



SLOVENSKI STANDARD
SIST EN 12346:2002

01-september-2002

Gimnastična oprema - Letveniki, plezalne lestve in plezalni sestavi - Funkcionalne in varnostne zahteve, preskusne metode

Gymnastic equipment - Wall bars, lattice ladders and climbing frames - Safety requirements and test methods

Turngeräte - Sprossenwände, Gitterleitern und Kletterrahmen - Sicherheitstechnische Anforderungen und Prüfverfahren

Matériel de gymnastique - Espaliers, échelles et cadres à grimper - Prescriptions de sécurité et méthodes d'essai

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Ta slovenski standard je istoveten z: EN 12346:1998

ICS:

97.220.30 Oprema za dvoranske športe Indoor sports equipment

SIST EN 12346:2002

en

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EUROPEAN STANDARD

EN 12346

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1998

ICS 97.220.30

Descriptors: sport equipment, gymnastic equipment, safety, accident prevention, specifications, dimensions, mechanical strength, tests, marking

English version

Gymnastic equipment - Wall bars, lattice ladders and climbing frames - Safety requirements and test methods

Matériel de gymnastique - Espaliers, échelles et cadres à grimper - Prescriptions de sécurité et méthodes d'essai

Turngeräte - Sprossenwände, Gitterleitern und Kletterrahmen - Sicherheitstechnische Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 6 June 1998.

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.

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 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.

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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 1998, and conflicting national standards shall be withdrawn at the latest by December 1998.

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

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

[SIST EN 12346:2002](#)

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 European Standard specifies specific safety requirements for wall bars, lattice ladders and climbing frames in addition to the general safety requirements in EN 913.

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

Gymnastic equipment – General safety requirements and test methods

3 Profile of bars

All bars shall comply with the dimensions specified in figure 1.

Any profile lying between the dimensions shown is acceptable.

Dimensions in millimetres

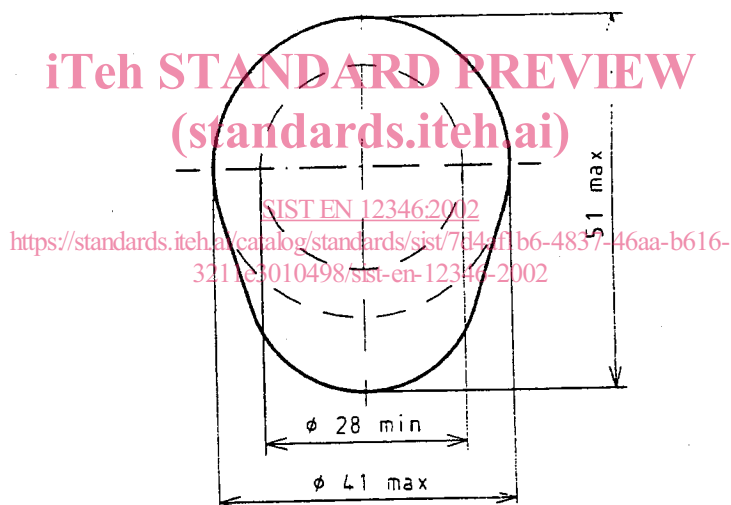


Figure 1: Profile of bar

4 Safety requirements

4.1 General requirements

Wall bars, lattice ladders and climbing frames shall comply with the requirements of EN 913; except insofar as they are modified by this European Standard. Typical examples are shown in figures A.1 to A.4.

4.2 Strength

4.2.1 Pre-installation with the equipment assembled for bars, joints and supports

4.2.1.1 When tested in accordance with 5.1.1 the bar, joint and supports shall show no signs of loose bonds, cracking, breaking or permanent deformation.

4.2.1.2 When tested in accordance with 5.1.2 the bar shall show no signs of rotation.

4.2.2 Post-installation strength

When tested in accordance with 5.2 the equipment shall not 'pull away' from the wall.

4.3 Supports

For wall bars the distance between supports shall be not less than 800 mm.

For lattice ladders and climbing frames the distance between supports shall be not less than 500 mm.

4.4 Height

For wall bars the highest bar shall be not more than 3 000 mm above the ground.

