



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

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**Uniform standard for design of civil buildings
(English Translation)**

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1 General provisions

1.0.1 In order to meet the "applicable, economic, green and beautiful building" principles

1 General provisions

1.0.1

In order to meet the "applicable, economic, green and beautiful building" principles for civil buildings, to meet the basic requirements of safety, sanitation and environmental protection, and to unify the general design requirements of various civil buildings, this standard is prepared.

1.0.2

This standard is applicable to the design for new construction, extension and renovation of civil building.

1.0.3

In addition to the implementation of relevant national laws and regulations, civil building design shall also meet the following requirements.

2.0.1 Civil building

the general term of the building for people living and public activities

2.0.2 Residential building

building for people to live and use

2.0.3 Public building

building for people to conduct various public activities

2.0.4 Accessibility facilities

service facilities to ensure safe passage and convenient use of personnel, and to be constructed in conjunction with civil construction projects.

2.0.5 Construction site

site for the construction project, which is determined according to the nature of the land and the use of ownership

2.0.6 Boundary line of roads

boundary line of land for urban roads (including residential area roads)

2.0.10 Plot ratio; floor area ratio

the ratio of the total area of the building to the area of the land within a certain land use and floor use range

2.0.17 Equipment floor

space layer specially for the equipment and pipelines of HVAC, air conditioning, water supply and drainage, electrical engineering, etc., and for personnel to enter for operation

2.0.18 Refuge storey

storey for the personnel to hide from fire and smoke hazard temporarily in case of fire in high-rise buildings with a height of more than 100.0m

2.0.19 Open floor

open space for structure support and without peripheral retaining wall

2.0.20 Step

stepped passage for pedestrians connected to indoors or outdoors floors or grounds of different elevations

3.1.1 Civil buildings can be classified into residential buildings and public buildings

according to their functions. In addition, residential buildings can be classified into residential buildings and dormitory buildings.

3.1.2 Classification of civil buildings according to the height or floor number of the building shall comply with the following provisions.

3.1.3 The grading of civil building grades shall be in accordance with the relevant national standards or the regulations of the competent authorities of the industry.

3.3 Basic requirements of climate region of building

3.3.1

Basic requirements of climate region of building shall be in accordance with the requirements of Table 3.3.1.

3.5 Building module

3.5.1

The architectural design shall meet the requirements of the current national standard GB 50002 Standard for modular coordination of building.

3.5.2

The dimensions of the main positioning lines of the building plane, such as column net, bay, depth, storey height, door and window openings, shall be multiples of the basic modulus and meet the following requirements.

3.6 Disaster prevention and asylum

3.6.1

The setting of disaster prevention shelters or facilities shall meet the overall requirements of urban and rural planning, and shall follow the principles of site safety, convenient transportation and easy access.

3.6.2

The architectural design shall cover appropriate measures for disaster prevention, mitigation and refuge according to the types of disasters.

4.1 Urban planning and city design

4.1.1

Control indicators such as the land use nature, plot ratio, building density, greenbelt rate, building height of for construction projects and annual runoff total control rate of its construction base shall conform to the relevant provisions of the local controlled detailed planning.

4.1.3

Architectural design shall be stressed in the integration and coordination of architectural group space and natural landscape environment, the protection and development of historical culture and traditional features, the organization and shaping of public activities and public space, and shall meet the following requirements.

4.2 Construction base site

4.2.1

The construction base shall be adjacent to urban roads or township roads, otherwise, connecting roads shall be set up and shall meet the following requirements.

4.2.2

The ground elevation of the construction base shall meet the following requirements.

4.3.1 Except for arcade buildings, building connection, subway-related facilities

and municipal public facilities such as pipelines, pipe trenches and pipe corridors connecting cities, buildings and the following ancillary facilities shall not be built in a way that protruding out of boundary line of roads or property line.

4.3.3 Except for basements, window wells, steps of building entrances, ramps, awnings, etc., the main body of the building (structure) shall not protrude the building line.

4.3.4 Public security boxes, bus shelters, subways, underground tunnels, overpasses

and other related facilities, as well as temporary buildings (structures) etc., if necessary and without affecting traffic and fire safety, may protrude into the red line of the road for construction upon the approval by the local planning administrative department.

4.3.5 The construction of arcade buildings, building joints and overhanging buildings along boundary line of roads shall not affect traffic, environmental protection and fire safety. In the urban public space with a top cover, there shall be no direct exhaust air conditioner, exhaust fan and other facilities or other ventilation systems to exhaust harmful gases.