

Buildings and constructed assets — Service life planning —

Part 6: Procedures for considering environmental impacts

ICS 91.040.01

National foreword

This British Standard reproduces verbatim ISO 15686-6:2004 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee B/500/3, Durability, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

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Buildings and constructed assets — Service life planning —

Part 6: Procedures for considering environmental impacts

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

Partie 6: Procédés pour la considération d'effets sur l'environnement



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Foreword

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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 15686-6 was prepared by Technical Committee ISO/TC 59, *Building construction*, Subcommittee SC 14, *Design life*.

It is closely related to standards in the ISO 14000 series (environmental management). While it does not conflict with these, it complements them by describing how environmental management standards, especially ISO 14040, may be implemented in the context of ISO 15686.

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 existing construction works*
- *Part 8: Reference service life*

Part 4 is under preparation.

Introduction

Buildings and other constructed assets will require care from the initial proposal through to design, construction, operation, maintenance and disposal if they are to meet the required levels of performance. ISO 15686-1 and ISO 15686-2 explain the principles of service life planning (SLP) for different types of constructed assets, components and assemblies. This part of ISO 15686 defines how and when to include environmental aspects into the design of a constructed asset. It provides a procedure for assessing the relative environmental impacts of design options and it identifies the interface between environmental life cycle assessment (LCA) and SLP. The approach allows for consistent comparisons to be made between two or more design options taking the relevant factors from SLP into account.

The target audience for this part of ISO 15686 includes the client, design professionals and consultants, and the entire decision supply chain represented in the design team. It will also be relevant to stakeholders and specialists providing information on service life and on environmental impacts.