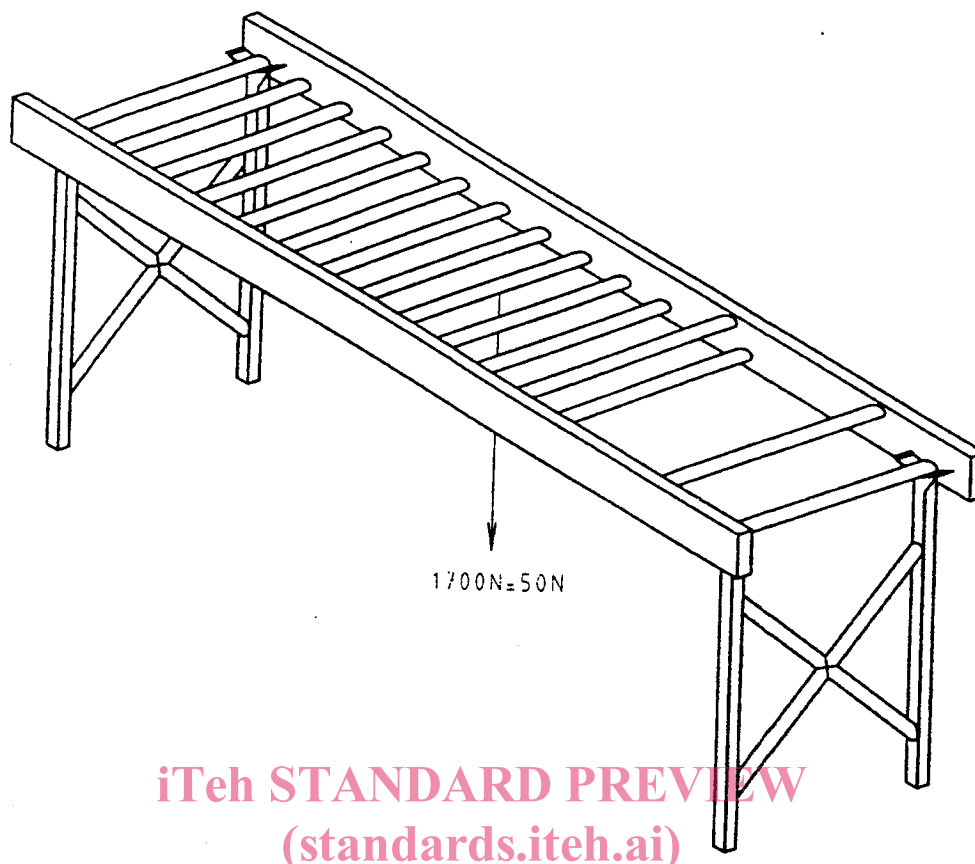
For lattice ladders and climbing frames the highest bar shall be not more than 5 000 mm above the ground.

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5 Test methods

5.1 Pre-installation with the equipment assembled for bars, joints and supports

5.1.1 Apply a force of $1\,700\text{ N} \pm 50\text{ N}$ in the middle of a bar perpendicular to the face of the apparatus for $5\text{ min} \pm 10\text{ s}$, see figure 2. Remove the force and examine the bar, joint and supports for signs of loose bonds, cracking or permanent deformation.



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Figure 2: Determination of pre-installation strength

5.1.2 Apply a torque of $50 \text{ N} \cdot \text{m} \pm 2 \text{ N} \cdot \text{m}$ to a bar for $5 \text{ min} \pm 10 \text{ s}$.

Remove the torque and examine the bar for signs of rotation.

5.2 Post-installation strength

After installation according to the manufacturers instructions and with the equipment in its intended position of use apply a force F_1 , centrally to the top bar perpendicular and away from the wall, of 900 N for $5 \text{ min} \pm 10 \text{ s}$, see figure 3.

Remove the force and determine whether the equipment has 'pulled away' from the wall.

Repeat the test with F_2 of 900 N for $5 \text{ min} \pm 10 \text{ s}$ on the lowest bar.

