

ICS 93.080.99

CCS P 51



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

GB 55019-2021

**Codes for accessibility design
(English Translation)**

Issued on: September 8, 2021

Implemented on: April 1, 2022

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China;
State Administration for Market Regulation**

Table of Contents

- 1 General
- 2 Barrier-free facilities
 - 2.1 General provisions
 - 2.2 Barrier-free access
 - 2.3 Wheelchair ramps
 - 2.4 Barrier-free entrances and exits
 - 2.5 Doors
 - 2.6 Barrier-free elevators and lifting platforms
 - 2.7 Stairs and steps
 - 2.8 Handrails
 - 2.9 Accessible motor vehicle parking spaces and pick-up/drop-off areas
 - 2.10 Curb ramp
 - 2.11 Blind Road
- 3 Barrier-free service facilities
 - 3.1 General provisions
 - 3.2 Public restrooms (toilets) and accessible toilets
 - 3.3 Public bathrooms and changing rooms
 - 3.4 Barrier-free rooms and accessible housing, rooms
 - 3.5 Wheelchair seats
 - 3.6 Low service facilities

1 General

1.0.1

In order to ensure the construction, operation and maintenance of barrier-free facilities in the construction of a barrier-free environment, this specification is formulated in accordance with relevant national laws and regulations.

1.0.2

The construction, operation and maintenance of barrier-free facilities for newly-built, rebuilt and expanded municipal and architectural projects must comply with this specification.

1.0.3

The construction, operation and maintenance of barrier-free facilities should follow the following basic principles.

- 1 To meet the needs of people with needs such as the disabled and the elderly, and eliminate their obstacles in social life;
- 2 Guarantee safety and convenience, taking into account economy, greenness and beauty;
- 3 Ensure effective connection between systematic and barrier-free facilities;
- 4 Guarantee the safety, function and performance of barrier-free access facilities, barrier-free service facilities and barrier-free information exchange facilities from the aspects of design, model selection, acceptance, commissioning, operation and maintenance;
- 5 The construction of barrier-free information exchange facilities is compatible with the development level of information technology;
- 6 Cultural relics protection units at all levels shall construct barrier-free facilities as needed without destroying cultural relics.

1.0.4

Whether the technical methods and measures adopted in the project construction meet the requirements of this specification shall be judged by the relevant responsible parties. Among them, innovative technical methods and measures should be demonstrated and meet the performance requirements in this specification.

2.1 General provisions

2.1.1

A continuous barrier-free circulation should be provided in urban open spaces, building sites, inside and between buildings.

2.1.2

Facilities such as markers, trash cans, seats, lampposts, isolation piers, ground lamps and ground wiring (troughs) on the barrier-free flow line shall not hinder the independent passage of persons with disabilities. For objects fixed on barrier-free passages, wheelchair ramps, walls or cylinders of stairs, when the protruding part is greater than 100mm and the height of the bottom surface from the ground is less than 2.00m, the height of the bottom surface from the ground should not be greater than 600mm, and effective passage should be guaranteed. Width.

2.1.3

Barrier-free traffic lines should be equipped with safety protection facilities near the dangerous terrain, and safety warning lines should be set at the same time if necessary.

2.1.4

The ground of barrier-free facilities shall be firm, flat, non-slip and free of water.

2.2 Barrier-free access

2.2.1

When there is a ground level difference in the barrier-free passage, wheelchair ramps or curb ramps should be provided.

2.2.2

The clear width of the barrier-free passage shall not be less than 1.20m, and the clear width of the crowded public places shall not be less than 1.80m.

2.2.3

The door openings on barrier-free passages should be wheelchair-accessible, and wheelchair passages should be provided at various ticket gates and settlement gates, and the clear width of passage should not be less than 900mm.

2.2.4

When there are manhole covers and grates on the barrier-free passage, the width or diameter of the manhole cover and grate holes should not be greater than 13mm, and the strip holes should be perpendicular to the direction of traffic.

2.2.5

When the lower part of escalators, stairs and other indoor and outdoor low spaces can be entered, safety blocking measures shall be taken at the clear height not greater than 2.00m.

2.3 Wheelchair ramps

2.3.1

The slope of the wheelchair ramp and the lifting height of the slope section shall meet the following requirements.

1 The transverse slope should not be greater than 1.50, and the longitudinal gradient should not be greater than 1.12. When conditions are limited and the height difference between the start and end points of the slope section is not greater than 150mm, the longitudinal gradient should not be greater than 1.10;

2 The lifting height of each section of the ramp should not be greater than 750mm.

2.3.2

The clear width of the wheelchair ramp should not be less than 1.20m.

2.3.3

The starting and ending points of the wheelchair ramp and the clear passage width of the rest platform should not be less than the clear passage width of the ramp, and the horizontal length should not be less than 1.50m, and the door leaf opening and objects should not occupy this range of space.

2.3.4

When the height of the wheelchair ramp is greater than 300mm and the longitudinal gradient is greater than 1:20, handrails should be provided on both sides, and the handrails of the ramp and the rest platform should be consistent.

2.3.5

Safe blocking measures shall be taken on the air side of the wheelchair ramp with handrails.

2.4 Barrier-free entrances and exits

2.4.1

Barrier-free entrances and exits shall be one of the following three types of entrances and exits.

- 1 The flat slope entrance and exit with the ground slope not greater than 1:20;
2. Set the entrance and exit of steps and wheelchair ramp at the same time;
3. Set the entrance and exit of steps and lifting platform at the same time.

2.4.2

Except for entrances on flat slopes, a platform should be set in front of the barrier-free entrance; when the door is fully opened, the net depth of the platform should not be less than 1.50m; an awning should be set above the barrier-free entrance.

2.4.3

When installing entrance and exit turnstiles, at least one of them should have a clear width of no less than 900mm after opening, or an entrance and exit for wheelchair users should be set up next to the turnstile, and the clear width should not be less than 900mm.

2.5 Doors

2.5.1

Doors that meet the barrier-free requirements should be clearly identifiable, and should ensure easy opening and closing and safe passage.