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

Part 30:
Class I, II, III and VI lifts installation

*Ascenseurs pour le transport des personnes et des charges —
Partie 30: Installation d'ascenseurs des classes I, II, III et VI*





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Published in Switzerland

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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 and moving walks*.

This first edition of ISO 8100-30 cancels and replaces ISO 4190-1:2010, which has been technically revised. It also incorporates the Amendment ISO 4190-1:2010/Amd.1:2011. The main changes compared to the previous document are as follows:

- a reference to machine room-less lifts has been added and additional dimensions have been included to cope with common machine room-less lift configurations;
- [Figure 7](#) has been changed to include sizes and dimensions of general-purpose lifts with counterweight to side;
- some new and revised car sizes have been included to provide for access by persons including persons with disability.

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

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.

NOTE 1 In certain instances, harmonization is not possible and these sizes are shown in [Figures 10](#) to [13](#).

NOTE 2 National regulations can require greater dimensions in some instances.

Introduction

This document reflects the requirements of the global marketplace and includes:

- the special needs, access and full manoeuvrability of persons including persons with physical disabilities;
- appropriate use of stretchers, beds and ancillary medical equipment in hospitals and nursing homes;
- a range of intensive-use lifts¹⁾ typically used for high-rise buildings for rated speeds of 2,5 m/s to 6,0 m/s;
- rated speeds mainly based on the Renard series for speeds of up to 2,5 m/s;
- improved utilization of building space by reducing well (hoistway) sizes where practicable.

1) Hereinafter, the term “lift” is used instead of the term “elevator”.

Lifts for the transport of persons and goods —

Part 30: Class I, II, III and VI lifts installation

1 Scope

This document specifies the necessary dimensions to permit the installation of passenger lifts of class I, II, III and VI.

These dimensions reflect the requirements for the apparatus.

This document is applicable to all new lift installations, irrespective of drive systems, including a car with one entrance, to be installed in a new building. However, for arrangements with counterweight at the side, a through-entrance configuration is possible. Where relevant, this document is also applicable to an installation in an existing building.

This document is not applicable to lifts of rated speed greater than 6,0 m/s.

NOTE It is the responsibility of the user to consult the manufacturer for such installations.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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 <http://www.electropedia.org/>

3.1 General

3.1.1

car

part of the *lift* (3.1.6) which carries the passenger and/or other loads

3.1.2

headroom

part of the *well* (3.1.8) situated above the highest landing served by the *car* (3.1.1)

3.1.3

landing

area providing access to the *car* (3.1.1) at each level of use

3.1.4

machine room

room in which the machine or machines and/or the associated equipment are placed