



Technical
Specification

ISO/TS 8100-22

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

Part 22:
**Prerequisites for certification of
lifts, model lifts, lift components
and lift functions**

Ascenseurs pour le transport de personnes et d'objets —

*Partie 22: Prérequis pour la certification des ascenseurs,
des ascenseurs modèles des composants et des fonctions des
ascenseurs*

First edition
2024-06

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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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/TS 8100-22 cancels and replaces ISO/TS 22559-3:2011, which has been technically revised.

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.

Introduction

0.1 The objective of the ISO 8100 series of performance-based documents is stated in the Introduction to ISO 8100-20 and ISO/TS 8100-21.

0.2 ISO 8100-20 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 8100-21 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 document sets prerequisite requirements that must be fulfilled before applying for certification in accordance with ISO/TS 8100-23.

0.5 ISO/TS 8100-23 sets procedures for certification of lifts, model lifts, lift components and lift functions, and supplements related requirements of ISO/IEC 17065 for certification bodies for lifts (LCBs).

0.6 The ISO 8100 series of performance-based documents provides a process for conformity assessment and certification of lifts, model lifts, lift components and lift functions with the safety requirements specified in ISO 8100-20. 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 lifts, model lifts, lift components and lift functions involving innovative design or new technologies. If one is using the process, ISO 8100-20, ISO 8100-21, ISO 8100-22, ISO 8100-23 of the ISO 8100 series should be used.

0.7 This document assumes that the applicant (see [3.1](#)) uses a quality management system, e.g. ISO 9001. Assessment of conformity to the ISO 8100 series of performance-based documents does not imply conformity to the quality management system.

Lifts for the transport of persons and goods —

Part 22:

Prerequisites for certification of lifts, model lifts, lift components and lift functions

1 Scope

This document specifies prerequisite requirements for application for the certification of new lifts (elevators), model lifts, lift components and lift functions.

NOTE Hereinafter in this document, the term “lift” is used instead of the term “elevator”.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 8100-20:2018, *Lifts for the transport of persons and goods — Part 20: Global essential safety requirements (GESRs)*

ISO/TS 8100-21:2018, *Lifts for the transport of persons and goods — Part 21: Global safety parameters (GSPs) meeting the global essential safety requirements (GESRs)*

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

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

ISO/IEC 17000:2020, *Conformity assessment — Vocabulary and general principles*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9000, ISO/IEC 17000, ISO 8100-20, ISO/TS 8100-21 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <https://www.electropedia.org/>

3.1

applicant

party that applies for certification of a lift, model lift, lift component or a lift function

Note 1 to entry: An applicant could be the manufacturer or the installer or their authorized representative.

3.2

authorized representative

any natural or legal person established within the country where the lift, model lift, lift component or lift function will be made available and who has received a written mandate from an installer or a manufacturer to act on his behalf in relation to specified tasks