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Personal fall protection equipment — Guided type fall arresters including an anchor line

Part 1: Guided type fall arresters including a rigid anchor line

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A list of organizations represented on this committee can be obtained on request to its secretary.

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Foreword

This document (EN 353-1:2014) has been prepared by Technical Committee CEN/TC 160 “Protection against falls from 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of an identical text or by endorsement, at the latest by April 2015 and conflicting national standards shall be withdrawn at the latest by April 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document will supersede EN 353-1:2002.

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, see informative Annex ZA, which is an integral part of this document.

Annex B provides details of significant technical changes between this document and the previous edition EN 353-1:2002.

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

Introduction

This European Standard is intended to act as a complementary standard for existing European Standards covering other components used in personal fall protection systems.

The scope and the requirements are based on the philosophy that a guided type fall arrester including a rigid anchor line is rated to sustain the maximum dynamic load generated in a fall from a height by the mass of one person, including any equipment carried. This European Standard provides requirements and test methods for guided type fall arresters including a rigid anchor line used in personal fall protection systems in accordance with EN 363.

1 Scope

This European Standard specifies the requirements, test methods, marking, information supplied by the manufacturer and packaging for guided type fall arresters including a rigid anchor line. This anchor line is usually attached to or integrated in ladders or rungs adequately fixed to suitable structures. Guided type fall arresters including a rigid anchor line conforming to this European Standard are components of one of the fall arrest systems covered by EN 363.

This European Standard applies to rigid anchor lines which are intended to be installed vertically and/or with a combination of forward-leaning angle and/or sideways leaning angle between the true vertical and the vertical +15° (see Figure 2).

Multi-user applications, i.e. rigid anchor lines that allow more than one user to be attached at any one time, are not addressed in this document.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 361, *Personal protective equipment against falls from a height — Full body harnesses*

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 10264-2, *Steel wire and wire products — Steel wire for ropes — Part 2: Cold drawn non alloy steel wire for ropes for general applications*

EN 13411-5, *Terminations for steel wire ropes — Safety — Part 5: U-bolt wire rope grips*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply (for examples see Figure 1).

3.1
guided type fall arrester including a rigid anchor line
part of a fall arrest system, consisting of a guided type fall arrester and a rigid anchor line

Note 1 to entry: The guided type fall arrester and rigid anchor line form one product i.e. they are tested, certified and intended to be used together.

Note 2 to entry: An energy dissipating function may be part of the guided type fall arrester and/or the rigid anchor line.

3.2
guided type fall arrester
device with a self-locking function, a guide facility, a connecting element for connection to the appropriate attachment element of a full body harness, which accompanies the user during both upward and downward changes in position without requiring manual adjustment and locks automatically on the anchor line when a fall occurs