



# SLOVENSKI STANDARD

## oSIST prEN 12196:2023

01-marec-2023

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**Gimnastična oprema - Konji in koze - Funkcionalne in varnostne zahteve, preskusne metode**

Gymnastic equipment - Horses and bucks - Functional and safety requirements, test methods

Turngeräte - Pferde und Böcke - Funktionelle und sicherheitstechnische Anforderungen, Prüfverfahren

Matériel de gymnastique - Chevaux et saute-moutons - Exigences fonctionnelles et de sécurité, méthodes d'essai

<https://standards.iteh.ai/catalog/standards/sist/feb2659c-3dcd-4d15-9f23-892de502590b/osist-pr-en-12196-2023>

**Ta slovenski standard je istoveten z: prEN 12196**

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**ICS:**

97.220.30 Oprema za dvoranske športe Indoor sports equipment

**oSIST prEN 12196:2023**

**en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 12196**

December 2022

ICS 97.220.30

Will supersede EN 12196:2003

English Version

## Gymnastic equipment - Horses and bucks - Functional and safety requirements, test methods

Matériel de gymnastique - Chevaux et saute-moutons -  
Exigences fonctionnelles et de sécurité, méthodes  
d'essai

Turngeräte - Pferde und Böcke - Funktionelle und  
sicherheitstechnische Anforderungen, Prüfverfahren

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (prEN 12196:2022) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational equipment”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12196:2003.

In comparison with the previous edition, the following technical modifications have been made:

- a) new supplement to Figure A.2;
- b) editorial changes.

This document should be read in conjunction with EN 913.

In this document the Annex A is informative.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s)/Regulation(s).

For relationship with EU Directive(s)/Regulation(s), see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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**prEN 12196:2022 (E)****1 Scope**

This document specifies functional requirements (see Clause 4) and specific safety requirements for four types of horses and bucks (see Table 1) in addition to the general safety requirements in EN 913.

**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 913:2018+A1:2021, *Gymnastic equipment - General safety requirements and test methods*

**3 Terms and definitions**

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

**4 Requirements****4.1 Classification**

Horses and bucks shall be classified by the design (types) in accordance with Table 1.

**Table 1 - Types**

Type	Description	Example
1	Vaulting horse	Figure 1
2	Pommel horse	Figure 2
3	Vaulting buck	Figure 3
4	Pommel buck	Figure 4

