

CCS Q 78



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

GB/T 39078.2-2022

**Safety requirements for escalators and moving walks - Part 2:
Safety parameters meeting essential safety requirements**

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foreword

2020 replaces ISO /T S25740-1.2011.

Introduction

0.2 In the process of formulating this series of standards, GB/T 20900 is the basic tool.

0.3 The purpose of this series of standards is to.

0.7 This document is the product safety standard in GB/T 20002.4-2015.

1 Scope

1.1 This document.

1.2 This document applies to the following escalators and moving walks, which may.

1.3 This document does not specifically consider.

2 Normative references

3 Terms and Definitions

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 of Standardization Documents" drafted.

This document is part 2 of GB/T 39078 "Safety requirements for escalators and moving walks", GB/T 39078 "Escalator and automatic walkways".

The Moving Sidewalk Safety Requirements have published the following sections.

--- Part 1. Basic safety requirements;

--- Part 2. Safety parameters to meet the basic safety requirements.

This document uses the redrafting method to modify the use of ISO /T S8103-6.2017 "Escalator and moving walks - Part 6. Satisfaction

Safety Parameters for Global Essential Safety Requirements (GESRs).

Compared with ISO /T S8103-6.2017, this document has made the following structural adjustments.

--- The introduction and scope are numbered for ease of application;

The technical differences between this document and ISO /T S8103-6.2017 and their

reasons are as follows.

--- Regarding normative reference documents, this document has made adjustments with technical differences to adapt to the technical conditions of our country.

as follows.

* Replace ISO 14798.2009 with GB/T 20900 which is equivalent to adopting international standards (see 5.2.2, 5.2.3.2);

* Replace ISO /T S25740-1.2011 with GB/T 39078.1-2020 modified to adopt international standards (see 4.1.4,

Chapter 6);

* Added reference to GB 16899-2011.

---In Chapter 6, Table 2, some technical differences have been adjusted to the safety parameters and descriptions to adapt to our country's technical regulations.

The specific adjustments are as follows.

* In the description 2 corresponding to No. 1, use "5.2.5 of GB 16899-2011 specifies the design load of the support structure (truss)"

Instead of "The supporting structure (truss) shall be designed to withstand the loads specified in local regulations and standards (eg. EN115-1 Ref.

According to EN1993, A17.1 refers to AISC and BSLJ-EO)";

* In Description 3 corresponding to No. 1, use "the floor slab of the entrance and exit shall be able to bear the larger value of the load determined by the following requirements.

a) Floor slab tread area (m²) multiplied by 6000N/m²; b) 2200N per floor slab. Under the above load,

The measured deformation of the floor slab tread shall be no more than 4mm, and the permanent deformation shall be no more than 1mm".

"The entrance and exit should be designed to withstand the loads specified in local regulations and standards";

* In [p1] of No. 2, the vertical distance between the handrail device and the front edge of the carrier device shall not be less than 900mm.

should not be greater than 1100mm" instead of "the vertical distance between the handrail and the leading edge of the carrier should not be less than 900mm",

The description of [p1] was also coordinated;

* In [p2] of No. 2, use "the armrest device should be able to withstand the static 600N/m

lateral

force and a vertical force of 730 N/m" instead of "The handrail device shall be capable of withstanding static

Lateral force of 585N/m and vertical force of 730N/m";

* In [p6] of No. 2, use "When the speed of the handrail deviates from the actual speed of the carrier by more than 15% and the duration reaches 5s~

15s, the escalator should be able to automatically stop running" instead of "when the speed of the handrail deviates from the actual speed of the carrying device greater than

15% and the duration is longer than the specified time, the escalator should be able to automatically stop running", and delete the description of [p6];

* In [p10] of No. 2, use "If the inclination angle between the inner cover plate and the horizontal plane is less than 45°, the water between the apron plate and the handrail

The horizontal distance should be less than 120mm" instead of "If the inclination angle between the inner cover plate and the horizontal plane is less than 45°, the apron plate and handrail device shall be

The horizontal distance between them should be less than 150mm", which is consistent with the requirements in 5.5.2.6.2 of GB 16899-2011.

* In the description of [p1] in No. 24, "see 5.7.2.1 in GB 16899-2011" is used instead of "for two

The definition of the maximum allowable height difference between successive carriers shall be in accordance with local codes and standards";

* In the safety parameters [p5] and [p6] of No. 25, when the step tread or kick plate is equipped with an insert or a fixing

Static load test requirements for some structures to improve safety;

* In the description of [p9] of No. 25, "No permanent deformation of more than 4mm shall be produced on the tread or pedal surface.

Steps, pedals or their parts (for example. inserts or fixings) should be connected reliably without loosening", so that the requirements

more explicit;

* The safety parameter of No. 25 adds the static load test requirement of the tape, which makes the safety parameter corresponding to this safety requirement more accurate.

comprehensive.

--- In Appendix A Table A.1, No. 1, No. 2, No. 8~ No. 10, No. 14, No. 15, No. 18, No. 20, No.

22~

Serial No. 24, Serial No. 26~ Serial No. 28, Serial No. 30, Serial No. 32, Serial No. 36, Serial No. 42~ Serial No. 44, Serial No. 48, Serial No. 49 Use Country

The data corresponding to the standard replaces the data corresponding to ISO /T S8103-6.2017 Appendix A Table A.1 to conform to my country's national conditions.

The following editorial changes have been made to this document.

--- Deleted the content of the introduction of ISO /T S8103-6.2017 that has nothing to do with this document, because of its existence or understanding of this document and use has no effect.

--- In 4.1.2, 5.1.4, and 5.2.4, ISO 14798.2009 is replaced by GB/T 20900-2007 which is equivalent to adopting international standards;

In 4.1.2, 4.1.3, 4.2.1, 5.2.3.2, 5.2.5.2, 5.2.5.3, 5.3, use the modified GB/T 39078.1-

2020 replaces ISO /T S25740-1.2011.

--- In the source annotations of 3.6, 3.13, 3.14, 3.15, 3.16, 3.19, 3.27, 3.30, 3.31, 3.32, 3.33, 3.35 and 3.36, use

GB/T 20900-2007 replaced ISO /IEC Guide 51.1999; in 3.24, 3.29 and 3.42, added source marking;

In 3.11 and 3.12, a note was added.

--- ISO /T S8103-6.2017 Chapter 4 is about the purpose and approach of the formulation of this international standard, suitable for expression in the introduction, in order to

For ease of application, this document still retains this chapter. However, the content that is not suitable for my country's national conditions has been deleted.

--- Among the safety measures corresponding to the example numbers 2, 3 and 4 of the dangerous situation in Table 1, the basic safety requirements corresponding to GB/T 39078.1-2020

Requirement clauses, replace 6.3.1 with 6.2.2, 6.4.3 and 6.5.8 respectively, in order to be more in line with the basic safety requirements applicable to the hazard situation.

--- In the description of footnote a and footnote b of Table 1, the national standard number corresponding to the mentioned clause number has been added.

---In the "safety parameters involved in this document" and "description" columns in Table 2, the case of national standards is used instead of international standards or laws.

and the corresponding national standards have been used to replace the international