

ICS 13.020
CCS C51



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

GB 37489.1-2019

Replacing GB 9663-1996

**Hygienic specification for the design of public place-Part 1:
General rules**

公共场所设计卫生规范 第1部分：总则

Issued on: April 4, 2019

Implemented on: November 1, 2019

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

Table of Contents

1 Scope
2 Normative References
3 Basic Requirements...
4 Site Selection...
5 Overall Layout and Function Division
6 Monomer
6.1 Cleaning and Disinfection Room (zone)
6.2 Storage Room (zone)
7 Heating Ventilation Air Conditioning...
7.2 Ventilation
8 Water Supply and Drainage
8.1 Water Supply
8.2 Water Drainage
9 Daylighting...
10 Biological Vector Control...

Foreword

In this Part, 5.2, 6.3.3, 6.3.4, 6.3.5, 6.3.6,

9.3 are recommended clauses; the remaining clauses are mandatory. The series of hygienic standards for public places are constituted of five standards: GB/T 18204 Examination Methods for Public Places; GB 37487 Health Management Specification for Public Places; GB 37488 Hygienic Indicators and Limits for Public Places; GB/T 37489 Hygienic Design Specification for Public Places; GB/T 37678 Hygienic Evaluation Specification of Public Places. GB 37489 Hygienic Design Specification for Public Places is divided into five parts: -- Part 1: General Requirements; -- Part 2: Public Accommodation; -- Part 3: Artificial Swimming Place; -- Part 4: Bathing Buildings; -- Part 5: Barber and Beauty. This is the first part of GB 37489. This Part was drafted in accordance with the rules in GB/T 1.1-2009. This Part partially replaces the content of design-related general hygienic requirements in: GB 9663-1996 Hygienic Standard for Hotel; GB 9664-1996 Hygienic Standard for Public Place of Entertainment; GB 9665-1996 Hygienic Standard for Public Bathroom; GB 9666-1996 Hygienic Standard for Barber Shop and Beauty Shop; GB 9667-1996 Hygienic Standard for Swimming Place; GB 9668-1996 Hygienic Standard for Gymnasium; GB 9669-1996 Hygienic Standard for Library, Museum and Art Gallery; GB 9670-1996 Hygienic Standard

for Shopping Center and Book Store; GB 9671-1996 Hygienic Standard for Hospital Waiting Room; GB 9672-1996 Hygienic Standard for Waiting Room of Public-transit Means; GB 16153-1996 Hygienic Standard for Dining Room. In comparison with GB 9663~9672-1996, GB 16153-1996, this Part has several main technical changes as follows: -- Hygienic requirements, which are applicable to all the design of various public places are integrated; -- Hygienic requirements of site selection are added; -- Hygienic requirements of overall layout and function division are refined; Hygienic Design Specification for Public Places - Part 1: General Requirements

1 Scope

GB 37489.1-2019 is the Chinese national standard on hygienic specification for the design of public place-part 1: general rules, in the field of environment and health protection, safety. 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 4 April 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2019. Classification: ICS 13.020, CCS C51. 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 Part of GB 37489 stipulates the basic requirements of newly constructed, re-constructed and expanded public places; and the general hygienic design requirements of site selection, overall layout, function division, monomer, heating ventilation air conditioning, water supply and drainage, daylighting and biological vector control. This Part is applicable to public places like hotel, inn, guesthouse, public bathroom, barber shop, beauty shop, movie theater, video hall (room), entertainment hall (room), dancing hall (room), concert hall, stadium (gymnasium), exhibition hall, museum, art gallery, library, shopping center (store), bookstore, hospital waiting room, waiting room of public-transit means (bus, airplane and ship), etc. Other public places may take this as a reference.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB 5749 Standards for Drinking Water Quality

GB 17051 Hygienic Specification for Facilities of Secondary Water Supply

GB/T 17217 Hygienic Standard for Communal Toilet in City

GB 37488 Hygienic Indicators and Limits for Public Places

GB 50016 Code of Design on Building Fire Protection and Prevention

GB 50033 Standard for Daylighting Design of Buildings

GB 50034 Standard for Lighting Design of Buildings

GB 50118 Code for Design of Sound Insulation of Civil Buildings

GB 50325 Code for Indoor Environmental Pollution Control of Civil Building than 25 m.

4.4 Public places shall have conditions for water supply and drainage, and electric power supply.

5 Overall Layout and Function Division

5.1 The overall layout shall be explicit; function division shall be reasonable.

5.2 Channels for personnel and supplies shall be separately set up.

5.3 Different categories of public places shall be set up in separate zones. A proper distance shall be kept with subsidiary rooms, such as boiler rooms, air conditioning rooms, water pump rooms and kitchen operating rooms.

5.4 Public bathrooms shall be set up in public areas.

5.5 Bathrooms, washrooms, shower rooms and swimming pools shall not be set up on the direct upper layer of rooms with rigorous hygienic requirements, such as restaurants, kitchens and food storage rooms, etc.

6.1 Cleaning and Disinfection Room (zone)

6.1.1 Public places, which voluntarily conduct cleaning and disinfection of public supplies, shall set up cleaning and disinfection room (zone).

6.1.2 Cotton fabrics, such as bed sheet, pillowcase, quilt, towels, bath towels and bathrobes may be delivered to an external service for cleaning and disinfection. Public places which adopt external delivery service of cleaning and disinfection shall set up a temporary storage area for goods to be delivered. The temporary storage area shall not be set up in storage room (zone) for clean goods.

6.1.3 Ground and walls shall use waterproof and mould-proof materials that can be rinsed off. The height of wainscot shall not be lower than

1.5 m. The ground shall have a certain gradient and a water drainage system.

6.2 Storage Room (zone)

6.2.1 In accordance with the classification of demands, respectively set up storage room (zone).

6.2.2 Storage room (zone) shall respectively set up exclusive room (zone) for clean goods and polluted goods. condensate water is discharged into the sewage system, there shall be air partition measures. Pipes for condensate water shall not directly connect with sewage, waste- water or indoor closed rainwater system.

7.1.9 Open cooling tower shall be well-ventilated. The collecting basin shall be kept away from direct sun exposure and heat. Open cooling tower shall set up continuous purification, disinfection and dosing devices.

7.2 Ventilation

7.2.1 Natural ventilation shall be thoroughly utilized. In terms of places where natural ventilation cannot satisfy the demands, mechanical ventilation devices shall be set up.

7.2.2 The vertical air exhausting ducts of kitchens and bathrooms shall have the functions of fireproofing, anti-backflow, anti-odor-tainting and uniform air exhausting.

8.1 Water Supply

8.1.1 The quality of domestic drinking water shall comply with the requirements in GB 5749. Water supply by different quality shall comply with the water treatment process, and respectively comply with the requirements of CJ 94, Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water.

8.1.2 Secondary water supply facilities shall comply with the requirements in GB 17051.

8.1.3 Domestic drinking water shall not be polluted by syphon and backpressure reflow generated by the ducts.

8.2 Water Drainage

8.2.1 Function rooms which have requirements of water usage or ground rinsing shall have conditions of water drainage.

8.2.2 In pump houses, water drainage system shall be set up; the ground shall set up waterproof layer.

8.2.3 Sewage and waste-water pipes shall not cross rooms or facilities which have special hygienic and dampproof requirements.