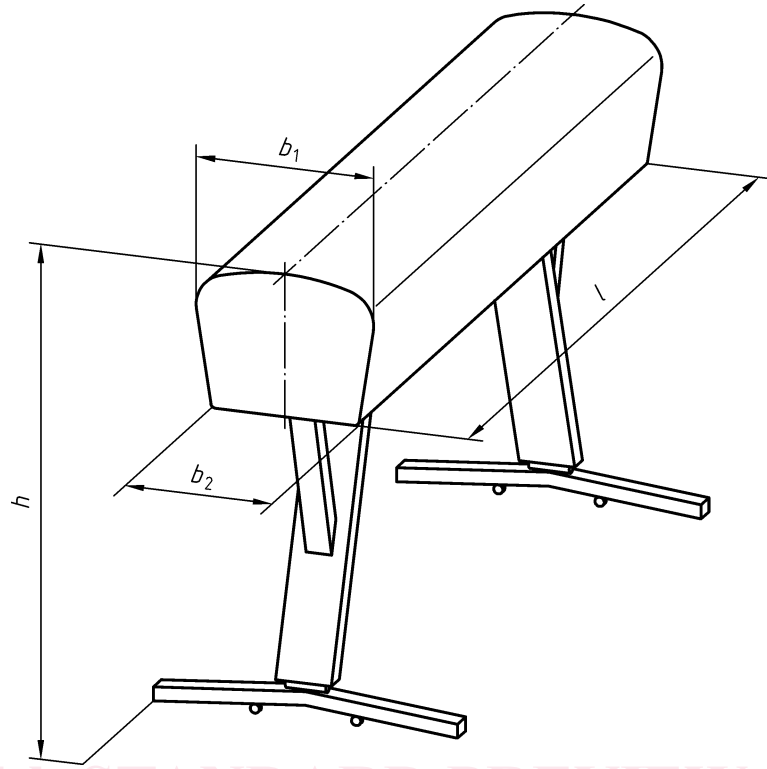


Figure 1 — Type 1 Vaulting horse

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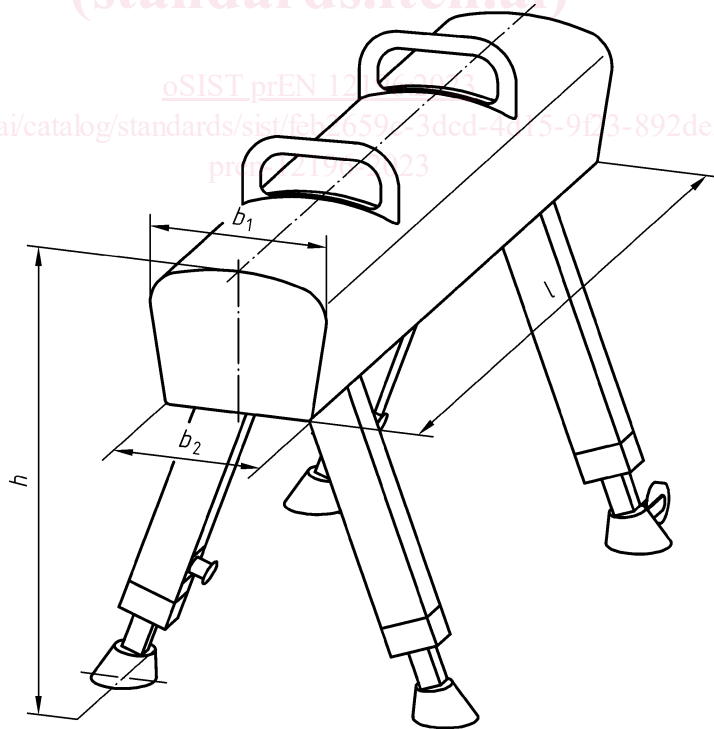


Figure 2 — Type 2 Pommel horse

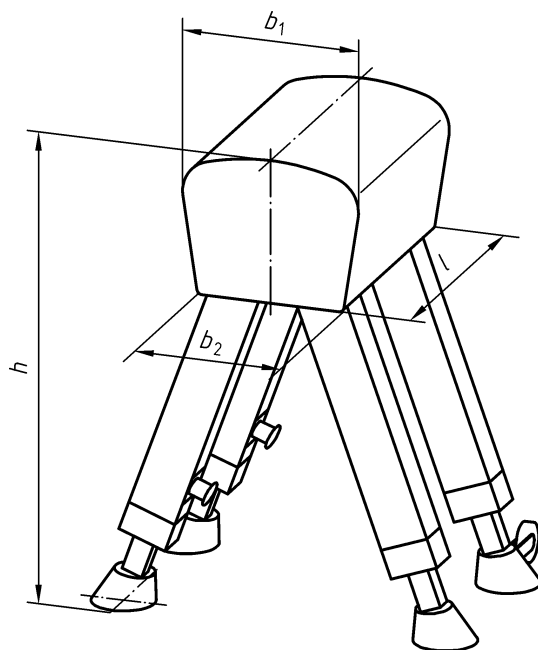


Figure 3 — Type 3 Vaulting buck

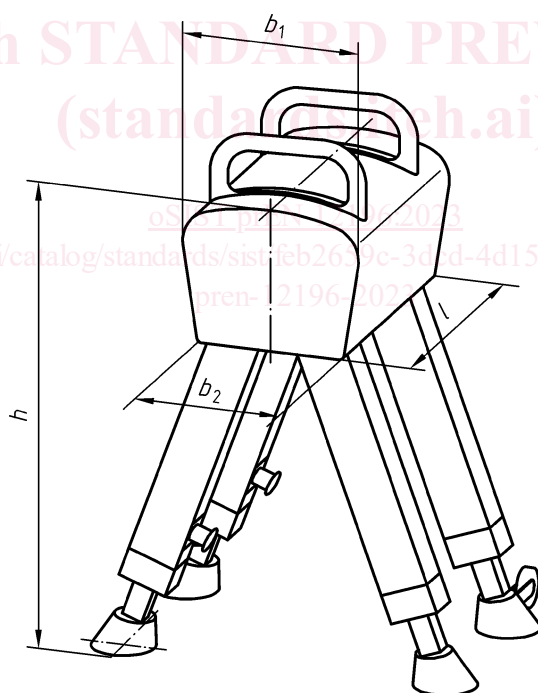


Figure 4 — Type 4 Pommel buck

## 4.2 Dimensions

Horses and bucks shall comply with the dimensions of Table 2.



