

ISO 15686

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ISO 15686 is the in development ISO standard dealing with service life planning. is a decision process which addresses the development of the service life of a building component, building or other constructed work like a bridge or tunnel. Its approach is to ensure a proposed design life has a structured response in establishing its service life normally from a reference or estimated service life framework. Then in turn secure a life-cycle cost profile (or wholelife costing when called for) whilst addressing environmental factors like life cycle assessment and service life care and end of life considerations including obsolescence and embodied energy recovery. Service life planning is increasingly being linked with sustainable development and wholelife value.

The objective of service life planning is to provide reasonable assurance that the estimated service life of a new building on a specific site, with planned maintenance, will be at least as long as the design. Service life planning facilitates the making of well-informed decisions regarding value engineering, cost planning, maintenance planning, and environmental impact. As service life cannot be estimated precisely, the objective requires the making of an appropriately reliable estimate of the service life of the building using available knowledge relating to the service life of each material, component, assembly, and system that is to be used in the building.

If the estimated service life of any of these is likely to be less than the design life of the building, a decision should be made as to whether maintenance, repair, or replacement could ensure that its essential functions could be adequately maintained. To assist with specification and design, and avoidance of obsolescence and waste, service life planning may include projections of the needs for, and timing of replacement and end of life recovery.

15686 for service life planning is being prepared by Technical Committee ISO/TC 59, Building construction - Subcommittee SC 14, Design life.

List of sub standards

1. ISO 15686-1 Buildings and constructed assets - Service life planning: Part 1: General principles
2. ISO 15686-2 Buildings and constructed assets - Service life planning: Part 2, Service life prediction procedures
3. ISO 15686-3 Buildings and constructed assets - Service life planning: Part 3, Performance audits and reviews
4. ISO 15686-4 Buildings and constructed assets - Service life planning: Part 4, Data dictionary (Technical Report)
5. ISO 15686-5 Buildings and constructed assets - Service life planning: Part 5, Whole-life costing
6. ISO 15686-6 Buildings and constructed assets - Service life planning: Part 6, Procedures for considering environmental impacts
7. ISO 15686-7 Buildings and constructed assets - Service life planning: Part 7, Performance evaluation for feedback of service life data from practise
8. ISO 15686-8 Buildings and constructed assets - Service life planning: Part 8, Reference service life
9. ISO 15686-9 Buildings and constructed assets - Service life planning: Part 9, Guide on service life declarations for building products
10. ISO 15686-10 Buildings and constructed assets - Service life planning: Part 10, serviceability
11. ISO 15686-11 Buildings and constructed assets - Service life planning: Part 11, Terminology

Further developments

- Parts 1-3 have been published whilst parts 5-8 are at an advance stage of completion (to be published in 2006).
- Serviceability and Functional Requirements are also likely to be included during 2006.
- Further information may be obtained from ISO Geneva or BSI Chiswick London.

External links

- CIB W80 (<http://irc.nrc-cnrc.gc.ca/cibw80/>)

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