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**Bathroom furniture**

卫浴家具

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## Bathroom furniture

### 1 Scope

This standard specifies the terms and definitions, product classification, requirements, test methods, inspection rules and markings, packaging, transportation, storage, use instructions of bathroom furniture.

This standard applies to the furniture used in toilets and bathrooms. The furniture used in other similar places can be implemented with reference to this standard.

### 2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1732 Determination of impact resistance of film

GB/T 2828.1-2003 Sampling procedures for inspection by attributes -Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB 4706.1-2005 Household and similar electrical appliances – Safety - Part 1: General requirements

GB/T 4893.1 Furniture - Assessment of surface resistance to cold liquids

GB/T 4893.2 Furniture - Assessment of surface resistance to wet heat

GB/T 4893.3 Furniture - Assessment of surface resistance to dry heat

GB/T 4893.4 Test of surface coatings of furniture - Part 4: Determination of adhesion - Cross cut

GB/T 4893.7 Test of surface coatings of furniture - Part 7: Determination of surface resistance to alternation of heat and cold

GB/T 4893.8 Test of surface coatings of furniture - Part 8: Determination of wearability

GB/T 4893.9 Test of surface coatings of furniture - Part 9: Determination of resistance to impact

GB 5296.6 Instructions for use of products of consumer interest - Part 6: furniture

GB 6566 Limit for radionuclides in building materials

GB/T 6739-2006 Paints and varnishes - Determination of film hardness by pencil test

GB/T 10357.1 Test of mechanical properties of furniture - Part 1: Strength and durability of tables

GB/T 10357.5 Test of mechanical properties of furniture - Part 5: Strength and durability of storage units

GB/T 13667.1-2003 Specification for steel book shelves

GB/T 17657-1999 Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels

GB 18584 Indoor decorating and refurbishing materials - Limit of harmful substances of wood based furniture

JC 981-2005 Household glass-washbowl and tabletop

QB/T 1102-2006 Civil ornamental mirror

QB 2658-2004 Lavatory for sanitary fittings

QB/T 3814-1999 Surface examination method of the metal deposits and conversion coatings for the light industrial products

QB/T 3826-1999 Corrosion-resistant testing method of the metal deposits and conversion coatings for the light industrial products - Neutral salt spraying test (NSS)

### **3 Terms and definitions**

The following terms and definitions apply to this standard.

#### **3.1**

##### **Bathroom furniture**

It is a unified term of series of cabinets (stands) and racks in the toilets and bathrooms that are used to support washbasins and have shelf and storage

## **5.7 Hygiene and safety requirements (basic items)**

**5.7.1** The limit of harmful substances in wooden products shall meet the requirements of GB 18584.

**5.7.2** The radioactivity of the product shall meet the grade A requirements in GB 6566.

**5.7.3** Parts or accessories that may be touched during normal use shall not have burrs, sharp ends, sharp edges, or sharp corners.

## **5.8 Installation and use requirements (basic items)**

**5.8.1** The components of the product shall be connected firmly and tightly; the joint shall be flat and free from chipping and loosening.

**5.8.2** The installation of various accessories and connectors shall not miss parts or nails, or have penetrated nail.

**5.8.3** After installation, the opening and closing components shall be operated flexibly.

**5.8.4** There shall be no seepage or water leakage under normal use after installation between all parts of the product.

**5.8.5** The cabinet shall be level after installation; the parallelism with the ground shall not be greater than 0.7‰.

**5.8.6** The cabinet installation shall be vertical. All moving parts shall not be self-opening after being impacted by external forces.

**5.8.7** The electrical appliances such as lamps, sockets and switches shall be installed firmly and grounded reliably.

## **6 Test method**

### **6.1 Determination of major dimensional deviations, shape and position tolerances**

#### **6.1.1 Determination of major dimensional deviations**

The sample shall be placed on a flat plate or flat ground; measured by a steel ruler or tape measure with an accuracy of not less than 1 mm. The dimensional deviation is the difference between the product identification value and the measured value.

#### **6.1.2 Determination of warpage**

Make determination according to the requirements of GB/T 4893.1 ~ 4893.4, GB/T 4893.7 ~ 4893.9, 4.40 of GB/T 17657-1999.

#### **6.4.2.2 Determination of physical and chemical properties of soft and hard coverings**

Make determination according to the requirements of GB/T 4893.1 ~ 4893.3, GB/T 4893.7, 4.29, 4.38, 4.40 of GB/T 17657-1999.

