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

GB/T 32223-2015

Replacing GB/T 32223-2015

**Building hardware for windows and doors - General
requirements**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1. Structure and drafting rules for standardization documents"

Drafting is required.

This document replaces GB/T 32223-2015 "General requirements for building door and window hardware". Compared with GB/T 32223-2015,

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

--Changed the operating parts, bearing parts, transmission locking parts, transmission mechanism handles, spinning handles, double-sided handles, pulleys, transmission

Definitions of closures, multi-point closures and stays (see 3.2, 3.3, 3.4, 3.2.1, 3.2.2, 3.2.3, 3.3.5, 3.4.1, 3.4.2 and

3.5.1, 3.2, 3.3, 3.4, 3.6, 3.7, 3.8, 3.12, 3.13, 3.14 and 3.16 of the.2015 edition);

--Added handles, window openers, door clamps, sliding supports for horizontal sliding windows, hanging wheels, lifting devices, anti-slip devices, anti-fall devices and temperature-controlled window closing devices

terms and definitions for use in connection with the provision of services (see 3.2.5, 3.2.6, 3.3.2, 3.3.4, 3.3.6, 3.5.2, 3.5.3, 3.5.4 and 3.5.5);

-- Deleted "Classification of basic configurations of door and window hardware according to common opening forms" (see 4.2 of the.2015 edition);

-- Added "General Principles" (see Chapter 5) and deleted "General Requirements" (see Chapter 5 of the.2015 edition);

-- Changed the material requirements for carbon steel, zinc alloy, aluminum alloy and stainless steel (see 6.1.1, 6.1.2, 6.1.3 and 6.1.4,.2015 edition)

5.2.1.1, 5.2.1.2, 5.2.1.3 and 5.2.1.4 of the Regulations);

--Added material requirements for copper alloy, alloy structural steel, grey cast iron and hydraulic oil (see 6.1.5, 6.1.6, 6.1.7 and 6.1.8);

-- Deleted the requirements for plastics and other materials (see 5.2.1.5 and 5.2.1.6 of the.2015 edition);

--Changed the common materials for single-point locks, pulleys and transmission lock bodies (see 6.2.4, 6.2.12 and 6.2.14,.2015 edition)

5.2.2.4, 5.2.2.7 and 5.2.2.8);

--Added common materials for handles, window openers, glass door hinges, door clamps, sliding window supports and floor spring bodies (see 6.2.5, 6.2.6,

6.2.8, 6.2.9, 6.2.11 and 6.2.13); deleted the common materials for the main body of the underslung tie rod (see 5.2.2.12 of the.2015 edition);

-- Changed the requirements and test methods for film thickness and adhesion, corrosion resistance and weather resistance (see 7.2, 7.3, 7.4, 8.2, 8.3 and 8.4,

6.2 and 7.2 of the.2015 edition);

--Added moisture and heat resistance and test methods (see 7.5 and 8.5);

--Changed the requirements for mechanical properties (see 7.6 and 7.7, 6.3 of the.2015 edition);

--Added safety device performance and test methods (see 7.8 and 8.7);

-- Changed "Simulated doors and windows and their test devices" (see Appendix B, Appendix A of the.2015 edition).

1 Scope

This document specifies the classification and basic configuration, general rules, materials, requirements of building door and window hardware, and describes the corresponding test methods.

This document applies to the manufacture and inspection of commonly used hardware for doors and windows in civil buildings.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to

This document.

GB/T 699 High-quality carbon structural steel

GB/T 700 Carbon structural steel

GB/T 702 Dimensions, shapes, weights and tolerances of hot-rolled steel bars

GB/T 905 Dimensions, shapes, weights and tolerances of cold drawn round steel, square steel and hexagonal steel

GB/T 1176 Cast copper and copper alloys

GB/T 1220 Stainless Steel Bars

GB/T 1865-2009 Artificial weathering and artificial radiation exposure of paints and varnishes - Filtered xenon arc radiation

GB/T 2100 General purpose corrosion resistant steel castings

GB/T 3077 Alloy structural steel

GB/T 3190 Chemical composition of wrought aluminum and aluminum alloys

GB/T 3280 Stainless steel cold-rolled steel sheets and strips

GB/T 4232 Stainless steel wire for cold forging

GB/T 4956 Measurement of coating thickness of non-magnetic coatings on magnetic substrates - Magnetic method

GB/T 4957 Measurement of coating thickness of non-conductive coatings on non-magnetic base metals - Eddy current method

GB/T 5231 Grades and chemical compositions of processed copper and copper alloys

GB/T 5237.1 Aluminum alloy building profiles Part 1.Base materials

GB/T 5237.3 Aluminium alloy building profiles Part 3.Electrophoretic coating profiles

GB/T 5237.4 Aluminum alloy building profiles Part 4.Powder coating profiles

GB/T 5237.5 Aluminum alloy building profiles Part 5.Painted profiles

GB/T 5823 Terminology of building doors and windows

GB/T 6461 Rating of samples and test pieces after corrosion tests on metal and other inorganic coatings on metal substrates

GB/T 6465 Corrosion test for metals and other inorganic coatings (CORR test)

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 9439 Grey iron castings

GB/T 9754 Paints and varnishes - Determination of specular gloss at 20°, 60° and 85° for

paint films without metallic pigments

GB/T 9799 Metallic and other inorganic coatings - Treated zinc coatings on iron and steel

GB/T 10125 Artificial atmosphere corrosion test Salt spray test

GB 11118.1 Hydraulic oil (L-HL, L-HM, L-HV, L-HS, L-HG)

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