SLOVENSKI STANDARD
SIST EN 362:1996

01-februar-1996

Osebna varovalna oprema za zaščito pred padci z višine - Vezni elementi

Personal protective equipment against falls from a height - Connectors

Persönliche Schutzausrüstung gegen Absturz - Verbindungselemente

Equipement de protection individuelle contre les chutes de hauteur - Connecteurs

Ta slovenski standard je istoveten z: **EN 362:1992**

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13.340.60	Zaščita pred padci in zdrsi	Protection against falling and slipping

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Descriptors: Personal protective equipment, accident prevention, protection against fall, safety devices, mooring devices, specifications, tests

English version

Personal protective equipment against falls from a height - Connectors

Equipement de protection individuelle contre les chutes de hauteur - Connecteurs

Persönliche Schutzausrüstung gegen Absturz - Verbindungselemente

This European Standard was approved by CEN on 1992-11-30. 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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Contents list

Foreword

This European Standard was prepared by the Technical Committee CEN/TC 160 "Protection against falls from a height including working belts", of which the secretariat is held by DIN.

This European Standard has been prepared under a mandate given to CEN by the Commission of the European Communities and the European Free Trade Association, and supports essential requirements of the EC Directive(s).

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of an identical text or by endorsement, at the latest by June 1993, and conflicting national standards shall be withdrawn at the latest by June 1993.

The Standard was approved and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

1 Scope

This standard specifies the requirements, test methods, instructions for use and marking for connectors. Connectors according to this standard are used in work positioning and fall arrest systems specified EN 358 and EN 363 respectively. Lanyards with connectors as terminations are specified in EN 354.

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 354 Personal protective equipment against falls from a height - Lanyards

EN 358 Personal protective equipment for work positioning and prevention of falls from a height - Work positioning systems

EN 363:1992 Personal protective equipment against falls from a height - Fall arrest systems

EN 364:1992 Personal protective equipment against falls from a height - Test methods

EN 365 Personal protective equipment against falls from a height - General requirements for instructions for use and for marking

3 Definitions

For the purpose of this standard the following definitions apply.

3.1 Connector

"A connecting element or component of a system. A connector may be a karabiner or a hook." [EN 363]

3.2 Hook

A connector with a self-closing and a self- or manual locking facility.

3.3 Karabiner

A special kind of hook.

4 Requirements

4.1 Design and Ergonomics

The general requirements for the design and ergonomics are specified in 5.1 of EN 363:1992.

4.2 Materials and construction

Connectors shall not have sharp or rough edges that may cut, abrade or otherwise damage ropes or webbing or cause inquiry to the user.

In order to reduce the probability of involuntary opening, hooks and karabiners shall be self-closing and self- or manual locking. They shall be capable of being opened only by at least two consecutive deliberate manual actions.

4.3 Static strength

When tested as described in 5.1 with a force of at least 15 kN the connector shall withstand the static strength test without tearing or rupture.

4.4 Corrosion protection

Elements of connectors manufactured from iron or steel shall be protected against corrosion in accordance with the following table of coatings:

Electroplated zinc on iron or steel		minimum 5 µm
Electroplated nickel on steel		minimum 20 µm
Sherardised steel		minimum 15 µm
Hot dip galvanized steel	1 - 2 mm thick	minimum 46 µm
	2 - 5 mm thick	minimum 64 µm
	over 5 mm thick	minimum 85 µm
	screw threads	nominal 42 µm

The plater shall be advised of the specification of the steel so that due attention is given to avoidance of hydrogen embrittlement.

All other elements manufactured from non-stainless material not listed in the table and stainless steel elements, when produced by hot-forging processes, shall be tested as described in 5.2.

5 Test methods

5.1 Static strength test

5.1.1 Apparatus

The static strength test apparatus shall comply with 4.1 of EN 364:1992.

5.1.2 Method

The static strength test shall be conducted as described in 5.4.2 of EN 364:1992.

5.2 Corrosion test

The corrosion test shall be conducted as described in 5.13 of EN 364:1992. with a minimum duration of 24 h.

6 Instructions for use and marking

If a connector is a component, it has to be supplied with instructions for use. These instructions for use shall be adopted by a manufacturer, if he incorporates the connector into a component, e. g. a lanyard, an energy absorber or a fall arrester.

The instructions for use and the marking of connectors shall comply with EN 365 and has to be indicated in the language of the country of sale.

In addition, the instructions for use shall state that manual locking hooks and karabiners shall be acceptable only in cases where the user does not have to attach and remove the hook or karabiner many times during a working day.