

ICS 13.220.50
CCS C 82



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

GB/T 9978.7-2008

**Fire-resistance tests -- Elements of building construction -- Part
7: Specific requirements for columns**

建筑构件耐火试验方法 第7部分：柱的特殊要求

(English Translation)

Issued on: June 26, 2008

Implemented on: March 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Symbols and abbreviations	
5 Test apparatus	
6 Test conditions	
7 Specimen preparation	
8 Instrument	
9 Test Method	
10 Criteria	
11 Test the effectiveness of	
Test results are shown 5	
13 Test Report	
Appendix A (informative) Test methods General guidelines	

Foreword

GB/T 9978 "building components resistance test methods" is expected to be divided into several parts as follows.

- Part 1. General requirements;
- Part 2. fire resistance test furnace calibration;
- Part 3. Test methods and test data application notes;
- Part 4. load-bearing vertical partition member of the special requirements;
- Part 5. horizontal load-bearing partition member of the special requirements;
- Part 6. Particular requirements for the beam;
- Part 7. Particular requirements for the column;
- Part 8. Particular requirements for non-load-bearing vertical partition member;
- Part 9. Particular requirements for non-load-bearing ceiling member;

This section GB/T 9978 Part 7.

The partial modification of the use of ISO 834-7:2000 "Fire resistance tests for building elements - Part 7. Particular requirements for columns" (in English).

This section according to ISO 834-7:2000 redrafted. Appendix A, Appendix B to ISO 834-7:2000 original Appendix and Appendix C lists no part reg and present ISO 834-7:2000 reg control list numbered.

Adopting ISO 834-7:2000 when this part has made several modifications. About the technical differences have been incorporated into the body and they are involved the terms of the margin identified by a single vertical line. We give a list of these technical differences and their causes in Appendix D, for reference.

Corresponding to ISO 834-7:2000, this section also made the following editorial changes.

--- "This part of ISO 834" was changed to "GB/T 9978 to the present section";

--- With a decimal point instead of a comma as the decimal point, ",";

--- Remove the foreword and introduction of international standards.

This section of the Appendix A, Appendix B, Appendix C, Appendix D are informative appendices.

This section presents the People's Republic of China Ministry of Public Security.

This part of the National Standardization Technical Committee on Fire Building Fire Resistance member Technical Committee (SAC/TC113/SC8) centralized.

This section is drafted. Tianjin Fire Research Institute of Ministry of Public Security.

1 Scope

This section GB/T 9978 specifies the test procedures to determine the fire resistance of the column members.

Column during the fire resistance test all axial side are subject to fire, when the actual face by the fire less than four, should be re-determine the appropriate test condition.

When untested structural building elements eligible direct application of this section gives the provisions of this section have been made according to the provisions of Element fire Fire Test performance results can be applied to similar building components untested.

Appendix A provides general guidance of the test method.

2 Normative references

The following documents contain provisions which, through reference to GB/T 9978 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this

section. However, under this part are encouraged to reach Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 5907 basic fire Terminology Part 1)

1) This standard will be revised in the integration of GB/T 5907-1986, GB/T 14107-1993 and GB/T 16283-1996 based on the "Fire Vocabulary" as the general title, is divided into five sections. Wherein, Part 2 GB/T 5907.2 "Fire Vocabulary - Part 2. Fire Safety Vocabulary" will modify the use of ISO 13943:2000.

GB/T 9978.1 building components resistance test methods - Part 1. General requirements (GB/T 9978.1-2008, ISO 834-1:1999, MOD)

3 Terms and Definitions

GB/T 5907 and GB/T 9978.1 and established the following terms and definitions apply to this section.

Vertical partition for non-load-bearing building components.

From the vertical center axis of the column points to the distance of the carrier.

Between the ends and means for loading the column, ensure the correct applied load plates.

4 Symbols and Abbreviations

Symbols and abbreviations GB/T 9978.1 regulations apply to this section.