
**Fire-resistance tests — Elements of
building construction —**

**Part 8:
Specific requirements for non-loadbearing
vertical separating elements**

Essais de résistance au feu — Éléments de construction —

*Partie 8: Exigences spécifiques relatives aux éléments verticaux de
séparation non porteurs*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 834 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 834-8 was prepared by Technical Committee ISO/TC 92, *Fire safety*, Subcommittee SC 2, *Fire containment*.

ISO 834 consists of the following parts, under the general title *Fire-resistance tests — Elements of building construction*:

- *Part 1: General requirements*
- *Part 3: Commentary on test method and test data application*
- *Part 4: Specific requirements for loadbearing vertical separating elements*
- *Part 5: Specific requirements for loadbearing horizontal separating elements*
- *Part 6: Specific requirements for beams*
- *Part 7: Specific requirements for columns*
- *Part 8: Specific requirements for non-loadbearing vertical separating elements*
- *Part 9: Specific requirements for non-loadbearing ceiling elements*

Annex A of this part of ISO 834 is for information only.

Introduction

This document contains specific requirements for fire resistance testing which are unique to the elements of building construction described as vertical separating non-loadbearing elements. The requirements for these non-loadbearing elements are intended to be applied in appropriate conjunction with the detailed and general requirements contained in Part 1 of this International Standard (ISO 834-1).

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Fire-resistance tests — Elements of building construction —

Part 8:

Specific requirements for non-loadbearing vertical separating elements

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 testing and disposal of test residues.

An assessment of all potential hazards and risks to health shall be made and safety precautions shall be identified and provided. Written safety instructions shall be issued. Appropriate training shall be given to relevant personnel. Laboratory personnel shall ensure that they follow written safety instructions at all times.

1 Scope

This part of ISO 834 specifies the procedures to be followed for determining the fire resistance of non-loadbearing vertical separating elements when exposed to heating on one face.

The test is neither appropriate for the evaluation of curtain walls (non-loadbearing external walls suspended from the ends of floor slabs) nor for walls containing doors or glazing. For tests of walls containing doors refer to ISO 3008^[2]. For tests of walls containing glazing refer to ISO 3009^[3].

The application of this test to other untested forms of construction is acceptable when the construction complies with the direct field of application as given in this document or when it is subjected to a field of extended application analysis in accordance with ISO/TR 12470^[4].

NOTE Since ISO/TR 12470 gives only general guidelines, specific extended application analyses are to be performed only by persons expert in fire resistant constructions.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 834. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 834 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 834-1, *Fire-resistance tests — Elements of building construction — Part 1: General requirements*

ISO 13943, *Fire safety — Vocabulary*