

## **Safety nets - Part 1: Safety requirements, test methods**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1263-1:2002 sisaldab Euroopa standardi EN 1263-1:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.09.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1263-1:2002 consists of the English text of the European standard EN 1263-1:2002.</p> <p>This document is endorsed on 18.09.2002 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 safety nets and their accessories for use in construction and assembly work to protect from deeper fall. It specifies safety requirements and test methods and is based on the performance characteristics of polypropene and polyamide fibres. Materials used in nets should have no significant reduction in mechanical properties between 10 °C and + 40 °C. This standard is not applicable to the installation of safety nets. For a European Standard covering the installation of safety nets see EN 1263-2.</p>	<p><b>Scope:</b></p> <p>This European Standard applies to safety nets and their accessories for use in construction and assembly work to protect from deeper fall. It specifies safety requirements and test methods and is based on the performance characteristics of polypropene and polyamide fibres. Materials used in nets should have no significant reduction in mechanical properties between 10 °C and + 40 °C. This standard is not applicable to the installation of safety nets. For a European Standard covering the installation of safety nets see EN 1263-2.</p>
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**Võtmesõnad:** aging, classifications, materials, ropes, safety, safety devices, safety engineering, safety nets, safety r, safety requirements, scaffolding, specification (approval), specifications, tensile force, testing, work safety, work scaffoldings, workplace safety

**English version**

**Safety nets**

**Part 1: Safety requirements, test methods**

Filets de sécurité –  
Partie 1: Exigences de sécurité,  
méthodes d'essai

Schutznetze (Auffangnetze) –  
Teil 1: Sicherheitstechnische  
Anforderungen, Prüfverfahren

This European Standard was approved by CEN on 2001-11-16.

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 Management Centre 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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## Foreword

This document (EN 1263-1:2002) has been prepared by Technical Committee CEN /TC 53, "Temporary works 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 October 2002, and conflicting national standards shall be withdrawn at the latest by October 2002.

This document supersedes EN 1263-1:1997.

This European Standard is one of a series of standards as listed below:

EN 1263-1, Safety nets — Part 1: Safety requirements, test methods.

EN 1263-2, Safety nets — Part 2: Safety requirements for the erection of safety nets.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

The annexes A and B are informative.



## Introduction

Safety nets for use in construction and other assembly work, e.g. as devices to catch falling persons during the construction of halls and bridges, in open line construction as side protection, as anti-fall devices or devices to catch falling persons on working scaffolds, as side protection for safety scaffolds at roofs and in tunnelling can be chosen as a technically suitable and economic solution to catch persons falling from a height. They serve to protect from deeper falls even when large areas in plan occur.

In contrast to being secured by a lanyard and harness the mobility of persons working above the area protected by safety nets is not impaired during all work activity. Moreover, the use of safety nets has the advantage to catch persons falling from a height more softly than lanyards caused by large plastic deformations of the net.

Attention should be paid to the fact that the ageing sensitivity of safety nets due to exposure to UV requires that they are exposed to open air condition a limited time only and then be withdrawn from service. For the evaluation of the ageing behaviour tests have been carried out over a period between 6 months and 24 months which apply to the most commonly used materials polyamide and polypropylene. The specifications of the limit values of breaking energy are based on these tests and on drop tests with articulated dummies and test spheres. After having been subjected to respective loading by persons falling from height the safety nets should be replaced, if appropriate.

## 1 Scope

This European Standard applies to safety nets and their accessories for use in construction and assembly work to protect from deeper fall. It specifies safety requirements and test methods and is based on the performance characteristics of polypropylene and polyamide fibres. Materials used in nets should have no significant reduction in mechanical properties between  $-10\text{ }^{\circ}\text{C}$  and  $+40\text{ }^{\circ}\text{C}$ .

This standard is not applicable to the installation of safety nets. For a European Standard covering the installation of safety nets see EN 1263-2.

## 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 (including amendments).

EN 919, *Fibre ropes for general service — Determination of certain physical and mechanical properties.*

EN 1263-2, *Safety nets — Part 2: Safety requirements for the erection of safety nets.*

EN ISO 7500-1, *Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines (ISO 7500-1:1999).*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications.*

ISO 1806, *Fishing nets — Determination of mesh breaking load of netting.*

ISO 4892-1, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance.*

## 3 Symbols and definitions

### 3.1 Symbols

The mainly used symbols are given in Table 1.