
; [a bUgh] bUcdfYa U! '8 fc[c j]! 'J UfbcglbY'nU Hfj Y']b'dfYg_i gbY'a YlcXY

Gymnastic equipment - Horizontal bars - Safety requirements and test methods

Turngeräte - Reck - Sicherheitstechnische Anforderungen und Prüfverfahren

Matériel de gymnastique - Barres fixes - Exigences de sécurité et méthodes d'essai

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Ta slovenski standard je istoveten z: EN 12197:1997

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ICS:

97.220.30

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Descriptors: sports equipment, gymnastic equipment, horizontal bars, classifications, dimensions, safety, specifications, stability, rigidity, marking, technical notices

English version

Gymnastic equipment - Horizontal bars - Safety requirements and test methods

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Turngeräte - Reck - Sicherheitstechnische
Anforderungen und Prüfverfahren

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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.

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CEN

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

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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of an identical text or by endorsement, at the latest by December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.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.

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1 Scope

This standard specifies specific safety requirements (see clause 4) for horizontal bars in addition to the general safety requirements in EN 913.

This European Standard is applicable to three types of horizontal bars (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 Classification

Horizontal bars shall be classified by the design (types) in accordance with table 1.

Table 1: Types

Type	Description	Example
1	Horizontal bar fixed with ground sockets	Figure 1
2	Horizontal bar fixed with floor plate and bolt	Figure 2
3	Horizontal bar fixed with cables	Figure 3

