Application of Factor Method to Estimate Service Life of Building Component

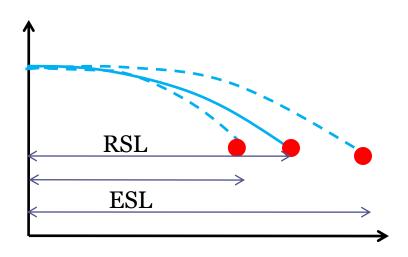
Case 1: Building exposed to severe weather

Case 2: Effect of coating on service life of concrete façade

Case 3: Toward general application of factor method

Factor Method

- The Factor Method as used in ISO 15686-1 is used to modify an RSL to obtain an estimated service life (ESL) of the components of a design object.
- ESL = RSL *A *B * C * D * E * F * G where:
 - A. Quality of component
 - B. Design level
 - C. Work execution level
 - D. Indoor environment
 - E. Outdoor environment
 - F. In use condition
 - G. Maintenance level



Requirements for application

- Determining RSL:
 - asumption, accelerated test, data base, experiences, manufacture data sheet, etc
- Determining the values of factor A-G. identification of exposure condition dan material deterioration

Examples the Use of Factor Method

- Case 1 <u>Building exposed to severe weather.pdf</u>
- Case 2 Effect of coating on service life concrete facade.pdf
- Case 3 Toward general application of factor method.pdf