

ICS 25.220.60
CCS A 29

JG

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

JG/T 495-2016

Replacing JG/T 3045.2-1998

**Specification of franklinism powder spraying coating for steel
windows and doors
(English Translation)**

Issued on: June 1, 2016

Implemented on: December 1, 2016

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is JG/T 3045.2-1998 "steel doors and windows electrostatic spraying coating technical conditions" amendment. In addition to editorial changes, this standard and JG/T 3045.2-1998 main technical changes are as follows.

- Added "terms and definitions" (see 3);
- Deleted the description of the basic requirements of steel doors and windows and steel doors and windows surface pretreatment of the relevant provisions of the description (see 1998 version 3.1.1 and 3.1.2);
- Remove the steel door and window surface pretreatment within 24h electrostatic powder coating of the provisions of the description (see 1998 version 3.1.3);
- Removed the specified description of thermosetting pure polyester powder or acrylic powder coating with excellent weatherability (see 1998 Version 3.1.4);
- Added "General Requirements" (see 4.1);
- Added "gloss" and test methods (see 4.2.3 and 5.4);
- Increased coating impact resistance requirements and testing methods (see 4.2.6,5.7);
- Added "wet adhesion" requirements and test methods (see 4.2.7 and 5.8);
- Increased "wear resistance" and test methods (see 4.2.8 and 5.9);
- Increased "scratch resistance" and test methods (see 4.2.9 and 5.10);
- Modify the test of wet-heat resistance of the coating (see 4.2.10, 1998 version 4.7);
- Increase the "resistance to hydrochloric acid" and test methods (see 4.2.12 and 5.13);
- Increased "detergent resistance" and test methods (see 4.2.13 and 5.14);
- Modify the coating salt spray test time (see 4.2.15, 1998 version 4.9);

- Modify the coating weatherability test time (see 4.2.16, 1998 version 4.11);
- Added "test plate preparation" provisions (see 5.1);
- Modify the type test batch and sampling rules (see 6.2.2, 1998 version 5.3);
- Modify the type test rules for the determination of the rules (see 6.2.4, 1998 version 5.4);
- Removed Chapter 6 "Marking, Packaging, Transport, Storage" and related provisions (see the 1998 edition of Chapter 6).

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Housing and Urban-Rural Construction Products and Components Standardization Technical Committee.

This standard was drafted. Zhejiang Building Science Design Institute Co., Ltd., Zhejiang Mingquan Industrial Coating Co., Ltd., Zhejiang Bo Yuan Jian Ltd., Cixi Chengzheng Construction Engineering Testing Co., Ltd., Ningbo Ziguang Construction Engineering Testing Co., Ltd., Zhejiang Construction Technology Promotion Center, China Construction Engineering Group Co., Ltd., Zhejiang Yun Construction Co., Ltd., Zhejiang Sheng Industry Co., Ltd., Zhejiang Yaxia Curtain Wall Co., Ltd., Zhejiang Boao Aluminum Co., Ltd., Jiangyin Donghua Aluminum Technology Co., Ltd., Zhejiang Province Quality Inspection Institute of Science and Technology, Hangzhou City Urban Construction Science Research Institute.

1 Scope

This standard specifies the terms and definitions, requirements, test methods and inspection rules of steel doors and windows powder electrostatic spraying coating.

This standard applies to the construction of steel outer door with thermosetting powder coating.

2 Normative references

The following documents for the application of this document is essential. 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 1732 film impact resistance assay GB/T 1740 Determination of film resistance to dampness GB/T 1766 Paints and varnishes coating aging rating method GB/T 1771 Paints and varnishes - Determination of resistance to neutral salt spray performance GB/T 1865-2009 paints and varnishes artificial weathering and artificial radiation exposure filtered xenon arc radiation GB/T 6682 analytical laboratory water specifications and test methods Concrete admixtures GB/T 9271 standard paint and varnish test panels GB/T 9275 Paints and varnishes - Buckholds indentation test GB/T 9279 Paints and varnishes -

Scratch test Tests for crosshatch of paints and varnishes - GB/T 9286-1998 GB/T 9754
Paints and varnishes - Determination of the specular gloss at 20 °, 60 ° and 85 ° of metallic
paint-free paint films GB/T 9761 Paints and varnishes visual colorimetric paint GB/T
13452.2 Paints and varnishes - Determination of film thickness GB/T 17671 cement mortar
strength test method (ISO method) GB/T 23988 Determination of abrasion resistance of the
coating Sand method JC/T 481 building slaked lime JG J63 concrete water standards (with
provisions of the standard)

3 Terms and definitions

The following terms and definitions apply to this document.

Powder electrostatic spray franklinismpowderspraying the use of DC high voltage
electrostatic generator and negatively charged powder coating particles in the electrostatic
and compressed air flow along the electric field of the anti-Directional directional motion
adsorption in the positive steel doors and windows workpiece surface, the level of solidified
powder coating spraying method.

Powder electrostatic spray coating franklinismpowdersprayingcoating the use of
electrostatic powder coating method coated steel doors and windows in the surface of the
cured thermosetting powder coating, referred to as the coating.