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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24477-2025

**Accessibility to lifts for persons including persons with
disability**

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 24477-2009 "Additional requirements for elevators for people with disabilities" and is consistent with GB/T 24477-2009.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) The scope of application has been changed (see Chapter 1, Chapter 1 of the 2009 edition);

- b) The "Terms and Definitions" have been changed (see Chapter 3, Chapter 3 of the 2009 edition);
- c) Changed "significant hazards and obstacles affecting accessibility" (see Chapter 4, Chapter 4 and Appendix C of the 2009 edition);
- d) Changed the "General Principles" of "Safety Requirements and/or Protective Measures" and added specific requirements for brightness contrast (see 5.1, 2009 Edition).
- e) The requirements for the clear width of the door opening have been changed (see 5.2.1, 5.2.1 of the 2009 edition);
- f) The requirements for the door open hold time and the door close button have been changed (see 5.2.2, 5.2.3 of the 2009 edition);
- g) The requirements for door protection devices have been deleted (see 5.2.4 of the 2009 edition);
- h) The requirements for car dimensions have been changed (see 5.3.1 and Table 3, 5.3.1 and Table 1 of the 2009 edition);
- i) The requirements for facilities in the car have been changed (see 5.3.2, 5.3.2 of the 2009 edition);
- j) The requirements for leveling accuracy and leveling holding accuracy have been deleted (see 5.3.3 of the 2009 edition);
- k) Added the "General Rules" of "Operating Devices and Signals" (see 5.4.1);
- l) Changed the requirements for the operating devices and signals of the collective selection control system (see 5.4.2, 5.4 of the 2009 edition);
- m) The requirements for the operating devices and signals of the destination layer control system have been changed (see 5.4.3, 5.4 and Appendix F of the 2009 edition);
- n) Added the requirements for operating devices and signals of the destination layer control system using touch screen (see 5.4.3.1.3 and Appendix E);
- o) The verification method of safety requirements and/or protective measures has been changed (see Table 6, Table 3 of the 2009 edition);
- p) Changed the requirements for information on use (see Chapter 7, Chapter 7 of the 2009 edition);
- q) Deleted "Excluded types of disabilities" (see Table B.2 of the 2009 edition);
- r) The requirements for super-large operating devices have been changed (see Appendix D, G.1 of the 2009 edition);

This document is modified to adopt ISO 8100-7:2024 "Lifts for the transport of persons and

goods - Part 7: Lifts for the transport of persons with disabilities" Accessibility.

This document has the following structural adjustments compared to ISO 8100-7:2024.

--- Added clause numbers in the introduction;

--- Added clause numbers in Chapter 7;

---Appendix B, Appendix C, Appendix D and Appendix E correspond to Appendix D, Appendix E, Appendix B and Appendix E in ISO 8100-7:2024 respectively.

Record C.

The technical differences between this document and ISO 8100-7:2024 and their reasons are as follows.

--- Added normative references GB/T 7024 and GB/T 20900 (see Chapter 3) to adapt to my country's technical conditions;

--- Replaced ISO 8100-1:2019 with the normative reference GB/T 7588.1-2020 (see Chapter 3 and 5.4.2.4.1).

The consistency between the documents is modified to adapt to my country's technical conditions;

--- Changed the definition of "collective selection control system" (see 3.1) to coordinate with GB/T 7024;

--- Added the content "This document is an additional requirement of GB/T 7588.1-2020" (see 5.1.1) to clarify the technical conditions;

--- Changed the door opening time (see 5.2.2) to coordinate with the mandatory national standards;

--- Changed the dimensions of the cross-section of the handrail gripping part [see 5.3.2.1c)] to coordinate with the mandatory national standards;

--- Changed the gap between the gripping part and its adjacent car wall [see 5.3.2.1d)] to coordinate with the mandatory national standards;

--- Changed the height of the top edge of the gripping part from the floor, and added "and the height of the center line of the handrail from the floor should not be greater than 900mm" Requirements [see 5.3.2.1e)] in order to coordinate with mandatory national standards;

--- Changed the minimum inner diameter of the handrail profile (see Figure 2) to coordinate with 5.3.2.1c);

--- Changed the anti-slip requirements for car floors (see 5.3.2.4) to suit my country's national conditions;

- Added requirements for multiple car operating devices (see 5.4.1.1) to suit my country's national conditions;
- Changed the requirement of "maximum height between floor and center line of highest button" in car operating device [see b) in Table 5] so as to Coordinate with mandatory national standards;
- The normative reference GB/T 30560-2014 replaces ISO 4190-5:2006. The consistency between the two documents is Modification (see 5.4.2.2.1, 5.4.2.3.2, 5.4.2.5.3, 5.4.2.5.4, 5.4.3.1.1 and 5.4.3.1.2) to adapt to my country's technology condition;
- Changed the requirements for elevator call button symbols (see 5.4.2.2.1) to suit my country's national conditions;
- Added the requirement of "and buttons should be provided with Braille labels" to coordinate with the mandatory national standards (see 5.4.2.2.1, 5.4.2.3.1);
- Changed the symbol requirements for layer selection buttons (see 5.4.2.3.2) to suit my country's national conditions;
- Changed the requirements for alarm buttons and door buttons when using the keyboard for floor selection registration (see 5.4.2.3.3) to suit my country's national conditions;
- Changed the requirements for setting up induction loop systems for hearing aids (see 5.4.2.5.4) to suit my country's national conditions;
- Deleted the content of "(base station layer)" [see 5.4.3.1.1e)] to facilitate implementation;
- Added "Visual and auditory alarm signals", "Touch screen", "Visual and auditory signals of the landing station of the destination layer control system" and "Use information the verification requirements of "information" (see Table 6) are adapted to my country's national conditions;
- Changed formulas C.1 and C.2 (see Appendix C) to coordinate with Table 2;
- Changed the symbols used for the layer selection buttons in the example diagram of the super-large operating device (see Figure D.2 and Figure D.3) to suit my country's national conditions;
- Changed the requirements for the export layer buttons on the touch screen (see Appendix E) to suit my country's national conditions.

The following editorial changes were made to this document.

- In order to coordinate with the existing standards, the name of the standard is changed to "Additional requirements for elevators for people with disabilities";
- Added the destination floor control system "having a landing operation device for selecting the destination floor, an elevator lobby indicator and an indicator "Car indicator