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OHUTUSNÕUDED JA KATSEMEETODID

Mountaineering equipment - Crampons - Safety  
requirements and test methods

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 893:2019 sisaldab Euroopa standardi EN 893:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 893:2019 consists of the English text of the European standard EN 893:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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EUROPEAN STANDARD

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NORME EUROPÉENNE

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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

This European Standard was approved by CEN on 2 May 2019.

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## European foreword

This document (EN 893:2019) 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 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of an identical text or by endorsement, at the latest by February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 893:2010.

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 Regulation (EU) 2016/425.

For relationship with Regulation (EU) 2016/425, see informative Annex ZA, which is an integral part of this document.

The main changes compared to the previous edition are as follows:

- Definition 3.8 for 'attachment rings or eyes' updated;
- update of Table 1, Strength of spikes;
- update of 5.1, Test samples;
- concretization of former Subclause 5.3, Apparatus, in title 'Test apparatus for bending strength on spikes' and content;
- update of 5.4.3, Bending strength test on spikes;
- update of 5.4.4, Transverse strength test on bails;
- update of Clause 6, Marking;
- update of Clause 7, Information supplied by the manufacturer;
- update of Annex A, Standards on mountaineering equipment;
- new Annex ZA;
- editorial updates.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

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

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

This document is a preview generated by EVS

## 1 Scope

This document specifies safety requirements and test methods for crampons intended to prevent the user from slipping when used in mountaineering on snow and ice including climbing mixed terrain.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 565:2017, *Mountaineering equipment – Tape – Safety requirements and test methods*

EN ISO 6508-1:2016, *Metallic materials – Rockwell hardness test – Part 1: Test method (ISO 6508-1:2016)*

ISO 7000, *Graphical symbols for use on equipment – Registered symbols*

ISO 9523:2015, *Touring ski-boots for adults – Interface with touring ski-bindings – Requirements and test methods*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

Note 1 to entry: 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