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

GB/T 17841-2008

Heat strengthened glass

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(English Translation)

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Foreword

The consistent degree BETWEEN this Standard AND EN 1863-1:2000 "Glass in Building - Heat Strengthened Soda Lime Silicate Glass - Part 1. Definition and Description" and EN 1863-2:2004 "Glass in building - Heat strengthened soda lime silicate glass - Part 2. Evaluation of conformity/Product standard" is not equivalent.

This Standard also refers to ASTM C 1048-04 "Standard Specification for Heat-Treated Flat Glass - Kind HS, Kind FT Coated and Uncoated Glass".

This Standard replaces GB 17841-1999 "Tempered and heat-strengthened glass used in curtain walls". Compared with GB 17841-1999, the main technical differences are as follows.

- Delete the technical requirements in toughened glass;
- Delete the technical requirements in wind resistance Property; and add the technical requirements in splinters statue and bending strength;
- Add the technical requirements on "ones which the side length is larger than

3000 mm" in the dimension and allowable deviation; and add the technical

requirements to round hole;

- Add the requirements of edge-crack defect allowance to appearance quality items;
- Delete the requirements of heat strengthened glass Perpendicularity method to tortuosity factor items;
- Add Annex A (Normative).

Annex A of this Standard is normative.

This Standard was proposed by China Building Materials Federation.

This Standard shall be under the jurisdiction of the State Standardization Committee of Building Glass.

Drafting organization of this Standard. China Building Material Test and Certification Center (CTC).

Participating drafting organizations of this Standard. GUANGDONG GOLDEN GLASS TECHNOLOGIES LTD., Hehe Holding Group Co., Ltd., Zhejiang Zhongli Holding Group Co., Ltd., Jiangsu Xiuqiang Glass Technology Co., Ltd., China South Glass (CSG) Holding Limited, Shanghai Yaohua Pilkington Glass Co., Ltd., Beijing WuHua TianBao Glass CO., LTD., Jiangmen Yinhui Safety Glass Industry Co., Ltd., Hangzhou Qiantangjiang Glass Industry Co., Ltd.

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The previous edition replaced by this Standard is as follows.

- GB 17841-1999.

Heat Strengthened Glass

1 Scope

This Standard specifies terms and definitions, classification, technical requirements, test method, test rules and marking, Package and transportation and storage of heat strengthened glass made by the heat treatment.

This Standard is applicable to heat strengthened glass for building made by heat treatment. The heat strengthened glass for other purpose except building may reference to this Standard according to the characteristics of the products.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For dated references, the subsequent amendments or revisions of these publications do not apply. However, parties who enter into agreement based on this part are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 1216 External micrometer

GB/T 8170 Rules for Rounding Off Of Numerical Values

GB 15763.2-2005 Safety Glazing Materials in Building - Part 2.Tempered Glass

3 Terms and Definitions

The following terms and definitions apply in this Standard.

4 Classifications

Based on production process, heat strengthened glass may be classified as heat strengthened glass made with perpendicularity method and heat strengthened glass made with horizon method.

5 Materials

The quality of the glass sheets for producing heat strengthened glass shall meet the requirements the related product standards.

6 Requirements

Property items and test methods of Heat strengthened glass shall meet the requirements of the items in Table 1.

6.1 Thickness deviation

The Thickness deviation of the products shall meet the requirements of the standards applying the adopted glass sheets.

6.2.3.1 General

This article is only applicable to the products of which the normal thickness is not less than 4mm. The edge processing quality of round hole shall be negotiated by the supplying and demanding parties.

6.5 Tortuosity

The tortuosity factor of flat product made with horizon method shall meet the requirements of Table 6; the tortuosity factor of flat product with perpendicular method shall be negotiated by the supplying and demanding parties.

6.7 Surface stress

Inspected in accordance with 7.7, the surface stress shall meet the requirements in Table 8.

6.8 Splinters statue

The splinters statue of the glass of which the thickness is not larger than 8mm shall be inspected in accordance with 7.8; the splinters statue of each test sample shall meet the requirements in 6.8.1. The splinters statue of the glass of which the thickness is larger than 8mm shall be negotiated by the supplying and demanding parties.

6.8.2.2 When all sides of splinter are not able to extend into the non-inspection area,

then this splinter is classified into "islet" splinter and "grain" splinter.

Above-mentioned splinter shall meet the following requirements.