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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22632-2008

**Door leaves -- Determination of the resistance to hard body
impact**

门扇 抗硬物撞击性能检测方法

(English Translation)

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Foreword

This standard is identical with ISO 8271:2005 "anti-door hard object impact performance testing methods." for ease of use, this standard made the following editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) use a decimal point instead of a decimal comma " , " . " , " ;
- c) Remove the preface to international standards;
- d) increase of the test results in Chapter 5 Note informative content.

The standard proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China.

This standard is under the jurisdiction of the Ministry of Construction of housing building products Standardization Technical Committee, components and products with the urban and rural areas.

1 Scope

This standard specifies the hard object impact damage to door detection method.

This standard applies to all doors.

Note: The hard object impact is often small objects or partial large objects (such as angle device and the base) of the collision, this strike will affect the strength and appearance Local surface damage. Damage caused by the impact will vary depending on the material of the door vary.

2.1 Support means

When the door is level for securing the long side of the rigid support.

2.2 Impact device

A diameter of (50 ± 1) mm steel ball and a proper release bracket.

2.3 Test apparatus

Accuracy of 0.01mm dial or digital gauges and installed in long 50mm, 12mm wide center of the base rod.

Accuracy of 0.5mm steel ruler.

3 Specimens

The specimen should be at a temperature of $15\text{ }^{\circ}\text{C} \sim 30\text{ }^{\circ}\text{C}$, relative humidity of 25% to 75%, and the destruction of the environment does not occur in storage and testing.

4 Detection step

Door mounted horizontally long side on a firm base surface of a rigid support means for supporting the leaf.

The impact of four different ways as shown in Figure 1, select a label on the surface of the door 15 the point of impact. The glass portion of the specimen should be ignored, this will reduce the number of hit points.

When the door height less than 2000mm, impact the way in the top row or several rows of the point of impact should be negligible. When the door when the fan is greater than the height of 2000mm, without expanding the area of the test area.

Note 1: To facilitate the installation of the selected device striking manner, as shown in Figure 1 should make standard-sized door model; and drill diameter at the center of the rectangle numbered About 8mm hole in order to indicate the point of impact.

Eluting stents will in turn placed vertically on each point of impact, so that the ball fall from a certain height, the height of the ball to the bottom of the door leaf table from the surface, as determined by the desired impact energy.

After impact 30min, leaving a permanent impact in gravure printing at the maximum depth measured gravure, accurate to 0.1mm, the best measure Gravure Large diameter, accurate to 1.0mm, the maximum diameter of the rupture zone measured to the nearest 1.0mm.

Note 2: If the impact of the surface is not smooth, such as molded ribs place, allows the use of more appropriate evaluation methods.

If both sides of the door structure is different, repeat the above steps on the other side of the door.

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