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SIST ISO 5925-1:2018
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Dimotesna vrata, sklopi zapiral in samozapiralni zastekljeni elementi - Preskusi tesnosti pri sobni in srednji temperaturi (ISO 5925:2025)

Smoke-control door, shutter assemblies and self-closing glazed elements — Ambient-temperature and medium-temperature leakage tests (ISO 5925:2025)

Titre manque (ISO 5925:2025)

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Smoke-control door, shutter assemblies and self-closing glazed elements — Ambient-temperature and medium-temperature leakage tests

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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 third edition cancels and replaces the second edition (ISO 5925-1:2007), which has been technically revised. It also incorporates ISO/TR 5925-2:2006 and the Amendment ISO 5925-1:2007/Amd 1:2015.

The main changes are as follows:

— the content of ISO/TR 5925-2 has been included as a new informative Annex C;

— a tolerance for average air temperature in the medium-temperature test has been added;

— self-closing operable glazed elements have been added to the Scope;

— the option to conduct both medium-temperature tests on the same specimen has been added;

— requirements to reduce the effects of water evaporating from walls containing moisture have been added;

— a requirement to determine whether the door can be opened without tools after the test has been added;

— a requirement for an outlet valve to be opened during the heat up and stabilization period has been added.

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 has been prepared to provide a test method for determining the smoke leakage through door and shutter assemblies. It is part of a group of International Standards dealing with fire doors, e.g. the ISO 3008 series.

Annex A includes a brief explanation of the test and Annex B describes the test apparatus.

Additional requirements for the installation and use of smoke-control door and shutter assemblies can be found in other International Standards and national regulations.

Smoke-control door, shutter assemblies and self-closing glazed elements — Ambient-temperature and medium-temperature leakage tests

1 Scope

This document describes a test that determines the rate of leakage of ambient (cold) and medium (warm) temperature smoke from one side of door and shutter assemblies to the other under the specified test conditions. This test method is applicable to door and shutter assemblies and self-closing operable glazed elements of different configurations intended for the purpose of controlling the passage of smoke in case of fire. Wherever door and shutter assemblies are referred to in this document, it also applies to self-closing glazed elements. The fire resistance of glazed elements is determined by tests in accordance with ISO 3009.

The acceptable leakage rates for different situations are not addressed in this document, but rather are specified by the regulations of the controlling authorities.

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
door and shutter assembly
complete assembly, including any frame or guide, door leaf or leaves, rolling or folding curtain, etc., which is provided for closing of permanent openings in separating elements

Note 1 to entry: This includes all side-panels, vision panels or transom panels, grilles and louvers together with door hardware, and any fire seals, smoke seals, draught seals and acoustic seals which are used in the assembly.

3.2
fire door
door or shutter assembly capable of maintaining for a specified period some, or all of the fire resistance criteria defined in ISO 3008-1, as appropriate for the door in use

3.3
smoke-control door and shutter assembly
door and shutter assembly (3.1) that, when in a closed position, has the function of restricting the passage of smoke to prescribed limits