



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

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**Requirements for the placement of fire safety signs
(English Translation)**

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1 Subject Content and Application Scope

1.1

This standard specifies the place, principle, requirements and methods etc. for the placement of fire safety signs.

1.2 This standard is applicable to places where fire safety signs are used to show fire safety information.

2 Normative Standards

GB 13495 "Fire Safety signs" GB J16 "Code of Design on Building Fire Protection and Prevention" GB J45 "Specifications for the Design of Highrise Civil Buildings (Trial)-Fire Prevention"

3.1 Viewing distance

Distance from observer's eyes to the sign's center-point.

In this standard, viewing distance is expressed by letter D, as shown in Figure 1.

3.2 Viewing angle

The included angle BETWEEN the connecting-line of observer's eyes and the sign's center-point AND the plane where the sign is located.

In this standard, viewing angle is expressed by letter alpha, as shown in Figure 1.

3.3 Displacement

The distance FROM the sign's center-point TO the visual axis WHEN the eyes directly look at the plane where the sign is located.

corresponding "Fire Alarm" sign.

5.10 Places equipped with fire telephone shall be arranged with "Fire Telephone"

sign. Places without public telephone (e.g. telephone booth) may also be arranged with "Fire Telephone" sign.

5.11 Places equipped with fire protection equipment such as flush fire hydrant, Siamese connection and sheltered post fire hydrant shall be arranged with "Flush Fire Hydrant", sign "Post Fire Hydrant" sign and "Siamese Connection" sign etc.

5.12 The following areas shall be correspondingly arranged with "No Burning", "No Smoking", "No Inflammable Material", "No Matches", "No Fireworks", "Danger of Fire-Highly Flammable Materials", "Danger of Fire-Oxidizing Materials" and "Danger of Explosion-Explosive Materials" signs, etc.:

- a. At the entrance or in the fire compartment of manufacturing area and plant building etc. with Category A, B or C fire hazard;
- b. At the entrance or in the fire compartment of warehouses with Category A, B or C fire hazard;
- c. In fire compartment with Category A, B or C liquid storage tank and storage yard etc.
- d. Flammable, combustion supporting gas storage tank or tank field and fire compartment of buildings and storage yard;
- e. Fuel oil, gas fired boiler house in civil building, the oil immersed transformer room, the shop, workplace and storeroom using chemical flammable and explosive materials and their nearby;
- f. On transport facilities with Category A, B or C liquid and other chemical hazardous materials;
- g. In forest and mine etc. fire compartments.

5.13 Place for water-explosive storage or place where could endanger surrounding

environment if put out fire with water shall be arranged with "No Watering to Put Out the Fire" sign.

5.14 For hotel, restaurant, shopping center (shop), theater, hospital, library, archive (room), vehicle (ship, plane) waiting room hall, vehicle, ship, plane and other public places, "No Smoking" sign etc. shall be arranged if the relevant department provides against smoking.

5.15 Other places require the placement of fire safety signs.

6 Placement Requirements

6.1

Fire safety signs shall be arranged on fire safety involved eye-catching position.

The front of the sign or its nearby shall be free from any obstruction disturbing public reading.

6.2 Unless necessary, as a general rule, the sign shall not be arranged on movable

objects such as door, window, frame, and also shall not be arranged in places often sheltered from other objects.

6.3 Fire safety sign placement shall be free from contradiction and repeat in content, and shall express the necessary information clearly with minimum signs to the greatest extent.

6.4 Direction auxiliary sign shall be arranged in passage part where public choosing

direction, and shall be arranged according to the shortcut to goal.

6.5 Fire safety signs shall be arranged such that viewing angles of most observers

are close to 90°.

6.6 The size of the fire safety signs shall be determined according to the maximum viewing distance D. Determine the size of the sign according to Appendix A of GB 13495 after the required maximum viewing distance is measured.

The determination of the viewing distance D shall be in accordance with Appendix A (informative) of this standard.

6.7 Displacement X of the sign shall be reduced as much as possible. For the observer

observing the maximum viewing distance D , the angle of displacement θ should not be larger than 5° as a general rule, and shall not be larger than 15° for the maximum extent. If the requirements cannot be met because of conditions, the size of the sign shall be enlarged properly to meet the requirements of conspicuity.

6.8 The color of the sign shall remain the same under all related lighting.

6.9 Fabrication materials of fire safety sign boards

6.9.1

Evacuation sign boards shall be fabricated with incombustible materials, if not, they shall be equipped with shelters made of glass or incombustible transparent material outside.

6.9.2

The fabrication-material combustion performance of sign board for other use shall meet the fire protection requirements of the corresponding places. For non-evacuation sign board used indoors, the oxygen index of its fabrication material shall not be less than 32.

6.10.1 Placement requirements for evacuation sign

6.10.1.1

In evacuation exit, "Emergency Exit" sign should be arranged at both sides of the passage and on the wall surface at corner; the distance from top edge of the sign board to the ground shall not be larger than 1m as shown in Figure 2. The sign may also be directly arranged on the ground with a firm incombustible transparent protective plate on it as shown in Figure 3. The spacing between signs shall not be larger than 20m. The distance from the end of dead end to the sign shall not be larger than 10m.

6.10.1.2

In the exit of evacuation exit, "Emergency Exit" sign shall be arranged on door frame edge or upper part of door, which is the position A or B shown in Figure 4.

The height h_1 from top edge of sign board to ceiling shall not be less than 0.5m. The height h_2 between the lower edge of sign board on position A and the ground shall not be less than 2.0m.

6.10.1.3

For the ceiling not high enough, the sign may also be arranged in position C or D of Figure 4, the height h_3 from sign's center-point to the ground shall be within 1.3m~1.5m.

6.10.1.4

The height from the lower edge of evacuation sign board suspended on indoor hall to the ground shall not be less than 2.0m as shown in Figure 5.