

## **Personal fall protection equipment - Rope access systems - Rope adjustment devices**

Personal fall protection equipment - Rope access  
systems - Rope adjustment devices

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12841:2006 sisaldab Euroopa standardi EN 12841:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.10.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12841:2006 consists of the English text of the European standard EN 12841:2006.</p> <p>This document is endorsed on 27.10.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This European Standard applies to rope adjustment devices intended for use in rope access systems. It specifies the requirements, test methods, marking and information supplied by the manufacturer. Rope adjustment devices conforming to this European Standard may be designed for the use of one person, or in case of rescue, for two persons simultaneously. The rope adjustment devices as specified are not suitable for use in a fall arrest system.</p>	<p><b>Scope:</b></p> <p>This European Standard applies to rope adjustment devices intended for use in rope access systems. It specifies the requirements, test methods, marking and information supplied by the manufacturer. Rope adjustment devices conforming to this European Standard may be designed for the use of one person, or in case of rescue, for two persons simultaneously. The rope adjustment devices as specified are not suitable for use in a fall arrest system.</p>
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ICS 13.340.60, 13.340.99

**Võtmesõnad:**

ICS 13.340.99; 13.340.60

English Version

Personal fall protection equipment - Rope access systems -  
Rope adjustment devices

Equipements de protection individuelle pour la prévention  
des chutes de hauteur - Systèmes d'accès par corde -  
Dispositif de réglage de corde pour maintien au poste de  
travail

Persönliche Absturzschutzausrüstung - Systeme für  
seilunterstütztes Arbeiten - Seileinstellvorrichtungen

This European Standard was approved by CEN on 19 July 2006.

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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.

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## Foreword

This document (EN 12841:2006) has been prepared by Technical Committee CEN/TC 160 “Protection against falls from a height including working belts”, 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 February 2007, and conflicting national standards shall be withdrawn at the latest by February 2007.

This document 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 89/686/EEC.

For relationship with EU Directive(s), 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.

## Introduction

In rope access systems, rope adjustment devices are used in combination with anchor lines, which could be a working line or a safety line, normally made of ropes conforming to type A of EN 1891. Rope adjustment devices are intended to be used to link sit harnesses (in accordance with EN 813) or full body harnesses (in accordance with EN 361) to a working line and a safety line to allow access, egress and changes in the work position, to give support and to protect against falls.

Attention is drawn to the limitations of rope adjustment devices. Type A rope adjustment devices are for use on safety lines to prevent a fall in the event of failure of the working line or its components. However in extreme circumstances, such as failure of the working line or its components during improper use of the system, type A rope adjustment devices may be called upon to prevent or arrest a limited fall. This is reflected in the test requirements. Type B and C rope adjustment devices are for ascending and descending a working line respectively, but also have a fall prevention function. The design of each type may be incorporated into another when, in every case, they should meet the higher requirements of any common or similar test.

In a rope access system, the worker should always be protected by a type A rope adjustment device connected to a safety line and a type B or C rope adjustment device connected to a working line. The two rope adjustment devices with their respective anchor line are all components of the protective system. It is fundamental for the safe use of a rope access system that the worker is always connected to both anchor lines, and that any slack in the anchor lines and connecting lanyards is avoided.

## 1 Scope

This European Standard applies to rope adjustment devices intended for use in rope access systems. It specifies the requirements, test methods, marking and information supplied by the manufacturer. Rope adjustment devices conforming to this European Standard may be designed for the use of one person, or in case of rescue, for two persons simultaneously. The rope adjustment devices as specified are not suitable for use in a fall arrest system.

## 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 362, *Personal protective equipment against falls from a height — Connectors*

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, maintenance, periodic examination, repair, marking and packaging*

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

EN 1891, *Personal protective equipment for the prevention of falls from a height — Low stretch kernmantel ropes*

EN ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system (ISO 7500-1:2004)*

prEN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray test (ISO 9227:2006)*

## 3 Terms and definitions

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

### 3.1

#### **adjustable anchor line**

anchor line with a rope adjustment device connected to it

### 3.2

#### **anchor line**

flexible line connected at least at one end to an anchor to provide a means of support, restraint or other safeguard for a person

NOTE An anchor line may be a working line or a safety line.

### 3.3

#### **anchor**

secure part of construction or structure to which an anchor line is connected