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Nederlandse norm

NEN-EN 12492 (en)

Bergbeklimmersuitrusting - Helmen voor bergbeklimmers - Veiligheidseisen en beproevingsmethoden

Mountaineering equipment - Helmets for mountaineers - Safety requirements and test methods

ICS 13.340.20; 97.220.40

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Preview

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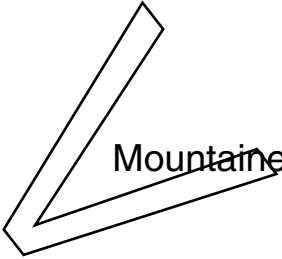
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Preview

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 158 "Head protection", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

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(s).

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

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Introduction

The protection given by a helmet depends on the circumstances of the accident and wearing a helmet cannot always prevent death or long term disability.

A proportion of the energy of an impact is absorbed by the helmet, thereby reducing the force of the blow sustained by the head. The structure of the helmet may be damaged in absorbing this energy and any helmet that sustains a severe blow needs to be replaced even if damage is not apparent.

Mountaineers' helmets are fitted with a retention system to retain the helmet on the head. However, there may be a foreseeable risk that helmets could become trapped and thereby cause a risk of strangulation.

1 Scope

This European Standard specifies safety requirements and test methods for safety helmets for use in mountaineering.

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 (including amendments).

EN 960 Headforms for use in the testing of protective helmets

ISO 4892-1 Plastics - Methods of exposure to laboratory light sources - Part 1 : General guidance

ISO 4892-2 Plastics - Methods of exposure to laboratory light sources - Part 2 : Xenon-arc sources

ISO 6487 Road vehicles - Measurement techniques in impact tests - Instrumentation

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply:

3.1

helmet for mountaineers (hereafter referred to as helmet)

headwear primarily intended to protect the upper part of a wearer's head against hazards which might occur during activities carried out by mountaineers.

3.2

shell

the hard, smoothly finished material that provides the general outer form of the helmet.

3.3

helmet type

helmet which is characterized by:

- a) the tradename or mark;
- b) the materials and dimensions of the shell;
- c) the materials and dimensions of the protective padding;
- d) the materials and dimensions of the retention system.

3.4

protective padding

material which is used to absorb impact energy.

3.5

comfort padding

liner material provided for the wearer's comfort.

3.6

sizing padding

liner material used for adjustment of the helmet size.

3.7

retention system

complete assembly by means of which the helmet is maintained in position on the head, including any devices for adjustment of the system or to enhance the wearer's comfort.

3.8

chin strap

part of the retention system consisting of a strap which passes under the wearer's jaw to retain the helmet in position.

3.9

headform

a shape replacing the head which is used for testing certain characteristics.

NOTE : the headform is designed in accordance with EN 960

4 Requirements

4.1 Construction requirements

4.1.1 Materials

For those parts of the helmet that come into contact with the skin, materials which are known to be likely to cause skin irritation or any adverse effect on health shall not be used. For a material not in general use, advice as to its suitability shall be sought before its introduction.

4.1.2 Projections

There shall be no sharp edges, roughness or projection on any part of the helmet which is in contact or potential contact with the wearer when the helmet is worn, such as is likely to cause injury to the wearer.

4.1.3 Retention system

The helmet shall be fitted with a retention system, including a chin strap.

The retention system shall have at least three separate points of attachment to the shell. The chin strap shall be adjustable in length. That part of the chin strap which comes into contact with the jaw shall have a minimum width of 15 mm under a load of 250 N.

4.1.4 Ventilation

All helmets shall be ventilated.

The sum of the cross-sectional areas of such ventilation shall not be less than 4 cm² when measured on the surface of the helmet.

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