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

GB/T 30977-2014

**Hollow guide rails for the counterweight and balancing weight
of lifts**

电梯对重和平衡重用空心导轨

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Quarantine;
Standardization Administration of the PRC**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard by the National Standardization Technical Committee elevator (SAC/TC196) and proposed centralized. This standard was drafted. Shanghai Mitsubishi Elevator Co., Ltd., China Academy of Building Research Construction Mechanization Research Branch, the Yangtze River conditioner machine Mechanical Co., Ltd., Hangzhou Hangzhou Mengtefeiluo Elevator Parts Co., Ltd. Hebei Mengtefeiluo rail, Hitachi Elevator (China) Ltd., KONE, Schindler (China) Elevator Co., Otis Elevator (China) Co., Ltd., Guangdong Province special equipment Inspection Institute, West Otis Elevator Co., Thyssen Elevator Co., Ltd., Giant Kone Elevator Co., Shanghai shares have Edenbo Elevator Limited, Shanghai Hyundai Elevator Co., Ltd., Guangdong Ling Wang Elevator Co., Ltd. Senhe Elevator, Express Elevator Co. Secretary, Fidelity Machinery Co., Ltd. Hebei Dongfang. The main drafters of this standard. Shun Mao, Tong Zhengguo, Chen Fengwang, yellow, Dengfeng Song, Li Weiping, Yang Yue, Ren Long Feng, Shaojian Fan, Li science, Li Guiping, Zhang Guohua, Liu Haojiong, Yao Lisong, Chen Xiaojun, Li Haifeng, Zhou Guoqiang, cattle ownership, Xu Yong, Jia Yan Hua. Elevator counterweight and balance reuse hollow rail

1 Scope

China's national standard for the hollow guide rails used by the counterweight and balancing weight of lifts. It specifies the types and parameters, the technical requirements, the testing, and the marking, packaging, transport and storage of these rails and of the fishplates that join them. It does not apply to hollow rails and fishplates used for a counterweight or balancing weight fitted with safety gear. A lift counterweight runs in its own pair of guide rails alongside the car, and those rails do a different job from the car rails. They do not have to arrest a falling mass, they do not carry a passenger, and they are not subject to the loads that safety gear operation imposes - so they are made as roll-formed hollow sections from sheet rather than as machined solid T-sections. That is a substantial saving in a component that runs the full height of the shaft in a building of any size, and it is why the product exists as a separate item with a standard of its own. The exclusion in the scope is the important sentence in the whole document: a counterweight fitted with safety

gear - required where the space beneath the shaft is occupied - can be gripped and stopped by its rails, and a hollow roll-formed section is not the right component for that duty. Within its scope, the standard fixes the section types and dimensional parameters, the material and mechanical requirements, the straightness and twist that determine ride quality, the machining of the ends and the fishplate joints, and the testing by which all of it is verified. Issued on 24 July 2014 and in force since 1 December 2014.

This standard specifies the counterweight and elevator balance weight hollow common rail (hereinafter referred to as "rails") and the counterweight and elevator balance weight commonly used hollow guide Rail connector (hereinafter "connector") models and parameters, technical requirements, testing and marking, packaging, transportation and storage. This standard does not apply to elevator safety gear hollow rails and connectors on the weight and balance of reuse.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Elevator counterweight and balance reuse hollow guide
hollow type guide rails for counterweight and balancing weight of lifts Roll Forming sheet by, for elevator counterweight and counterweight running guide member.

3.2 Elevator counterweight and balance reuse hollow rail connections
fish plates of hollow type guide rails for counterweight and balancing weight of lifts For connecting the balance to reuse and reuse connections hollow rails.

4 Symbols and units

Figures 1 and 2, Table 1, the symbols and the corresponding measurement units apply to this document.