
International Standard



6240

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Performance standards in building — Contents and presentation

Normes de performance dans le bâtiment — Contenu et présentation

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6240 was developed by Technical Committee ISO/TC 59, *Building construction*, and was circulated to the member bodies in November 1978.

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It has been approved by the member bodies of the following countries :

Australia	Germany, F. R.	Norway
Belgium	Hungary	Poland
Canada	Ireland	Romania
Cyprus	Israel	South Africa, Rep. of
Czechoslovakia	Italy	Spain
Denmark	Japan	Sweden
Ethiopia	Korea, Rep. of	Turkey
Finland	Netherlands	United Kingdom
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No member body expressed disapproval of the document.



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ERRATUM

Page 1

Clause 0, fifth line, “clause 2 below” should read “clause 1 below”.

Page 2

The International Standard reference at the top of the page should read “ISO 6240-1980 (E)”.

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0 Introduction

This International Standard has a particularly wide range of applications within the standards field, as well as a number of further potential applications to building documents incorporating performance statements; these are described formally in clause 2 below. Its application extends to standards that are wide-ranging in scope — covering, for example, groups of products or assemblies of components — as well as to the more customary standards for specific products. Different kinds of information on performance will be required in these different “levels” of standards, and this International Standard is intended to provide a broad, common basis of headings and sequence for arranging this information.

The scope of the information to be given will also vary depending on whether the standard being drafted

- a) covers all relevant aspects of the performance of a component or assembly, i.e. forms a comprehensive performance specification or statement;
- b) is restricted to one or a limited number of performance attributes, or
- c) includes both performance requirements and other types of requirement, for example for aspects of material or construction.

The detailed guidance in this International Standard relates to comprehensive standards written in performance terms only [paragraph a) above]. A measure of selection or interpretation will be required to determine which aspects of the guidance apply to standards of the other types [paragraphs b) and c) above].

1 Scope and field of application

This International Standard specifies the basic contents to be included in performance standards for building components and assemblies, and indicates a standard order for their inclusion.

It is intended primarily for use by standards committees preparing performance standards for building components and assemblies.

It should also be useful for the preparation of other types of document, such as :

- a) statements of required performance in building regulations and other statutory documents;
- b) statements of required or achieved performance in guidance documents for building designers;
- c) statements of required or achieved performance in contract documents for purchasing components;
- d) statements of required or achieved performance in briefs and contract documents for the construction of buildings as a whole;
- e) statements of achieved performance in descriptive documents about manufacturers’ products.

NOTE — A document covering preparation of performance standards in building has been submitted for testing to the sub-committees and ISO technical committees concerned.

2 Reference

When International Standards are being produced, reference should be made to the Directives for the Technical work of ISO, Part 3 : *Presentation of International Standards*, whose recommendations for general layout should also be followed.

3 Definitions

For the purposes of this International Standard, the following definitions apply :

- 3.1 component** : A product manufactured as a distinct unit to serve a specific function (or functions).
- 3.2 assembly** : An aggregate of components used together.
- 3.3 performance** : (The) behaviour (of a product) related to use.

4 Clauses for inclusion in performance standards

4.1 "Scope"

Give the name of, or otherwise identify, the component or assembly which is the subject of the standard.

4.2 "Field of application"

Define the intended uses of the standard itself, and of the component or assembly which is its subject. Sufficient indication of any related uses to which they are only partially applicable should also be given in this clause.

4.3 "References"

Refer to the other relevant standards and documents regarding applications.

4.4 "Definitions"

Define all specialized terms used in the standard, following relevant International Standards.

4.5 "Purpose and context of use"

4.5.1 Describe the role that the component or assembly is intended to play in satisfying applicable functional requirements, either solely or in combination with other parts of construction.

4.5.2 Indicate the agents relevant to the performance of the component or assembly (for example the agents or actions to which it may be subjected, or which it may generate under the intended service conditions or range of conditions).

The factors shall be expressed quantitatively, and in accordance with International Standards on means of expression, where applicable.

4.6 "Performance requirements"

Performance requirements must be listed for final use in the building and, if necessary, for supply, transport, intermediate storage, handling and installation, in accordance with any order recommended in applicable International Standard or Guides. A distinction may need to be drawn between those requirements which always apply and those which apply only in certain circumstances, according to the purpose and context(s) of use stated under 4.5.

Each performance requirement must be defined (4.6.1) and then each requirement must have specified methods of assessment or verification (4.6.2) and performance values (4.6.3), together with a commentary (4.6.4), if appropriate.

4.6.1 "Definition of performance"

Define each performance requirement in terms of a function which is to be fulfilled, together with the physical or chemical property or properties on which assessment or verification will be based. Use terms and expressions capable of quantification and in accordance with any applicable International Standards.

NOTE — It may be necessary to define properties that a component or assembly shall NOT possess, for example unacceptable side-effects.

4.6.2 "Methods of assessment or verification"

For each performance requirement, describe fully or cross-refer to :

- a) the means (measurement, calculation, test or method of examination) by which the achieved performance of the component or assembly will be assessed or verified; and
- b) the means of predicting the performance over time of the component or assembly.

Cross-references should be to International Standards where possible.

4.6.3 "Performance values"

For each performance requirement, state upper and lower limits to the range of acceptable performance values or grades, against which the achieved performance of any particular component or assembly will be required to be stated.

Indicate the relationship of the values or grades to the purpose and context(s) of use stated under 4.5, giving appropriate increments for the selection of specific values.

4.6.4 "Commentary"

Give any observations, examples or data that may assist understanding.

4.7 "Description of achieved performance"

State any requirements for the description (for example by manufacturers) of the achieved performance of products complying with the standard.

4.8 "Applicability to certification"

Give details of the standard's applicability to certification, making reference as necessary to quality control procedures, marking, etc.

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