



**SLOVENSKI STANDARD**  
**SIST EN 566:1998**  
**01-september-1998**

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**Gorniška oprema - Zanke - Varnostne zahteve in preskusne metode**

Mountaineering equipment - Slings - Safety requirements and test methods

Bergsteigerausrüstung - Schlingen - Sicherheitstechnische Anforderungen und Prüfverfahren

Equipement d'alpinisme et d'escalade - Anneaux - Exigences de sécurité et méthodes d'essai

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**ICS:**

97.220.40	Oprema za športe na prostem in vodne športe	Outdoor and water sports equipment
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**SIST EN 566:1998** **en**

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EUROPEAN STANDARD

EN 566

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1997

ICS 97.220.40

Supersedes EN 566:1992

Descriptors: sport equipment, mountaineering, rings, mountaineering ropes, safety, specifications, tests, breaking load, marking

English version

## Mountaineering equipment - Slings - Safety requirements and test methods

Equipement d'alpinisme et d'escalade - Anneaux  
- Exigences de sécurité et méthodes d'essai

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This European Standard was approved by CEN on 1997-01-27. 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, 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

## 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 supersedes EN 566:1992.

The text is based on UIAA-Standard J (Union Internationale des Associations d'Alpinisme), which has been developed with international participation.

This standard is one of a package of standards for mountaineering equipment, see annex A.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 89/686/EEC.

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

Annexes A and ZA of this European Standard are informative.

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 August 1997, and conflicting national standards shall be withdrawn at the latest by August 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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 European Standard specifies safety requirements and test methods for slings used for mountaineering including climbing.

## 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 20139

Textiles – Standard atmospheres for conditioning and testing (ISO 139 : 1973)

## 3 Definition

For the purposes of this standard, the following definition applies:

**slings:** Tape, accessory cord or rope joined together by stitching or other means of fastening. The shape and length are not specified.

NOTE: Examples of construction of slings are illustrated in figure 1.

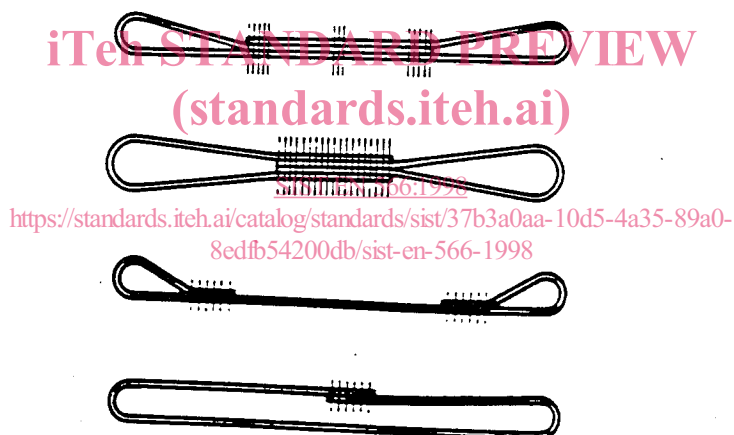


Figure 1: Examples of construction

## 4 Safety requirements

### 4.1 Stability

When shuttleless loom webbing is used, the weft shall be locked by an additional locking thread or by any other system, which guarantees that the edges cannot be unravelled when one of the yarns breaks.

### 4.2 Stitching

Threads intended to provide safety and strength (e.g. in joints) shall be compatible with the tape and, where they are visible, the stitching shall contrast with the tape (e.g. colour or surface appearance).

### 4.3 Tensile strength

When tested in accordance with 5.4, the tensile strength shall be at least 22 kN.

## 5 Test methods

### 5.1 Conditioning

Condition the test samples as described in EN 20139.

Carry out the test at a relative humidity which may be outside the standard atmosphere given in EN 20139, but at a temperature of  $(23 \pm 5) ^\circ\text{C}$ , in which case the test shall begin within 5 min of removal from the conditioning atmosphere.

### 5.2 Stability

Check the requirements of 4.1 using a test sample of 1 000 mm minimum length and cut one warp and one weft thread.

### 5.3 Stitching

Carry out a visual examination to check that the requirements specified in 4.2 are met.

### 5.4 Determination of tensile strength

Attach the test sample between two bars offering a contact radius of  $(5 \pm 0,05)$  mm to the sling and with a mean roughness value,  $R_a$ , not exceeding  $0,8 \mu\text{m}$  and a peak to valley height,  $R_{max}$ , not exceeding  $6,3 \mu\text{m}$ .

Determine the loading speed,  $v$ , as a function of the free length of the test sample, using equation (1):

$$v = 0,5 l \pm 20 \% \quad (1)$$

where:

$v$  is the loading speed in millimetres per minute;

$l$  is the free length in millimetres of the test sample overall laid out in the flat.

## 6 Information to be supplied

- a) the name or trademark of the manufacturer, importer or supplier, together with their address;
- b) the number of this European Standard: EN 566;
- c) the meaning of any marking on the product;
- d) the tensile strength which the manufacturer ensures at the time of manufacturing;
- e) the use of the product;
- f) how to choose other components for use in the system;
- g) how to maintain/service the product, on the effects of chemical reagents and how to disinfect the product without adverse effect;
- h) the lifespan of the product or how to assess it and that after a serious fall the sling should be withdrawn from use as soon as possible;
- i) the influence of wet and icy conditions;
- j) the danger of sharp edges;
- k) the influence of storage and aging due to use.

## 7 Marking

Slings shall be marked with at least the following information:

- a) the name or trademark of the manufacturer, importer or supplier.
- b) tensile strength which the manufacturer ensures at the time of manufacturing.

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Annex A (informative)

Standards on mountaineering equipment

Table A.1: List of standards on mountaineering equipment

No	Document	Title
1	EN 892	Mountaineering equipment – Dynamic mountaineering ropes – Safety requirements and test methods
2	prEN 12275	Mountaineering equipment – Connectors – Safety requirements and test methods
3	<sup>1)</sup>	Mountaineering equipment – Ice-tools – Safety requirements and test methods (00136012)
4	prEN 12277	Mountaineering equipment – Harnesses – Safety requirements and test methods
5	<sup>1)</sup>	Mountaineering equipment – Safety helmets – Safety requirements and test methods (00136076)
6	EN 564	Mountaineering equipment – Accessory cord – Safety requirements and test methods
7	EN 565	Mountaineering equipment – Tape – Safety requirements and test methods
8	EN 566	Mountaineering equipment – Slings – Safety requirements and test methods
9	prEN 12276	Mountaineering equipment – Frictional anchors – Safety requirements and test methods
10	prEN 12270	Mountaineering equipment – Chocks – Safety requirements and test methods
11	EN 567	Mountaineering equipment – Rope clamps – Safety requirements and test methods
12	EN 958	Mountaineering equipment – Energy absorbing systems for use in klettersteig (via ferrata) climbing – Safety requirements and test methods
13	EN 959	Mountaineering equipment – Rock anchors – Safety requirements and test methods
14	EN 568	Mountaineering equipment – Ice anchors – Safety requirements and test methods
15	EN 569	Mountaineering equipment – Pitons – Safety requirements and test methods
16	prEN 893	Mountaineering equipment – Crampons – Safety requirements and test methods
17	<sup>1)</sup>	Mountaineering equipment – Descenders – Safety requirements and test methods (00136079)
18	prEN 12278	Mountaineering equipment – Pulleys – Safety requirements and test methods
19	prEN 12492	Mountaineering equipment - Climbers safety helmets - Safety requirements and test methods
<sup>1)</sup> in preparation		