



SLOVENSKI STANDARD

SIST EN 12196:1998

01-september-1998

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dfYg_i gbY`a YfcXY

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

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

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Matériel de gymnastique - Moutons de saut - Exigences fonctionnelles et de sécurité, méthodes d'essai

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Ta slovenski standard je istoveten z: EN 12196:1997

ICS:

97.220.30 Oprema za dvoranske športe Indoor sports equipment

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EUROPEAN STANDARD

EN 12196

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1997

ICS 97.220.30

Descriptors: sports equipment, gymnastic equipment, bucks, classifications, dimensions, safety, specifications, stability, tests, marking

English version

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

Matériel de gymnastique - Moutons de saut -
Exigences fonctionnelles et de sécurité,
méthodes d'essai

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This European Standard was approved by CEN on 1997-05-16. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational 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 December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

This European Standard is one of a package, each of which deals with a particular type or a particular group of gymnastic equipment.

This European Standard should be read in conjunction with EN 913.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.



1 Scope

This standard specifies functional requirements (see clause 3) and specific safety requirements (see clause 4) for horses and bucks in addition to the general safety requirements in EN 913.

This European Standard is applicable to four types of horses and bucks (see table 1).

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.

EN 913:1996

Gymnastic equipment – General safety requirements and test methods

3 Requirements

3.1 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

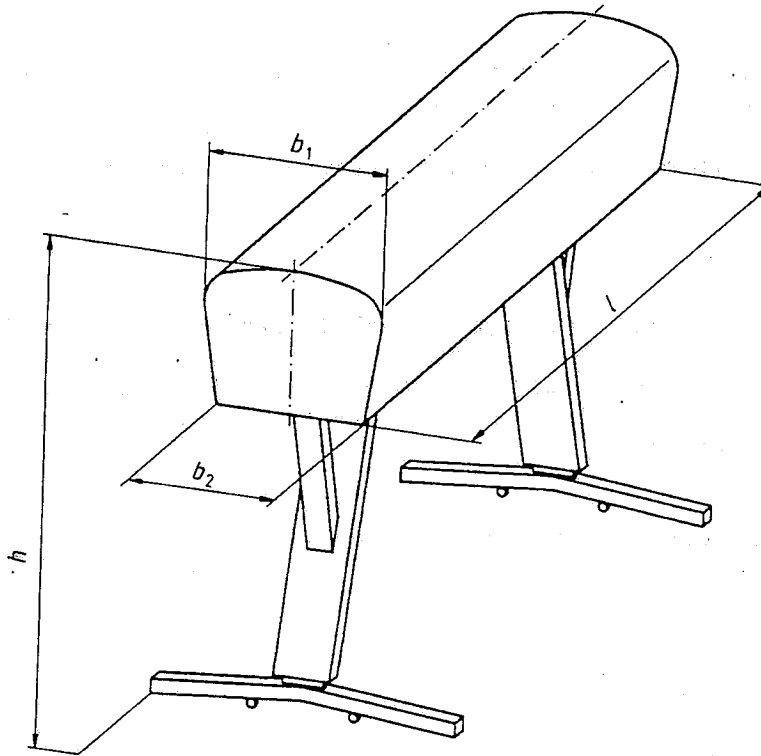


Figure 1: Type 1 - Vaulting horse

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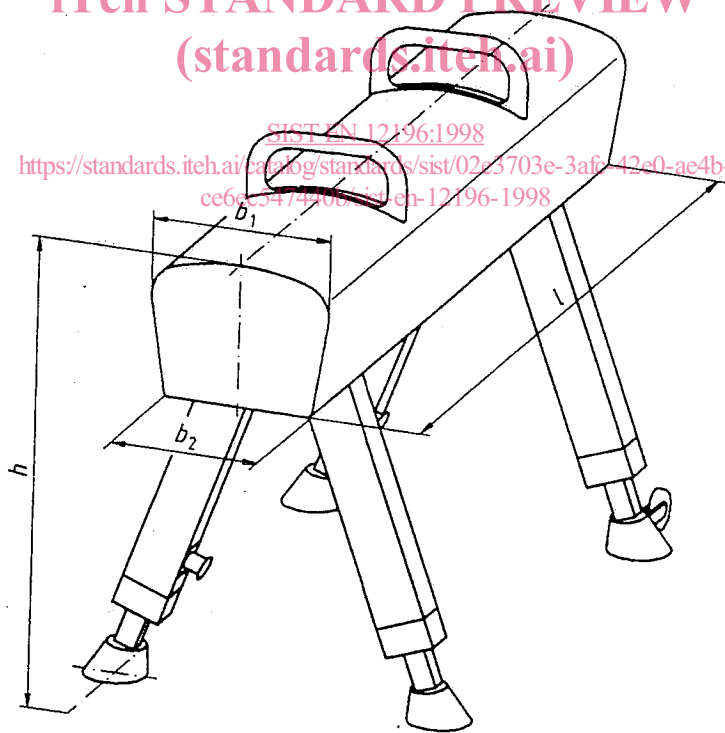


