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

Part 4:

**Global conformity assessment  
procedures (GCAP) — Certification and  
accreditation requirements**

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*Exigences de sécurité des ascenseurs —*

*Partie 4: Procédures d'évaluation globale de conformité — Conditions  
de certification et d'accréditation*

ISO/TS 22559-4:2011

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Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
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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 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.

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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.

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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 22559-4 was prepared by Technical Committee ISO/TC 178, *Lifts, escalators and moving walks*.

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

- *Part 1: Global essential safety requirements (GESRs)*
- *Part 2: Safety parameters meeting the global essential safety requirements (GESRs)*
- *Part 3: Global conformity assessment procedures (GCAP) — Prerequisites for certification of conformity of lift systems, lift components and lift functions*
- *Part 4: Global conformity assessment procedures (GCAP) — Certification and accreditation requirements*

## Introduction

- 0.1** The objective of the ISO/TS 22559 series of documents is stated in the Introduction to ISO/TS 22559-1 and ISO/TS 22559-2.
- 0.2** ISO/TS 22559-1 has established global essential safety requirements (GESRs) for lifts (elevators) by addressing hazards and safety risks that may be encountered on a lift (elevator). The GESRs state safety objectives that a lift (elevator) should achieve.
- 0.3** ISO/TS 22559-2 sets criteria for achieving conformity with safety requirements of GESRs by specifying global safety parameters (GSPs) that should be used and implemented, where applicable, in a lift (elevator) to eliminate hazards or mitigate safety risks addressed in the GESRs.
- 0.4** ISO/TS 22559-3 sets prerequisite requirements that must be fulfilled before applying for global conformity assessment procedure (GCAP) certificate of conformity in accordance with this part of ISO 22559.
- 0.5** This part of ISO/TS 22559 sets procedures for certification of conformity of lifts, lift components and lift functions, and for accreditation of conformity assessment bodies (GCABs).
- 0.6** The ISO/TS 22559 series of documents provides a process for assessment of conformity of lift, lift components or lift functions with the safety requirements specified in ISO/TS 22559-1. It includes a structured methodology for establishing, documenting and demonstrating that necessary and appropriate protective measures are taken to eliminate hazards or sufficiently mitigate risks. This process is particularly useful for establishing safety of lift systems, lift components or lift functions involving innovative design or new technologies. If one is using the process, Parts 1 to 4 of the ISO/TS 22559 series should be used.
- 0.7** This part of ISO/TS 22559 envisages that a quality management system is used, e.g. ISO 9001 for applicants (see 3.1) and ISO/IEC 17021 for GCABs (see 3.4). Assessment of conformity to the ISO/TS 22559 series of documents does not imply conformity to ISO 9001.

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# Safety requirements for lifts (elevators) —

## Part 4: Global conformity assessment procedures (GCAP) — Certification and accreditation requirements

### 1 Scope

This part of ISO/TS 22559 specifies

- a) requirements for certification of conformity for model lifts, lift (elevator) systems, lift components or lift functions by global conformity assessment bodies (GCAB) (see Clause 4),

NOTE Hereinafter in this part of ISO/TS 22559, the term “lift” is used instead of the term “elevator”. The term “lift system” is also used to describe a “lift”.

- b) related responsibilities of GCABs (see Clause 4), and
- c) requirements for accreditation of GCABs, and guidance and clarification to ISO/IEC Guide 65 (see Clause 5 and Clause 6 which pertain to the certification of lifts, lift components and lift functions).

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### 2 Normative references

The following referenced documents are indispensable for the application 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.

ISO/IEC Guide 65:1996, General requirements for bodies operating product certification systems

ISO 9000, *Quality management systems — Fundamentals and vocabulary*

ISO 14798:2009, *Lifts (elevators), escalators and moving walks — Risk assessment and reduction methodology*

ISO/IEC 17000, *Conformity assessment — Vocabulary and general principles*

ISO/IEC 17011, *Conformity assessment — General requirements for accreditation bodies accrediting conformity assessment bodies*

ISO/IEC 17020, *General criteria for the operation of various types of bodies performing inspection*

ISO/IEC 17021, *Conformity assessment — Requirements for bodies providing audit and certification of management systems*

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

ISO/TS 22559-1:2004, *Safety requirements for lifts (elevators) — Part 1: Global essential safety requirements (GESRs)*

ISO/TS 22559-2:2010, *Safety requirements for lifts (elevators) — Part 2: Safety parameters meeting the global essential safety requirements (GESRs)*

ISO/TS 22559-3:2011, *Safety requirements for lifts (elevators) — Part 3: Safety parameters meeting the global essential safety requirements (GESRs)*

ISO/TS 22559-3:2011, *Safety requirements for lifts (elevators) — Part 4: Global conformity assessment procedures (GCAP) — Prerequisites for certification of conformity of lift systems, lift components and lift functions*

NOTE Some of the references in ISO/IEC Guide 65:1996 are superseded by the above references or documents listed in the Bibliography.

