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

GB/T 24803.2-2025

Replacing GB/T 24803.2-2013

**Safety requirements for lifts - Part 2: Safety parameters meeting
essential safety requirements
(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 is Part 2 of GB/T 24803 Safety Requirements for Elevators. GB/T 24803 has been published in the following parts.

- Part 1: Basic safety requirements for elevators;
- Part 2: Safety parameters that meet the basic safety requirements for elevators;
- Part 3: Prerequisites for conformity evaluation of lifts, lift components and lift functions;
- Part 4: Evaluation requirements.

This document replaces GB/T 24803.2-2013 "Safety requirements for elevators - Part 2: Safety parameters that meet basic safety requirements for elevators".

Compared with GB/T 24803.2-2013, in addition to structural adjustments and editorial

changes, the main technical changes are as follows.

- Deleted some terms (see 3.2, 3.5, 3.7~3.14, 3.18, 3.26, 3.29~3.32, 3.34, 3.35 of the 2013 edition);
- Added the content of good engineering practice (see 5.4, description of 6.1.1 in Table 2);
- Added safety parameters for the ground of the carrier and the working area (see [p5] of 6.1.4 in Table 2);
- Added safety parameters for hazards caused by relative motion (see [p4] to [p6] in 6.1.5 of Table 2 and the explanation of [p4]);
- Added safety parameters for locking floor doors and closing carrier doors (see [p3] in 6.1.6 of Table 2);
- Changed the safety parameters of the carrier and landing lighting (see [p2], [p3] of 6.1.11 in Table 2, 2013 edition 6.1.11 [p2], [p3]);
- Changed the safety parameters for the impact of earthquakes (see [p1] of 6.1.12 in Table 2 and [p1] of 6.1.12 in Table 2 of the 2013 edition);
- Changed the safety parameters for falling into the well (see [p1] of 6.2.1 in Table 2, and [p1] of 6.2.1 in Table 2 of the 2013 edition);
- Added safety parameters for falling into the well (see [p2] of 6.2.1 in Table 2);
- Added entry and exit security parameters (see [p6] of 6.3.1 in Table 2);
- Changed the safety parameters for self-evacuation from the carrier (see [p1] to [p3] in 6.3.4 of Table 2, 2013 edition 6.3.4 [p1], [p2]);
- Added safety parameters for falling from the carrier (see [p6] of 6.4.4 in Table 2);
- Added safety parameters for uncontrolled operation of the carrier (see [p3] of 6.4.6 in Table 2);
- Increased safety parameters for the strength of the working area (see [p2] in 6.5.4 of Table 2).

This document is modified to adopt ISO/T S8100-21.2018 "Lifts for the transport of persons and goods - Part 21: Meeting the global basic requirements for lifts the document type was adjusted from ISO technical specifications to my country's national standards.

This document has made the following structural adjustments compared to ISO/T S8100-21.2018.

- In the introduction, Chapter 1, Chapter 4 and Chapter 5, the clause numbers are added for easier application.

The technical differences between this document and ISO/T S8100-21.2018 and their

reasons are as follows.

--- The normative reference GB/T 20900 replaces ISO 14798 (see 4.1.2, 5.2.2, 5.2.3.2). The difference between the two documents is the degree of consistency is equal to suit my country's national conditions;

--- The normative reference GB/T 24803.1-2009 replaces ISO 8100-20 (see 1.1, 4.1.2~4.1.4, 4.2.1, 5.2.5.2, 5.3, Chapter 6), the degree of consistency between the two documents is equivalent to suit my country's national conditions;

--- The normative reference GB/T 24807 replaces ISO 22199 (see 6.1.10). The degree of consistency between the two documents is revised.

Modify to suit my country's technical conditions;

--- The normative reference GB/T 24808 replaces ISO 22200 (see 6.1.10). The degree of consistency between the two documents is revised.

Modify to suit my country's technical conditions;

--- In 6.1.5 of Table 2, the following is used. "When the door is closed, the gaps between the door leaves and between the door leaves and the columns, lintels and sills should not be greater than 6mm, due to wear, the gap value can reach 10mm" instead of "due to wear, after the door is closed, the gap between the door leaves and between the door leaves and the vertical the gap between columns, lintels and sills should not be greater than 10mm" to be consistent with the requirements of GB/T 7588.1-2020;

--- In 6.1.11[p2] of Table 2, "50lx" is replaced by "100lx" to be consistent with the provisions of GB/T 7588.1-2020;

--- In 6.1.11 [p3] of Table 2, the phrase "Emergency lighting for transport equipment. capacity capable of providing illumination of not less than 5lx at the following locations" is used.

and last for 1 hour. a) Each alarm trigger device inside and on the top of the vehicle; b) The center of the vehicle, the floor

c) Center of top of carrier, 1m above the top of carrier" replaces "emergency lighting inside carrier. elevator the lighting on the control devices and emergency devices, including the operating instructions (if any), shall not be less than 2 lux and the duration shall not be less than 1h" to be consistent with the provisions of GB/T 7588.1-2020;

--- In 6.1.12 of Table 2, "in accordance with GB/T 31095-2014" replaces "see ISO/T R25741" to improve safety;

--- Added [p1]b) to 6.2.1 of Table 2 regarding the requirement of 1000N vertical force to improve safety;

--- Table 2, 6.2.1 [p2] uses "the height of the shaft wall shall meet the following

requirements. a) the height on the landing door side shall not be less than 3.50m; b) the height on the other side shall not be less than 3.50m;

On the side, when the horizontal distance between the surrounding wall and the elevator moving parts is the minimum allowable value of 0.50m, the height should not be less than 2.50m;

If the horizontal distance is greater than 0.50m, the height can be reduced as the horizontal distance increases; when the horizontal distance is the maximum allowable value 1.50m, the height can be reduced to a minimum of 1.60m" replaces the "well" in ISO/T S8100-21.2018 Table 2 No. 15[p2] the minimum height of road enclosures should be 1100mm" to be consistent with the requirements of GB/T 7588.1-2020;

--- In 6.3.4 [p3] of Table 2, the following is used. "If the elevator stops in the unlocking area for any reason, it should be possible to use no more than 300N force, manually open the carrier door and landing door. a) At the landing where the carrier is located, use a triangular key or After the door is unlocked; b) In the case of an elevator with a manual door, the door should be manually unlocked with a force of no more than 300N.

Open the landing door and car door" to be consistent with the provisions of GB/T 7588.1-2020;

--- In 6.3.5[p2] of Table 2, "100 mm" is replaced by "150 mm" to be consistent with the requirements of GB/T 7588.1-2020.

Compared with ISO/T S8100-21.2018, this document has made the following editorial changes.

--- Modified the standard name;

--- Table 2 in Chapter 6 has been renumbered. The numbering corresponds to the numbering of the basic safety requirements for elevators in GB/T 24803.1-2009 Same, for the convenience of expression and use of the provisions;

--- In the "Safety parameters involved in this document" and "Explanation" columns of Table 2, the cases of national standards are used instead of the cases of international standards.

For example, the international standards were replaced by corresponding national standards to suit my country's national conditions;

--- Appendix A Table A.1 Serial No. 1 to Serial No. 28, Serial No. 29, Serial No. 30, Serial No. 32 to Serial No. 46, Serial No. 48 and Serial No. 49 use my country the data corresponding to the national standard replaces the data corresponding to ISO/T S8100-21.2018 Appendix A Table A.1 to suit my country national conditions;

---Changed some references.