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**Lifts for the transport of persons and
goods —**

**Part 1:
Safety rules for the construction and
installation of passenger and goods
passenger lifts**

Elévateurs pour le transport de personnes et d'objets —

*Partie 1: Règles de sécurité pour la construction et l'installation
d'ascenseurs et d'ascenseurs de charge*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 178, *Lifts, escalators, passenger conveyors*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

A list of all parts in the ISO 8100 series can be found on the ISO website.

In this corrected version of ISO 8100:2019, the title has been changed.

Introduction

0.1 General

The content of this document was already published in EN 81-20:2014. This document contains only editorial changes and update of references.

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

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of 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.

0.2 General remarks

0.2.1 The object of this document is to define safety rules related to passenger and goods passenger lifts with a view to safeguarding persons and objects against the risk of accidents associated with the normal use, maintenance and emergency operation of lifts.

0.2.2 A study has been made of the various possible hazards with lifts, see [Clause 4](#).

0.2.2.1 Persons to be safeguarded:

- a) users, including passengers and competent and authorized persons, e.g. maintenance and inspection personnel (see EN 13015);
- b) persons in the surrounding area of the well, or any machine room and pulley room, who can be effected by the lift.

0.2.2.2 Property to be safeguarded:

- a) loads in car;
- b) components of the lift installation;
- c) building in which the lift is installed;
- d) immediate surrounding area of the lift installation.

NOTE EN 81-71 gives additional requirements covering lifts resistant to acts of vandalism and EN 81-77 gives additional requirements covering lifts in seismic conditions.

0.2.3 When the weight, size and/or shape of components prevent them from being moved by hand, they are:

- a) fitted with attachments for lifting gear; or
- b) designed so that they can be fitted with such attachments (e.g. by means of threaded holes); or
- c) shaped in such a way that standard lifting gear can easily be attached.

0.3 Principles

0.3.1 General

In drawing up this document, the following principles have been used:

0.3.2 This document does not repeat all the general technical rules applicable to every electrical, mechanical, or building construction including the protection of building elements against fire.