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

GB/T 21739-2025

Replacing GB/T 21739-2008

Safety rules for the construction and installation of home lifts

家用电梯制造与安装安全规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

This document replaces GB/T 21739-2008 "Code for Manufacturing and Installation of Home Elevators". Compared with GB/T 21739-2008, except for the structure...

Aside from adjustments and editorial changes, the main technical changes are as follows.

- The scope of application has been changed, and the content and requirements applicable to gear and rack driven home elevators have been removed (see Chapter 1, 2008). Chapter 1 (Year Edition)
- The term "building in use" has been changed to "existing building," and its definition has been revised (see 3.2, 2008 edition).
- The term and definition of "competent personnel" have been removed (see 3.3 in the 2008 edition);
- Added requirements for signs, markings, warnings, and operating instructions (see 4.1.2);
- Performance requirements under fire conditions have been changed (see 4.3, 4.4 in the

2008 edition);

- Noise requirements have been added (see 4.4);
- The protection requirements against harmful external influences have been removed (see 4.12 in the 2008 edition);
- The protection rating requirement for outdoor use has been removed (see 4.13 of the 2008 edition);
- The minimum channel requirement has been removed (see 4.14 in the 2008 version);
- The requirements for shafts and machine rooms have been changed (see 4.5.1.2, 5.1 in the 2008 version);
- Increased ventilation requirements for shafts and machine spaces (see 4.5.1.3);
- Added lighting requirements for shaft and machine space (see 4.5.1.4);
- Added requirement to install lighting control switches within the machine space (see 4.5.1.5.2);
- Added requirements for equipment hoisting (see 4.5.1.6);
- The strength and surface requirements for walls, floors, and ceilings have been changed (see 4.5.1.7 and 4.5.1.8, 5.7 in the 2008 edition);
- Increased access requirements for shafts and machine spaces (see 4.5.2);
- Requirements for access doors, access trapdoors, and maintenance doors have been changed (see 4.5.3, 5.8 in the 2008 edition);
- Added warning sign requirements for doors, trapdoors, and passageway doors leading to machine spaces (see 4.5.4);
- The sealing requirements for the shaft have been changed (see 4.5.5.2, 5.2.2 and 5.6.2.2 in the 2008 version);
- The structural requirements for the landing door and hoistway wall facing the car entrance of home elevators with car doors have been changed (see 4.5.5.3, 2008 version). 5.6.2.1.3 and 12.1.1);
- The protection requirements for the space below the shaft have been changed (see 4.5.5.5, 5.5 in the 2008 version);
- Added protection requirements for areas operating under heavy or counterweight conditions (see 4.5.5.6);
- The top-level space requirement has been changed (see 4.5.5.8, version 5.3 of the 2008 edition);

- The pit space requirements have been changed (see 4.5.5.9, 5.4 in the 2008 version);
- Added warnings and instructions regarding machine space requirements (see 4.5.6.2);
- Added requirements for machines to be located in the computer room (see 4.5.6.3);
- Increased requirements for machine protection, operating space, and marking within the shaft (see 4.5.6.4.1);
- Increased the size requirements for the working area within the shaft (see 4.5.6.4.2);
- Added requirements for the working area inside the car (see 4.5.6.4.3);
- The requirements for the machine's working area outside the hoistway have been changed (see 4.5.6.5.2, 4.3.2.3 in the 2008 version);
- The requirements for emergency and test operation equipment have been changed (see 4.5.6.6, 4.3.2.1 of the 2008 version);
- The ramp setup requirements have been changed (see 4.6.4, 6.4.6 in the 2008 version);
- The horizontal distance requirement between the manual car door sill and the landing door sill has been changed (see 4.6.5, 12.1.1.2 in the 2008 version);
- The mechanical strength requirements for landing doors and car doors have been changed (see 4.6.6.2, 6.4.7 and 7.13.2.7 in the 2008 edition);
- The requirements for powered doors have been changed (see 4.6.7.2, 6.4.3.4 and 6.4.10 in the 2008 version);
- Added a requirement for the door to open in reverse during the closing process (see 4.6.7.4);
- Added requirements for localized lighting at each floor (see 4.6.8.1);
- The car's instructions here have been modified (see 4.6.8.2.1, 6.4.8 in the 2008 version);
- The unlocking zone requirements have been changed (see 4.6.9.1, version 6.5.1 from 2008);
- The type testing requirements for landing door locking devices have been revised (see 4.6.10.1, 15.1.6 of the 2008 edition);
- Added type testing requirements for car door locking devices (see 4.6.10.2);
- Added requirements for the position of the triangular unlocking device (see 4.6.10.3.2);
- Added a common requirement for devices confirming the locked and closed status of landing doors (see 4.6.11);
- The requirements for mechanically connected multi-sliding landing doors have been changed (see 4.6.12, 6.8 in the 2008 edition);

- The requirements for mechanically connected multi-sliding or folding car doors have been changed (see 4.6.15, 7.13.2.9 of the 2008 edition);
- The requirements for opening the car doors have been changed (see 4.6.16, 7.13.2.4 and 7.13.2.10 in the 2008 version);
- The requirements for calculating the effective area of the elevator car in home elevators with doors have been revised (see 4.7.2.1.3, 7.3.2 of the 2008 version);
- The requirements for information displayed inside the car have been changed (see 4.7.2.2, 16.2.1.1 in the 2008 version);
- The mechanical strength requirements for the car walls have been changed (see 4.7.3.4, 7.5.2 in the 2008 version);
- The handrail height requirements for using glass car walls have been changed (see 4.7.3.6, 7.5.3.1 in the 2008 version);
- Added requirement for extendable footplates (see 4.7.5.3);
- The mechanical strength requirements for foot protectors have been changed (see 4.7.5.4, 7.8.3 in the 2008 version);
- The mechanical strength requirements for the car roof have been changed (see 4.7.6.1, 7.4.2 in the 2008 version);
- The installation requirements for the car roof kickboard have been changed (see 4.7.6.2, 7.4.4.2 in the 2008 version);
- The mechanical strength requirements for the car roof guardrail have been increased [see 4.7.6.5e];
- The handrail requirements have been changed (see 4.7.9, 7.10 in the 2008 version);
- The requirements for folding chairs have been changed (see 4.7.10, 7.11 in the 2008 version);
- The ventilation requirements for home elevators with car doors have been changed (see 4.7.11, 7.6 in the 2008 edition);
- The requirements for car lighting have been changed (see 4.7.12.1 and 4.7.12.3, and 7.12.1 and 7.12.3 in the 2008 edition);
- The requirements for emergency lighting in the car have been changed (see 4.7.12.4, 7.12.5 in the 2008 edition);
- The requirement for covering ropes and covering straps as suspension devices has been added (see 4.8);
- The requirement for drive sprockets has been removed (see 13.5.3.3 in the 2008 version);