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

GB/T 47162-2026

General technical requirements for cleanroom doors

洁净室门通用技术要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Cleanrooms and Related Controlled Environments (SAC/TC319). This document was drafted by: Jiangsu Pafani Clean Technology Co., Ltd., Hai'an Nanjing University High-Tech Research Institute, and Shenzhen Institute of Biotechnology and Industrial Technology. Cleanroom Industry Association, Ningbo Onic Technology Co., Ltd., Shenzhen Yuema Intelligent Technology Co., Ltd., China Academy of Building Research Co., Ltd. The company, Kunshan Xieduoli Clean System Co., Ltd., Guangzhou Mingxuan Purification Equipment Technology Co., Ltd., and Zhejiang Xingyue Security Technology Co., Ltd. The company, Jiangsu Zhongdian Chuangda Construction Equipment Technology Co., Ltd., Nanjing Masdek Door Industry Co., Ltd., Nanjing University of Technology, and Guangdong Yizhong Cleanroom Technology Co., Ltd., Jiangxi Yanxin Environmental Technology Co., Ltd., Shanghai Indoor Environment Purification Industry Association, Jiangsu Nuoyou Intelligent Equipment Manufacturing Co., Ltd. Limited Company, Beijing University of Science and Technology, Jiangsu Depur Door Control Technology Co., Ltd., and Guangdong Clean Technology Industry Association. The main drafters of this document are. Yang Xuecong, Cao Guoqing, Li Li, Tang Shaochun, Dai Jianguo, Zhou Aiqun, Wang Huifang, Zhu Wenhua, and Ni Xiaobo. Li Zichen, Xu Guolin, Ye Gang, Zhang Shaomei,

Zhou Bin, Wang Qiang, Wang Fang, Lu Yunjie, Zhang Zhongjie, Wang Fuyong, Yuan Youhua, Zhang Jianxing, Bai Bing, Jin Dong. General technical requirements for cleanroom doors

1 Scope

GB/T 47162-2026 is the Chinese national standard covering the door in a cleanroom wall - flush and cleanable with no ledges, sealing tightly enough to hold the pressure cascade between rooms, and interlocked where two doors form an airlock. First edition, in force since 1 September 2026, with the cleanroom microvibration standard GB/T 47506-2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document defines the terminology for cleanroom doors, and specifies their classification, general requirements, technical requirements, inspection rules, markings, accompanying documentation, and packaging. The loading, transportation, and storage of the equipment are described, along with the corresponding testing methods. This document applies to the design, manufacture, and testing of cleanroom doors. This document does not apply to floor spring doors, folding doors, double-acting swing doors, fire doors, security doors, cold storage doors, explosion-proof doors, radiation-proof doors, etc. Doors with special protection requirements.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 1741-2020 Test method for resistance to mildew in paint films

GB/T 2518 Continuously hot-dip galvanized and zinc alloy coated steel sheets and strips

GB/T 3280 Stainless steel cold-rolled sheet and strip

GB/T 3797 Electrical control equipment

GB/T 4706.1 Safety of household and similar electrical appliances - Part

14 Assessment of equipment suitability based on particle concentration

GB/T 25915.15 Cleanrooms and related controlled environments - Part

15. Applicability of equipment and materials to be evaluated based on the concentration of gaseous chemicals sex

GB/T 29049 Vertical Load Test of a Whole Door