TECHNICAL ISO/TS

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Safety requirements for lifts (elevators) —

Part 3:
Global conformity assessment procedures (GCAP) — Prerequisites for certification of conformity of lift systems, lift components and lift functions

Exigences de sécurité des ascenseurs —

Partie 3: Procédures d'évaluation globale de conformité — Prérequis pour la certification de la conformité des systèmes, des composants et des fonctions des ascenseurs

Reference number
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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.

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order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn.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 22559-3 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*

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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 This part of ISO/TS 22559 sets prerequisite requirements that must be fulfilled before applying for a global conformity assessment procedure (GCAP) certificate of conformity in accordance with ISO/TS 22559-4.

0.5 ISO/TS 22559-4 sets procedures for certification of conformity of lift systems, 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 systems, 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 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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