

ICS 91.060.50

CCS P32



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

GB/T 29498-2024

General technical requirements for wood windows and doors

木门窗通用技术要求

Issued on: October 26, 2024

Implemented on: May 1, 2025

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

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents". Drafting is required. This document replaces GB/T 29498-2013 "Wooden Doors and Windows". Compared with GB/T 29498-2013, except for structural adjustments and editorial revisions, In addition to the modification, the main technical changes are as follows: Added the non-applicable clause in the scope (see Chapter 1);- The definitions of the terms "wooden doors and windows" and "glulam" have been changed (see 3.7, 3.3, 3.1,

3.7 of the.2013 edition); - The terms "solid wood doors and windows", "solid wood composite doors and windows", "wood composite doors and windows", "honeycomb paper core" and "decorative veneer" have been deleted and definitions (see 3.2, 3.3, 3.4,

3.6 of the.2013 edition); Added "veneer", "finger-jointed wood", "solid wood", "composite solid wood material", "composite wood material", "wooden door", "wooden window" and "coatings" (see 3.1, 3.2, 3.4, 3.5, 3.6, 3.8,

3.9 and 3.10); The main material classification has been changed (see Table 1,

4.1.2 of the.2013 edition); Added performance type classification (see Table 2);- The classification of opening methods has been changed (see Table 3, Table 4, Table 1 of

4.1.3 of the.2013 edition); - Added general requirements (see Chapter 5);- The appearance quality requirements have been changed (see Table 5, Table 6, Table 2 of the.2013 edition); The size deviations of doors, windows and frames and sashes have been changed (see

Table 7, Table 3 of the.2013 edition); Added minimum watertightness requirements for external doors and windows (see 6.3.2.2);- Added minimum requirements for airtightness of external doors and windows (see 6.3.3.2, 6.3.3.3); Added the minimum sound insulation performance value requirements for sound insulation doors and windows (see 6.3.4.2); Added the requirements for the heat transfer coefficient K value of thermal insulation doors and windows and external doors and windows (see 6.3.5.1); Changed sunshade performance to thermal insulation performance, and added thermal insulation performance classification of doors and windows (see 6.3.6,

5.4.4.7 of the.2013 edition); Added minimum requirements for fire integrity of fire-resisting doors and windows (see 6.3.7);- The lighting performance has been changed. For exterior windows with natural lighting requirements and windows with color discrimination requirements, the minimum lighting performance is specified (see 6.3.8,

5.4.4.6 of the.2013 edition); The durability of repeated opening and closing has been changed, and the durability of doors and windows to repeated opening and closing has been graded (see Table 10,.2013 edition). 5.4.5.4); The harmful substance content index has been changed (see Table 15,

5.4.3 of the.2013 edition); Added the opening and closing force classification and the soft heavy object impact resistance classification of wooden doors (see Table 11 and Table 12); Added static torsion resistance classification (see Table 14); The impact resistance of swing doors against hard and heavy objects has been deleted (see

5.4.5.6 of the.2013 edition). Removed stability (see

5.4.6 in the.2013 version). - Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee for Standardization of Building Curtain Walls, Doors and Windows (SAC/TC 448). This document was drafted by: China Construction Metal Structure Association, Beijing Milan Window Energy-saving Building Materials Co., Ltd., Jiangshan Oppein Door Industry Co., Ltd. Co., Ltd., Guangdong Dinggu Jichuang Home Furnishing Co., Ltd., Zhejiang Ruiming Energy-saving Doors and Windows Technology Co., Ltd., Buyang Group Co., Ltd., Guangdong Hehe Building Hardware Products Co., Ltd., Zhejiang Yiyi Home Furnishing Co., Ltd., Guangdong Jianlang Hardware Products Co., Ltd., Zhejiang Deyuan Sen Window Industry Co., Ltd., Zhejiang Jindamen Door Industry Co., Ltd., Zhejiang Suofu Green Building Industry Co., Ltd., Yongqing Holz Door Industry Co., Ltd., Zhejiang Lily Shenghua Home Furnishing Co., Ltd., Spring Group Co., Ltd., Zhejiang Xingzhu Technology Co., Ltd., Zhejiang Jinkaide Smart Home Furnishing Co., Ltd. Hebei Aorun Shunda Window Industry Co., Ltd., Wangmei Industrial Group Co., Ltd., Mengtian Home Furnishing Group Co., Ltd., Wangli Security Technology Co., Ltd., Liangmudao Doors and Windows Group Co., Ltd., Beijing Building Materials

