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Light weight thermally strengthened glass

轻质物理强化玻璃

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Categories

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard proposed by the China Building Materials Federation. This standard by the National Industrial Glass and Special Glass Standardization Technical Committee (SAC/TC447) centralized. This standard was drafted unit. China Building Materials Inspection and Certification Group Co., Ltd., Foshan City, Sauos Glass Technology Co., Ltd., Machinery Trading (Shanghai) Co., Ltd., Follett Glass Group Co., Ltd., Changzhou Ya Mardon Co., Ltd., China CSG Group Co., Ltd., Dongguan City, Yintong Glass Co., Ltd., Jiangsu bustling glass Co., Ltd., Changzhou City Hong Association Safety Glass Co., Ltd. New Fuxing Glass Co., Ltd., Henan Ancai Transtech Services Co., Ltd., Xinyi Photovoltaic Industry (Anhui) Holdings Co., Ltd., Hangzhou Seiko Machinery Co., Ltd., Zhejiang Jiafu Glass Co., Ltd., the State Safety Glass and Quartz Glass Quality Supervision and Inspection Center, the State Building Materials Industry Solar Photovoltaic (Electrical) Product Quality Supervision and Inspection Center, China Building Materials Inspection and Certification Group Beijing-day reputation Limited. The main drafters of this standard. Qiu Juan, Wang Rui, Ding Zuo Xin, Zhou Jun Hill, Cui Zhiqing, Ruan Hongliang, Lin Jinxi, Zeng Yu Bin, Wan Yongning, Ye Shubing, Chen Xiemin, Tian Yonggang, Cai Zhiduan, Ding Chuanbiao, Zhao Xiaofei, Yao Min, He Hongan, Wu Xueyao, Xiao Pengjun, Liu Xiaogan, Wang Jingjing, Wang Dong, Wang Li, Yang Fan, Huang Xiaolu, Zhang Zuozhong, Shi Lin, Li Na, Qin Xianming, Wang Li Chuang, Li Yang, Bu Cong, Li Boye, Liu Zhimin, Qi Bin.

Lightweight physical tempered glass

1 Scope

China's national standard for lightweight heat strengthened glass. It specifies the terms and definitions, the classification, the requirements, the test methods, the inspection rules and the marking, packaging, transport and storage, and it applies to lightweight physically tempered glass of thickness from 1.3 mm up to but not including 3 mm. Thin glass is difficult to strengthen thermally, and the reason is straightforward. Thermal toughening works by cooling the surfaces of hot glass faster than the core, so the surfaces end in compression and the core in tension, and a crack cannot start until the compression is overcome. The

strength achieved depends on the temperature difference that can be established across the thickness - and in glass a millimetre or two thick there is barely any thickness to establish it across. Doing it needs quenching far more aggressive than conventional toughening, and it produces a product distinct enough to warrant its own standard. It goes where weight matters: vehicle glazing, photovoltaic modules, display and appliance panels.

This standard specifies the terms and definitions of light-weight glass, classification, requirements, test methods, inspection rules and signs, packaging, transport And storage. This standard applies to the thickness greater than or equal to 1.3mm and less than 3mm lightweight physical tempered glass, the thickness of less than 1.3mm light Physical strengthening glass can refer to use. This standard does not apply to chemically strengthened glass.

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 1216 diameter micrometer

GB/T 6091 blade-shaped ruler GB/T 9056 metal ruler GB 11614 flat glass

GB 15763.2 Safety glass for building - Part 2. Tempered glass

GB/T 18144 glass stress test method GB/T 20428 rock slab

GB/T 22523 feeler Glass for solar energy - Part 1. Ultra white embossed glass QB/T 2443 steel tape measure

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Lightweight physical tempered glass lightweightthermalstrengthenedglass Thickness of less than 3mm, after heat treatment process improved mechanical properties of soda-lime silica glass.

4 Categories

4.1 according to the type of the original film is divided into.

- a) slab lightweight physical tempered glass;
- b) Embossed lightweight physical tempered glass.

4.2 divided by the state of debris.

- a) Class A lightweight, tempered glass, light-weight, tempered glass requiring fragmentary condition;
- b) Class B light-weight, tempered glass, light-weight, tempered glass not required for debris state.

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