



**SLOVENSKI STANDARD**  
**kSIST FprEN 893:2010**  
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**Gorniška oprema - Dereze - Varnostne zahteve in preskusne metode**

Mountaineering equipment - Crampons - Safety requirements and test methods

Bergsteigerausrüstung - Steigeisen - Sicherheitstechnische Anforderungen und Prüfverfahren

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

**Ta slovenski standard je istoveten z: FprEN 893**

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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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NORME EUROPÉENNE  
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**FINAL DRAFT**  
**FprEN 893**

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English Version

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

Équipement d'alpinisme et d'escalade - Crampons -  
Exigences de sécurité et méthodes d'essai

Bergsteigerausrüstung - Steigeisen - Sicherheitstechnische  
Anforderungen und Prüfverfahren

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## Foreword

This document (FprEN 893:2010) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 893:1999.

This document 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, see informative Annex ZA, which is an integral part of this document.

## **Introduction**

The text of this European Standard is based on the former UIAA-Standard S (Union Internationale des Associations d'Alpinisme / International mountaineering and climbing federation), which has been developed with international participation.

This European Standard is one of a package of standards for mountaineering equipment, see Annex A.

## 1 Scope

This European Standard specifies safety requirements and test methods for crampons preventing the user from slipping when used in mountaineering on snow and ice including climbing mixed terrain.

## 2 Normative references

The following referenced documents are indispensable for the application 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 565, *Mountaineering equipment — Tape — Safety requirements and test methods*

EN ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-1:2005)*

ISO 9523, *Touring ski-boots for adults — Interface with touring ski-binding — Requirements and test methods*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply (see also Figure 1).

### 3.1

#### **crampon**

device fitted with spikes, which is intended to cover the sole of a boot, from toe to heel and from one side to the other, so as to provide grip on snow, ice and mixed terrain and which has a system of attachment to the boot

### 3.2

#### **frame**

part or parts of the crampon which bears the spikes

### 3.3

#### **front spike**

forward pointing spike intended for use when climbing steep terrain

### 3.4

#### **downward spike**

spike usually, but not necessarily, pointing vertically downward

### 3.5

#### **binding**

system of attachment to the boot

### 3.6

#### **clip-on binding**

particular binding which uses a lever mechanism for rapid attachment of a crampon to a boot

### 3.7

#### **bail**

stirrup-shaped part or parts of a binding used to connect the crampon to the toe and/or to the heel of the boot

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**3.8 attachment rings or eyes**

rings or eyes which are threaded by a part of the binding when fitted in accordance with the manufacturers instruction

**3.9 adjustment system**

system for adjusting the crampon to fit the boot

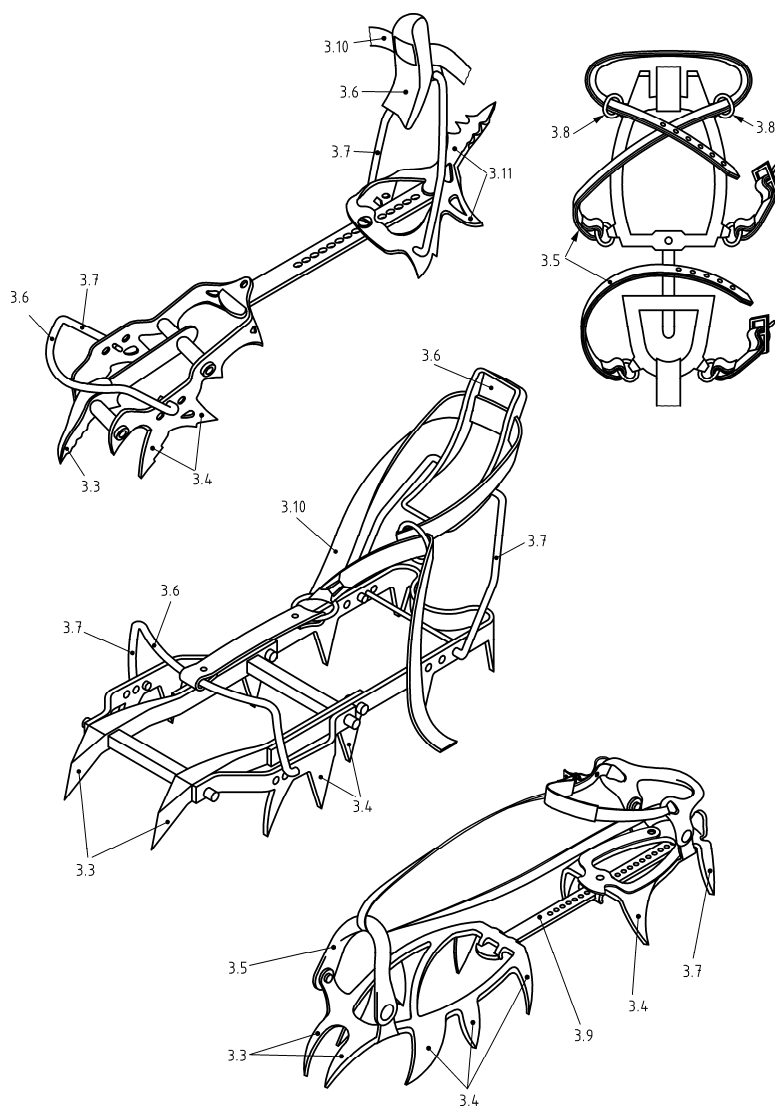
**3.10 retaining system**

system which prevents the climber from losing the crampon if the binding fails

**3.11 spur**

any other spike than front spikes and downward spikes

NOTE The numbers in this figure refer to the corresponding terms defined in Clause 3.



**Figure 1 — Parts of a crampon**