

## D. Construction and Exhibition Arrangement

World Exposition Shanghai China *2010*  
**Participation Guide**  
for Official Participants



## D. Construction and Exhibition Arrangement

This document describes the guidelines for pavilion construction and decoration.

The information provided in this document will be completed and updated after submission, discussion and approval by the BIE of the relevant *Special Regulations*.

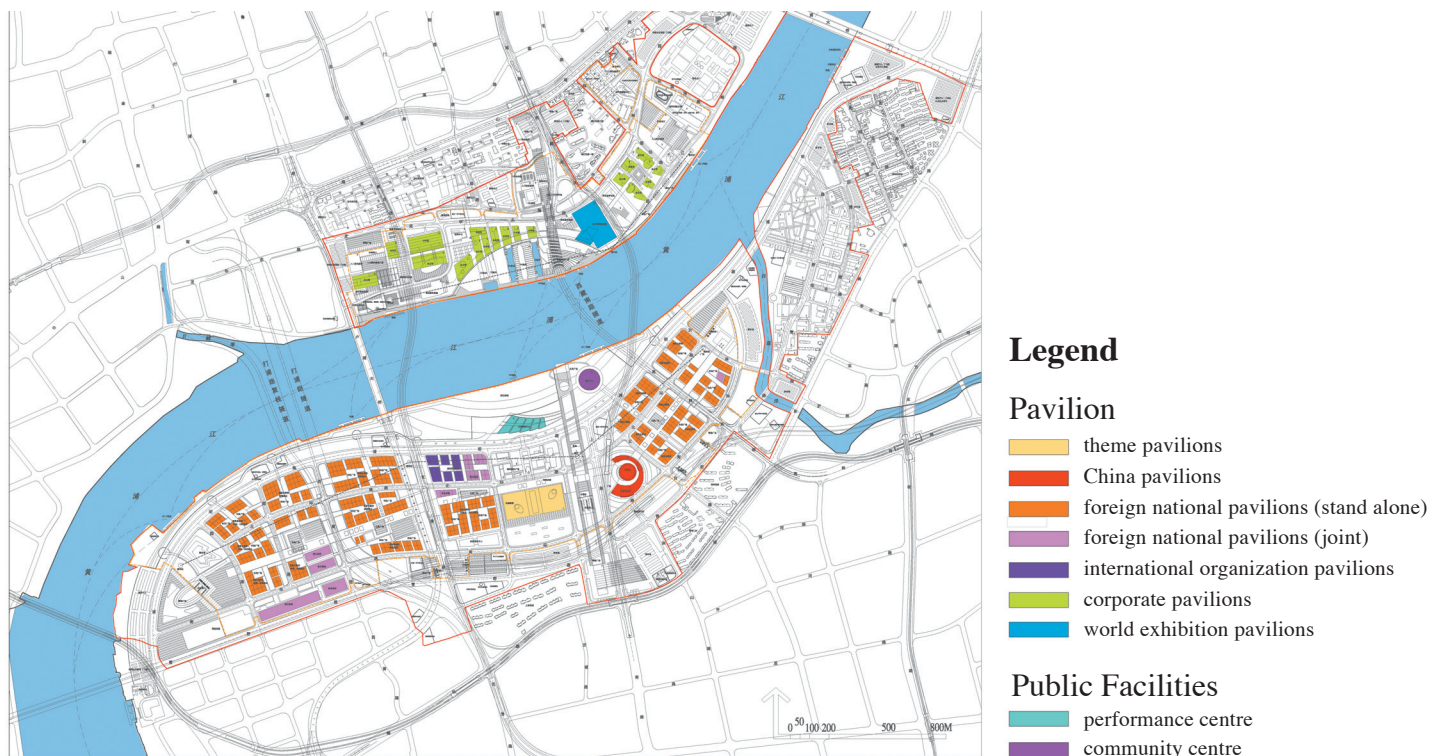
Please refer to the schedule below for the construction and the exhibit arrangement calendar:

### Schedule chart of Pavilions Construction and Exhibit Arrangement for Official Participants

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## 1. Overview of Pavilions for Participants

Foreign national pavilions are grouped and clustered by the function and geographic location as shown below:



**Diagram of Pavilions Layout**

Three types of pavilions are available:

- Type 1: Pavilions designed and built by official participants
- Type 2: Stand-alone pavilion structures built by the Organizer and rented to participants
- Type 3: Joint pavilions constructed by the Organizer offering covered spaces to developing nations

### 1.1 Basic Documentation for Pavilion Design

Once the application for exhibition site is approved, the Organizer will supply a complete documentation for pavilion design, including:

- a. A map of the roads, parking, green areas, and public utilities relative to the building site;
- b. A topographical map and photographs of the allocated building site including specifications of the surface area, infrastructure, boundary lines, surface elevations, and site survey report as required.

## 1.2 Additional Documentation

An official participant may apply to the Organizer any time when additional technical documentation is needed in the process for architectural design.

## 2. Type 1: Pavilions Designed and Built by Official Participants

The allocated exhibition area for Type 1 Pavilions is offered by the Organizer free of charge to official participants in units of 500 m<sup>2</sup> land area. Each participant may apply for minimum 2 to maximum 12 units, or 1,000 m<sup>2</sup> to 6,000 m<sup>2</sup>.

### 2.1 Type 1 Pavilions Design Parameters

For Type 1 pavilions the Floor Area Ratio (FAR, or the ratio of the floor area to the construction site) must not exceed 1. In case the participant wishes to have the FAR restriction relaxed, the Organizer shall make decisions in a case-by-case way based on the participant's pavilion design plan.

The Building Coverage Rate (the rate of the ground floor area of a pavilion to the allocated site) should be between 60% to 80%.

The Organizer shall hand over the allocated site for the construction of pavilions from November 1<sup>st</sup>, 2007, while an official participant must submit a formal application for the use of the pavilion site 30 months prior to the opening of Expo 2010 and return it to the Organizer in its original condition no later than May 1<sup>st</sup>, 2011.

Units of land area	500 m <sup>2</sup>
Size of site	2 to 12 units, or 1,000 m <sup>2</sup> to 6,000 m <sup>2</sup>
Floor Area Ratio	1 maximum
Building Height	20 meters maximum
Building Coverage Rate	between 60% to 80%
Hand over from Organizer	November 1 <sup>st</sup> , 2007
Application for use of pavilion site	30 months prior to the opening of Expo 2010
Return to organizer	no later than May 1 <sup>st</sup> , 2011

#### 2.1.1 Building Concession

- If the building concession is above 24 meters, the concession distance of buildings from the road planned red line shall be no less than 5 meters; if the building concession is 24 meters or less, the concession distance of

buildings from the road planned red line shall be no less than 3 meters;

- It the main entrance of the pavilion faces a motor drive, the concession distance shall be more than 5 meters, and the entrance shall not be located at any curve of the motor drive. A small square is recommended at the entrance;
- The concession distance of pavilions from the control lines of roads in the same plot shall be no less than 3 meters;
- There shall be no concession of pavilions from squares, greenery and pedestrian passages;
- There shall be no concession of pavilions from neighboring elevated pedestrian passages except otherwise regulated;
- The concession of pavilions from the neighboring plot shall be no less than 3 meters, and the distance between buildings shall meet the requirements for fire control.

### **2.1.2 Height of Buildings**

- Newly built pavilions shall not be more than 20 meters in height;
- The ground floor of pavilions in all plots shall not be less than 5 meters in height;
- The height of pavilions beside elevated pedestrian passages shall be considered in light of the 10-meter standard height of the main entrance.

### **2.1.3 Building Interface**

- The concession proportion of the building interface of pavilions around central greeneries or public activity centers shall not be less than 70%;
- The building interface of pavilions around central greeneries or public activity centers is recommended to take the form of partial elevation on the ground floor;
- Elevation on the ground floor is recommended for corners of building or entrances, and the width of passage on the elevated ground floor shall not be less than 3 meters;
- Outlying structures and facilities shall meet the landscaping requirements.

### **2.1.4 Control of Entrance and Exit**

- The entrance and exit of pavilion structures shall be designed taking into account the surrounding conditions and landscaping requirements;

- For pavilion structures near elevated pedestrian passages, the possibility of queuing up for entry directly from the elevated passage should be considered, and elevated entrance and exit shall be considered and planned;
- The space of queuing up for entry should be considered in the design of entrance and exit of newly built pavilion structures, and partial elevation is recommended.

### **2.1.5 Platform and Roof Facilities**

- The greening rate of construction platforms and roofs shall not be lower than 40%;
- Various structures and facilities on roofs shall meet the landscaping requirements.

### **2.1.6 Sub-ground Structures**

According to the rules of the BIE and the common practice of the previous expositions, all pavilions of foreign countries are temporary structures. Therefore, it is suggested that there should be no sub-ground structures for pavilions.

### **2.1.7 Architectural Styles**

The application of new materials and technologies is encouraged.

- The architectural styles shall be in consistence with the theme of exhibition in both form and function;
- The use of eco-friendly technologies is encouraged so as to reach the standards of green architectures;

### **2.1.8 Others**

Please note that the above requirements can be relaxed to meet specific needs. The Organizer will address this on a case-by-case basis

## **2.2 Design Bidding, Qualification of Designers, and Quality of Design**

The Organizer shall provide information concerned in due time.

## **2.3 Approval Procedures for Designs of Type 1 Pavilions**

After the official participant has submitted all the documents related to the pavilion design, the Organizer will study the proposal and send an official written notification to the participant on the result of the assessment.

The contents which should be included in the pavilion design and the time needed

for the completion of the assessment shall be specified in the further version of the *Guide*.

Once the participant's design is approved the Organizer and the participants should complete the relevant procedures that will be described in an updated version of this *Guide*.

## **2.4 Conditions and Restrictions for Type 1 Pavilions**

The conditions and restrictions for the pavilions to be designed and built by official participants are not covered in this document, but official participants shall observe the procedures prescribed in this document in making exhibition designs.

## **2.5 Applicable Forms**

Detailed information shall be provided in due time.

## **3. Type 2 Stand-alone Pavilions for Rent to Participants**

This section is intended describes the pavilion structures and the exterior and interior conditions and the facilities of the structures that the Organizer provides for rent to official participants.

It also provides the conditions for exhibition design inside and outside the rented pavilions, the guidelines for exhibition design of official participants in self-built and rented pavilions, and the approval procedure official participants shall go through before the exhibition arrangement project can be implemented.

### **3.1 Description of Type 2 Pavilions**

The allocated site for Type 2 pavilions is offered in units of construction floorage at 500 m<sup>2</sup> each.

Three types of sites for pavilion structures in this category are available for participants to choose from: 1-unit site (500 m<sup>2</sup>), 2-unit site (1,000 m<sup>2</sup>), and 4-unit site (2,000 m<sup>2</sup>). The participant may apply for a maximum of 4 units.

The application for rented pavilion structures must be submitted 30 months prior to the opening of Expo 2010, or by November 1<sup>st</sup>, 2007.

The Organizer shall hand over the rented pavilion structures to participants by May 1<sup>st</sup>, 2009, and the participants must return them in their original conditions to the Organizer by December 31<sup>st</sup>, 2010.



Units of land area	<i>1 unit: 500 m<sup>2</sup></i>
	<i>2-unit: 1,000 m<sup>2</sup></i>
	<i>4-unit: 2,000 m<sup>2</sup></i>
Size of site	<i>maximum of 4 units</i>
Hand over from Organizer	<i>Prior to May 1<sup>st</sup>, 2009</i>
Application for use of pavilion	<i>30 months prior to the opening of Expo 2010</i>
Return to organizer	<i>By December 31<sup>st</sup>, 2010</i>

### 3.2 Approval of Application for Modification of Type 2 Pavilions

Official participants should not alter the structure, facilities and installations of the pavilions. Any participants who requests the improvement or modification of the rented pavilion structures shall submit to the Organizer a written official application, and the actual work shall not start until the participant has received written notification from the Organizer. Necessary documents include:

- Application Form for Modification of Rented Pavilions;
- A detailed report on structural modification, indicating the reasons, content (changed parts, structural form, space partition and construction materials) and a working schedule;
- A copy of the drawings showing the proposed modifications;
- Other documents required due to the special nature of the project.

### 3.3 Materials for Interior and Exterior Decoration for Type 2 Pavilions

Structure Type: Steel Structure

Exterior Decoration	<i>Floor</i>	<i>Wall</i>	<i>Front Ceiling</i>	<i>Remark</i>
	<i>Cement and stone scraps</i>	<i>Painting</i>	<i>Steel plate</i>	
Interior Decoration	<i>Floor</i>	<i>Wall</i>	<i>Ceiling</i>	<i>Remark</i>
	<i>Cement and stone scraps</i>	<i>Painting</i>	<i>Steel plate</i>	

- Notes: 1. The Organizer may make modifications to the structural finish work.  
 2. The Organizer will provide official participants with blueprints of the rented pavilions in question and detailed requirements.

### **3.4 Exhibition Design and Modification in Type 2 Pavilions**

In making exhibition designs and construction in rented pavilions, official participants must not, in principle, alter the structure, facilities or installations provided by the Organizer except in the areas specified as follows.

#### **3.4.1 Ceiling Decoration**

- There is no suspension ceiling in the pavilion structures provided by the Organizer for rent, so that official participants may decide the interior finishing on their own.
- In case a suspension ceiling is to be installed by the participant, it must be fixed firmly and meet the requirements of the “Fire Prevention Standards for Structural and Exhibition Design of Official Participants”, the “Environmental Protection Regulations for Official Participants” and the “Public Sanitation and First Aid Regulations for Official Participants”.

#### **3.4.2 Hanging Exhibits**

- In principle, no exhibits shall be hung from the roof or ceiling of the pavilion structures provided by the Organizer except for lighter exhibits, such as textiles, shades, screens and banners, provided that they are fastened firmly to the roof or ceiling.
- Heavy exhibits must be hung from self-supporting frames installed by official participants.

#### **3.4.3 Mezzanine**

- Official participants may build mezzanine in the rented pavilion structures provided that the total area does not exceed the limit set by the Organizer, the mezzanine bears its own weight and does not affect the original construction, structure or facilities of the pavilion.
- The mezzanine shall meet the structural and architectural safety requirements, and the requirements of the “Fire Prevention Standards for Structural and Exhibition Design of Official Participants”, the “Design Standards of Barrier-free Facilities for Official Participants”, the “Environmental Protection Regulations for Official Participants” and the “Public Sanitation and First Aid Regulations for Official Participants”.

#### **3.4.4 Internal Walls**

- Official participants may build internal walls provided that the materials used are light and the walls do not affect the original construction, structure or facilities of the pavilion provided by the Organizer for rent.

- The internal wall shall meet the safety requirements, and the requirements of the “Fire Prevention Standards for Structural and Exhibition Design of Official Participants”, the “Environmental Protection Regulations for Official Participants” and the “Public Sanitation and First Aid Regulations for Official Participants”.

#### **3.4.5 Decoration of Internal Walls**

- Official participants may decorate the internal walls on their own.
- The decoration of internal walls shall meet the safety requirements, and the requirements of the “Fire Prevention Standards for Structural and Exhibition Design of Official Participants”, the “Design Standards of Barrier-free Facilities for Official Participants”, the “Environmental Protection Regulations for Official Participants” and the “Public Sanitation and First Aid Regulations for Official Participants”.

#### **3.4.6 Floor Decoration**

- Parameters such as the load limit of the floor shall be provided in future guidelines.
- Holes may be drilled on the floor provided that the structure is not affected.
- The floor may be strengthened provided that the load is not increased.

#### **3.4.7 Front Wall**

- The parameters of the load capacity of the external front wall shall be provided in future guidelines for pavilion design.

#### **3.4.8 Entrances and Exits**

- There should be two entrances and exits (width  $\geq 3\text{m}$  and height  $\geq 3\text{m}$ ) every 18 meters in the front to facilitate the entry and exit of visitors.
- Entrances and exits may be modified or increased provided that the structure is not affected.

#### **3.4.9 Windows**

- Windows may be installed provided that the structure is not affected.

#### **3.4.10 Basic Facilities in the Type 2 Pavilions**

Type 2 pavilions shall include connections to the basic facilities, such as water supply, rain water drainage, sewage system, power supply, and telecommunication. For detailed specifications of the above facilities, please refer to a complete set of

documents for pavilion designs to be released in the future. For additional facilities, official participants shall apply to the Organizer in written form and cover the cost.

### **3.5 Applicable Forms**

Detailed information shall be provided in due time.

## **4. Type 3: Joint Pavilions Offered to Developing Countries**

### **4.1 Description Type 3 Pavilions Design Parameters**

Type 3 are covered spaces in the Joint Pavilions offered free of charge to developing countries.

The actual floor area of each exhibition unit is 324 m<sup>2</sup>. In principle, the Organizer shall offer only one free unit to each developing country, and each developing country may be entitled to a maximum of 2 free units, or an indoor exhibition space of 648 m<sup>2</sup>, free of charge.

The participant who needs a second exhibition unit must submit to the Organizer a special request. The Organizer will take into consideration the participant's exhibition plan as well as the actual availability of exhibition space, and reserve the right to make the final decision on each request.

Limited outdoor space may be available depending on site conditions.

The application for indoor space must be submitted 30 months prior to the opening of Expo 2010, or by November 1<sup>st</sup>, 2007.

The Organizer shall hand over the spaces in the joint pavilions to participants by November 1<sup>st</sup>, 2009, and the participants must return them in their original conditions to the Organizer by November 30<sup>th</sup>, 2010.

### **4.2 Exhibition Arrangement**

Participants are responsible for the arrangement of exhibits in all the exhibition spaces provided.

## **5. Procedures of Exhibition Design**

The exhibition design is divided into two stages: concept design and blueprint design. The basic concepts and outlines of the design are provided in the stage of concept design, while details of the design and instructions for implementation are provided in the stage of blueprint design. The concept design shall be ap-

proved before the blueprint design may begin.

The exhibition design shall include the following details and drawings:

- a. Name;
- b. Theme of exhibition;
- c. Description of exhibits;
- d. Internal structure, decoration and exhibition design.

### **5.1 Approval Procedures for Exhibition Design**

Official participants shall submit to the Organizer all the documents related to the exhibition design, and the Organizer shall complete the necessary procedures for the participants.

### **5.2 Applicable Forms**

Detailed information shall be provided in due time.

## **6. Others**

In future updates of the *Participation Guide*, the Organizer shall successively provide documents with regard to the procedures for the management of structural construction and exhibition arrangement, the procedures of dismantling exhibits and pavilions built by official participants, the fire prevention standards for structural and exhibition design, the design standards for barrier-free facilities, and information about barrier-free services, food hygiene, environmental protection, environmental sanitation, public health and medical emergency, safety and risk prevention, fire control and disaster control.