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9000, ISO/IEC 17000, ISO/TS 22559-1, ISO/TS 22559-2 and the following apply.

#### 3.1

##### **applicant**

party that applies for a GCAP certificate of conformity

NOTE An applicant could be the designer, manufacturer or its authorized representative, installer or supplier.

#### 3.2

##### **certification**

procedure whereby a GCAB certifies that specified requirements are met

#### 3.3

##### **GCAP certificate of conformity**

statement from a GCAB, based on a decision following assessment, that conformity with specified requirements relating to a model lift, lift system, lift component or lift function has been demonstrated

#### 3.4

##### **global conformity assessment body GCAB**

product certification body, competent to perform product safety evaluation, which awards certificates of conformity stating that the product (lift, component or lift function) meets the requirements of ISO/TS 22559-1

NOTE 1 A certification body, duly accredited in accordance with ISO/TS 22559-4 for this activity by a Multilateral Recognition Agreement (MLA) member of the International Accreditation Forum (IAF) would normally be deemed to meet the requirements of a GCAB.

NOTE 2 Where the term "certification body" is used in ISO/IEC Guide 65, it shall be understood to mean GCAB (see ISO/TS 22559-4:2011, Clauses 5 and 6).

#### 3.5

##### **global essential safety requirement**

##### **GESR**

globally agreed upon essential safety requirement, as published in ISO/TS 22559-1

#### 3.6

##### **global safety parameter**

##### **GSP**

globally agreed upon safety parameter, as published in ISO/TS 22559-2

#### 3.7

##### **installer**

organization (e.g. manufacturer, its authorized representative) that erects certified lift systems or lift components or lift functions

#### 3.8

##### **life cycle**

period of usage of a lift component, lift function or lift system

#### 3.9

##### **lift component**

element or part contributing to the composition of the whole lift



**3.10****lift function**

mode of action by which a lift system or lift component fulfils its purpose

**3.11****model lift**

representative lift whose technical compliance documentation shows the way in which the GESRs will be met for series-produced lifts having a defined range of application and operation

**3.12****supplier**

organization (e.g. manufacturer or its authorized representative, or installer) who provides certified lift systems, or supplies lift components or lift functions for use in a lift system

**3.13****technical compliance documentation****TCD**

assembly of various data and documents prepared to document compliance with GESRs

## 4 Certification of conformity of lift systems, lift components and lift functions

### 4.1 General

The manufacturer or its agent, supplier, or installer shall obtain a GCAP certificate of conformity to ISO/TS 22559-1 for model lifts, individual lift systems, lift components or lift functions (see 4.3), whichever is applicable.

### 4.2 Certification of a lift system versus model lift

**4.2.1** In the case of a model lift, the GCAP certificate of conformity shall be obtained based on the initial representative model. Subsequent series-produced lifts with the same design and configuration as the model representative shall not be required to be submitted for certification (see ISO/TS 22559-3:2011, 4.6.2).

**4.2.2** Where a lift system, not designated as a model lift, is installed, it shall be certified individually.

### 4.3 Application for certification

**4.3.1** The application for certification of a model lift, individual lift system, lift components or lift functions shall be submitted to a GCAB by an applicant (see 3.1), i.e. either the manufacturer or its agent, supplier, or installer.

**4.3.2** The application shall include:

- a) Name and address of:
  - 1) the manufacturer or its agent, supplier, or installer, or
  - 2) if the applicant for certification is other than the manufacturer, the name of the manufacturer and place(s) of manufacture.
- b) The applicant is permitted to apply to another GCAB under the following conditions:
  - 1) any previous application, with identification information, shall be submitted;
  - 2) written detailed explanation as to why the application is being submitted to another GCAB(s); and
  - 3) if a GCAP certificate of conformity has been previously refused, the GCAB's documented grounds for refusal (see 4.4.5) shall be provided.
- c) Technical compliance documentation (see ISO/TS 22559-3:2011, 4.6.3);