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

GB/T 29739-2013

**Test method of resistance to repeat opening and closing for
windows and doors**

门窗反复启闭耐久性试验方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses redrafted law revision using ISO 8274:2005 "Standard Test Method for opening and closing doors and repetition durability." this standard and ISO 8274:2005 and the difference compared to the following technical reasons. on normative references, with this standard GB/T 29048 instead of prEN12046-1.1996, with GB/T 29555 "Standard Test Method for opening and closing force of the door" instead prEN12046-2.

1999, in order to adapt to China's technical conditions.

This standard and ISO 8274:2005, compared the structure has been adjusted, specific adjustments are as follows.

--- ISO 8274:2005 Mount paragraph in Chapter 5 of this standard adjustment 5.1, 5.1 and 5.2 of the original is adjusted to 5.2 and 5.3;

--- ISO 8274:2005 Mount paragraph in Chapter 8 of the cancellation, the content is adjusted to 8.1 and 8.2 of this standard.

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

This standard by the national building curtain wall windows and doors Standardization Technical Committee (SAC/TC448) centralized.

Introduction

This standard test method provides information on the doors and windows mechanical durability, does not involve material or surface treatment layer corrosion or rust in the

environment Corrosion durability.

Repeated opening and closing doors and endurance test methods

1 Scope

This standard specifies a certain number of times after the opening and closing cycle, open the door and test methods portion of the mechanical durability of the window.

This standard applies to normal operating conditions in a variety of materials and opening and closing the door jamb whole system and the whole window jamb.

The standard test relates to window and door frames, open the member (including all auxiliary member) and the necessary hardware accessories, including the opening and closing device. but not Including any additional fixing accessories, such as. plug, spreaders, nor any limit device installed separately.

The standard opening and closing cycle including motion hinges, struts, balancing devices and other mechanical devices and other auxiliary member.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Hoisting force test method GB/T 29048 Window Hoisting force test method GB/T 29555
Door

3 Terms and Definitions

The following terms and definitions apply to this document.

Opening and closing cycle cycle Doors, sash opening and closing process of the full range of actions, including the locking device is released from the doors and windows, door and window fans fully open, closed, to re-locking device the new lock.

Opening and closing device operatingdevice for the user to manipulate doors, sash, and opening and closing movement of the device consists of hardware accessories thereof.

Handling equipment operatingequipment Test equipment for operating the opening and closing portion of the device.

Reference speed referencevelocity when the door sash linear motion, the actual speed of the door sash movement; when the door sash rotary motion when the door sash and manipulation it means the linear velocity of the outer edge of the connecting end. Meters per second (m/s).

Dwell time resttime

Change between the two operating direction or twice closing pause time between cycles in seconds (s).

Reference point datumpoints Fan windows and doors from the measuring point at each corner 50mm.