

## **The Introduction of the Performance-based Code in the Building Standard Law**

/ Introduction of "Transfer to Performance-based Code in the Building Standard Law of Japan" as an example of engagements by Japanese Government to develop a systematic framework for the purpose of dealing with the globalization trend in the field of building production.

/ Needs for amendment of code in the Building Regulations in order to cope with the change of the society and environment, and upgrading of building technology

- In accordance with the change and growth of the society and environment, standards and regulations are deemed to develop themselves to become more strict, wide-ranged and complicated. Review is also necessary to harmonized with other regulations, standards and the trend of the private sector.
- In Japan, regulations concerning indoor air environment are currently under consideration.
- On the other hand, it is necessary to find rationalized regulations, introduction of new technology and easy development methods.

/ Background of introduction

- Summary of Amendment in 1998
  - Rationalization of building confirmation procedures
  - Rationalization of the content of building regulations
  - Ensuring effective enforcement of regulations
- Background of introducing Performance-based Code
  - Increasing alternatives in the building design and correction of high cost structure of building production
  - Promoting improvement in technology and the maximum use of building materials and components from overseas
- Global collaboration in the field of building production is expected by introducing Performance-based Code.

/ New technology introduction and building regulations

- Performance-based Code as one of the alternatives for more flexible application to new technology.
- Purpose and effect of Performance-based Code

- Clarification of the basic objectives to be secured by the building regulations (such as fire-resistance performance, securing the evacuation route, structural safety against the external force.)
- Development of the framework that would accept the variety of design methods or materials, etc. (testing or calculation methods to prove the performance)
- Development of the structure of the Performance-based Code taking fire-resistance performance as an example.
- Development of the systems to foreign products and lumber, etc. and to accept the approval given by foreign organizations

#### / Trend toward the Performance-based Code and Globalization

- To provide the same basis through the concept of "performance" for those varied building regulations.
  - To promote chances to review own country's regulations
  - To provide basis for exchanging information and mutual collaboration for solving the issues of harmonization with environment, fire and safety and quality control.
- To promote collaboration and alliance for achieving performance-based legal structure, and technical cooperation
  - Mutual approval system for testing and adequacy validation
  - Technical cooperation (Currently, technical assistance is provided for developing fire fighting regulations in Thailand.)
- Studies of common concept of performance-based regulation system. Studies of standardization of the standard.
  - Consideration of establishing common concept regarding performance-based building regulation systems by IRCC (International Regulation Cooperation Committee?)
  - Studies of standardization of "performance" upon planning an overall building production in the field of ISO.
- Introducing to performance-based building regulation in Japan has just started its initial step. The mutual understanding and cooperation will bring better conclusion.
- Further consideration of more practical application of structured system towards the globalization is awaited.