

LIFTIDE KONSTRUKTSIOONI JA PAIGALDUSE  
OHUTUSEESKIRJAD. ERINÕUDED REISIJATE JA KAUBA  
LIFTIDELE. OSA 71: VANDALISMIKINDLAD LIFTID

Safety rules for the construction and installation of lifts  
- Particular applications to passenger lifts and goods  
passenger lifts - Part 71: Vandal resistant lifts

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 81-71:2022 sisaldab Euroopa standardi EN 81-71:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 81-71:2022 consists of the English text of the European standard EN 81-71:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.05.2022.	Date of Availability of the European standard is 25.05.2022.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

ICS 91.140.90

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EUROPEAN STANDARD

**EN 81-71**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 91.140.90

Supersedes EN 81-71:2018+AC:2019

English Version

**Safety rules for the construction and installation of lifts -  
Particular applications to passenger lifts and goods  
passenger lifts - Part 71: Vandal resistant lifts**

Règles de sécurité pour la construction et l'installation  
des ascenseurs - Applications particulières pour les  
ascenseurs et les ascenseurs de charge - Partie 71 :  
Ascenseurs résistant aux actes de vandalisme

Sicherheitsregeln für die Konstruktion und den Einbau  
von Aufzügen - Besondere Anwendungen für  
Personen- und Lastenaufzüge - Teil 71:  
Schutzmaßnahmen gegen mutwillige Zerstörung

This European Standard was approved by CEN on 20 April 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.

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

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## European foreword

This document (EN 81-71:2022) has been prepared by Technical Committee CEN/TC 10 “Lifts, escalators and moving walks”, the secretariat of which is held by AFNOR.

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 November 2022, and conflicting national standards shall be withdrawn at the latest by May 2024.

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 81-71:2018+AC:2019.

In comparison with the previous edition, the following significant changes have been made:

- reference to Category 0 has been removed;
- normative references have been updated;
- Annex ZA has been modified.

No technical changes have been made in Clause 5 during this revision.

This document is intended to be used in conjunction with EN 81-20:2020, which gives the basic requirements for passenger and goods passenger lifts.

This document is part of the EN 81 series of standards. The structure of the EN 81 series is described in CEN/TR 81-10:2008.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), 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, Turkey and the United Kingdom.

## Introduction

This document is a type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate in the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

This document provides requirements for the design of lifts where it is considered that additional measures are required in order to protect against the risk of vandalism. Every lift is subject to some amount of careless and rough use. Additional protective measures against deliberate acts that may result in equipment damage or injury to persons are referred to in this document as Category 1 or Category 2.

The following assumptions were made whilst writing this document:

- The potential for vandalism of lifts depends on the following factors:
  - access to the lift installation;
  - the surrounding area;
  - observation of the lift by others in the vicinity;
  - the extent of building security and surveillance of the lift;
  - period of access to the building, including the lift (24 h);
  - vulnerability of lift.
- The forces exerted on the lift and its equipment will be as a result of manual effort or by item(s) such as those listed in Annex E.

## 1 Scope

This document defines requirements addressing the significant hazards related to lifts, which are subject to different expected levels of vandalism (see Annex A and Annex D for further information).

Those requirements are supplementary (additional and/or modified) to the requirements of EN 81-20:2020, intended to mitigate the effect of vandalism.

This document is not applicable to lifts installed before the date of its publication.

## 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 81-20:2020, *Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods — Part 20: Passenger and goods passenger lifts*

EN 81-28:2022, *Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods — Part 28: Remote alarm on passenger and goods passenger lifts*

EN 81-72:2020, *Safety rules for the construction and installation of lifts — Particular applications for passenger and goods passenger lifts — Part 72: Firefighters lifts*

EN 81-73:2020, *Safety rules for the construction and installation of lifts — Particular applications for passenger and goods passenger lifts — Part 73: Behaviour of lifts in the event of fire*

EN 13501-1:2018, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 60529:1991,<sup>1</sup> *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 12100:2010, EN 81-20:2020 and the following apply.

ISO and IEC maintain terminological 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

#### **car ceiling**

parts of the car roof accessible from inside the car

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<sup>1</sup> As impacted by EN 60529:1991/A1:2000, EN 60529:1991/A2:2013 and EN 60529:1991/A2:2013/AC:2019-02.