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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

GB 12955—2008 Replace GB 12955-1991 and GB 14101-1993

Fire Doorsets 防火门

Preface

Chapter 7 and Article 7.2 of this Standard are mandatory clauses and the rest are recommendatory clauses

This Standard is used in place of GB 12955-1991 General technical conditions for steel fire doorset and GB 14101-1993 Wood fire doorset—General Technical conditions.

In comparison with GB 12955-1991 and GB 14101-1993, the changes made in this Standard mainly include the following:

- It has added the contents of classifications for fire doorsets by materials (See 4.1);
- It has modified the classifications for fire performance of fire doorsets, changed from the original Classes A, B and C into classification by "Fully insulated fire doorset (Type A)", "Partially insulated fire doorset (Type B)" and "No insulated fire doorset (Type C)" in this version (Article 4.3 in GB 12955-1991 and Article 4.1 in GB 14101-1993; Article 4.4 in this version);
- Requirements on the materials of fire doorsets have become more comprehensive and concrete, in which it has added the requirements on fire performance of materials and on the smoke toxicity from burning of materials (Article 5.1 in GB 12955-1991 and GB 14101-1993; Article 5.2 of this version).
- It has deleted the requirements on the wind pressure resistant deformability, on air leakage resistance and rain penetration resistance of wood fire doorsets used as outer doors of buildings;
- Requirements on the performance of fire rated locks have become more concrete (Article 5.1.3 in GB 12955-1991, Article 5.1.4 in GB 14101-1993; Article 5.3.1 in this version);
- Requirements on the performance of fireproof hinge have become more concrete (Article 5.1.3 GB 12955-1991 and 5.1.4 in GB 14101-1993; Article 5.3.2 in this version);
- Requirements on the performance of door closer-holder have become more concrete (Articles 5.1.3 in GB 12955-1991 and 5.1.4 in GB 14101-1993; Article 5.3.3 in this version);
- Requirements on the performance of fire-proof glass have become more concrete (Articles 5.1.3 in GB 12955-1991 and 5.1.3 in GB 14101-1993; Article 5.3.7 in this version);
- It has added the quality requirements and test methods on fire doorset leaf (See5.5 and 6.6);
- It has added the requirements and test methods on the width, direction and bending of fire doorset leaf (See 5.7 and 6.8.3);
- It has added the requirements and test methods on joining clearance between door leaf and door frame (See 5.8.2.6 and 6.9.3);
- It has added the requirements and test methods on the flexibility of fire doorset (See 5.9 and 6.10);
- It has added the requirements and test methods on the reliability of fire doorset (See 5.10 and 6.11);
- There is certain improvement for the test methods on the door leaf skewness of fire doorset (See 6.2 in GB 14101-1993; 6.8.2 in this version);
- It has added the measuring method for lapping dimensions between door leaf and door

frame (See Article 6.9.1);

- It has added the criteria for determination (See Article 7.2.4);
- It has added Normative Appendix A (See Appendix A);
- It has added Normative Appendix B (See Appendix B);
- It has added Normative Appendix C (See Appendix C);
- It has added Normative Appendix D (See Appendix D);

The Appendix A, Appendix B, Appendix C and Appendix D of this Standard are normative appendixes.

This Standard is proposed by Ministry of Public Security of the People's Republic of China.

This Standard is governed by Building Element Fire Performance Branch Technical Committee of China National Firefighting Normalization Commission (SAC/TC113/SC8).

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The historical versions to be substituted by this one include:

- ——GB 12955-1991;
- ——GB 14101-1993.

Please note that, some contents in this Standard can be involved in patents. The issuance organ of this Standard is not obliged to identify such patents.

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Fire Doorsets

1. Scope

This Standard has stipulated the types, codes and sign, requirements, test methods, inspection rules, marks, packages, transportation and storage, etc, of fire doorsets.

This Standard is applicable to vertical hinged wood, steel and steel-wood fire doorsets and the fire doorsets of other materials. The fire doorsets of other opening methods can refer to this Standard.

2. Normative References

The clauses contained in the following documents have become the clauses of this Standard after they are quoted by this Standard. For the dated documents quoted herein, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard, but all parties who have reached agreements based on this Standard are encouraged to study the possibility to implement the latest versions of these documents. For the undated documents quoted herein, all their latest versions are applicable to this Standard.

GB/T 708 Dimensions, shape, weight and tolerances for cold - rolled plates and sheets

GB/T 709 Dimensions, shape, weight and tolerances for hot - rolled plates and sheets

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

GB/T 4823-1995 Defects in sawn timber (eqv ISO 1029:1974)

GB/T 5823-1986 Doors and windows for building—Terminology

GB/T 5824 Size system of opening for doors and windows in building

GB/T 5907-1986 Fundamental terminology of fire protection--Part 1

GB/T 6388 Transport package shipping mark

GB/T 7633 Fire resistance test method of door and shutter assemblies

GB 8624-2006 Classification for burning behavior of building materials and products

GB/T 8625-2005 Test method of difficult-flammability for building materials

GB 9969.1 General principles for preparation of instructions for use of industrial products

GB/T 13306 Plates

GB/T 14436 General principles of industrial product guarantee documents

GB 15763.1 Safety glazing materials in building Fire-resistant glass

GB 16807 Fire intumescent seals

GB/T 20285-2006 Toxic classification of fire effluents hazard for materials

GA 93 Fire-proof door closer

JG/T 122-2000 Wood doors and windows in building

QB/T 2474 Pin tumbler mortice door lock

3. Terms and definitions

The following technical terms and definitions established by GB/T 5823-1986 and GB/T 5907-1986 are applicable to this Standard.

3.1 Fire resistant side hung doorsets

The fire doorset composed of door frame, door leaf, fireproof lock and other fireproof



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