Figure 2: Type 2 - Pommel horse

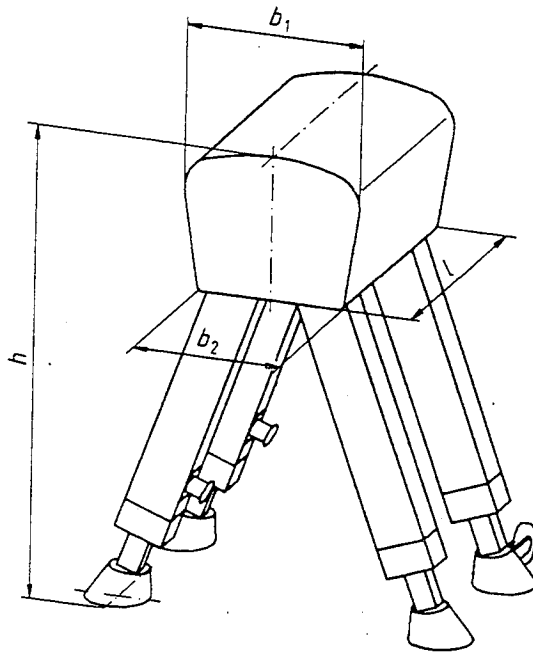


Figure 3: Type 3 - Vaulting buck

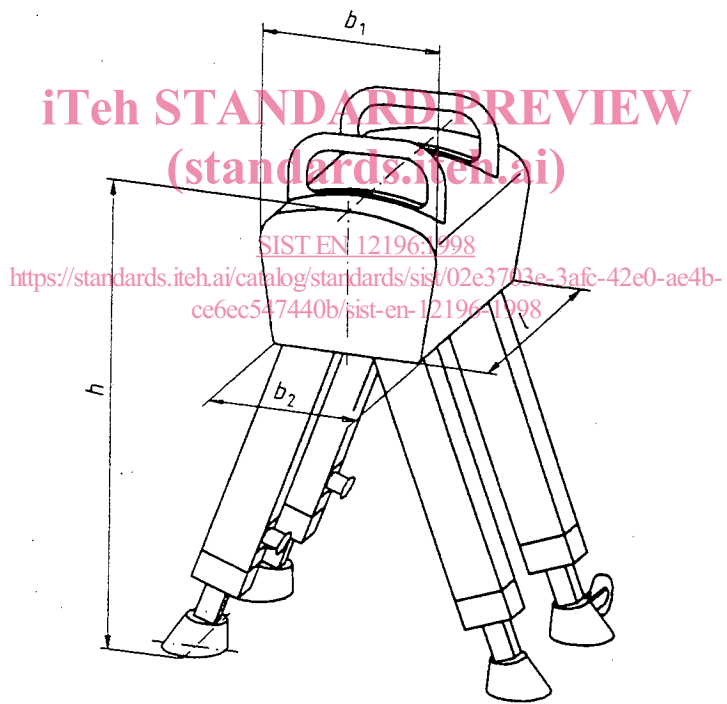


Figure 4: Type 4 - Pommel buck

3.2 Dimensions

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

Table 2: Dimensions

Type	Length l	Width of top b_1	Width of bottom b_2	Dimensions in millimetres	
				max.	min.
1 and 2	1 600 to 1 630	350 to 355	290 to 300	1 500	910
3 and 4	550 to 900	300 to 360	300 to 330	1 700	900

NOTE: b_2 shall be less than b_1 .

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 and 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.

3.3 Performance of padded horse and buck top

When tested in accordance with annex C of EN 913:1996 using a drop height of 300 mm, the peak acceleration shall not exceed 500 m/s² (50 g).

4 Safety requirements

4.1 General

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

4.2 Stability

When tested in accordance with 5.1, the horses and bucks shall not leave the ground when subjected to a horizontal force representing 40 % of the self weight of the horse or buck.

4.3 Strength

When tested in accordance with 5.2, the horses and bucks shall show no sign of fracture, rupture or defects.

5 Test methods

5.1 Determination of stability

5.1.1 Principle

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

5.1.2 Test temperature

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

5.1.3 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 40 % of the self weight of the equipment with a minimum of 90 N to the highest point in the centre of the top, see figure 5.

Record whether any feet leave the ground.

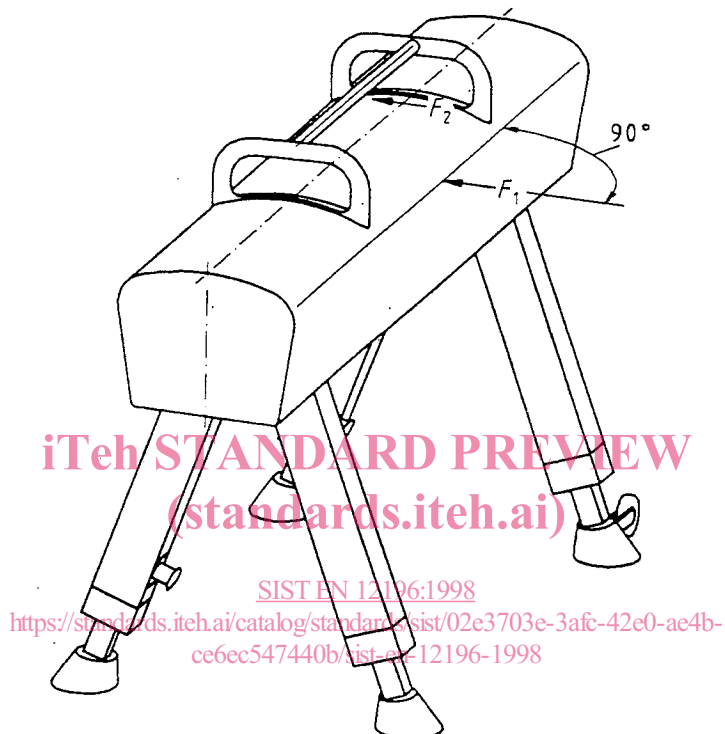


Figure 5: Determination of stability

5.1.4 Expression of results

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

5.2 Determination of strength

5.2.1 Principle

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