



SLOVENSKI STANDARD
SIST EN 16083:2012

01-marec-2012

Vesla za rekreacijska plovila - Varnostne zahteve in preskusne metode

Paddles and oars for recreational boats - Safety requirements and test methods

Paddel und Ruder/Riemen für Freizeitboote - Sicherheitstechnische Anforderungen und Prüfverfahren

Pagaies et rames pour bateaux de loisirs - Exigences de sécurité méthodes d'essais

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Ta slovenski standard je istoveten z: EN 16083:2012

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ICS:

47.080

Čolni

Small craft

SIST EN 16083:2012

en,fr,de

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EUROPEAN STANDARD

EN 16083

NORME EUROPÉENNE

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January 2012

ICS 47.080

English Version

Paddles and oars for recreational boats - Safety requirements and test methods

Pagaies et rames pour bateaux de loisirs - Exigences de
sécurité et méthodes d'essais

Paddel und Ruder/Riemen für Freizeitboote -
Sicherheitstechnische Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 29 October 2011.

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, 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 16083:2012) has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational facilities and equipment", 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 July 2012, and conflicting national standards shall be withdrawn at the latest by July 2012.

Attention is drawn to the possibility 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.

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EN 16083:2012 (E)

1 Scope

This European Standard specifies safety requirements and test methods for paddles and oars for non-rigid hull water crafts. Paddles and oars are classified in two performance levels A and B.

This standard is not applicable for paddles and oars for:

- training and competitive sports;
- white water;
- items covered by EN 71-1;
- folding/rigid framed boats/kayaks.

This standard does not apply to wooden paddles and oars.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

paddle

manually operated means of propulsion operated free-handed by a person

NOTE It consists of a shaft with a (paddle) blade at the end. The double paddle has a blade at each end of the shaft.

2.2

oar

manually operated means of propulsion consisting of a shaft and a blade at the end

NOTE The oar is pivot-mounted at the hull of a boat in eye lets or oarlocks. Oars can be operated by a person in pair or as single device.

3 Classes and types

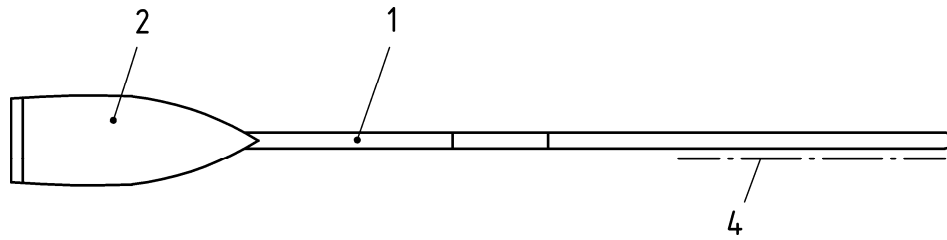
3.1 Classes

The following performance classes apply:

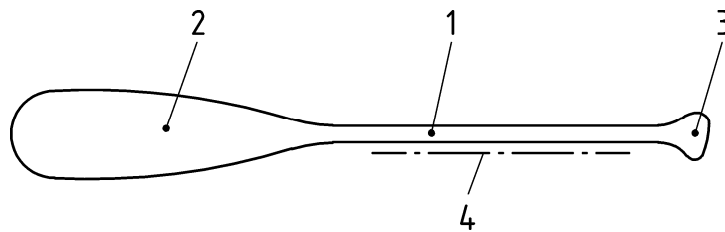
- class A: higher requirements, appropriate for touring purposes;
- class B: lower requirements, appropriate for bathing and leisure.

3.2 Types

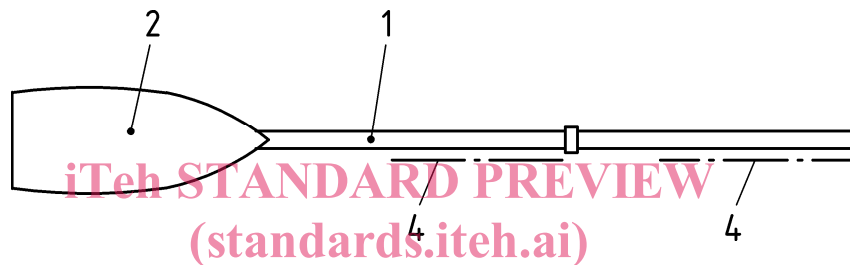
Depiction of examples of paddles and oars: see Figures 1a) to 1e).



