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

GB/T 30559.3-2017

**Energy performance of lifts, escalators and moving walks --
Part 3: Energy calculation and classification of escalators and
moving walks**

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Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Introduction

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0.2 This section provides.

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3.1 Terms and definitions

Foreword

GB/T 30559 "energy performance of elevators, escalators and moving walkways" includes the following sections.

--- Part 1. Energy measurement and verification;

--- Part 2. Elevator energy calculation and classification;

--- Part 3. Energy calculation and classification of escalators and moving walkways.

This section GB/T 30559 Part 3.

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

This section uses the translation method identical with ISO 25745-3:2015 "Elevators, escalators and moving walkways energy performance Part 3

Energy calculation and classification of escalators and moving walkways.

The documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

--- GB/T 30559.1-2014 energy performance of elevators, escalators and moving walkways - Part 1. Energy measurement and inspection

Certificate (ISO 25745-1:2012, IDT).

This section compared with ISO 25745-3:2015 made the following editorial changes.

- Remove the introduction is not suitable for China's national conditions, as its existence or not does not affect the use of this section;
- In the introduction, an increase of clause number, in order to facilitate reference;
- Modify the value of 1.3 Note in order to comply with China's national conditions;
- In Chapter 3, added some of the terms and definitions from the document, in order to facilitate the application;
- Delete the second column in Table 1, because the contents of the column has been included in the third column of the table;
- In 5.1 and 5.2, respectively, an increase of the next level, in order to facilitate reference;
- Table A.3 sub-table will be combined into a table to comply with the provisions of GB/T 1.1-2009;
- Table A.4 sub-table will be combined into a table to comply with the provisions of GB/T 1.1-2009.

This part of the National Standardization Technical Committee elevator (SAC/TC196) and focal point.

This section is responsible for drafting unit. Condor Elevator Co., Ltd.

This section participates in the drafting unit. KONE Elevator Co., Ltd., China Building Research Institute of Building Mechanization Research Branch, Shanghai Mitsubishi Electric

Ladder Co., Ltd., Otis Elevator (China) Investment Co., Ltd., Schindler (China) Elevator Co., Ltd., Toshiba Elevator (China) Co., Ltd.

Suzhou Provincial Institute of Special Equipment Safety Supervision and Inspection Institute of Suzhou Branch, Guangdong Institute of Special Equipment Testing, Shenzhen Special Equipment Safety Inspection Institute

Institute, Jiangnan Jiajie Elevator Co., Ltd., Yongda Elevator Equipment (China) Co., Ltd., Otis Electromechanical Elevator Co., Ltd., Southeast Elevator

Co., Ltd., Hitachi Elevator (Guangzhou) Escalator Co., Ltd., Huasheng Fujitec Elevator Co., Ltd., ThyssenKrupp Elevator (China)

Co., Ltd., Shanghai Institute of Special Equipment Supervision and Inspection Technology, Guangzhou Guangri Elevator Industry Co., Ltd., Giant KONE Elevator Co., Ltd.,

Shenyang Yuanda Intelligent Industrial Group Co., Ltd., Shanghai Shida Electric Co., Ltd., Mitsubishi Elevator Co., Ltd., Suzhou

Nak Control Technology Co., Ltd., West Elevator Technology Co., Ltd., Kunshan Tong Yu

Elevator Co., Ltd.

0.2 This section provides.

- a) ways to estimate the daily and annual energy consumption of escalators and moving walkways;
- b) a method of ranking the energy performance of newly installed, used or retrofitted escalators and moving walkways;
- c) Guidelines for reducing energy consumption to support building environment and energy grading systems.

0.3 This section may provide guidance for the following parties involved.

- a) Building developers or owners who assess the energy consumption of escalators and moving walkways;
- b) Building owners and service companies that make modifications to escalators and moving walks that include reduced energy consumption;
- c) installation and maintenance of escalators and moving walkways;
- d) Consultants and architects involved in the specification of escalators and moving walkways;
- e) Inspectors and other third-party agencies that provide energy performance grading services.

0.4 The total energy consumed throughout the life cycle of escalators and travelators consists of manufacturing, installation, use and disposal processes

Energy consumption. However, this section considers only the energy performance during use (running and standby).

Elevators, escalators and moving walkways

Energy Performance Part 3. Escalators and

Automatic sidewalk energy calculation and classification

1.1 This section provides.

- a) Method used to estimate the energy consumption of escalators and moving walkways.
- b) A uniform method for classifying energy performance of newly installed, used or retrofitted escalators and moving walkways.

1.2 This section considers the energy performance of escalators and moving walkways during their life-cycle use. It does not contain aids

Equipment energy consumption and grading, for example.

- a) Lighting other than comb board lighting, step lighting and operation indicators;
- b) cooling, heating and room ventilation equipment;
- c) alarm devices and emergency power (battery) devices;
- d) environmental conditions
- e) power outlet consumption.

Notes 1. Comb plate lighting, step lighting, and operation indicators are considered as an integral part of the operation of the equipment and are therefore not defined as ancillary equipment.

Note 2. There may be other electrical loads not related to escalators or moving walks, which should not be included.

1.3 This section considers all escalators with a lifting height of not more than 8m, inclined moving walks and a horizontal length not exceeding 60m

Moving sidewalks.

This includes about 93% of the installed equipment in the country.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 25745-1 Energy performance of elevators, escalators and moving walkways - Part 1. Energy measurement and verification (Energy

performance of lifts, escalators and moving walks - Part 1. Energy measurement and verification)

3.1 Terms and definitions

ISO 25745-1 and defined by the following terms and definitions apply to this document.

3.1.1

Auxiliary energy ancillary energy

Auxiliary equipment consumed energy.

[GB/T 30559.1-2014, Definition 2.2]