



SLOVENSKI STANDARD
SIST EN 564:2007

01-marec-2007

BUXca Yý U
SIST EN 564:1998

Gorniška oprema - Pomožna vrv - Varnostne zahteve in preskusne metode

Mountaineering equipment - Accessory cord - Safety requirements and test methods

Bergsteigerausrüstung - Reepschnur - Sicherheitstechnische Anforderungen und Prüfverfahren

iTeh STANDARD PREVIEW

Equipement d'alpinisme et d'escalade (Cordelette) - Exigences de sécurité et méthodes d'essai

[SIST EN 564:2007](https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0)

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0-4f4ec9c0>

Ta slovenski standard je istoveten z: EN 564:2006

ICS:

97.220.40	Oprema za športe na prostem in vodne športe	Outdoor and water sports equipment
-----------	---	------------------------------------

SIST EN 564:2007

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 564:2007

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-aded-c4ca7d4fec9c/sist-en-564-2007>

English Version

Mountaineering equipment - Accessory cord - Safety requirements and test methods

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

Bergsteigerausrüstung - Reepschnur -
Sicherheitstechnische Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 25 October 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

iTeh STANDARD PREVIEW

CEN members are the national standards bodies of Austria, Belgium, 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.

[SIST EN 564:2007](https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007)

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007>



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	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Safety requirements	5
4.1 Diameter.....	5
4.2 Tensile strength	6
4.3 Packaging	6
4.4 Mass per unit length.....	6
5 Test methods.....	6
5.1 Test sample	6
5.2 Conditioning.....	6
5.3 Diameter.....	7
5.4 Determination of tensile strength	7
5.5 Determination of mass per unit length.....	7
6 Marking	8
7 Information supplied by the manufacturer	8
Annex A (informative) Standards on mountaineering equipment.....	9
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC.....	10

SIST EN 564:2007

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007>

Foreword

This document (EN 564:2006) 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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

This document supersedes EN 564:1997.

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, 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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 564:2007

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007>

Introduction

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

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 564:2007

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007>

1 Scope

This European Standard specifies safety requirements and test methods for accessory cord comprising a core and a sheath, supplied on a drum or in separate lengths, for use in mountaineering including climbing.

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

EN ISO 2307:2005, *Fibre ropes — Determination of certain physical and mechanical properties (ISO 2307:2005)*

3 Terms and definitions

For the purposes of this document, the following term and definition applies.

3.1

accessory cord

cord or rope, comprising a core and a sheath, that has a nominal diameter of 4 mm to 8 mm and is intended to withstand forces, but not intended to absorb energy.

4 Safety requirements

[SIST EN 564:2007](https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007)

<https://standards.iteh.ai/catalog/standards/sist/11407201-247b-4395-adcd-c4ca7d4fec9c/sist-en-564-2007>

4.1 Diameter

The nominal diameter d_{nom} shall be one of the values given in Table 1.

The limit deviation between the actual value d_{eff} and the given nominal diameter shall be not more than $\begin{pmatrix} +0,5 \\ -0,2 \end{pmatrix}$ mm.

The actual diameter shall be determined according to 5.3.

Table 1 — Nominal diameter and minimum tensile strength

Nominal diameter d_{nom} mm	Minimum tensile strength $F_{\text{B min}}$ kN
4	3,2
5	5,0
6	7,2
7	9,8
8	12,8

4.2 Tensile strength

4.2.1 The tensile strength of the accessory cord shall be not less than the value of F_{B} , calculated using Equation (1):

$$F_{\text{B}} = d_{\text{nom}}^2 f \quad (1)$$

where

d_{nom} is the nominal diameter in millimetres;

f is 200 N/mm².

4.2.2 The minimum tensile strength of the accessory cord, $F_{\text{B min}}$, shall be as given in Table 1 for the appropriate diameter.

4.2.3 The tensile strength shall be determined according to 5.4.

4.3 Packaging

If accessory cord is supplied on a drum and consists of more than one piece, the ends of the pieces shall be clearly visible and not joined together.

No testing required.

4.4 Mass per unit length

This mass shall be given as information according to 7 d).

5 Test methods

5.1 Test sample

5.1.1 Carry out the tests described in 5.4 on one test sample.

5.1.2 Carry out the test described in 5.5 on one test sample.

5.2 Conditioning

Condition the test samples as described in EN ISO 139.

Carry out the test at a relative humidity which may be outside the standard atmosphere given in EN ISO 139, but at a temperature of $(23 \pm 5) ^\circ\text{C}$, in which case the test shall begin within 5 min of removal from conditioning atmosphere.

5.3 Diameter

Measure the actual diameter d_{eff} under a load of $(4 \pm 0,05)$ kg after the latter has been applied for (60 ± 15) s.

Ensure that the cross-sectional area of the accessory cord is not subjected to any deformation during the measurement.

Take the measurements in two directions around the diameter, starting at points 90° apart, at each of three locations approximately 300 mm apart. The length of the contact areas of the measuring instrument shall be (50 ± 1) mm.

Report the arithmetic mean of the six measurements, to the nearest 0,1 mm.

5.4 Determination of tensile strength

Carry out the determination of the tensile strength by using a tensile testing machine and fixing devices in accordance with 5.1 of EN ISO 2307:2005.

The minimum free length between attachment points shall be 200 mm.

Determine the loading speed, v , as a function of the free length of the test sample, using Equation (2):

$$v = 0,5 l \text{ with an accuracy of } \pm 20 \% \quad (2)$$

where

- v is the loading speed in millimetres per minute;
- l is the free length in millimetres between points of attachment.

5.5 Determination of mass per unit length

Carry out the test with a minimum free length between points of attachment of 1 300 mm.

NOTE There is no requirement for any particular type of fixing device.

Load the test sample without shock at a rate not exceeding 1 mm/s by means of a $(4 \pm 0,05)$ kg test mass.

Retain the maximum load for (60 ± 15) s and mark a reference length of $(1\,000 \pm 1)$ mm, with a distance between the marks and the points of attachment of at least 100 mm.

Release the load and cut the marked part from the test sample and determine its mass to the nearest 0,1 g.

Report the mass per unit length in grams per metre, to at least two significant figures.

There is no specific requirement for mass per unit length, but it can be marked on the drum or packaging of the accessory cord (see Clause 6).