

<b>STN</b>	<b>Osobné ochranné prostriedky proti pádu z výšky Časť 2: Záchytné zariadenia vedeného typu na pružnom kotviacom vedení</b>	<b>STN EN 353-2</b>  83 2619
------------	---	--

Personal fall protection equipment - Part 2: Guided type fall arresters including a flexible anchor line

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/24

Rozpracovaná prekladom.

Obsahuje: EN 353-2:2024

Oznámením tejto normy sa ruší  
STN EN 353-2 (83 2619) zo septembra 2003

**139497**

EUROPEAN STANDARD

**EN 353-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2024

ICS 13.340.60

Supersedes EN 353-2:2002

English Version

## Personal fall protection equipment - Part 2: Guided type fall arresters including a flexible anchor line

Équipement de protection individuelle contre les  
chutes de hauteur - Partie 2 : Antichutes mobiles  
incluant un support d'assurage flexible

Persönliche Absturzschutzausrüstung - Teil 2:  
Mitlaufende Auffanggeräte einschließlich beweglicher  
Führung

This European Standard was approved by CEN on 21 July 2024.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## EN 353-2:2024 (E)

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms and definitions</b> .....	<b>7</b>
<b>4 Requirements</b> .....	<b>11</b>
<b>4.1 General</b> .....	<b>11</b>
<b>4.2 Materials and construction</b> .....	<b>11</b>
<b>4.2.1 Materials</b> .....	<b>11</b>
<b>4.2.2 Construction</b> .....	<b>11</b>
<b>4.3 Static strength</b> .....	<b>12</b>
<b>4.3.1 Energy dissipating element preloading</b> .....	<b>12</b>
<b>4.3.2 GTFA including the connection element and flexible anchor line</b> .....	<b>12</b>
<b>4.3.3 Flexible anchor line – man-made fibre ropes</b> .....	<b>12</b>
<b>4.4 Dynamic performance and function</b> .....	<b>12</b>
<b>4.4.1 General</b> .....	<b>12</b>
<b>4.4.2 Dynamic performance</b> .....	<b>13</b>
<b>4.4.3 Function</b> .....	<b>13</b>
<b>4.5 Dynamic strength and integrity</b> .....	<b>14</b>
<b>4.6 Dynamic performance – inclined and horizontal application</b> .....	<b>14</b>
<b>4.7 Dynamic strength – inclined and horizontal application</b> .....	<b>14</b>
<b>4.8 Corrosion resistance</b> .....	<b>15</b>
<b>4.9 Marking and information</b> .....	<b>15</b>
<b>5 Test methods</b> .....	<b>15</b>
<b>5.1 General examination of material and construction</b> .....	<b>15</b>
<b>5.1.1 Examination – GTFA including a flexible anchor line</b> .....	<b>15</b>
<b>5.1.2 Examination – connecting element</b> .....	<b>15</b>
<b>5.1.3 Function test – vertical application</b> .....	<b>15</b>
<b>5.1.4 Function test – inclined application</b> .....	<b>16</b>
<b>5.2 Static strength</b> .....	<b>17</b>
<b>5.2.1 Energy dissipating element preloading</b> .....	<b>17</b>
<b>5.2.2 GTFA including the connection element and flexible anchor line</b> .....	<b>17</b>
<b>5.2.3 Flexible anchor line – man-made fibre ropes</b> .....	<b>19</b>
<b>5.3 Dynamic performance and function tests</b> .....	<b>20</b>
<b>5.3.1 Apparatus</b> .....	<b>20</b>
<b>5.3.2 Method – dynamic performance</b> .....	<b>20</b>
<b>5.3.3 Method – wet condition function</b> .....	<b>21</b>
<b>5.3.4 Method – cold condition function</b> .....	<b>22</b>
<b>5.3.5 Method – minimum distance from flexible anchor line function</b> .....	<b>22</b>
<b>5.3.6 Method – override function</b> .....	<b>23</b>
<b>5.4 Dynamic strength and integrity test</b> .....	<b>25</b>
<b>5.4.1 Apparatus</b> .....	<b>25</b>
<b>5.4.2 Method</b> .....	<b>25</b>
<b>5.5 Dynamic tests for horizontal and inclined applications</b> .....	<b>27</b>
<b>5.5.1 Apparatus</b> .....	<b>27</b>
<b>5.5.2 Test sample</b> .....	<b>27</b>

<b>5.5.3</b>	<b>Method – dynamic performance .....</b>	<b>27</b>
<b>5.5.4</b>	<b>Method – dynamic strength and integrity .....</b>	<b>27</b>
<b>5.6</b>	<b>Corrosion resistance .....</b>	<b>31</b>
<b>6</b>	<b>Marking .....</b>	<b>32</b>
<b>7</b>	<b>Manufacturer’s instructions and information .....</b>	<b>33</b>
<b>8</b>	<b>Packaging.....</b>	<b>34</b>
<b>Annex A</b>	<b>(informative) Explanatory information on this edition of the standard EN 353-2:2024 .....</b>	<b>35</b>
<b>Annex B</b>	<b>(informative) Significant technical changes between this European Standard and the previous edition EN 353-2:2002 .....</b>	<b>37</b>
<b>Annex ZA</b>	<b>(informative) Relationship between this European Standard and the essential requirements of EU Regulation 2016/425 aimed to be covered.....</b>	<b>40</b>
<b>Bibliography</b>	<b>.....</b>	<b>42</b>

**EN 353-2:2024 (E)****European foreword**

This document (EN 353-2:2024) 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 March 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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

This document supersedes EN 353-2:2002.

Annex B provides details of significant changes between this European Standard and the previous edition EN 353-2:2002.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## **Introduction**

This document 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 flexible 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 document provides requirements and test methods for guided type fall arresters including a flexible anchor line used in personal fall protection systems in accordance with EN 363:2018.

## EN 353-2:2024 (E)

### 1 Scope

This document specifies requirements, test methods, marking, manufacturer's instructions and information and packaging for guided type fall arresters including a flexible anchor line forming a single product. This anchor line is attached to an upper anchor point for vertical and inclined applications; for horizontal applications, the anchor point can be located at the user's foot level. Guided type fall arresters including a flexible anchor line conforming to this document are components of one of the fall arrest systems covered by EN 363:2018. Other types of fall arresters are specified in EN 353-1:2014+A1:2017 or EN 360:2023.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 362:2004, *Personal protective equipment against falls from a height — Connectors*

EN 363:2018, *Personal fall protection equipment — Personal fall protection systems*

EN 364:1992, *Personal protective equipment against falls from a height — Test methods*

EN 365:2004, *Personal protective equipment against falls from a height — General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging*

EN 564:2023, *Mountaineering equipment — Accessory cords — Safety requirements and test methods*

EN 10025-2:2019, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10278:2023, *Dimensions and tolerances of bright steel products of stainless and other special steels*

EN 13411-5:2003+A1:2008, *Terminations for steel wire ropes — Safety — Part 5: U-bolt wire rope grips*

EN ISO 683-1:2018, *Heat-treatable steels, alloy steels and free-cutting steels — Part 1: Non-alloy steels for quenching and tempering (ISO 683-1:2016)*

EN ISO 7500-1:2018, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system (ISO 7500-1:2018)*

EN ISO 9227:2022, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227:2022)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**