

Mountaineering equipment — Crampons — Safety requirements and test methods

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 15 and a back cover.

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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 21 August 1999.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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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of an identical text or by endorsement, at the latest by March 2000, and conflicting national standards shall be withdrawn at the latest by March 2000.

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

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

This European Standard supports essential requirements of EU Directive.

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 for information only.

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 standard specifies safety requirements and test methods for crampons for use in mountaineering on snow and ice including climbing mixed terrain.

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 565

Mountaineering equipment – Tape – Safety requirements and test methods

EN 10109-1

Metallic materials – Hardness test – Part 1: Rockwell test (scales A, B, C, D, E, F, G, H, K) and Rockwell superficial test (scales 15N, 30N, 45N, 15T, 30T and 45T)

ISO 9523

Touring ski-boots for adults – Interface with ski-binding

3 Definitions

For the purposes of this standard, the following definitions apply (see 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 spikes: Forward pointing spikes intended for use when climbing steep terrain.

3.4 downward spikes: Spikes other than front spikes 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.

3.8 attachment rings or eyes: Rings or eyes which are threaded by a part of the binding when fitted in accordance with the manufacturer's 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.

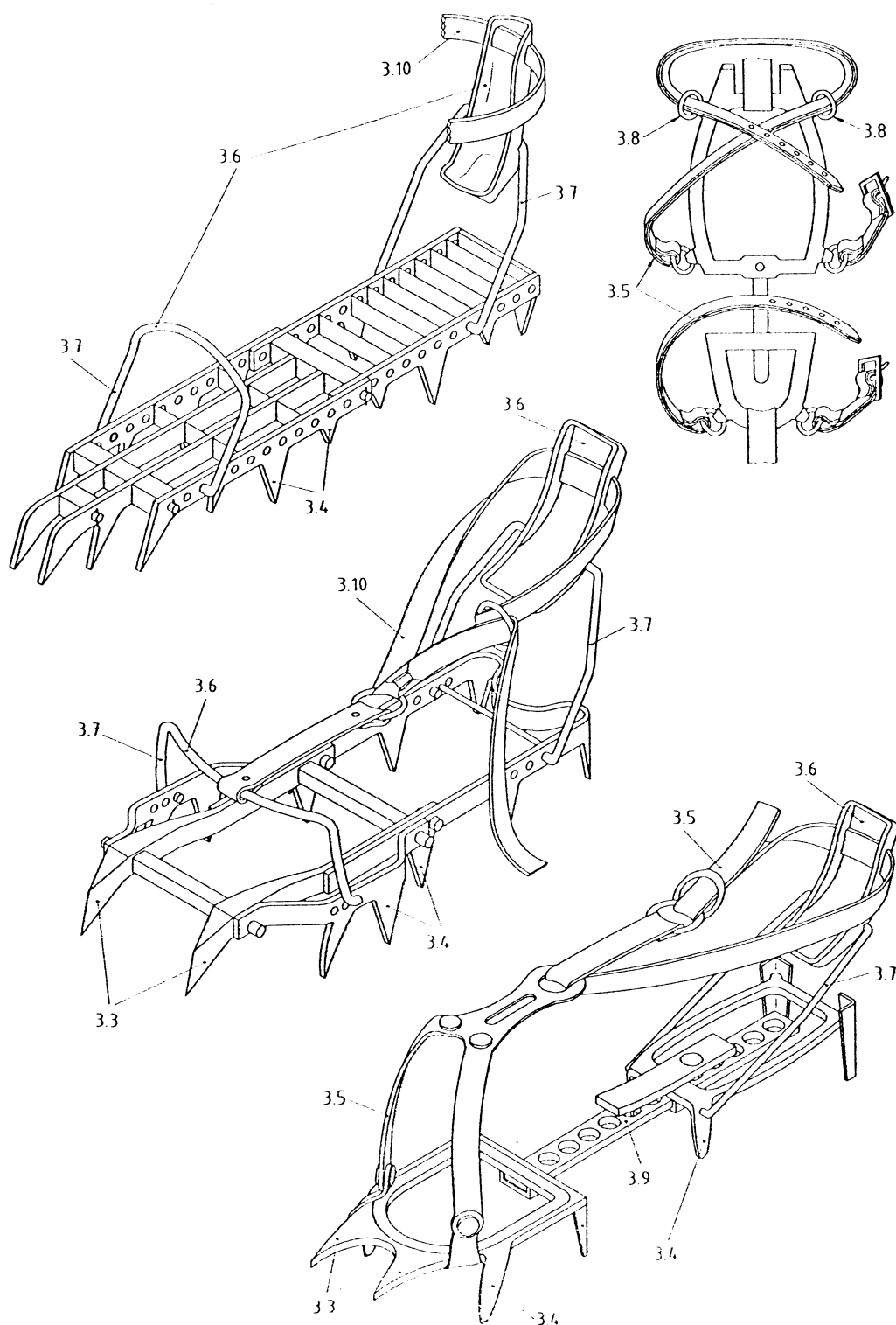


Figure 1: Parts of a crampon