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

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Point supporting devices for curtain walls

建筑幕墙用点支承装置

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard was proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic. This standard is under the jurisdiction of the National Building Curtain Wall Door and Window Standardization Technical Committee (SAC/TC448). This standard was drafted. Guangdong Jianlang Hardware Products Co., Ltd., China Academy of Building Research Institute, Shanghai Jianke Inspection Co., Ltd., Guangdong Provincial Academy of Building Research Group Co., Ltd., China Building Standard Design and Research Institute Co., Ltd., Shenzhen Xinshan Curtain Wall Technology Consulting Co., Ltd., Shenzhen Jinyue Curtain Wall Decoration Engineering Co., Ltd., Shenyang Yuanda Aluminum Engineering Co., Ltd., Jianghe Creation Group Co., Ltd., Shenzhen Sanxin Technology Development Co., Ltd., Guangdong Century Construction Group Co., Ltd., Guangdong Jianyijia Hardware Products Limited company. The main drafters of this standard. Liu Jianchun, Du Wanming, Wang Hongtao, Xu Qin, Li Wei, Hao Wei, Dou Tibo, Wan Shuchun, Wang Shuangjun, Yu Jun, Hua Dingxing, Chen Guangzhang, Shang Jingyu. Point support device for building curtain wall

1 Scope

China's national standard for the point supporting devices used in curtain walls. It specifies the terms and definitions, the classification and marking, the materials, the requirements, the test methods, the inspection rules and the product marking and certification. A point supported facade is the one with no visible frame: glass panels are held at their corners by stainless steel fittings - the spider and the routel - that pass through drilled holes in the

glass and connect to a structure of cables, trusses or fins behind. It is the construction that produces the fully transparent walls of airports, atria and shopfronts. The device carries the entire load of the panel at four small points, which is a severe demand on both the fitting and the glass around the hole, and it must also allow the panel to rotate slightly as the structure deflects. A fitting that grips rigidly instead concentrates bending stress at the hole, and the glass breaks - which is why the articulation of the joint is the substance of the standard.

This standard specifies the classification and marking, materials, requirements, test methods, inspection rules, product marks, and joints of point support devices for building curtain walls. Qualification, quality assurance and instructions for use, packaging, transportation and storage. This standard is applicable to point support devices for building curtain walls. Point support devices such as lighting roofs, awnings and guardrails can be referred to.

2 Normative references

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

GB/T 193 Ordinary Thread Diameter and Pitch Series

GB/T 196 basic thread basic size

GB/T 197-2018 Ordinary thread tolerance

GB/T 228.1-2010 tensile testing of metallic materials - Part 1

GB/T 1184-1996 Shape and position tolerances without tolerance values

GB/T 1220 stainless steel rod

GB/T 1804-2000 General tolerances and tolerances for linear and angular dimensions without tolerances

GB/T 2100 general corrosion resistant steel castings

GB/T 2828.1-2012. Sampling and sampling procedures - Part 1 . Batch-to-batch sampling plan searched by AQL

GB/T 3098.6 Mechanical properties of fasteners Stainless steel bolts, screws and studs

GB/T 3098.15 fastener mechanical properties stainless steel nut

GB/T 3280 stainless steel cold rolled steel plate and strip

GB/T 4226 stainless steel cold-worked steel rod

3 Terms and definitions

The following terms and definitions as defined in GB/T 34327 apply to this document.

3.1 Point support device pointsupportingdevice The panel is directly supported and fixed in a point connection, and the components that the panel is subjected to are transmitted.

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