



CIB NEWS ARTICLE

International Council for Research and Innovation
in Building and Construction

Providing a global network for international exchange and cooperation in research and innovation in building and construction, in support of an improved building process and of improved performance of the built environment.

March 2006

New Publication

W080 – Prediction of Service Life of Building Materials and Components

Failure Modes, Effects and Criticality Analysis

Research for and Application to the Building Domain

CIB Publication No. 310

ISBN Number 90-6363-052-2

Editors

A. Tallon, J-L Chevallier, J. Hans



Summary

This report presents a state-of-the-art regarding research on Failure Modes, Effects and Criticality Analysis (FMECA) for and application to the building domain.

The report provides an overview of different approaches adopted in research, offers examples of applications and identifies organisations and individuals working on FMEA and FMECA.

By presenting several research studies and applications to the building domain, this document underscores the evident usefulness of FMEA and FMECA methods and thus helps foster and encourage

future developments and new applications of these methods.

A selection of published papers and previously unpublished reports pertinent to this report have been included in the appendices. A comprehensive bibliography that includes papers, reports and related work documents is also provided.

Target Group

The report will be of interest to practitioners in building engineering and maintenance management having interest in the use of service life data as well as experts focusing on evaluating new and innovative building materials and components, and researchers wishing to become familiar with this rapidly evolving domain.



Format

Electronic, illustrated, pages 246.

Free Downloadable at

http://cibworld.xs4all.nl/dl/publications/CIBW80_FMEA.pdf