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

GB/T 24474.2-2020

**Measurement of ride quality - Part 2: Escalators and moving
walks**

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Foreword

GB/T 24474 "Measurement of Quality of Transportation" is divided into the following two parts.

---Part 1.Elevator;

---Part 2.Escalators and moving walks.

This part is Part 2 of GB/T 24474.

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

This part uses the redrafting method to amend and adopt ISO 18738-2.2012 "Ride Quality Measurement Part 2.Escalator and Auto

Walk Road.

Compared with ISO 18738-2:2012, this part has made the following structural adjustments.

---In 4.6, the number and title of the suspension section "4.6.1 General Provisions" were added, and the original "4.6.1 Vibration Measurement System" was adjusted to "4.6.2.

"Vibration Measurement System", the original "4.6.2 Sound Measurement System" is adjusted to "4.6.3 Sound Measurement System" to meet GB/T 1.1-

2009 relevant regulations.

--- In 5.4, the number and title of the suspended paragraph "5.4.1 General Provisions", and the lower-level number are added. Change the original "5.4.1 Special Measurement Strip

"Parts" is adjusted to "5.4.2 Special measurement conditions". The original "5.4.2 Microphone position" is adjusted to "5.4.3 Microphone position", and

Added subordinate numbers. The original "5.4.3 Procedure for Sound Measurement" was adjusted to "5.4.4 Procedure for Sound Measurement", and a lower level was added

Numbering. To meet the relevant regulations of GB/T 1.1-2009 and facilitate application.

---Adjust the original "5.4.3.1 Transportation Quality Sound Pressure Level Measurement" to "5.4.4.2 Transportation Quality Sound Pressure Level Measurement", the original "5.4.3.2 Sound emission level measurement"

"Pressure level measurement" is adjusted to "5.4.4.3 Emission sound pressure level measurement" to meet the relevant regulations of GB/T 1.1-2009.

---In 4.2, 4.3, 4.5, 5.1 and 5.2, the lower-level number has been added to facilitate application.

The technical differences between this part and ISO 18738-2:2012 and the reasons are as follows.

---Regarding normative reference documents, this section has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows.

* Replace ISO 2041 with GB/T 2298, which is equivalent to the international standard (see Chapter 3);

* Replace IEC 61672-1 (see Table 2, 4.5.1) with GB/T 3785.1 equivalent to the international standard;

* Replace IEC 61672-2 (see 4.6.3) with GB/T 3785.2 equivalent to the international standard;

* Replace ISO 11201 with GB/T 17248.2 equivalent to the international standard (see

Chapter 3, Table 2, 5.4.4.1, 5.4.4.3

And Table 3, A.1);

* Replace ISO 11205 with GB/T 17248.6 which is equivalent to the international standard (see Chapter 3, Table 2, 5.4.4.1, 5.4.4.3

And Table 3, A.1);

* Replace IEC 61043 (see Table 2, 4.5.1, 4.6.3) with GB/T 17561 equivalent to the international standard;

* Replace ISO 8041 with GB/T 23716 equivalent to the international standard (see Table 1, 4.3.1~4.3.4, 4.4, 4.6.2,

5.3.1, 5.5).

--- In Table 2, amend the "not required" in the "emission sound pressure level" column and the "frequency range" row to "octave band. 125Hz~8000Hz,

1/3 octave band. 100Hz~10000Hz" in order to coordinate with the relevant requirements of GB/T 17248.2-2018.

This section has made the following editorial changes.

---In the introduction, the content that is not suitable for my country's national conditions is deleted, because its existence does not affect the use of this section;

---Added the statement of applicability of this part in Chapter 1 "Scope";

---In 3.6, the symbol L_p is changed to L so that Part 1 and Part 2 of this series of standards are harmonized and conform to

GB/T 3102.7-1993 requirements;

---In 3.7, the symbol L_{pAeq} is modified to L_{Aeq} , so that Part 1 and Part 2 of this series of standards are harmonized and consistent

GB/T 3102.7-1993 requirements;

---In Table 1, delete the "vibration of the carrying device" column and the "class 1" of the "accuracy" row, delete the "vibration of the handrail belt" column and

"Class 1" in the "Accuracy" line to be consistent with GB/T 23716-2009;

--- In Tables 1 and 4.3, "rms" is changed to "rms", and in 5.5e), "RMS" is changed to "rms" in order to

GB/T 23716-2009 is consistent;

--- In Table 2, modify the "Fast" in the "Transportation Quality Sound Pressure Level" column and the "Measurement Period" row to "F (Fast)", and change the "Transmit Sound

Pressure Level"

"Fast" in the column and "Measurement Period" row is modified to "F (Fast)" to be consistent with GB/T 3785.1-2010;

--- In Table 3, the "6dBA" in the "GB/T 17248.2 requirements" column and the "background noise level" row is corrected to "6dB", and

The "10" in the "GB/T 17248.6 requirement" column and the "background noise level" row is corrected to "10dB";

--- In 5.3.2, 5.3.3, 5.4.3, Figure 1 and Figure 3, modify the "intersection line" to "comb and tread intersection line" in order to

GB 16899-2011 is consistent;

--- In the description 1 of Figure 2, the "inclined section or path of travel" is amended to "inclined section" in order to illustrate the coordination with Figure 2;

---In Figure 3, amend the title of the figure "Terminals for moving walks" to "Terms and axes of moving walks" so as to be similar to the figure in Figure 1.

Questions are coordinated;

---In 5.4.3.1, 5.4.3.2, and Appendix A.2, "dBA" is deleted in order to meet the relevant requirements of GB/T 3102.7-1993;

---In the references, the corresponding international documents are replaced with national standards, and GB 16899-2011 is added.

This part was proposed and managed by the National Elevator Standardization Technical Committee (SAC/TC196).

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