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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 41480-2022

Smoke leakage tests for door and shutter assemblies

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is revised and adopted ISO 5925-1.2007 "Fire resistance test for smoke doors and shutters - Part 1.Air leakage test at normal and medium temperature".

Compared with ISO 5925-1.2007, this document has more structural adjustments. Comparison list of structure number changes between two files

See Appendix A for the table.

Compared with ISO 5925-1.2007, there are many technical differences in this document.

A single line ( ) is marked. See Appendix B for a list of these technical differences and their reasons.

The following editorial changes have been made to this document.

--- In order to harmonize with existing standards, the name of the standard is changed to "Test Methods for Smoke-Proof Performance of Doors and Rolling Shutters";

--- Incorporated the amendments to ISO 5925-1.2007/Amd.1.2015, and the outer margins of the clauses involved use vertical

A straight double line (||) is marked;

--- Added Appendix A (informative) "This document and ISO 5925-1.2007 structure number comparison list";

--- Added Appendix B (informative) "List of technical differences between this document and ISO 5925-1.2007 and their reasons".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

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1 Scope

This document specifies the measurement of normal temperature (cold) flue gas and medium temperature (hot) flue gas from a door or rolling shutter under the specified test temperature and differential pressure conditions.

Test method for the rate of flue gas leakage from side to side.

This document is applicable to smoke leakage rate testing of doors and roller shutters of various structures that impede the spread of fire smoke.

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2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

GB/T 5907.5 Fire Fighting Vocabulary Part 5.Fire Fighting Products

GB/T 7633 Fire resistance test method for doors and shutters (GB/T 7633-2008, ISO 3008.2007, MOD)

GB/T 9978.1 Fire resistance test method for building components Part 1.General requirements (GB/T 9978.1-2008, ISO 834-1.

1999, MOD)

3 Terms and Definitions

GB/T 5907.5, GB/T 7633, GB/T 9978.1 and the following terms and definitions apply to this document.

3.1

ambienttemperature

The average air temperature is the ambient temperature of (20+/-10)°C.

3.2

mediumtemperature

The average air temperature is the ambient temperature of (200 +/- 20) °C.

3.3

Smoke leak smokeleakage

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Flue gas leakage rate around a closed door or shutter at standard temperature and pressure.

Note. The amount of smoke leakage is represented by the symbol qa, and the unit is cubic meters per hour (m3/h).

3.4

Differentialpressure

During the test, the static pressure difference between the inside and outside of the test device (that is, on both sides of the door or shutter in the closed state).

Note. The pressure is represented by the symbol p, and the unit is Pascal (Pa).

3.5

standard state

Dry air is in the state of temperature 20°C and pressure 101325Pa.

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