ILNAS

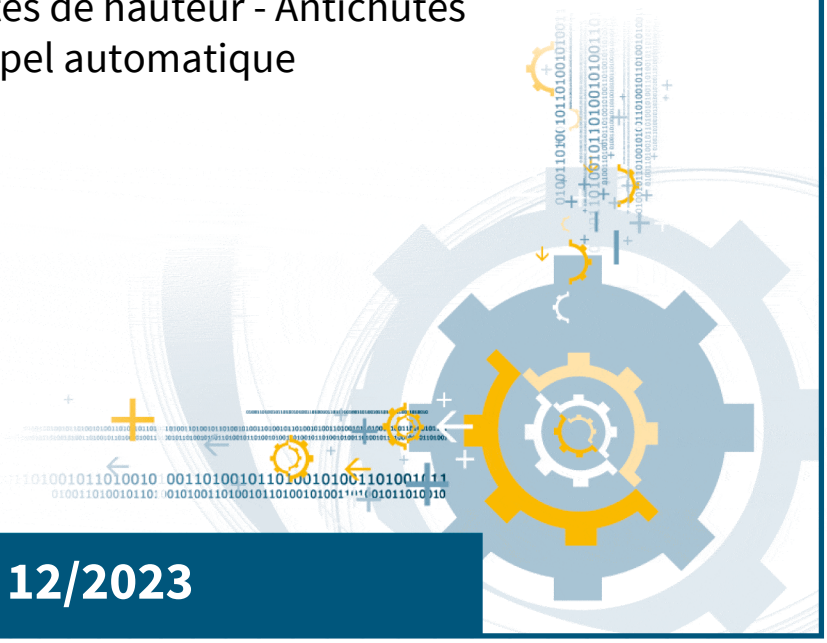
Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 360:2023

Personal fall protection equipment - Retractable type fall arresters

Persönliche Absturzschutzausrüstung - Höhensicherungsgeräte

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



12/2023

National Foreword

This European Standard EN 360:2023 was adopted as Luxembourgish Standard ILNAS-EN 360:2023.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
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ILNAS-EN 360:2023

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 360

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 - Höhensicherungsgeräte

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

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Contents

Page

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)*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org

3.1
retractable type fall arrester
RTFA
fall arrester with a self-locking function and an automatic tensioning and return facility with one retractable lanyard.

Note 1 to entry: Figure 1a shows an example of a RTFA.

Note 2 to entry: Figure 2a, Figure 2b and Figure 2c show directions of use.

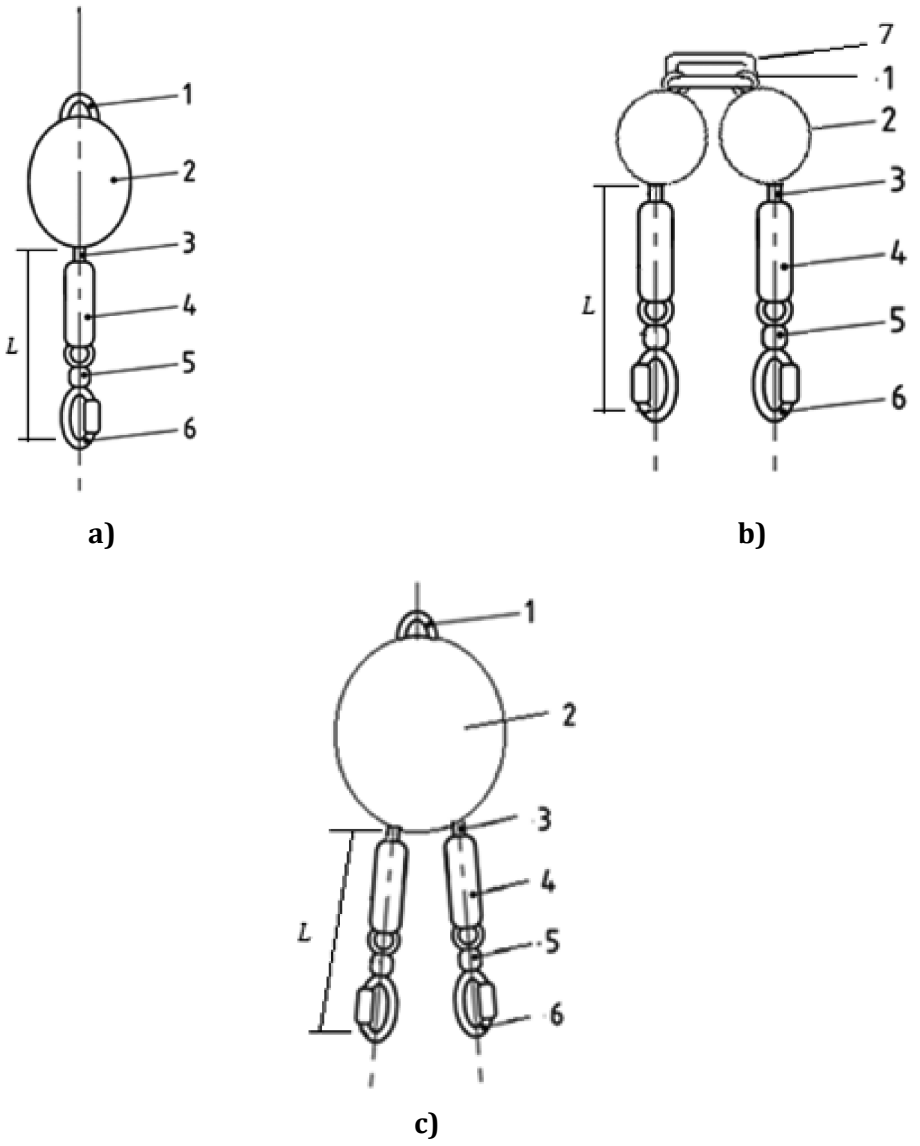
Note 3 to entry: An energy dissipating element may be in or at the housing of the RTFA and/or part of the retractable lanyard.

Note 4 to entry: An RTFA that includes a feature to manually prevent only extraction may require additional testing, e.g. to EN 358.

3.2
twin RTFA
fall arrester with a self-locking function and an automatic tensioning and return facility with two retractable lanyards

Note 1 to entry: Twin RTFAs may be two independent devices connected together or may be two retractable lanyards integrated into a single housing. See Figure 1b and Figure 1c.

Note 2 to entry: An energy dissipating element(s) may be in or at the housing of the twin RTFA and/or part of the retractable lanyards.



Key

L	non-retractable section	4	energy dissipating element (if applicable)
1	attachment point	5	swivel
2	housing	6	connector or connection element
3	retractable lanyard(s)	7	permanent connection element

Figure 1 — Examples of RTFAs with one or two retractable lanyards

3.3
retractable lanyard
connecting element of a RTFA, which may be of wire rope, man-made fibre webbing or man-made fibre rope and may include an energy dissipating element

Note 1 to entry: A retractable lanyard may be any length.