

JG

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**Porcelain enameling steel panels for building
(English Translation)**

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Foreword

This Standard was proposed by Standard-Quota Institute of Ministry of Housing and Urban-Rural Development.

This Standard shall be under the jurisdiction of Building Product and Part Standardization Technical Committee of Ministry of Housing and Urban-Rural Development.

The responsible drafting organizations of this Standard. Zhejiang Kaier Industry Co., Ltd. AND Shenzhen Xinshan Curtain Wall Technology Consulting Co., Ltd.

The participating drafting organizations of this Standard. Guangzhou Meibiao Yifeng Enamel Co., Ltd., Baolichang Metal Products (Shenzhen) Co., Ltd., Foshan Weiyi Metal Products Co., Ltd., Shenzhen Keyuan Building Group Co., Ltd., National Testing Center For Building Materials, Guangdong Province Academy of Building Science, Building Curtain-Wall, Door-Window Quality-Inspection Department of National Building Engineering Quality, Supervision and Test Center, Institute of Vitreous Enamel of Donghua University, East China Architectural Design & Research Institute Co. Ltd., AND Hangzhou Zhijiang Silicone Chemicals Co. Ltd.

Main drafters of this Standard. Du Jiyu, Xing Hanxue, Dou Tiebo, Li Zhiqiang, Wang

Jiwen, Zhang Litao, Gu Jinfang, Li Xiuqing, Jiang Quan, Jiang Weizhong, Jiang Ren, Dang Jie, Tan Shangfei and Liu Ming.

This Standard was issued for first-time.

Porcelain Enameling Steel Panels for Building

1 Scope

This Standard specifies the terms and definitions, classification and mark, material, requirements, test method, inspection rules and mark, packing, transportation and storage of porcelain enameling steel panels for building.

This Standard is applicable to porcelain enameling steel panels for interior and exterior decoration of building.

2 Normative references

The articles contained in the following documents have become part of this document when they are quoted herein. For the dated documents so quoted, all subsequent modifications (including all corrections) or revisions made thereafter do not apply to this Standard. However, the parties who reach an agreement according to this Standard are encouraged to study whether the latest versions of these documents can be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T2518 Continuously hot-dip zinc-coated steel sheet and strip

GB/T 3880 Aluminium and aluminium alloy rolled sheet

GB 6566 Limits of radionuclides in building materials

GB 8624-2006 Classification for burning behavior of building materials and products

GB/T 9174 General specification for transport packages of general cargo

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions are applicable to this Standard.

3.1

Porcelain enameling steel panel

The combination panel that the inorganic glass material is fused onto steel panel and forms firm combination with steel panel.

3.2

Composite porcelain enameling steel panel

The porcelain enameling steel panel of which the backside is adhered with back-lining material or has interlayer.

3.3

Dry process enameling

The enameling method that the dry porcelain glaze powder is coated onto the base steel panel through high-voltage static electricity.

3.4

Wet process enameling

The enameling method that the porcelain glaze powder that is floated in water (medium) is coated onto base steel panel.

4.1 Product name and code

Product name. porcelain enameling steel panel for buildings and decoration, abbreviated as porcelain enameling steel panel; the code is. TCGB.

4.3.1 Marking method

Porcelain enameling steel panel for building and decoration is marked in such sequence according to product name and code, application, enameling process, combination, panel shape, dimension and standard number.

5.1.1 Chemical composition (heat analysis) of base steel panel and steel belt shall

conform to requirements in Table 1.

5.1.2 Mechanical properties of base steel panel and steel belt shall conform to requirements in Table 2.

5.1.3 The minimum measured thickness of base steel plane for interior decoration shall

not be less than 1.0mm, and that for exterior decoration shall not be less than 1.4mm.

5.2.1 Back-lining material shall not be wet or hydrolyzed, and shall not pollute the environment. There shall be no substances harm to human. The limit of radioactive nuclide shall conform to regulations of GB 6566.

5.3.1 The back-lining and back-lining overlay of the combination panel should be bonded

by combustion heat value adhesive, and shall conform to requirements of fireproof performance in 6.4 of this Standard.

5.4.1 Fixed pendant shall be manufactured of cold-roll steel panel (the same material as

that of base steel panel) of which the thickness is not below 2.0mm, and have porcelain enameling treatment together with base steel panel after being welded with the base plate.

5.4.2 If necessary, it can be made of stainless steel panel of which the thickness is not

below 2.0mm.

6.1.1 The allowable dimensional deviation of square panel shall conform to regulations in

Table 3.

6.1.2 The allowable deviation and geometric toleration of circular panel size shall conform to regulations in Table 4.