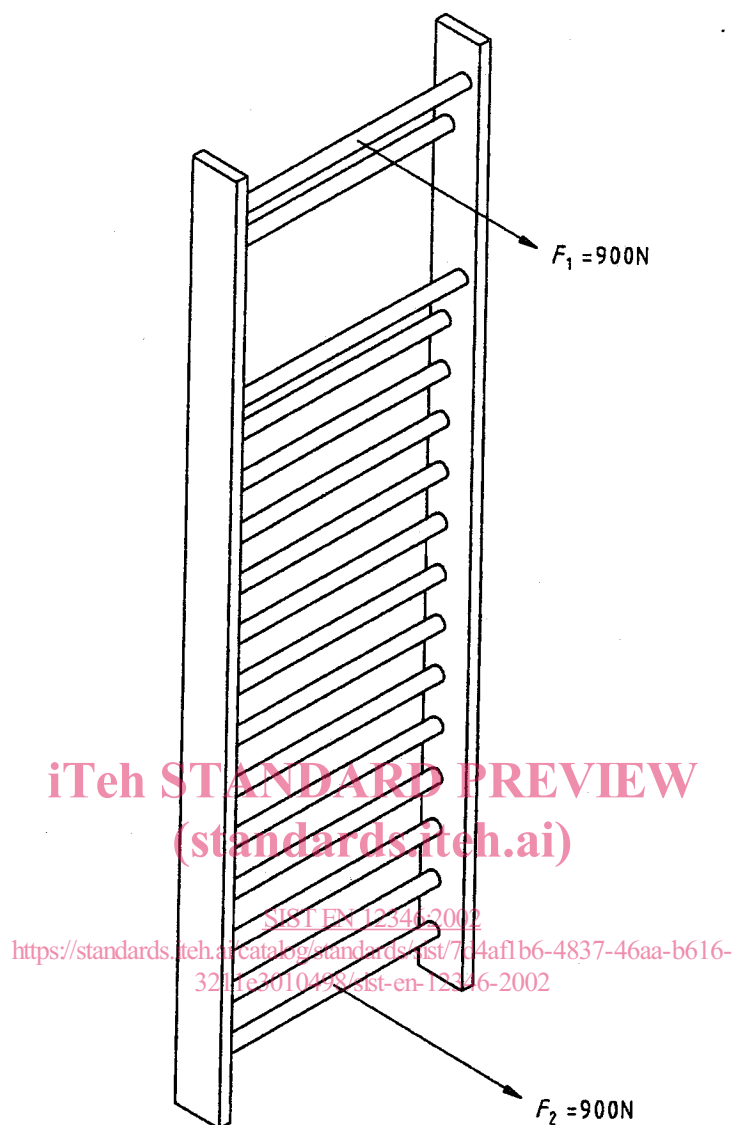


Figure 3: Determination of post-installation strength

6 Instructions for use

For retractable equipment assembly instructions shall be provided.

7 Marking

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

- a) name of product; and
- b) a statement advising the maximum number of users (maximum safe load).

Annex A (informative)

Typical examples of wall bars, lattice ladders and climbing frames

Dimensions in millimetres

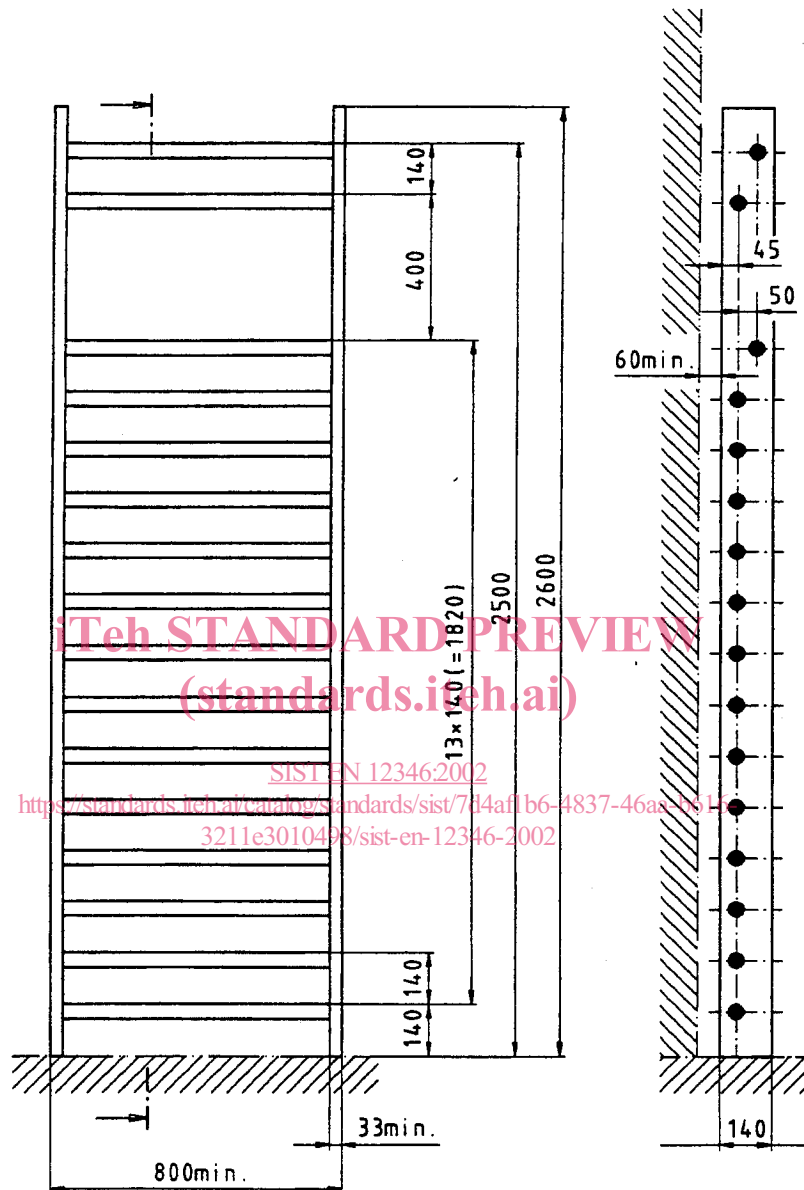


Figure A.1: Example of a wall bar