



SLOVENSKI STANDARD

SIST EN 12277:2007

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SIST EN 12277:2000

Gorniška oprema - Pasovi - Varnostne zahteve in preskusne metode

Mountaineering equipment - Harnesses - Safety requirements and test methods

Bergsteigerausrüstung - Anseilgurte - Sicherheitstechnische Anforderungen und Prüfverfahren

Équipement d'alpinisme et d'escalade (Harnais) - 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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English Version

Mountaineering equipment - Harnesses - Safety requirements and test methods

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

Bergsteigerausrüstung - Anseilgurte -
Sicherheitstechnische Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 23 December 2006.

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 CEN Management Centre or to any CEN member.

This European Standard exists 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
Introduction	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Safety requirements	6
4.1 General.....	6
4.2 Strength	7
5 Test methods.....	7
5.1 Conditioning and test conditions.....	7
5.2 Procedure	8
6 Marking	10
7 Information supplied by the manufacturer	10
Annex A (informative) Standards on mountaineering equipment.....	14
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC.....	15

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Foreword

This document (EN 12277:2007) has been prepared by the 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 August 2007, and conflicting national standards shall be withdrawn at the latest by August 2007.

This document supersedes EN 12277:1998.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to support Essential Requirements of EU Directive 89/686/EEC.

For relationship with EU Directives, see informative Annex ZA, which is an integral part of this document.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

The text of this European Standard is based on the former UIAA-Standard E (Union Internationale des Associations d'Alpinisme), which has been prepared with international participation.

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

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1 Scope

This European Standard specifies safety requirements and test methods for harnesses for use in mountaineering including climbing. It is applicable to full body harnesses, small body harnesses, sit harnesses and chest harnesses.

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 892, *Mountaineering equipment — Dynamic mountaineering ropes — Safety requirements and test methods*

EN ISO 139, *Textiles — Standard atmospheres for conditioning and testing (ISO 139:2005)*

3 Terms and definitions

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

3.1 harness

assembly of narrow textile fabric(s) (hereafter referred to as tape), adjusting device(s) or other elements which fit around the body to support it in a hanging position after a fall

3.1.1

full body harness (type A)

harness which fits at least around the upper part of the body and the thighs.

NOTE This type of harness will support an unconscious person in a head up position

3.1.2

small body harness (type B)

full body harness according to type A intended for people up to 40 kg.

NOTE This type of harness is particularly suitable for people with an undeveloped or ill defined waistline

3.1.3

sit harness (type C)

harness in the form of a waist belt and connecting sub-pelvic support suitably arranged to support a conscious body in a sitting position

3.1.4

chest harness (type D)

harness which fits around the upper part of the body around the chest and under the armpits.

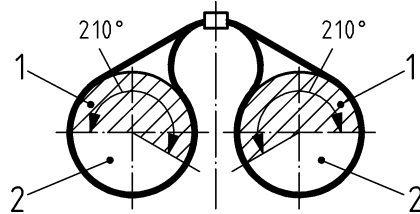
NOTE 1 This type of harness alone cannot support a person in the hanging position without permanent injury in less than one minute

NOTE 2 A type D harness should only be used in combination with a type C harness.

3.2
load transmitting part to the body

part of the harness which transmit load in the tests in accordance with 5.2.4, 5.2.5, 5.2.6 or 5.2.7 as appropriate

NOTE The following parts of the harness in contact with the dummy during the test are not defined as load transmitting parts to the body: shoulder straps, the part of the thighs excluded in Figure 1 and accessory parts.



- Key**
- 1 part not transmitting load to the body
 - 2 load transmitting part to the body

Figure 1 — Parts not transmitting load to the body in leg loops of a harness

3.3
part not transmitting load to the body
part of the harness not covered by load transmitting part to the body

3.4
adjusting device
device which allows adjustment to be made to the harness(es) to the needs of the wearer

3.5
rope attachment point
part of the harness intended for the attachment of the rope

NOTE Harnesses can have several attachment points.

3.6
belt
part of the harness which is around the waist

4 Safety requirements

4.1 General

4.1.1 Dimensions of tapes

For ergonomic reasons the tape assembly shall comply with the following dimensions:

- a) load transmitting parts to the body in contact with the dummy during the tests in accordance with 5.2.4.2, 5.2.5.2, 5.2.6.2 or 5.2.7.2 as appropriate:
 - i) harnesses of type B and D: 28 mm minimum;
 - ii) all other types of harnesses: 43 mm minimum;

- b) shoulder straps:
- i) harnesses of type B: 23 mm minimum;
 - ii) all other types of harnesses: 28 mm minimum;
- c) all other parts: no requirements specified.

4.1.2 Stability of tapes

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 become unravelled when one of the yarns breaks.

4.1.3 Threads

Where stitching is used to provide safety and strength (e.g. in joints) the visible area of stitching shall contrast with the tape in colour or surface appearance.

4.1.4 Components

Any component that can come into contact with the user or any textile part shall be free from burrs and sharp edges.

4.2 Strength

4.2.1 When tested in accordance with 5.2.4, 5.2.5, 5.2.6.3, 5.2.6.4 or 5.2.7 no load transmitting part to the body shall break completely. In addition the dummy shall not be released from the harness and no load bearing buckles or adjusting devices shall slip more than 20 mm.

4.2.2 Any loop or combination of loops which are specified in the instructions for use for abseiling shall pass the tests in accordance with 5.2.4.3, 5.2.5.3 or 5.2.6.3 as appropriate.

4.2.3 If there are multiple rope attachment points (for different sizes) the tests in accordance with 5.2.4, 5.2.5, 5.2.6 or 5.2.7 shall be repeated as appropriate for each size as specified in the information to be supplied.

NOTE Second and subsequent samples can be necessary.

4.2.4 If a harness of type B is adjustable, the range of adjustments shall be within the maximum and minimum ranges claimed on the label (in accordance with Clause 6). This shall be checked, after each of the adjustments, in accordance with 5.2.1.

4.2.5 If the type A or type B harness can be divided into a type C and a type D harness, each component which has a rope attachment point shall meet the requirements of this European Standard.

5 Test methods

5.1 Conditioning and test conditions

Condition the test samples in accordance with EN ISO 139.

Tests may then be done outside the conditioning room, but the temperature shall be $(23 \pm 5) ^\circ\text{C}$ and the tests shall begin within 5 min of removal from the conditioning room.