

Translated English of Chinese Standard: GB/T7633-2008

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 13.220.50
C 82

GB/T 7633-2008

Replacing GB/T 7633-1987

Fire Resistance Tests - Door and Shutter Assemblies

门和卷帘的耐火试验方法

(ISO 3008:2007, MOD)

Issued on: October 8, 2008

Implemented on: May 1, 2009

Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;

Standardization Administration of the People's Republic of
China.

Table of Contents

Foreword.....	3
1. Scope.....	6
2. Normative References	7
3. Terms and Definitions.....	7
4. Test Equipment.....	10
5. Test Conditions.....	10
6. Test Specimen	10
7. Installation of Test Specimen.....	12
8. Conditioning of Test Specimen	16
9. Application of Instrumentation.....	16
10. Test Procedure	22
11. Judgment Condition.....	24
12. Test Report	24
13. Field of Direct Application of Test Results.....	25
Appendix A (Informative) Comparison List of Chapter and Article Numbers between ISO 3008:2007 and This Standard.....	60
Appendix B (Informative) Technical Differences between this Standard and ISO 3008:2007 and Their Reasons.....	62
Appendix C (Informative) Conditioning Requirements for Supporting Constructions	65
Appendix D (Informative) Estimation of Radiant Heat Flux Using Measured Surface Temperature and the Stefan-Boltzmann Law.....	67
Bibliography	70

Foreword

This standard is modified in relation to "Fire-resistance Tests - Door and Shutter Assemblies" (ISO 3008 2007) (English edition).

This standard is redrafted according to ISO 3008:2007. For the convenience of comparison, the "Comparison List of Chapter and Article Numbers between ISO 3008:2007 and This Standard" is listed in Appendix A.

Considering China's national conditions, some changes are made in this standard at adopting ISO 3008:2007. The relevant technical differences have already been provided in the text and marked with perpendicular single line on the margin of relevant clauses. "Technical Differences between this Standard and ISO 3008:2007 and Their Reasons" are provided in Appendix B for reference.

For the convenience of use, the following editorial changes of ISO 3008:2007 are made in this standard:

- "this international standard" is replaced by "this standard";
- the comma "," used as the decimal point was replaced by the decimal point ".";
- the foreword and introduction in ISO 3008:2007 are deleted.

This standard replaces "Fire Resistance Tests - Door and Shutter Assemblies" (GB/T 7633-1987).

Compared with GB/T 7633-1987, the main changes in this standard are as follows:

- the content of "Caution" is added to inform the users of matters concerned to be noticed (in front of the "Scope" in this edition);
- the chapter of "Scope" is added to further define the applicable object of this standard (Chapter 1 in this edition);
- the chapter of "Normative References" is added (Chapter 2 in this edition);
- the chapter of "Terms and Definitions" is added (Chapter 3 in this edition);
- the requirements of test equipment are modified (Chapter 1 in 1987 edition and Chapter 4 in this edition);

- test conditions are modified (Chapter 2 & Chapter 3 in 1987 edition and Chapter 5 in this edition);
- the requirements of test specimen are modified, and the relevant clauses are rearranged (Chapter 4 in 1987 edition and Chapter 6 in this edition);
- "design of test specimen" is added (see Section 6.3);
- "verification" is added (see Section 6.5);
- the installation requirements of test specimen are modified and arranged as an independent chapter (Section 4.4 in 1987 edition and Chapter 7 in this edition);
- the conditioning requirements are changed to adjustment and arranged as an independent chapter (Section 4.5 in 1987 edition and Chapter 8 in this edition);
- "Application of Instrumentation" is added (the Chapter 6 in 1987 edition is modified and changed to Chapter 9 in this edition);
- the test procedures are modified (Chapter 5 in 1987 edition and Chapter 10 in this edition);
- the judgment conditions are modified (Chapter 7 in 1987 edition and Chapter 11 in this edition);
- the requirements of test report content are modified (Chapter 8 in 1987 edition and Chapter 12 in this edition);
- "Field of Direct Application of Test Results" is added (see Chapter 13);
- "Comparison List of Chapter and Article Numbers between ISO 3008:2007 and This Standard" is added (see Appendix A);
- "Technical Differences between this Standard and ISO 3008:2007 and Their Reasons" is added (see Appendix B);
- normative appendix "Conditioning Requirements for Supporting Constructions" is added (see Appendix C);
- informative appendix "Estimation of Radiant Heat Flux Using Measured Surface Temperature and the Stefan-Boltzmann Law" is added (see Appendix D).

In this standard, Appendix C is normative while Appendixes A, B and D are informative.

Fire Resistance Tests - Door and Shutter Assemblies

Caution: the attention of all persons concerned with managing and carrying out this fire-resistance test is drawn to the fact that fire testing may be hazardous and that there is a possibility that toxic and/or harmful smoke and gases may be evolved during the test. Mechanical and operational hazards may also arise during the construction of the test elements or structures, their test and disposal of test residues. Therefore, an assessment of all potential hazards and risks to health shall be made and safety precautions shall be identified and provided. Appropriate training shall be given to relevant personnel. Laboratory personnel shall ensure that they follow written safety instructions at all times.

1. Scope

This standard specifies the fire resistance test method for the door and shutter assemblies installed at the opening of the vertical separating members, such as:

- hinged and pivoted doors,
- horizontally sliding and vertically sliding doors, including articulated sliding doors and sectional doors;
- rolling shutter doors;
- other sliding or folding doors;
- flap door;
- removable panels in walls.

The test method specified in this standard can also be used to determine the fire resistance of non-loadbearing horizontal doors by analogy. However, the direct application field given in Chapter 13 is not valid for horizontal doors.

This standard does not include requirements of mechanical adaptability like shock test or endurance test. Such tests are included in relevant product standards.

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----