

ICS 49.100
CCS V 56

MH

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

MH/T 6029-2014

**Passenger stairs
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Civil Aviation Administration of China

Table of Contents

Foreword	
1 Scope	
2 Normative references	
3 Technical requirements	
3.1 General requirements	
3.2 Safety requirements	
3.3 Dedicated device	
3.4 Stability	
3.5 Maneuverability	
3.6 Cab	
3.7 Structural safety factor	
3.8 Hydraulic system	
3.9 Environmental requirements	
3.10 Environmental requirements	
3.11 Reliability	
4 Test method	
4.1 General requirements	
4.2 Safety requirements	
4.3 Dedicated device	
4.4 Stability	
4.5 Maneuverability	
4.6 Cab	
4.7 Structural safety factor	
4.8 Hydraulic system	
4.9 Environmental protection requirements	
4.10 Environmental requirements	
4.11 Reliability test	
5 Inspection rules	
6 Signs, signs, instruction manuals	
7 Packaging, transportation and storage	
Appendix A (Normative Appendix) Design Load	
Appendix B (Normative Appendix) Design Dimensions of Ladder Structure	

Appendix C (Normative Appendix) Endurance Test Conditions

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces MH /6029-2003 "Passenger Elevator". Compared with MH/T 6029-2003, except for editorial changes, the main technical changes are as follows.

under.

- The name of the standard has been revised from the original "Passenger Elevator Car" to "Passenger Boarding Elevator";
- Modified the requirements for the axle load distribution of the boarding ladder (see 3.1.14, 4.2.7 of the 2003 edition);
- Modified the installation requirements of external lighting and optical signal devices (see 3.1.15, 4.2.18 of the 2003 edition);
- Added relevant requirements for electric boarding ladders (see 3.2.3);
- Added the relevant requirements of the hand-push boarding ladder (see 3.2.2);
- Relevant requirements for braking performance have been revised (see 3.5.6, 3.5.7, 4.2.14, 4.2.15 of the 2003 edition);
- Increase the endurance requirements of the electric boarding ladder (see 3.5.8);
- Added the requirements for the cab (see 3.6);
- Increase the requirements of wind resistance stability (see 3.4.9);
- Added the requirements for exhaust devices (3.3.6);
- Added the requirements for exhaust pollutant emission limits of internal combustion boarding ladders (3.9.3);
- Added the requirement of structural safety factor (see 3.7);
- Relevant requirements for reliability test have been revised (see 3.11, 4.7 of the 2003 edition).

This standard was proposed and interpreted by the Airport Department of the Civil Aviation Administration of China.

This standard was approved by the Aircraft Airworthiness Certification Department of the Civil Aviation Administration of China.

This standard is under the jurisdiction of the China Academy of Civil Aviation Science and

Technology.

Drafting organizations of this standard. Airport Department of Civil Aviation Administration of China, Civil Aviation Professional Engineering Quality Supervision Station, National Construction Machinery Quality Supervision and Inspection Inspection Center, Beijing Kangmu Forte Technology Co., Ltd., Shanghai Hangfu Airport Equipment Co., Ltd.

1 Scope

This standard specifies the technical requirements, test methods, inspection rules, signs, signs, instructions for use, packaging, and transportation of passenger boarding stairs.

Loss and storage.

This standard applies to all passenger boarding ladders for passengers to board and disembark in the civil aviation sector.

Note: The passenger boarding ladder in this standard refers to the special equipment used for passengers to get on and off the aircraft on the apron, usually divided into internal combustion type passenger boarding ladder and electric passenger boarding ladder.

Boarding ladder, hand-push passenger boarding ladder.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB 1495 Limits and measurement methods of noise outside the vehicle during acceleration
GB/T 3766 General technical conditions for hydraulic systems
GB 7258 Safety technical conditions for motor vehicle operation
GB/T 7593 Symbols for driver control devices and other display devices of motorized industrial vehicles
GB/T 7935 General technical conditions for hydraulic components
GB/T 9969 General Rules for the Use of Industrial Products
GB/T 12544 Maximum speed test method for automobiles
GB/T 12547 Lowest stable vehicle speed test method
GB/T 12673 Measuring method for main dimensions of automobiles
GB/T 12674 Method for determination of automobile quality (weight) parameters
GB/T 12678 Automobile Reliability Driving Test Method
GB/T 14436 General Rules of Guarantee Documents for Industrial Products
GB 20891 Diesel engine exhaust pollutant emission limits and measurement methods for non-road mobile machinery (China Phase I and II)
GJB 150.3 Military equipment environmental test method high temperature test
GJB 150.4 Military equipment environmental test method Low temperature test
JB/T 5943 General technical conditions for welding parts of construction machinery
QC/T 484 Automotive paint coating
QC/T 625 coating and chemical treatment layer for automobile
AHM 915 Standard Controls
EN 1915-1 Aviation ground support equipment-General

requirements-Part 1: Basic safety requirements (Aircraft ground support equipment--General requirements--Part 1: Basic safety requirements)

3.1 General requirements

3.1.1

All purchased parts of the passenger boarding ladder (hereinafter referred to as the boarding ladder) shall meet the requirements of relevant national or industry standards, and have Certification.

3.1.2

The welding of the structural parts of the boarding ladder shall comply with the regulations of JB/T 5943.

3.1.3

The paint coating of the boarding ladder should meet the requirements of QC/T 484.

3.1.4

The coating and chemical treatment layer of the boarding ladder components shall comply with the QC/T 625 regulations.

3.1.5

When the boarding ladder is assembled by the riveting process, the rivets should be arranged neatly, and there should be no skew, crush, looseness, and head defects. all There should be no sharp edges or sharp corners.

3.1.6

The connecting parts and fasteners of the boarding ladder should be connected reliably and have measures to prevent loosening.

3.1.7

The installation of the boarding ladder oil circuit, gas circuit system pipeline and electrical components should be neatly arranged, clamped firmly, and should not be rubbed with moving parts.

Rub or interfere.

3.1.8

The pipelines of the boarding ladder should be free of oil, water and air leakage.

3.1.9

Each wire terminal of the electrical equipment of the boarding ladder shall be provided with an obvious mark that is not easy to fall off.