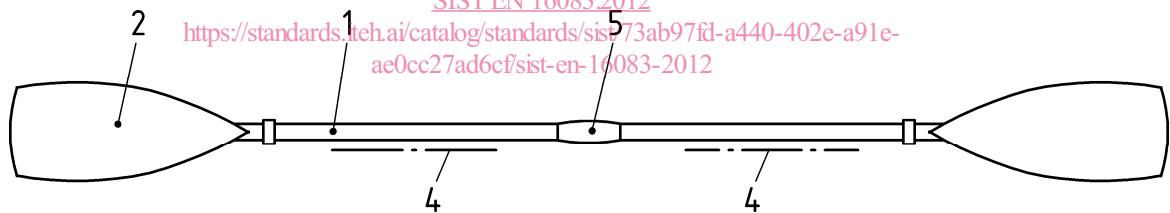
a) Type O — Oar



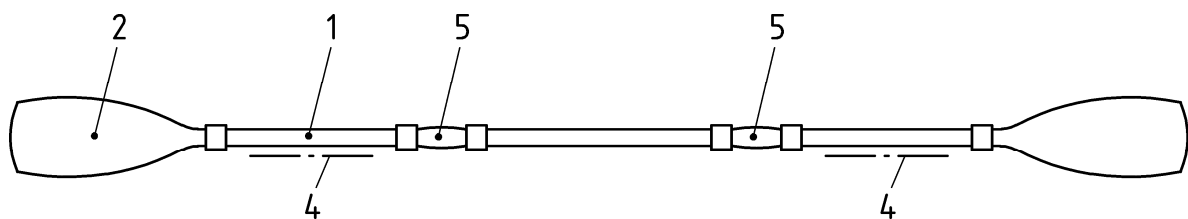
b) Type S1 — Single paddle



c) Type S2 — Single paddle



d) Type D — Double paddle



e) Type K — Combined paddle (convertible single double paddle via couplings)

Key

- 1 shaft
- 2 blade
- 3 knob handle
- 4 gripping area
- 5 coupling

Figure 1 — Paddles and oars

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4 Safety requirements and testing

4.1 General

4.1.1 Requirement

Paddles and oars shall be entirely free from sharp edges, burrs or splinters. There shall be no irregularities which could cause injury.

4.1.2 Testing

Visual and tactile testing.

4.2 Temperature

Testing shall be done at an air temperature of $(20 \pm 3) ^\circ\text{C}$.

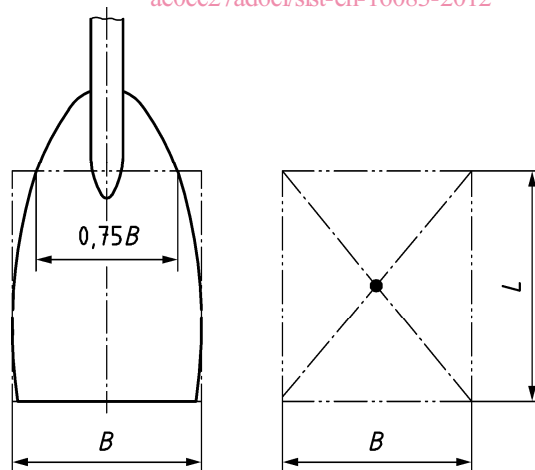
4.3 Bending strength of paddles and oars

4.3.1 Requirements

When tested in accordance with 4.3.2 paddles and oars shall neither break (shaft and blade) nor permanently deform (shaft) in a way that function is impaired.

- Load for blades of class A paddles/oars: $0,45 \text{ N/cm}^2$;
- Load for blades of class B paddles/oars: $0,30 \text{ N/cm}^2$.

The determination of the blade surface shall be done according to Figure 2.



Key

- B max. width of blade
- L length up to $0,75 B$

Figure 2 — Loading point

4.3.2 Testing

The shaft of the paddle/oar shall be clamped on a rigid surface as shown in Figure 3. The blade shall be loaded quasi statically (F_1) at a loading point on the centre line of the blade (150 ± 5) mm from its end with a vertical force as given in 4.4.1.

- Duration of each load application: 1 min;
- Number of applications: 25;

In case of double paddles the testing force shall be applied on one blade side only.

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