

ICS 91.100.99

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

中华人民共和国国家标准

GB/T 17748-2008

Replace GB/T 17748-1999

Aluminium-plastic Composite Panel for Curtain Wall

建筑幕墙用铝塑复合板

Issued on May 12, 2008

Implemented on November 01, 2008

**Issued by General Administration of Quality Supervision, Inspection
and Quarantine of the People's Republic of China**

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

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Foreword

This standard replaces GB/T 17748 -1999 "Aluminium-plastic Composite Panel".

There are some changes in this national standard over GB/T 17748-1999 in the following technical aspects:

—The name of the standard is modified as "Aluminium-plastic Composite Panel for Curtain Wall";

—Partial contents about interior wall panel (Sections 4.1, 4.3, 5.1, 5.2 and 5.6) in the primary standard are canceled, and the contents about interior wall panel are drafted as now standard "Aluminium-plastic Panel for Normal Decoration";

—Classification requirement (Section 4.3 and 5.5), areal density, and scrubbing resistance requirement and test method (Sections 5.6, 6. 11.3 and 6.14) are canceled;

—Classification, code, requirement and test method of flame-retardant product (Sections or Articles 4.1, 4.2, 6.1.4 and 7.7.21) are added;

—Contents about aluminium product thickness, and Nitric Acid resistance requirement and test method (Sections or Articles 6. 1.3, 6. 1.4, 7.5 and 7.7.9) are added;

—Coating thickness, contamination resistance, glossiness difference, alkali resistance, artificial weathering resistance, peel strength, through resistance, shear strength, temperature-change resistance and technical criteria of heat distortion temperature (Section 5.6 in the primary standard, Article 6. 1.4 in this standard) are revised;

—Test methods for alkali resistance, solvent resistance, peel strength and temperature-change resistance (6. 11.1, 6.11.2, 6.17, and in the primary standard, 7.7.8, 7.7.10, 7.7.16 and 7.7.17 in this standard) are revised;

—Test method description of impact resistance, bend strength and elastic modulus in bending and Heat distortion temperature (6.9,6.15 and 6.20 in the primary standard, 7.7.5, 7.7.14 and 7.7.19 in this standard) are revised;

Appendix A, Appendix B and Appendix C in this standard are normative.

This code is proposed by China Building Material Industry Association.

This standard is under the jurisdiction of Chinese Standardization Committee of Light and Decorative Building Materials (SAC/TC 195).

The standard is prepared by China Building Material Test and Certification Center, National Research Center of Testing Techniques for Building Materials and Technical Supervision & Research Center China Building Material Industry.

The standard jointly drafted by: Jiangxi Hongtai Industry Group Co., Ltd., Shanghai Huayuan New Composite Materials Co., Ltd., Alcan Composites Co., Ltd., Zhejiang Wonderful-wall Building Materials Co., Ltd., Zhejiang Wonderful-wall Building Materials Co., Ltd., Dupont China (Group) Co., Ltd., Changzhou Sinochem Qinfeng Plastics Co., Ltd., Dong'e Blue Sky and Seven Color

Building Material Co., Ltd., Dongguan Walltes Decorative Material Co., Ltd., Hunan Huatian Aluminum Co., Ltd., Sino-Foreign Joint Venture Jiangyin Litai Decorative Materials Co., Ltd., China Fangda Group Co., Ltd., Yunnan Goldensun new material Co., Ltd.,Zhangjiagang Taipuqi Decoration Material Co., Ltd., Huayang Chemical Engineering (Shenzhen) Co., Ltd., Foshan Gaoli Aluminium Composite Panel Co., Ltd., Fuersheng Chemical Engineering (Dongguan) Co., Ltd., Guangdong Likeair Industry Co., Ltd., Guangzhou Willstrong Constructional Material Holding Co., Ltd., Alumax (Jiangyin) Machinery Manufactory CO., LTD., Jiangyin Huahong Alubond Metal Industrial CO.,Ltd., China Longbird (Group) Co., Ltd.,Shanghai Yaret Industry (Group) Co., Ltd., Jiangyin Skyrainbow Decoration Material Co., Ltd., Ningbo Redfir High-tech Board Industry Co., ltd., Beijing Shengan Building Material Industries Co., Ltd., Haining City Zhongda Plastic Co., Ltd., DODO Aluminium (Suzhou) Co., Ltd., Foshan Yadali Decoration Material Co., Ltd., Jixiang Group Co., Ltd., China Building Material Industry Association -Aluminium-plastic Composite Brench.

