Research on “Code of Design on Building Fire Protection and Prevention” in China
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In late years, the number of large-scale and high-rise building has been increasing rapidly in the East Asia countries. As a result, it is thought that the potential risks of fire have been also increasing. Therefore I take up China where the growth is remarkable. I comprehend feature and view of the fire prevention safety measures of the two countries (Japan and China) and clarify those strong points and problems by comparing the fire prevention safety measures of both countries.


I selected ten items from among the countermeasures that correspond to stage of development of fire (from Fire prevention management to Facilities for professional fire fighters) of each country and compared those items.

Some examples are cited as follows, automatic fire alarm systems that belong to fire alarm facilities, automatic sprinkler systems that belong to fire extinguishing equipments or facilities, stairs that belong to evacuation facilities, fire resistant performance of structure and fireproof compartmentation belong to structure limit for fire prevention and fireproof, and so on.

As the contents of comparison, what kind of buildings (stories, uses, scales, and so on) that should install automatic fire alarm systems or automatic sprinkler systems in both countries. What kind of stairs in China corresponds to fire escape stairs or specific fire escape stairs in Japan. What kind of structures in China corresponds to fire proof structure, quasi-fireproof structure or fireproof construction in Japan. What kind of compartmentations in China corresponds to area compartmentation, shaft compartmentation or Different use compartmentation in Japan.

I take automatic fire alarm systems as an example of result. In China, buildings over 100m in height ought to install them. In Japan, buildings over 11 floor ought to install them. We are a concept that floors with no window, but in China has not. In Japan, if floors with no window with total floor area over 300m², they ought to install automatic fire alarm systems. In addition, in Japan, Buildings for aged people and karaoke boxes and important cultural property ought to install them regardless of total floor area. In China, Buildings for aged people and Electronic computer room regardless of total floor area.

Through the comparison of two countries, I understood that both countries place importance on safety of human life. Besides, place importance on property such as information in China.