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**Buildings and constructed assets —  
Service life planning —**

**Part 7:  
Performance evaluation for feedback of  
service life data from practice**

*Bâtiments et biens immobiliers construits — Prévision de la durée de  
vie —*

*Partie 7: Évaluation de la performance de l'information en retour relative  
à la durée de vie, issue de la pratique*



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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 15686-7 was prepared by Technical Committee ISO/TC 59, *Building construction*, Subcommittee SC 14, *Design life*.

ISO 15686 consists of the following parts, under the general title *Buildings and constructed assets — Service life planning*:

- *Part 1: General principles*
- *Part 2: Service life prediction procedures*
- *Part 3: Performance audits and reviews*
- *Part 5: Whole life costing*
- *Part 6: Procedures for considering environmental impacts*
- *Part 7: Performance evaluation for feedback of service life data from practice*
- *Part 8: Reference service life*

## Introduction

ISO 15686, with the general title *Buildings and constructed assets — Service life planning*, of which this document is Part 7, is an important contribution to the development of a policy for design life. A major impetus for the preparation of the parts of ISO 15686 is the current concern over the inability to predict service life, costs of ownership and maintenance of buildings and constructed assets. Common methods and standards for performance assessment and proper feedback of data from practice are decisive in order to make experience data from the building stock consistent and comparable. The purpose of this part of ISO 15686 is therefore to describe the principles for service life performance surveys and evaluation with an emphasis on technical recommendations. It aims to describe a generic methodology, including the terms to be used, that provide guidance on the planning, documentation and inspection phases, as well as on analysis and interpretation of performance evaluations, both on the object (single building) and network (stock of buildings) level. Maintenance planning is outside the scope of this part of ISO 15686.

ISO 15686-7 is intended for all members of a building team, i.e. building owners and developers, professional advisors, constructors, assessors, manufacturers of building products, managers of both publicly and privately owned constructed assets.

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# Buildings and constructed assets — Service life planning —

## Part 7:

## Performance evaluation for feedback of service life data from practice

### 1 Scope

This part of ISO 15686 provides a generic basis for performance evaluation for feedback of service life data from existing buildings and constructed assets, including a definition of the terms to be used and the description of how the (technical) performance can be described and documented to ensure consistencies.

### 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 6241:1984, *Performance standards in building — Principles for their preparation and factors to be considered*

ISO 15686-1:2000, *Buildings and constructed assets — Service life planning — Part 1: General principles*

ISO 15686-2:2001, *Buildings and constructed assets — Service life planning — Part 2: Service life prediction procedures*

ISO 15686-8:—<sup>1)</sup>, *Buildings and constructed assets — Service life planning — Part 8: Reference service life*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15686-1, ISO 15686-2 and the following apply.

#### 3.1

##### **consequence degree**

expression of the seriousness of consequences in relation to a defined reference level

#### 3.2

##### **network level**

stock of objects (facilities, e.g. bridges, tunnels, power plants, buildings) under management and maintenance of an owner

1) In preparation.