

STN	Osobné ochranné prostriedky proti pádu z výšky Zaťahovacie zachytávače pádu	STN EN 360 83 2618
------------	--	--------------------------------------

Personal fall protection equipment - Retractable type fall arresters

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. 03/24

Obsahuje: EN 360:2023

Oznámením tejto normy sa od 30.06.2025 ruší
STN EN 360 (83 2618) z decembra 2003

138234

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN 360

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2023

ICS 13.340.60

Supersedes EN 360:2002

English Version

Personal fall protection equipment - Retractable type fall arresters

Équipement de protection individuelle contre les chutes de hauteur - Antichutes à rappel automatique

Persönliche Absturzschutzausrüstung - Höhengsicherungsgeräte

This European Standard was approved by CEN on 20 June 2022.

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 360:2023 (E)

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Requirements	9
4.1	Design and ergonomics	9
4.2	Materials and construction	9
4.3	Retraction tension and function	10
4.4	Static strength	11
4.5	Dynamic tests	12
4.5.1	General	12
4.5.2	Dynamic performance - overhead attachment in a vertical application	14
4.5.3	Dynamic function - overhead attachment in a vertical application	14
4.5.4	Dynamic strength - overhead attachment in a vertical application	14
4.5.5	Dynamic performance - foot level attachment in a horizontal application	14
4.5.6	Dynamic strength and integrity - foot level attachment in a horizontal application	14
4.5.7	Dynamic performance - foot level attachment in a vertical application	15
4.5.8	Specific dynamic requirements for twin RTFAs	15
4.6	Marking and information	15
5	Test methods	15
5.1	General examination of material and construction	15
5.2	Conditioning	16
5.2.1	General	16
5.2.2	Heat	16
5.2.3	Cold	17
5.2.4	Wet	17
5.2.5	Corrosion	17
5.3	Retraction test	17
5.3.1	General	17
5.3.2	Method - retraction tension - vertical application	17
5.3.3	Method - retraction tension - horizontal application	19
5.3.4	Method - retraction function	20
5.3.5	Method - retraction function with rotation	21
5.4	Static strength	22
5.4.1	Apparatus	22
5.4.2	Method	22
5.5	Dynamic performance	22
5.5.1	Apparatus and test sample	22
5.5.2	Method	22
5.6	Dynamic performance at the maximum rated load after conditioning	24
5.6.1	Apparatus and test sample	24
5.6.2	Method	24
5.7	Dynamic performance at near-full extraction	25
5.7.1	Apparatus and test sample	25
5.7.2	Method	25

5.8	Dynamic function at the minimum rated load	27
5.8.1	Apparatus	27
5.8.2	Method.....	27
5.9	Dynamic strength	27
5.9.1	Apparatus	27
5.9.2	Method.....	27
5.10	Dynamic tests in a horizontal application	28
5.10.1	Apparatus	28
5.10.2	Test sample	29
5.10.3	Method - dynamic performance	29
5.10.4	Method - dynamic strength and integrity	30
5.11	Dynamic tests in a horizontal application with a lateral offset	33
5.11.1	Apparatus	33
5.11.2	Test sample	33
5.11.3	Method - dynamic performance	33
5.11.4	Method - dynamic strength and integrity	34
5.12	Dynamic performance - foot level attachment in a vertical application	37
5.12.1	Apparatus and test sample.....	37
5.12.2	Method.....	37
5.13	Dynamic performance - twin RTFAs with both lanyards in a horizontal opposite arrangement.....	39
5.13.1	Apparatus and test sample.....	39
5.13.2	Method.....	39
6	Marking	43
7	Manufacturer's instructions and information	45
8	Packaging.....	48
Annex A	(normative) Additional requirements and test methods for RTFAs and twin RTFAs for use in mobile elevating work platforms.....	49
A.1	Introduction.....	49
A.2	Requirements.....	49
A.3	Marking and information.....	49
A.4	Test method	49
A.4.1	General examination of materials and construction	49
A.4.2	Dynamic performance and integrity	50
A.5	Marking	53
A.6	Manufacturer's instructions and information	54
Annex B	(informative) Explanatory information on this edition of EN 360:2023.....	55
Annex C	(informative) Significant technical changes between this European Standard and the previous edition EN 360:2002	58
Annex ZA	(informative) Relationship between this European Standard and the essential requirements of EU Regulation 2016/425 aimed to be covered.....	63
	Bibliography	65

EN 360:2023 (E)

European foreword

This document (EN 360:2023) 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 June 2024, and conflicting national standards shall be withdrawn at the latest by June 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 360:2002.

The significant technical changes between this document and the previous edition are described in the informative Annex C.

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.

1 Scope

This document specifies requirements, test methods, marking, manufacturer's instructions and information for retractable type fall arresters (RTFAs) and applies to a RTFA with a single retractable lanyard and a RTFA with two retractable lanyards (twin RTFA) as components of one of the fall arrest systems covered by EN 363:2018.

This European standard is not applicable to RTFAs and twin RTFAs used in any sport or recreational activity.

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 358:2018, *Personal protective equipment for work positioning and prevention of falls from a height — Belts and lanyards for work positioning or restraint*

EN 361:2002, *Personal protective equipment against falls from a height — Full body harnesses*

EN 362:2004, *Personal protective equipment against falls from a height — Connectors*

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 10277:2018, *Bright steel products — Technical delivery conditions*

EN 10278:1999, *Dimensions and tolerances of bright steel products*

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN