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**Size system of opening for windows and doors in building**

建筑门窗洞口尺寸系列

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# Size system of opening for windows and doors in building

## 1 Scope

This Standard specifies the terms and definitions, size series and selection requirements for width and height of opening for windows and doors in building.

This Standard is applicable to the opening for windows and doors of various materials and exterior walls of industrial and civil buildings.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 5823, *Terminology for building windows and doors*

GB/T 50002, *Standard for modular coordination of building*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 5823 and GB/T 50002 as well as the followings apply.

### 3.1 coordinating size between opening and frame of windows and doors (width and height)

It complies with the provisions for width, height mode number column of the opening for windows and doors. It is used to mark the vertical distance between the position lines in horizontal, vertical directions of the opening for windows and doors. It is the coordinating size BETWEEN the structural width and height of windows and doors AND the structural width and height of opening. It is called as coordinating width (B), coordinating height (A) of opening for windows and doors for short, in millimeters.

**NOTE:** The coordinating size between opening and frame of windows and doors is the nominal size of the opening of the building wall. It is the nominal size that determines the size of the opening and the size of the doors and windows.

### 3.2 width and height position lines of opening for windows and doors

The position line of width, height coordinating size of opening for windows and doors,

that is, the criterion to coordinate the position BETWEEN the doors and windows AND the opening (see Figure 1, Figure 2).

### **3.3 width and height of structural reveal**

The designed width and height of opening for windows and doors, that is, the net width ( $B_1$ ) and the net height ( $A_1$ ) of opening.

### **3.4 width and height of windows and doors**

The designed width and height of the doors and windows, that is, the width ( $B_2$ ), height ( $A_2$ ) of door and window profiles.

### **3.5 size system of opening for windows and doors**

A series of coordinating sizes that meet the width and high of the building door and window in line with the provisions for the number of building mold numbers AND the specified specifications of these coordinating sizes.

### **3.6 basic width and height parameter of opening for windows and doors**

The specified coordinating width and height, in line with horizontal, vertical expansion models 3M and 6M numbers that are respectively adopted by the width, height of opening for windows and doors.

### **3.7 auxiliary width and height parameter of opening for windows and doors**

In the horizontal, vertical expansion models 3M and 6M numbers that are respectively adopted by the width, height of opening for windows and doors, the specified coordinating width and height that are respectively inserted and less than the modulus level of this number column.

### **3.8 coordinating basic specification of opening for windows and doors**

The coordinating size specification of opening, of which the width, height of opening for windows and doors are basic parameters.

### **3.9 coordinating auxiliary specification of opening for windows and doors**

The coordinating size specification of opening, of which at least one of the width and height of opening for windows and doors is auxiliary parameter.

### **3.10 elementary door**

The single door that conforms to the basic specifications of size series of opening for doors.

### **3.11 elementary window**

B<sub>2</sub> - Width of windows and doors.

**Figure 2 -- Several common forms for location of position lines of opening for windows and doors**

## **4 Size system of opening for windows and doors in building**

**4.1** The size system of opening for doors in building shall meet the requirements of Table 1.

**4.2** The size system of opening for windows in building shall meet the requirements of Table 2.

**4.3** The priority size system of opening for doors in civilian building shall meet the requirements of Table 3.

**4.4** The priority size system of opening for windows in civilian building shall meet the requirements of Table 4.

**4.5** The coordinating width and height parameters of opening for non-rectangular windows and doors shall be selected according to the coordinating width and height parameters of opening for their external rectangle windows and doors [see Figure 1e)].

**4.6** The specification model of the size system of opening for windows and doors in building is expressed by the six-digit number formed by the thousands, hundreds, and ten digits of coordinating width and height of opening for windows and doors, arranging in the before-and-after order. If there is no thousand digits, it is represented by "0".

**Example 1:** When the coordinating width of the opening for doors is 900mm and the coordinating height is 2100mm, its model shall be 090210.

**Example 2:** When the coordinating width of the opening for windows is 1200mm and the coordinating height is 1500mm, its model shall be 120150.

## **5 Determination for width and height of structural reveal**

### **AND width and height of windows and doors**

**5.1** The width and height of structural reveal AND width and height of windows and doors shall be respectively based on the width and height position lines of opening for windows and doors. They are determined according to installation form for doors and windows (flat connection, slot connection, overlapping), installation method (dry method, wet method) and structural gap for installing (see Figure 2).

**NOTE:** Dry method installation means that: Preset additional metal frame to wall opening for

in the same period with the window and wall [see Figure 2b)].

## **7 Requirements for selection**

### **7.1 Architectural design**

**7.1.1** The principle of coordination shall be implemented during architectural design. The basic specifications of the size system for opening for windows and doors in this Standard shall prevail the auxiliary specifications. Reduce the number of specifications in the same area and the same building.

**7.1.2** During the design of the standard layer of the living building, the size for opening for windows and doors shall be respectively selected from the priority sizes for opening for windows and doors in civilian building in Table 3, Table 4.

**7.1.3** During the design of the standard layer of the public building, the size for opening for windows and doors shall be respectively selected from the priority sizes for opening for windows and doors in civilian building in Table 3, Table 4.

**7.1.4** During industrial architecture design or non-standard layer design of civil building, if the specifications of this Standard cannot meet the needs, it can be determined in accordance with the column law for the size system for opening of basic specification, auxiliary specification for coordinating width, height of opening for windows and doors in this Standard.

**7.1.5** When the architectural design adopts the design of the door and window product design, it shall be verified and confirmed that one of the installation forms, installation methods, and size of structural gap for installing. Make necessary supplementary design requirements.

**7.1.6** When the architectural design needs to use a combination door and window, it is advisable to use the strip window, shape window and window door of the basic doors and windows.

### **7.2 Design of building doors and windows**

**7.2.1** When preparing the design documents for doors and windows, according to factors such as the materials, performance, quality standards for the doors and windows, select the size system of opening for windows and doors in this Standard. The relationship BETWEEN the width and height of windows and doors AND the position lines of opening for windows and doors, as well as the installation forms, methods of various types of walls that can be adapted and the size of structural gap for installing, shall be expressed. Propose corresponding technical measures.

**7.2.2** It shall, according to the specifications of door and window frames or horizontal and vertical puppets as well as structural requirements, determine the width and height

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