

ICS 27.010
CCS F01



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

GB 21340-2019

Replacing GB 21340-2013

**The norm of energy consumption per unit products for glass
products and cast stone**

玻璃和铸石单位产品能源消耗限额

Issued on: October 14, 2019

Implemented on: May 1, 2020

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the China National Standardization Administration. This standard replaces GB 21340-2013 "flat glass unit energy consumption limit", GB 30252-2013 "photovoltaic rolled glass Energy consumption limit per unit product, GB 29451-2012 "Energy consumption limit for cast stone unit products". With GB 21340-2013, Compared with GB 30252-2013 and GB 29451-2012, except for editorial changes, the main technical changes are as follows:

- Added the definition of "special production line for flat glass for automobiles" (see 3.2);
- Supplemented the energy consumption correction factor of the flat glass unit product of the special flat glass production line for automobiles (see Table 2 in 4.1);
- Supplemented the energy consumption limit level (see 4.1);
- Removed the heat consumption index of the flat glass unit melting furnace (see Chapter 4 of GB 21340-2013);
- Increased the comprehensive energy consumption access value of flat glass unit products (see 5.2, 4.2 in GB 21340-2013);
- Removed the advanced value of the energy consumption limit of flat glass unit products (see 4.3 in GB 21340-2013), photovoltaic calendered glass unit production The advanced value of energy consumption (see 4.3 in GB 30252-2013) and the advanced value of comprehensive energy consumption of cast stone unit products (see GB 29451- In.2012, 4.3);
- Removed energy management and measures (see Chapter 6 of GB 21340-2013, Chapter 6 of GB 30252-2013 and Chapter 6 of GB 29451-2012). This standard was drafted. China Building Materials Inspection and Certification Group Qinhuangdao Co., Ltd. (National Glass Quality Supervision and Inspection Center), Fuyao Glass Industrial Group

Co., Ltd., Hangzhou Jinggong Machinery Co., Ltd., China Building Materials Inspection and Certification Group Co., Ltd., Qinhuangdao City Express Glass Electromechanical Technology Co., Ltd., Asahi Glass Automotive (Suzhou) Co., Ltd., Benxi Zhishan Ganghua Technical Glass Co., Ltd., Tianjin Yaopi Glass Co., Ltd., Yuzhong Yuantu Technology Development Co., Ltd., Shandong Huapeng Glass Co., Ltd., Mingchi Glass Co., Ltd., Huzhou Tianshi Glass Products Co., Ltd., Qinhuangdao Tianhe Industry and Trade Co., Ltd., Xinyi Photovoltaic Industry (Anhui) Holdings Co., Ltd., Follett Photovoltaic Glass Glass Group Co., Ltd., National Safety Glass and Quartz Glass Quality Supervision and Inspection Center, Qinhuangdao Glass Industry Research and Design Institute Division, China National Institute of Standardization, Zhangzhou Qibin Glass Co., Ltd., China Glass Holdings Co., Ltd., Hebei Xinli Glass Co., Ltd. The main drafters of this standard. Huang Jianbin, Li Yong, Sun Jieping, Li Xiaojie, Yan Shuwei, Huang Zhibin, Huang Zhongsheng, Hu Yunlin, Qi Jianhua, Liu Zhifu, Chen Xueping, Yao Min, Han Shuping, Tian Li, Zhong Zhen, Feng Wei, Gao He, Wu Ying, Liu Huanzhang, Jiang Meiqin, Yang Jianjun, Gao Feng, Zhang Jingling, Yan Haochun, Fan Xianglin, Wang Zhong, Zhang Fengge, Tian Zizhuang, Du Dayan, Liang Xiuying, Kang Jun, Jia Lidai, Liu Yiqun, Wang Guohua, Zhang Jun, Zhao Shoujian, Yang Xuemei, Song Zhenhua, Xi Zhenghong, Tan Xiaojian, Zhang Hongyuan, Huang Mengchi, Zhang Wei, Liu Fengyuan, Qi Fei, Wang Yingjie, Li Jiaying. The previous versions of the standards replaced by this standard are.

---GB 21340-2008, GB 21340-2013;

---GB 30252-2013;

---GB 29451-2012. Glass and cast stone unit product energy consumption limit

1 Scope

GB 21340-2019 is the Chinese national standard on the norm of energy consumption per unit products for glass products and cast stone, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 14 October 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2020. Classification: ICS 27.010, CCS F01. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the energy consumption per unit of flat glass, tempered glass, photovoltaic rolled glass and cast stone (hereinafter referred to as "energy consumption") Language and definition, energy consumption limit level, technical requirements, energy consumption correction factor, statistical range and calculation method. This standard is

applicable to the production of transparent and bulk-colored sodium-calcium-silicate flat glass products by float process, and steel produced by horizontal tempering method. Glass products, photovoltaic rolled glass products produced by calendering, and enterprises producing cast stone products for energy consumption calculation, assessment and new construction And energy control of the expansion and expansion project. This standard does not apply to the production of ordinary embossed glass, wired glass and special flat glass for the production of aerospace, electronics, information and other industries. Glass products are also not suitable for the production of automotive tempered glass, chemically tempered glass and non-horizontal tempering methods for the production of tempered glass products. Business.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2589 General rules for comprehensive energy consumption calculation GB 11614 flat glass

GB/T 12723 General rules for the preparation of energy consumption per unit of products

GB/T 36267 tempered glass unit product energy consumption test method JC/T.2001 glass for solar cells

3 Terms and definitions

The following terms and definitions as defined in GB/T 2589 and GB/T 12723 apply to this document.

3.1 Flat glass unit product energy consumption

thecomprehensiveenergyconsumptionperunitproductofflatglass During the statistical period, the various energy sources consumed by the production of qualified flat glass per weight box shall be converted according to the prescribed calculation methods and units. After the sum.

3.2 Special production line for flat glass for automobiles

specialproductionlineofflatglassforautomobile One of the float glass production lines, the product has a single use, and more than 90% of the output is used as the original film for manufacturing automotive glass. The production line has a small tonnage, a thin product, high quality requirements, and a large proportion of color glass.

3.3 Tempered glass unit product energy consumption

theenergyconsumptionperunitproductoftemperedglass During the statistical period, the company produces electricity consumed per square meter of qualified tempered glass

products.

3.4 Photovoltaic calendered glass ultra-white patterned glass Ultra-white rolled glass for solar polysilicon battery module cover sheets.

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