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## **Safety requirements for lifts (elevators) —**

Part 1:

### **Global essential safety requirements (GESRs)**

*Exigences de sécurité des ascenseurs —*

*Partie 1: Exigences essentielles de sécurité globale des ascenseurs*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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.

ISO/TS 22559-1 was prepared by Technical Committee ISO/TC 178, *Lifts, escalators, passenger conveyors*.

ISO/TS 22559 consists of the following parts, under the general title *Safety requirements for lifts (elevators)*:

- *Part 1: Global essential safety requirements (GESRs)*

Further parts are under preparation:

- *Part 2: Safety parameters meeting the GESRs*
- *Part 3: Global conformity assessment procedures for lifts*

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## 0 Introduction

**0.1** After the publication of parts 1 and 2 of ISO/TR 11071, discrepancies were noted in the lift safety standards, and it was agreed that there was a need for an ISO publication that would set global essential safety requirements for lifts (elevators). The work, however, could start only after ISO/TS 14798 was completed. This methodology was a critical tool in the development of ISO/TS 22559 on safety requirements for lifts.

**0.2** The objective of this series of Technical Specifications is

- a) to define a common global level of safety for all people using, or associated with, lifts (elevators);
- b) to facilitate innovation of lifts (elevators) not designed according to existing local, national or regional safety standards, while maintaining equal levels of safety; if such innovations become state of the art, they can then be integrated into the detailed local safety standard, at a later date; and
- c) to remove trade barriers.

**NOTE** ISO/TS 22559-2 will contain global essential safety parameters (GESPs) for lifts (elevators) that should further assist in the use and implementation of the GESRs specified in this part of ISO/TS 22559.

**0.3** Clause 4 describes the approach and methodology used in the development of this part of ISO/TS 22559. Clause 5 gives instructions for the use and implementation of GESRs. The GESRs are presented in Clause 6. Each GESR specifies a safety objective, i.e. what is to be achieved, not how to do it. This allows innovation and development of future technologies. Annex A gives an overview of GESRs in relation to lift subsystems.

**0.4** This part of ISO/TS 22559 is a basic safety standard in terms of ISO/IEC Guide 51.