#### **6.4.2.3 Determination of physical and chemical properties of metal surface coatings**

##### **6.4.2.3.1 Hardness**

Make determination according to the requirements of GB/T 6739-2006.

##### **6.4.2.3.2 Impact strength**

Make determination according to the requirements of GB/T 1732.

##### **6.4.2.3.3 Corrosion resistance**

Make determination according to the requirements of 7.3.3.7 of GB/T 13667.1-2003.

##### **6.4.2.3.4 Adhesion**

Make determination according to the requirements of GB/T 4893.4.

#### **6.4.2.4 Roughness of metal plating layer**

Make determination according to the requirements of 3.2 of QB/T 3814-1999.

#### **6.4.2.5 Resistance to salt spray on metal plating**

Make determination according to the requirements of QB/T 3826-1999.

#### **6.4.2.6 24h water absorption thickness swelling rate of wooden parts**

Make determination according to the requirements of 4.6 in GB/T 17657-1999.

#### **6.4.2.7 Dip peel off of veneer and soft-hard veneer**

Make determination according to the requirements of the category II dip peel off test of clause 4.17 of GB/T 17657-1999.

### **6.5 Water resistance**

As shown in Figure 2, use a 50 ~ 80 hole shower head with a hole diameter of 1.0 mm ~ 1.5 mm and a flow rate of 10 L/min ~ 12 L/min, to sprinkle the

## **6.7 Hygiene and safety requirements test**

**6.7.1** The limit test of harmful substances in wooden products shall be determined in accordance with the provisions of GB 18584.

**6.7.2** The product radioactivity test shall be performed in accordance with the provisions of GB6566.

**6.7.3** The safety of parts or accessories shall be inspected according to 6.3.

## **6.8 Requirements for installation and use**

### **6.8.1 Determination of parallelism**

Use a steel tape measure or steel ruler with an accuracy of not less than  $\pm 0.6$  mm per meter, to measure the height above the ground at the midpoint of each set of cabinets. The ratio of the difference to the side length is the parallelism.

### **6.8.2 Determination of water seepage and leakage**

Fill the basin with water. After 30 min, check for leakage. Then empty the basin, check whether there is leakage inside the cabinet.

### **6.8.3 Tests of other items**

Perform test in accordance with the requirements of 6.2.

## **7 Inspection rules**

### **7.1 Classification of inspections**

Product inspection is divided into type inspection, exit-factory inspection, installation acceptance inspection. Type inspection is a comprehensive assessment of product quality; exit-factory inspection is a specified item inspection that shall be performed when the product is shipped or delivered; installation acceptance inspection is an inspection of the product after installation at the user's site.

### **7.2 Exit-factory inspection**

#### **7.2.1 Exit-factory inspection items**

The exit-factory inspection items are 5.1, 5.2, 5.7.3, 5.8.1 ~ 5.8.3 in this standard.

#### **7.2.2 Group-batch rules and exit-factory inspection sampling scheme**

Products of the same material, same process, produced in the same period can

### **7.3.2 Type inspection conditions**

Type inspection shall be carried out in one of the following situations:

- a) Trial-type identification of new product or the old products after trans-plant production;
- b) After the formal production, if there are major changes in structure, materials and processes, which may affect product performance;
- c) In normal production, at regular interval or after accumulating a certain production amount, it shall perform one inspection regularly; the inspection cycle is generally one year;
- d) When the production is restored after long term shutdown;
- e) When the exit-factory inspection results are significantly different from the last type inspection results;
- f) When a national quality supervision agency requests a type inspection.

### **7.3.3 Sampling rules for type inspection**

In one inspection cycle, randomly take 2 samples from the recently produced products, 1 is sent for inspection, the other is retained.

### **7.3.4 Evaluation of type inspection results**

#### **7.3.4.1 Evaluation of inspection results of individual product**

If the basic items are all qualified and the number of unqualified general items are not more than 5, then the product of this model is evaluated as a qualified product (contract item, which is determined according to the contract requirements). Otherwise it is unqualified product.

#### **7.3.4.2 Evaluation of inspection results of complete products**

Each product in a complete set of products shall be evaluated in accordance with 7.3.4.1. When each product is qualified, the set of products shall be evaluated as qualified; otherwise it shall be unqualified.

### **7.3.5 Reinspection rules**

If the product is unqualified after type inspection, the retained backup sample can be re-inspected. The inspection and evaluation of the unqualified items and unchecked items due to damage to the sample shall be performed in accordance with the provisions of 7.3.4.1. Meanwhile in the inspection result, it shall indicate "reinspection".



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Contact: Wayne Zheng, [Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net)

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