International Standard

ISO 3008-1

Fire resistance tests — Door and shutter assemblies —

Part 1: General requirements

Essais de résistance au feu — Assemblages de portes et volets —

Partie 1: Exigences générales

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 92, *Fire safety*, Subcommittee SC 2, *Fire resistance*.

This second edition of ISO 3008-1 cancels and replaces the first edition of ISO 3008-1:2019, which has been technically revised.

The following main changes have been made:

— a new normative Annex C has been added;

— openable windows are now included in the Scope;

— revisions have been made to locations and measuring techniques for unexposed surface temperature measurements and preconditioning requirements for door and shutter assemblies.

A list of all the parts in the ISO 3008 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document contains specific requirements for fire-resistance testing which are unique to the elements of building construction described as doors and shutters. The requirements for these doors and shutters are intended to be applied in appropriate conjunction with the detailed and general requirements contained in ISO 834-1.

Fire resistance tests — Door and shutter assemblies —

Part 1: General requirements

CAUTION — The attention of all persons concerned with managing and carrying out this fire-resistance test is drawn to the fact that fire testing can be hazardous and that there is a possibility of toxic and/or harmful smoke and gases being evolved during the test. Mechanical and operational hazards can 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 document, used in conjunction with ISO 834-1, specifies a method for determining the fire resistance of door and shutter assemblies designed primarily for installation within openings incorporated in vertical separating elements, such as:

— hinged and pivoted doors,

— horizontally sliding and vertically sliding doors, including articulated sliding doors and sectional doors,

— steel single-skin folding shutters (un-insulated),

— other sliding, folding doors,

— tilting doors,

— rolling shutter doors,

— removable panels in walls,

— self-closing openable windows.

Requirements are included for mechanical pre-conditioning, e.g. “cycling” of door and shutter assemblies prior to the conduct of the fire-resistance test.

This document does not cover:

— Lift landing doors which are tested in accordance with ISO 3008-2.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 834-1:2025, *Fire-resistance tests — Elements of building construction — Part 1: General requirements*

ISO 834-8, *Fire-resistance tests — Elements of building construction — Part 8: Specific requirements for non-loadbearing vertical separating elements*