requirements for storage spaces clarified (5.6);
- g) requirements for marking (Clause 8) updated according to the changes in 5.2.2 and 5.6;
- h) requirements on Manufacturer's mark (8.4) clarified;
- i) load combinations clarified (A.2);
- j) requirements on live load explained in more detail (A.6);
- k) requirements on hydrodynamic actions explained in more detail (A.7);
- l) mooring line force clarified for the case that the vessel is moored to the shore (A.9);
- m) calculation of wind load clarified (A.11).

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies safety requirements for floating landing stages and floating bridges for passenger transport and their equipment.

Requirements for facilities for supply and waste disposals for vessels using these floating landing stages are not covered by this document.

This document is not applicable to:

- floating landing stages for motor vehicle traffic;
- floating landing stages for recreational craft and inland navigation craft that are not vessels, e.g. floating equipment;
- more severe requirements for floating landing stages used for the transshipment of dangerous goods;
- any gangway required between vessel and floating landing stage;
- specialized floating structures which are not used for passenger traffic or the berthing of vessels.

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 790, *Inland navigation vessels - Stairs with inclination angles of 45° to 60° - Requirements, types*

EN 1492-4, *Textile slings – Safety – Part 4: Lifting slings for general service made from natural and man-made fibre ropes*

EN 1990, *Eurocode - Basis of structural design*

EN 13056, *Inland navigation vessels - Stairs with inclination angles of 30° to < 45° - Requirements, types*

EN 13281, *Inland navigation vessels - Safety requirements for walkways and working places*

EN 13411-2, *Terminations for steel wire ropes – Safety – Part 2: Splicing of eyes for wire rope slings*

EN 13574, *Inland navigation vessels - Permanently installed climbing devices with a length not exceeding 5 m*

EN 14144, *Lifebuys - Requirements, tests*

EN 14145, *HOLDERS for lifebuys*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529)*

EN ISO 1140, *Fibre ropes - Polyamide - 3-, 4-, 8- and 12-strand ropes (ISO 1140)*

EN ISO 1346, *Fibre ropes - Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high-tenacity multifilament (PP3) - 3-, 4-, 8- and 12-strand ropes (ISO 1346)*

EN ISO 18422, *Ships and marine technology - Inland navigation vessels - Plate with instructions for rescue, resuscitation and first aid for drowning persons (ISO 18422)*

ISO 8793, *Steel wire ropes - Ferrule-secured eye terminations*

ISO 18421, *Ships and marine technology - Inland navigation vessels - Lifebuoy housings*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1990 and the following 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

floating establishment

floating construction used for the safe passage of persons on inland waters

Note 1 to entry: A floating establishment is either a floating landing stage or a floating bridge.

3.1.1

floating landing stage

floating establishment used for berthing and mooring of vessels and for passenger travel

3.1.2

floating bridge

floating establishment without berth, used solely for passenger traffic and not for berthing or mooring vessels

3.2

floating body

one or more fixed buoyancy bodies with a traffic area and/or a connecting bridge support

3.3

buoyancy body

body capable of floating that either:

- consists of waterproof air chambers, or
- is completely filled with a closed-pore material

3.4

connecting bridge

movable walkway between floating body and shore