
**Houses — Description of performance —
Part 3:
Structural durability**

*Constructions d'habitation — Description des performances —
Partie 3: Durabilité de la structure*



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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 15928-3 was prepared by Technical Committee ISO/TC 59, *Building construction*, Subcommittee SC 15, *Performance criteria for single family attached and detached dwellings*.

ISO 15928 consists of the following parts, under the general title *Houses — Description of performance*:

- *Part 1: Structural safety*
- *Part 2: Structural serviceability*
- *Part 3: Structural durability*
- *Part 4: Fire safety*

Introduction

This part of ISO 15928 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. Each part of ISO 15928 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 ISO 15928 (all parts), purchasers, regulators and standard writers in their respective countries can describe their requirements in standardized performance terms. Additionally, the manufacturers/providers can respond by describing the performance of their products in a similar manner. The purpose of ISO 15928 (all parts) is to provide a standardized system that can be used to specify performance requirements and performance levels or to rate housing products.

NOTE 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”.

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Houses — Description of performance —

Part 3: Structural durability

1 Scope

This part of ISO 15928 sets out a method for describing the structural durability performance of houses. It covers the needs of the user, provides performance descriptions, establishes parameter descriptions and outlines evaluation processes.

This part of ISO 15928 is intended for use in the evaluation of the design and construction of houses, in the international trading of houses or their subsystems and in developing quality systems for houses.

This part of ISO 15928 does not apply to structural safety, serviceability or other attributes, which are covered in other parts of ISO 15928.

2 Normative references

The following referenced documents are indispensable for the application 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 2394, *General principles on reliability for structures*

ISO 15928-1, *Houses — Description of performance — Part 1: Structural safety*

ISO 15928-2, *Houses — Description of performance — Part 2: Structural serviceability*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 2394 and the following apply.

3.1

house

building occupied for residential purposes, which may be separated or linked horizontally, but not linked vertically to another, which has its own access and which does not share any common space with another

3.2

parameters

(structural durability) group of variables used to quantitatively describe the structural durability performance

3.3

performance

behaviour of houses related to users' needs