The standard is drafted by Hu Yunlin, Wu Qingtao, Jiang Quan, Gao Rui, Liu Tingting, Xu Xiaopeng, Liu Yujun, Qiao Yaling, Mu Xiujun and Liu Wuqiang.

China Building Material Test and Certification Center is entrusted to interpret this Standard.

The standard is issued in 1999 firstly.

Aluminium-plastic Composite Panel for Curtain Wall

1 Scope

This standard specifies Terms and Definitions, classification, specification, size, mark, material, requirement, test method, test rule, symbol, package, transportation, storage and accompanied documents of aluminium-plastic composite Panel for curtain wall (hereinafter referred to as curtain wall panel).

The standard is mainly applicable to aluminium-plastic composite panel for curtain wall, and aluminium-plastic composite panels for other purpose may refer to this standard.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 191 Packaging-Pictorial Marking for Handling of Goods (GB/T 191-2000, EQV ISO 780: 1997)

GB/T 1634.2 Plastics-Determination of Temperature of Deflection Under Load –Part 2: Plastics, Ebonite and Long-fiber Reinforced Composites (GB/T 1634.2-2004, IDT ISO 75-2: 2003)

GB/T 1720 Method of Test for Adhesion of Paint Films

GB/T 1732 Determination of Impact Resistance of Film

GB/T 1740 Method of Test for Resistance to Heat and Humidity of Paint Films

GB/T 1766-1995 Paint and Varnish ——Rating Schemes of Degradation of Coats (NEQ ISO 4628 -1: 1980)

GB/T 1771 Paints and Varnishes -Determination -Resistance to Neutral Salt Spray(GB/T 1771 2007, IDT ISO 7253: 1996)

GB/T 2918 Plastics-Standard Atmospheres for Conditioning and Testing(GB/T 2918 1998, IDT ISO 291: 1997)

GB/T 3880.2-2006 Wrought Aluminium and Aluminium Alloy Plates, Sheets and Strips for General Engineering -Part 2: Mechanical Properties

GB/T 4957 Non-conductive Coatings on Non-magnetic Basis Metals -Measurement of Coating Thickness -Eddy Current (GB/T 4957-2003, IDT ISO 2360: 1982)

GB/T 6388 Transport Package Shipping Mark

GB/T 6739 Determination of Film Hardness by Pencil Test (GB/T 6739-2006, IDT ISO 15184: 1998)

GB 8624 Classification on Burning Behavior for Building Materials

GB/T 9286 Paints and Varnishes -Cross Cut Test for Films (GB/T 9286 1998, EQV ISO 2409: 1992) Paints and Varnishes ——Measurement of Specular Gloss of Non-Metallic

Paint Films at 20°,60° and 85° (GB/T 9754-2007, IDT ISO 2813: 1994) GB/T 9780 Test Method for Dirt Pickup Resistance of Film of Architectural Coatings and Paints

GB 11115 Low Density Polyethylene Resin

GB 11116 High Density Polyethylene Resin GB/T 11942 Colorimetric Methods for Color Building Materials

GB/T 15182 Linear Low Density Polyethylene Resin

GB/T 16259 Test Method for in Accel Erated Weathering Building Materials

3 Terms and Definitions

For the purpose of this standard, the following terms and definitions apply.

3.1 Aluminium-plastic Composite Panel

It refers to a three-layer composite panel with a plastic sandwich layer and two aluminium layers on both sides. The panel is covered with decorative and protective coating or film (known as coating if there is no special marks) as decorative plane of the product.

3.2 Aluminium-plastic Composite Panel for Curtain Wall

Aluminium-plastic composite panel is used for curtain wall material.

3.3 Wave

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