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**Houses — Description of  
performance —**

**Part 4:  
Fire safety**

*Constructions d'habitation — Description des performances —  
Partie 4: Sécurité au feu*





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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 documents 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 59, *Buildings and civil engineering works*, Subcommittee SC 15, *Framework for the description of housing performance*.

This second edition cancels and replaces the first edition (ISO 15928-4:2011), of which it constitutes a minor revision.

The main changes compared to the previous edition are as follows:

- [3.4](#), [3.9](#), [4.2](#), [5.3](#), [A.4.2](#), [A.4.3](#), [A.5.1.2](#), [A.5.4](#) and Bibliography have been revised;
- in this Foreword, the name of SC 15 has been changed to a new one.

A list of all parts in the ISO 15928 series can be found on the ISO website.

## Introduction

This document is one of a series under the general title *Houses — Description of performance*. The objective of this series is to identify the methods used to describe the performance of houses. The ISO 15928 series is confined to buildings occupied for residential purposes that may be separated or linked horizontally, but not linked vertically, and which have their own access and do not share any common space.

Each part of the ISO 15928 series relates to a separate attribute. The parts of ISO 15928 do not specify levels of performance and they are not intended to replace national standards or regulations, but to provide a standardized framework to enable the development of national standards and regulations in accordance with World Trade Organization (WTO) requirements. The parts of ISO 15928 do not provide design methods and/or design criteria.

Based on the framework provided by the ISO 15928 series, purchasers, regulators and standards writers in their respective countries can describe their requirements in standardized performance terms, as appropriate. Additionally, the manufacturers/providers can respond by describing the performance of their products in a similar manner. The purpose of this document is to provide a standardized system of describing performance that can be used to specify performance requirements and performance levels, or to rate houses in terms of fire safety.

NOTE 1 The WTO *Agreement on technical barriers to trade*, Clause 2.8, states: “Whenever appropriate, members shall specify technical regulations based on product requirements in terms of performance rather than design or descriptive characteristics”.

NOTE 2 [Annex A](#) provides a commentary on this document.



# Houses — Description of performance —

## Part 4: Fire safety

### 1 Scope

This document sets out a method for describing the fire safety performance of houses. It covers user needs, provides performance descriptions, and outlines evaluation processes. It includes the description of relevant parameters for early warning, fire suppression, fire containment, means of escape, control of structural behaviour, and emission and spread of fire effluent.

This document is intended for use in the evaluation of the design and construction of houses, in the international trading of houses or their sub-systems, and in developing risk-management tools for the protection of houses. It does not specify a level of performance and it is not intended to provide a design method and/or criteria.

This document does not cover the performance of houses exposed to wild fire.

NOTE 1 Structural safety and other performance attributes of a house are covered in other parts of the ISO 15928 series.

NOTE 2 The emission of smoke and hot gases from contents in the house when ignited can impact the fire safety performance of a house, but the type or nature of such contents brought into the house is not the subject of the evaluation process.

NOTE 3 The term “wild fire” is used to mean the concept of wild land fire, bush fire and unplanned burning in vegetative fuels, etc.

### 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 6707-1, *Buildings and civil engineering works — Vocabulary — Part 1: General terms*

ISO 8421 (all parts), *Fire protection — Vocabulary*

ISO 13943, *Fire safety — Vocabulary*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6707-1, ISO 13943 and ISO 8421 (all parts) and the following apply.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>