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de l'accréditation, de la sécurité et qualité
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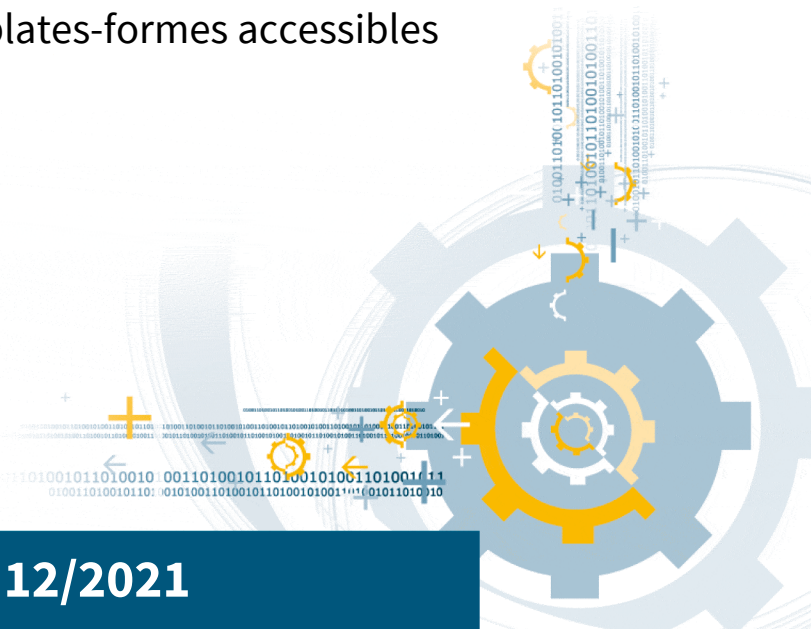
ILNAS-EN 12158-1:2021

**Builders' hoists for goods - Part 1:
Hoists with accessible platforms**

Bauaufzüge für den Materialtransport -
Teil 1: Aufzüge mit betretbarer Plattform

Monte-matériaux - Partie 1 : Monte-
matériaux à plates-formes accessibles

12/2021



National Foreword

This European Standard EN 12158-1:2021 was adopted as Luxembourgish Standard ILNAS-EN 12158-1:2021.

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Builders' hoists for goods - Part 1: Hoists with accessible platforms

Monte-matériaux - Partie 1 : Monte-matériaux à plates-formes accessibles

Bauaufzüge für den Materialtransport - Teil 1: Aufzüge mit betretbarer Plattform

This European Standard was approved by CEN on 17 October 2021.

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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 12158-1:2021) 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of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by December 2023.

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 12158-1:2000+A1:2010.

In comparison with the previous edition, the following technical modifications have been made:

- a) static calculations;
- b) out-of-service wind;
- c) safety requirements for platform locking;
- d) enclosures for platform and landing gates;
- e) requirements for platform inclination on twin-masted units;
- f) integration of performance levels according to EN ISO 13849-1:2015;
- g) monitoring of the inadvertent brake release.

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 one of a series of standards produced by CEN/TC 10/SC 1 “Building hoists” as part of the CEN programme of work to produce machinery safety standards.

The document is a type-C standard relating to safety for builder’s hoists for goods.

This document is a type-C standard as stated in EN ISO 12100:2010.

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 at 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. In addition, machinery shall comply as appropriate with EN ISO 12100:2010 for hazards which are not covered by this document.

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

1 Scope

1.1 This document deals with power-operated temporarily installed builder's hoists (referred to as "hoists" in this document) intended for use by persons who are permitted to enter sites of engineering and construction, serving landing levels, having a load-carrying device:

- designed for the transportation of goods only;
- guided;
- travelling vertically or along a path within 15° max. of the vertical;
- supported or sustained by drum-driven wire rope, chain, rack and pinion or an expanding linkage mechanism;
- where masts, when erected, require or do not require support from separate structures;
- which permits the access of instructed persons during loading and unloading;
- which are driven by appointed persons;
- which permits, if necessary, during erection, dismantling, maintenance and inspection, the access and travel by persons who are competent and authorized.

1.2 The document deals with the significant hazards, hazardous situations or hazardous events relevant to the machine as listed in Annex C which arise during the various phases in the life of the machine and describes methods for the elimination or reduction of these hazards when it is used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer.

1.3 This document does not specify the additional requirements for:

- hydraulic installations;
- operation in severe conditions (e.g. extreme climates, strong magnetic fields);
- lightning protection;
- operation subject to special rules (e.g. potentially explosive atmospheres);
- electromagnetic compatibility (emission, immunity);
- handling of loads the nature of which could lead to dangerous situations (e.g. molten metal, acids/bases, radiating materials, fragile loads);
- the use of combustion engines;
- the use of remote controls;
- hazards occurring during manufacture;
- hazards occurring as a result of mobility;
- hazards occurring as a result of being erected over a public road;

- earthquakes;
- noise;
- ergonomics;
- fixed guards;
- operator intervention.

1.4 This document does not apply to:

- builder's hoists for persons and materials;
- lifts according to EN 81-3:2000+A1:2008 and EN 81-20:2020;
- inclined hoists according to EN 12158-2:2000+A1:2010;
- work cages suspended from lifting appliances;
- work platforms carried on the forks of fork trucks;
- transport platforms according to EN 16719:2018;
- work platforms;
- funiculars;
- lifts specially designed for military purposes;
- mine lifts;
- theatre elevators;
- special purpose lifts.

1.5 This document deals with the hoist installation. It includes the base frame and base enclosure but excludes the design of any concrete, hard core, timber or other foundation arrangement. It includes the design of mast ties but excludes the design of anchorage bolts to the supporting structure. It includes the landing gates and their frames but excludes the design of any anchorage fixing bolts to the supporting structure.

1.6 This document does not apply to builders' hoists for goods (hoists with accessible platforms) manufactured before the date of publication of this document by CEN.