Inspection and Research Institute Co., Ltd., Chongqing Meixin Jiamei Doors Co., Ltd., Hubei Qianchuan Doors and Windows Co., Ltd., ASSA ABLOY Guoqiang (Shandong) Hardware Technology Co., Ltd., Zhaoqing Modern Zhumei Home Furnishing Co., Ltd. Co., Ltd., Beijing Tata Tongchuang Industry and Trade Co., Ltd., Sandi Home Furnishing Co., Ltd., Shangpin Bense Smart Home Co., Ltd., Jiangsu Congyi Home Furnishing Co., Ltd., Shandong Hongtao Yichuang Technology Co., Ltd., Zhejiang Kaiyang Wood Industry Co., Ltd., Zhejiang Jinqi Door Industry Co., Ltd., Zhejiang Wangpai Home Furnishing Co., Ltd., Zhejiang Haobo Door Industry Technology Co., Ltd., Zhejiang Mingyaju Wood Industry Co., Ltd., Zhejiang Boshilong Sealing Technology Co., Ltd., China Construction Eighth Engineering Bureau First Construction Co., Ltd., Harbin Senying Window Industry Co., Ltd., Zhejiang Huawei Door Industry Co., Ltd., Jiabao Li Chemical Group Co., Ltd., Taisen Risheng Group Co., Ltd., Zhejiang Xiangxiang Door Industry Co., Ltd., Guangdong Aolijian Hardware Technology Co., Ltd. Company, Fujian Dingcheng Engineering Management Co., Ltd., Suofeiya Home Furnishing Co., Ltd., China Construction Second Engineering Bureau Decoration Engineering Co., Ltd., Taizhou Jindun Special Fire Door Co., Ltd., Shanghai Qingying Industrial Co., Ltd., Shanghai Xinhong Industrial (Group) Co., Ltd., Qingdao Youwu Technology Co., Ltd. Co., Ltd., Zhejiang Yanhe New Materials Co., Ltd. The main drafters of this document are. Dai Jianguo, Pan Fu, Jiang Kunjian, Wang Ying, Xu Dongmei, Xu Zhixiang, Xu Jingjun, Xie Xiaodong, Lou Shuanglong, Han Kun, Han Shenshen, Wu Wenhua, Li Junhong, Zhao Chonglian, Yin Zhongjian, Lü Hui, Ni Xiaobo, Tang Xianqiang, Wei Hedong, Yao Yongkai, Yu Jingyuan, Wang Yuebin, Zhang Kaizhi, Wang Dongxu, Yan He, Luo Baitao, Zhang Haifeng, Zhong Yaocan, Zhang Yan, Zhang Zhi, Zhang Zhihua, Wang Yonggang, Chen Yuhua, Mao Qingde, Xu Qianlong, He Liming, Xu Fafu, Wu Longjun, Hu Yineng, Huang Zuolin, Wang Yong, Jiang Qingfeng, Lu Xiaobo, Jiang Zhongtian, Wang Chuang, Wang Jinfang, Chen Yunxiang, Wang Kun, Xu Yunfeng, Gong Jianzhao, Guo Ning, Yuan Zhongming, Dong Wenbing, Wang Huaigao, and Chen Guodong. The previous versions of this document and the documents it replaces are as follows: First published in.2013 as GB/T 29498-2013; This is the first revision. General technical requirements for wooden doors and windows

1 Scope

GB/T 29498-2024 is the Chinese general technical standard for wooden windows and doors, covering the whole family from solid timber to laminated and clad constructions. A timber window is a composite product judged on properties that pull against one another: it must be dimensionally stable in a climate that swings from dry winter to humid summer, weathertight enough to meet the air, water and wind load classes, thermally adequate, resistant to fungal and insect attack, and finished with a coating that survives ultraviolet exposure without trapping moisture in the timber. The standard sets the classification and designation, the general requirements and then the requirements proper, covering the timber and the panel materials, the moisture content, the machining and assembly

accuracy, the glazing and sealing, the hardware, the surface finish, the physical performance classes and the formaldehyde and other emissions, followed by the test methods, the inspection rules, the marks and accompanying documents and the packaging, transport and storage. It takes effect on 1 May 2025.

This document specifies the classification, requirements, test methods, inspection rules, marking, accompanying documents, packaging, transportation and Storage. This document applies to the design, manufacture, inspection and installation of wooden doors and windows for civil buildings. This document does not apply to skylights, non-vertical roof windows, rolling shutter windows and swing doors. This document does not apply to special doors and windows such as fire-resistant doors and windows, escape doors and windows, and smoke exhaust windows.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. In this document.

GB/T 191 Pictorial symbols for packaging, storage and transportation

GB/T 700 Carbon Structural Steel

GB/T 1927.5 Test methods for physical and mechanical properties of small, defect-free specimens of wood - Part

3 Electrophoretic coating profiles

GB/T 5237.4 Aluminum alloy building profiles Part

4 Powder coating profiles

GB/T 5237.5 Aluminum alloy building profiles Part

5 Painted profiles

GB/T 5823 Terminology of building doors and windows

GB/T 5824 Dimensions of building door and window openings

GB/T 7106 Test methods for airtightness, watertightness and wind pressure resistance of exterior doors and windows of buildings

GB/T 8484 Test method for thermal insulation performance of exterior doors and windows