

ISO 15686-7:2017-04 (E)

Buildings and constructed assets - Service life planning - Part 7: Performance evaluation for feedback of service life data from practice

| Contents | | Page |
|-----------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Methodological framework | 3 |
| 4.1 | Service life planning | 3 |
| 4.2 | Performance assessment of service life in the course of the construction life cycle | 4 |
| 4.2.1 | Relation to service life design and reference service life (RSL) | 4 |
| 4.2.2 | Life cycle performance of construction | 5 |
| 5 | Performance surveys | 7 |
| 5.1 | General | 7 |
| 5.2 | Registration level and user-oriented types of inspection | 8 |
| 5.3 | Phases and activities in the performance survey | 9 |
| 5.3.1 | General overview | 9 |
| 5.3.2 | Defining the task | 10 |
| 5.3.3 | Planning | 11 |
| 5.3.4 | Examination | 12 |
| 5.3.5 | Evaluation | 14 |
| 5.3.6 | Reporting | 17 |
| Annex A (informative) | Guidance on Factor E – Environmental classification systems and methods for assessment in microenvironments | 19 |
| Annex B (informative) | Prediction of (residual) service life on the object (single building) level and on the network level (population of buildings) | 24 |
| Annex C (informative) | Prediction of the performance development over time by Markov Chain | 25 |
| Annex D (informative) | Worked example of RSL data records from "Inspection of buildings" | 30 |
| Bibliography | | 33 |