

ICS 91.060.10

CCS P 32



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

GB/T 37268-2018

Photovoltaic shading panels for buildings

建筑用光伏遮阳板

Issued on: December 28, 2018

Implemented on: November 1, 2019

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 of China. This standard is under the jurisdiction of the National Building Components Standardization Technical Committee (SAC/TC454). This standard is drafted by: Beijing Zhongjian Building Science Research Institute Co., Ltd., China Construction First Bureau (Group) Co., Ltd. Participated in the drafting of this standard. Hanergy Holding Group Co., Ltd., Tianjin Construction Engineering Quality Testing Center, Shenyang Yuanda Aluminum Engineering Co., Ltd., China Academy of Building Research, China Building Standard Design and Research Institute Co., Ltd., Jiangsu Longsheng Energy Saving Technology Co., Ltd., China Enfei Engineering Technology Co., Ltd., China Construction Third Bureau Second Construction Engineering Co., Ltd., Shanghai Meite Curtain Wall Co., Ltd., Shanghai Sun Energy Technology Co., Ltd., Shandong Xiongshi Building Decoration Engineering Co., Ltd., Zhejiang Zhongte Curtain Wall Engineering Co., Ltd., Suzhou Ropps Gold Aluminum Co., Ltd., Yingli Energy (China) Co., Ltd., Zhejiang Yaxia Curtain Wall Co., Ltd., China Architecture Northwest Design and Research Institute Co., Ltd., Jiang Western Architectural Research Institute, Tianjin Housing Science Research Institute Co., Ltd., Southeast University, Beijing Construction Engineering Quality Sixth Testing Institute the company. The main drafters of this standard. Wang Zhiyong, Duan Qi, Xue Gang, Zhao Wenhai, Liu Qiang, Ding Jian, Yu Yue, Cong Zijun, Liu Yueli, Zhang Shujun, Sun Wei, Guo Dali, Chen Xin'an, Zhu Qifei, Chen Guoliang, Shangguan Feng, Cao Yuejin, Chen Hongcun, Liang Fei, Sun Liandi, Zhang Xiaoxiao, Liu Mingyu, Du Jialin, Li Shengying, Peng Changhai, Wang Jining, Ren Jing, Zhang Jinhua, Bai Tao, Zhu Jianfei, Zhang Chi, Ye Jinting, Yuan Tao, Fang Bin, Cai Qiang. Building solar visor

1 Scope

China's national standard for photovoltaic shading panels used on buildings. It specifies the terms and definitions, the classification and marking, the general requirements, the requirements, the test methods, the inspection rules and the marking and packaging. The panel is a building component and a generator at once: fixed as a brise-soleil above a window or across a facade, it shades the glass from high summer sun while generating electricity from the light it intercepts. That combination is the most economically defensible form of building integrated photovoltaics, because the shading has a value of its own - it reduces the cooling load, which in a Chinese summer is substantial - so the panel earns twice. What makes it a distinct product from a roof module is that it is a structural element in a public place: it must resist wind uplift, it must not fall, and if it breaks it must break safely, which is why it is generally laminated glass rather than the glass-and-backsheet construction of an ordinary module.

This standard specifies the terms and definitions, classification and marking, general requirements, requirements, test methods, inspection rules, and Marking, packaging, transportation and storage. This standard is applicable to sun visors with photovoltaic power generation for construction.

2 Normative references

The following documents are indispensable for the application of this document. 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.

GB/T 191 packaging storage and transportation icon

GB/T 700 carbon structural steel

GB/T 1591 low alloy high strength structural steel

GB/T 2297 solar photovoltaic energy system terminology

GB/T 3098.1 Fastener mechanical properties bolts, screws and studs

GB/T 5237.1 Aluminium alloy building profiles - Part 1.

GB/T 5237.2 aluminium alloy building profiles - part 2. anodized profiles

GB/T 5237.3 aluminium alloy building profiles - part 3. electrophoretic coating profiles

GB/T 5237.4 aluminium alloy building profiles - part 4. dusting profiles

GB/T 5237.5 aluminium alloy building profiles - part 5. painting profiles

GB/T 6388 transport packaging receipt and delivery mark

GB/T 9535 Ground Crystalline Silicon Photovoltaic Module Design Identification and Staging Technical requirements and test methods for hot-dip galvanized coating of

GB/T 13912 metal-clad steel parts

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