Table 2 — Dimensions

Dimensions in millimetres

Type	Length <i>l</i>	Width of top <i>b1</i>	Width of bottom <i>b2</i> <sup>a)</sup>	Height <i>h</i>	
				max.	min.
<b>1 and 2</b>	1 600 to 1 630	350 to 355	290 to 300	1 500	910
<b>3 and 4</b>	550 to 900	300 to 360	300 to 330	1 700	900
a) <i>b2</i> shall be less than <i>b1</i> .					

For types 3 and 4 the minimum height adjustment range shall be 300 mm. For types 2 and 4 the distance between pommels shall be continuously adjustable between 350 mm to 450 mm.

The dimensions *l*, *b* and *h* are shown in Figure 1.

NOTE For examples for horses and bucks see Figures 1 to 4 and for examples of typical cross sections see Annex A.

### 4.3 Performance of a padded horse and buck top

When tested according to EN 913:2018+A1:2021, Annex C using a drop height of 300 mm, the peak acceleration shall not exceed 500 m/s<sup>-2</sup> (50 *g*).

## 5 Safety requirements

### 5.1 General

Horses and bucks shall comply with the requirements of EN 913, except insofar as they are modified by this document.

### 5.2 Stability

When tested according to 6.1, the horses and bucks shall not leave the ground when subjected to a horizontal force representing 20 % of the self weight of the horse or buck.

### 5.3 Strength

When tested according to 6.2, the horses and bucks shall show no sign of fracture, rupture or defects.

## 6 Test methods

### 6.1 Determination of stability

#### 6.1.1 Principle

A horizontal force is applied to the top of the equipment and whether any feet leave the ground is recorded.

#### 6.1.2 Test temperature

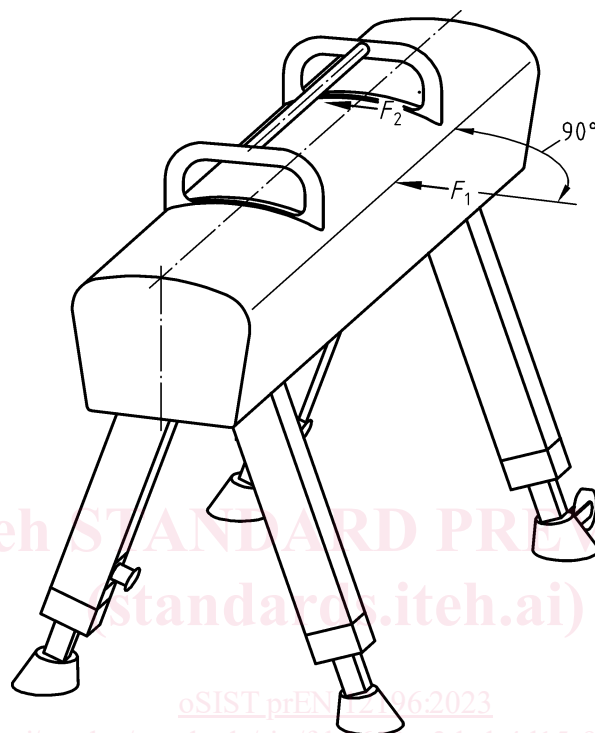
Condition the equipment for a minimum of 3 h at a temperature of (23 ± 2) °C.

**prEN 12196:2022 (E)****6.1.3 Procedure**

Carry out the test at maximum usable height.

Apply a horizontal force ( $F_1$  for types 1 and 3,  $F_2$  for types 2 and 4) calculated from 20 % of the self weight of the equipment with a minimum of 70 N to the highest point in the centre of the top, see Figure 5.

Record whether any feet leave the ground.



**Figure 5 — Determination of stability**

**6.1.4 Expression of result**

Express the level of stability by whether any feet have left the ground.

**6.2 Determination of strength****6.2.1 Principle**

The equipment is loaded with a calculated vertical force for a specified time and then examined for fracture or other damage.

**6.2.2 Apparatus**

A rigid plate of dimensions:

- length  $(200 \pm 1)$  mm;
- width  $(200 \pm 1)$  mm;
- thickness  $(10 \pm 1)$  mm;
- with a radius of the lower edges of minimum 3 mm.