

ICS 91.100.99

CCS Q 18



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

GB/T 22412-2016

Replacing GB/T 22412-2008

Aluminium-plastic composite panels for ordinary decoration

普通装饰用铝塑复合板

Issued on: October 13, 2016

Implemented on: September 1, 2017

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 22412-2008 "Aluminum-plastic composite panels for general decoration". This standard compared with GB/T 22412-2008, in addition to editorial changes to the main technical content changes are as follows: - the definition of aluminum-plastic composite panels for general decoration has been removed (see Chapter 3 of the.2008 edition); - modified the classification and code of combustion performance (see

4.1 and 4.3.1); - modified technical requirements for aluminum thickness (see 5.3,

5.3 of.2008); - modified and listed the requirements for the performance of fluorocarbon coatings (see 5.4,

5.4 of.2008); - the technical requirements for modifying the bending strength (see 5.4,

5.4 of.2008); - modified technical requirements for 180 ° peel strength (see 5.4,

5.4 of.2008); - technical requirements and test methods for modifying the combustion performance (see

6.7.16 of.2008);

--- modified the number of specimens (see 6.2,.2008 version 6.2); - a test method for modifying the alkali resistance of non-fluorocarbon resin coated surfaces (see 6.29.2,

6.7.6 of.2008); - modified test conditions and methods for resistance to artificial climate aging (see 6.7. 13,

--- modified the inspection conditions of the type of inspection (see 7.2.2,.2008 version 7.2).

This standard is proposed by the China Building Materials Federation. This standard by the National Light and Decoration Building Materials Standardization Technical Committee (SAC/TC195) centralized. This standard is responsible for drafting units. China Building Materials Inspection and Certification Group Co., Ltd., Ministry of Public Security Sichuan Fire Research Institute. This standard participates in the drafting unit. Shanghai Huayuan Composite New Material Co., Ltd., Siruan Composites (China) Co., Ltd., East A Blue Sky Seven-color Building Materials Co., Ltd., Dongguan Walter Decoration Materials Co., Ltd.,

Hunan Huatian Aluminum Co., Ltd., Jiangyin Litai Decoration Materials Co., Ltd. Division, Fang Daxin Material (Jiangxi) Co., Ltd., Zhangjiagang Feiteng Aluminum-Plastic Co., Ltd., Guangzhou Future Window New Materials Co., Ltd. Division, Yatai Industrial Group Co., Ltd., Jiangyin Rainbow Board Co., Ltd., Ningbo Sequoia high-board Co., Ltd., auspicious Group Co., Ltd., Shanghai Jixiang Technology (Group) Co., Ltd., Guangzhou City, ah bar stick polymer materials Co., Ltd., Changzhou double European plate Industry Co., Ltd., Hunan Branch days New Materials Co., Ltd., Shanghai Jixiang Building Materials Group Co., Ltd., Jiangsu advertised new decorative materials Co., Ltd., Shanghai Branch Yue high-molecular Co., Ltd., Guangzhou Jixinxiang Decoration Building Material Co., Ltd., Shandong auspicious decorative building materials Co., Ltd., Linyi Xingda aluminum-plastic decorative materials Ltd., China and the United States and auspicious gold decorative decorative materials Limited, the Shanghai State Polymer Materials Co., Ltd., Guangzhou Lushan New Material Co., Ltd., Guangdong Baoli Ya Metal Building Materials Co., Ltd., Jiangsu Province, Jiangsu Construction Group Co., Ltd., China Building Materials Federation Aluminum - Plastic Composites Branch. The main drafters of this standard. Jiang Quan, Ma Liping, Hu Yunlin, Liu Tingting, Liu Yujun, Zhao Chenggang, Zheng Xueying, Liu Shunli, Sun Feilong, Wang Xiao, He Lei, Li Ge, Wang Xiaohong, Zhang Wei, Wang Bangguo. This standard was first released in October.2008, this time for the first revision. Ordinary decorative aluminum - plastic composite panels

1 Scope

China's national product standard for the aluminium composite panel used for ordinary decoration rather than for curtain walling. It specifies the terminology and definitions, the classification, the specifications and marking, the inspection methods, the inspection rules, and the marks, packaging, transport, storage and accompanying documents, and it applies to aluminium-plastic composite panels for indoor and outdoor decoration other than building curtain walls. The exclusion in the scope is the whole point of having a separate standard. The same product with a thicker aluminium skin and a controlled core goes on the outside of a tall building under GB/T 17748, where it is a structural cladding element that has to resist wind load, accommodate movement and behave acceptably in a fire. Here the panel is a facing: shop fronts, signage, interior linings, partitions, fascias and column casings, where it is fixed to a substrate, carries no load and spans nothing. Because the duty is lighter, the panel is made lighter - thinner skins, and often a different core - and it costs a fraction of the curtain wall product. That distinction is precisely where the danger lies, and it is why the two standards keep separate classifications and separate marking requirements: a decorative panel installed as curtain wall cladding is both structurally inadequate and, where the core is unmodified polyethylene, a fire risk of the kind that has destroyed buildings. So this standard sets the classification and the designation that identify what the panel is, the aluminium thickness and the core, the peel strength between skin and core, the dimensional tolerances and flatness, the coating performance, and the marking that

must accompany it. Issued on 13 October 2016 and in force since 1 September 2017, it replaces GB/T 22412-2008.

This standard specifies the terminology and definition, classification, specifications and marking of ordinary decorative aluminum-plastic composite panels (hereinafter referred to as decorative panels). Inspection methods, inspection rules, signs, packaging, transportation, storage and accompanying documents. This standard applies to indoor and outdoor non-architectural curtain wall with aluminum composite panels.

2 Normative reference documents

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

GB/T 191 packaging and storage icon

GB/T 1634.2 Determination of plastic load deformation temperature - Part 2. Plastics, hard rubber and long fiber reinforced composites

GB/T 1720 Determination of film adhesion

GB/T 1732 Determination of impact resistance of paints

GB/T 1740 film moisture resistance test method

GB/T 1766 coloring and varnish coating aging method

GB/T 1771 Paints and varnishes - Determination of resistance to neutral salt spray

GB/T 2790 Adhesives - 180 ° peel strength test method - Flexible materials - Rigid materials

GB/T 2918 Standard conditions for the regulation and testing of plastic specimens General industrial aluminum and aluminum alloy sheets, strips - Part 3. Dimensional deviation GB/T

GB/T 4957 non-magnetic metal substrate on the non-conductive coating layer thickness measurement eddy current method

GB/T 6388 shipping package collection and delivery mark

GB/T 6739 Paint and varnish pencil method for determination of film hardness Concrete admixture Classification of Combustion Performance of Building Materials and Products GB/T Test for

GB/T 9286 Paints and varnishes

3 Terms and definitions

The terms and definitions defined in GB/T 17748-2016 apply to this document.