

ICS 97.140

**QB**

**LIGHT INDUSTRY STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

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**Hardware for furniture - Guide rails  
(English Translation)**

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### 1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules, markings, instructions for use, packaging, transportation, storage of guide rails.

This standard applies to drawer's guide rails. Other guide rails and extension elements may refer to this standard.

### 2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

QB/T 3826 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 document.

#### 3.1

Catch device

A device that holds or attaches a part in a certain position.

**Note:** The opening of catch device does not require auxiliary actions, such as magnetic attraction OR a mechanical device that automatically closes.

## 3.2

### Extension element

Parts that can be pushed in and pulled out, such as drawers, hanging file bags, keyboard trays.

#### 5.2.1 Loading requirements

In the static load test, the loading speed shall be as slow as possible, to ensure that the additional dynamic load is negligible. Unless otherwise specified, each load applied shall be maintained for 10 s ~ 15 s.

In the durability test, the loading speed shall ensure that no dynamic heating will occur.

**Note:** The applied force can be replaced by mass. The conversion relationship is that:

10 N is equivalent to 1 kg.

#### 5.2.2 Accuracy

Unless otherwise specified, the following measurement accuracy shall be used:

- Loading force:  $\pm 5\%$  of the rated value;
- Speed:  $\pm 5\%$  of the rated value;
- Mass:  $\pm 1\%$  of rated value;
- Size:  $\pm 1$  mm;
- Angle:  $\pm 2^\circ$ ;
- Position of loading pad and impact steel plate:  $\pm 5$  mm.

#### 5.2.3 Loading pad

It is a rigid disc, which has a diameter of 100 mm AND is edge chamfered of 12 mm. The loading surface is flat. If it is restricted by the use space, it may use a loading pad which has a diameter of 50 mm.

#### 5.2.4 Slam-closing or slam-opening test device for drawer's guide rail

For the test device for the slam-closing or slam-opening of drawer's guide rail, see Appendix A.

#### 5.2.5 Glass marbles

It is a solid glass ball, which has a diameter of 10 mm ~ 15 mm. They shall be packed in a large flexible bag, so that they can move in the bag during the test.

### **5.2.6 Load of file bag**

The hanging file bag shall use printing paper OR a similar substitute as shown in Figure 1.

force, refer to Figure 2.

According to the same principle as above, carry out the slam-opening test (see Figure A.2).

## **5.6 Corrosion resistance test**

The corrosion resistance test shall be carried out in accordance with the provisions of QB/T 3826.

## **6.1 Type inspection items**

All items in Chapter 4 of this standard are type inspection items.

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

- a) During formal production, inspection shall be carried out regularly; the inspection period is generally 1 year;
- b) When the raw and auxiliary materials AND their production processes undergo major changes;
- c) When the production is resumed after long term suspension;
- d) Trial type appraisal of new or old products;
- e) When the quality supervision agency proposes type inspection requirements.

## **6.3 Sampling rules**

Within one inspection cycle, randomly select 6 samples from the recently produced products, wherein 3 samples are submitted for inspection AND 3 are retained for reference.

## **6.4 Inspection procedures**

The test is carried out in accordance with the steps which are specified in this standard.

## **6.5 Judgment of inspection results**

When the results of all inspection items meet the requirements specified in this standard, the product is determined to be a qualified product. Those failing to meet the requirements of qualified products are disqualified products.

## **6.6 Re-inspection rules**

If the product fails in the type inspection, it may use the retained standby sample for re-inspection. It shall follow the provisions of 6.5 to make judgement. In the inspection report, indicate "qualified in reinspection" or "disqualified in reinspection".

7 Markings, instructions for use, packaging, transportation, storage

## **7.1 Markings**

The product marking shall include at least the following content:

- a) Product name, specification and model;
- b) The number of implemented standard;
- c) Inspection certificate and production date;
- d) The Chinese name and address of the manufacturer.

## **7.2 Instructions for use**

Product's instruction for use should be compiled with reference to GB 5296.6.

The content shall at least include:

- a) Product name, specification model, number of implemented standard, grade;
- b) Loading capacity;
- c) The name of the main raw and auxiliary materials of the product, as well as the location of use;
- d) The type of furniture to which the product is applicable (such as household or commercial);
- e) Technical requirements and considerations for product installation and adjustment;
- f) Product's use method and considerations;
- g) Product failure analysis and troubleshooting, maintenance methods.

## **7.3 Packaging**

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