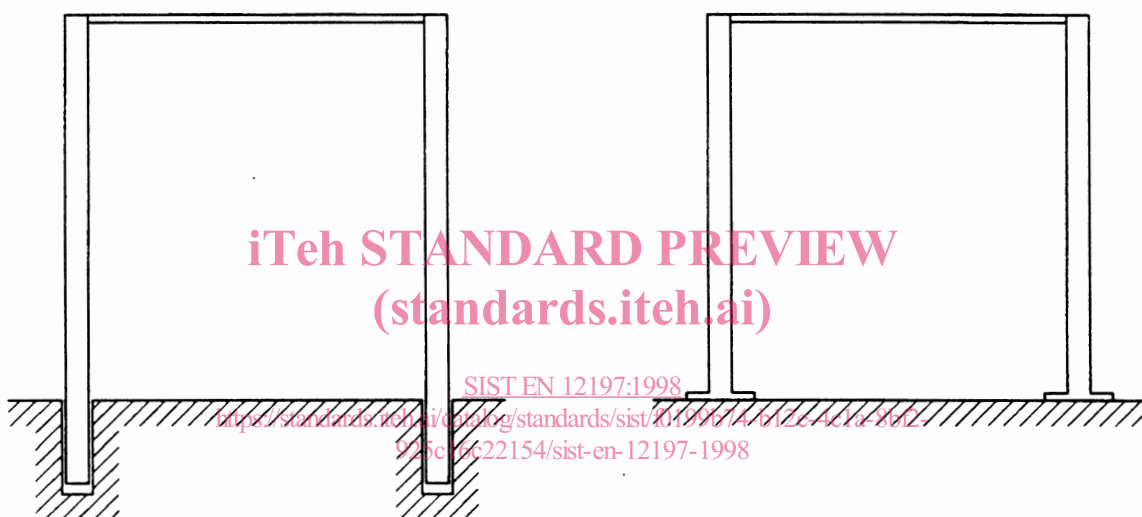


Figure 1: Horizontal bar type 1

Figure 2: Horizontal bar type 2

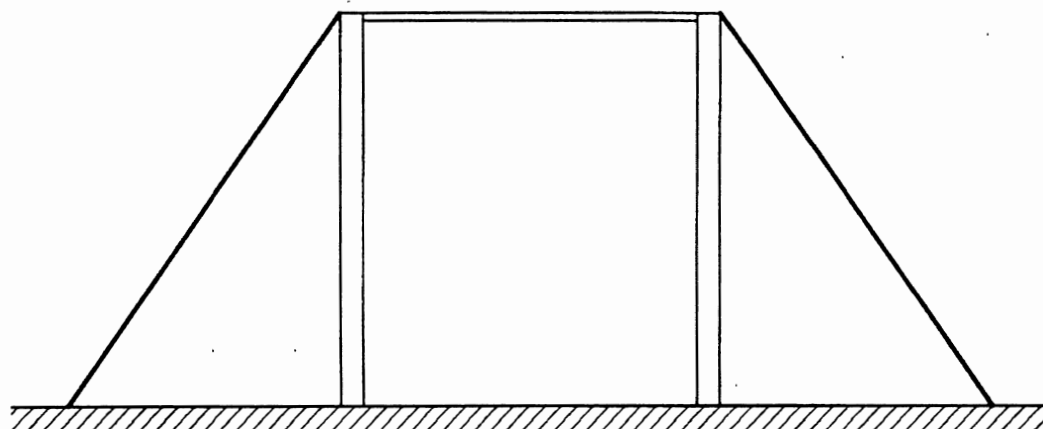


Figure 3: Horizontal bar type 3

4 Safety requirements

4.1 General

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

4.2 Dimensions

The horizontal bars shall comply with the dimensions of table 2.

Table 2: Dimensions

Dimensions in millimetres		
Types	Diameter of bar	Length between rotating points
1, 2 and 3	28 min. 41 max.	2 200 to 2 600

NOTE: Annex A indicates rotation parts of typical types of bar support.

4.3 Stability

When tested in accordance with annex B of EN 913 : 1996, the equipment shall not tip in any direction when subjected to a horizontal force of 3 800 N at the mid point of the horizontal bar between its rotating points.

NOTE: Annex B shows typical fixing arrangement for type 3 horizontal bars.
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4.4 Stiffness

When tested in accordance with annex B of EN 913 : 1996, and with the bar set at maximum height the deflection of the bar shall be (100 ± 10) mm when subjected to a vertical force of 2 000 N applied at the centre of the bar.

4.5 Residual deflection

When tested in accordance with annex B of EN 913 : 1996, the bar shall not show any residual deflection when the test force of 2 000 N is removed.

4.6 Structural integrity

When tested in accordance with annex B of EN 913 : 1996, the equipment shall show no signs of fracture, rupture, or defects when subjected to a vertical force of 4 750 N at the mid point of the horizontal bar between its rotating points.

5 Information to be provided by the manufacturer/supplier

An information booklet shall be provided by the manufacturer/supplier containing the following:

- a) type in accordance with table 1;
- b) assembly details covering method of adjustment;
- c) maintenance details;
- d) installation details;

6 Marking

Marking shall comply with EN 913 and in addition shall include:

- year of manufacture.

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Annex A (informative)

Examples of types of bar support

The length of the bar corresponds to the distance between the rotation point of their supports.

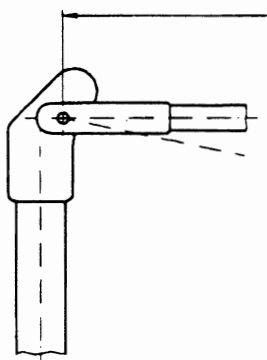


Figure A.1

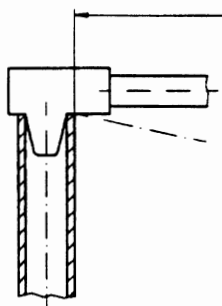


Figure A.2

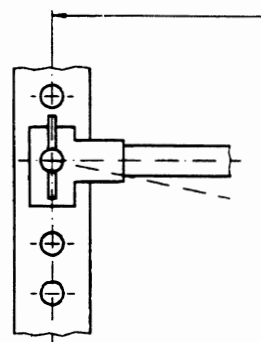


Figure A.3

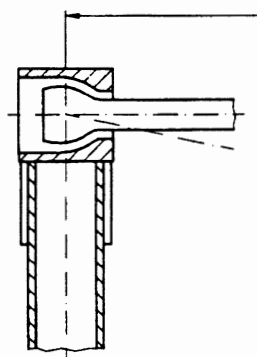


Figure A.4

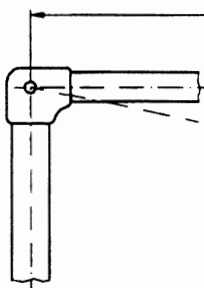


Figure A.5

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