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SUMMARY

Basic design decisions can have a considerable effect on the overall buildability and cost of a building. The right choices can help to reduce conflict in the design and construction process, and to reduce the likelihood of expensive remedial work. Focusing on modern commercial and industrial buildings, this publication provides advice to help the designer make the right choices.

Before commencing a design, it is essential that due attention is paid to planning. The first part of the publication therefore deals with planning and management issues.

Guidance on the issues to be considered when designing for construction are described, to help the designer choose an appropriate frame layout, and to make decisions concerning more detailed aspects of the frame. This guidance is supported by more extensive information given later in the publication.

In order to make the right design choices, the designer needs an understanding of the construction process. An overview of site practice is therefore included. Details are given of the equipment and techniques which may be used. Specific attention is paid to health and safety issues.

One of the keys to producing an 'efficient' frame design is to pay particular attention to interfaces with other building components. In order to reduce the overall building cost, conflict must be avoided. Extensive guidance on issues to be addressed at interfaces, such as different tolerance requirements, is given.

Finally, a summary of published case studies that provide a portfolio of photographs and descriptions of actual projects is given in an appendix. This appendix includes typical weights for various building forms, and a list of 'common' defects.

Concevoir pour construire

Résumé

Les premières options prises lors de la conception peuvent avoir un effet considérable sur la réalisation et le coût d'une construction. Les bons choix peuvent aider à réduire les conflits entre le processus de conception et le processus de réalisation et réduire les modifications ou changements en cours de construction, qui se révèlent souvent très coûteux. Consacrée essentiellement aux immeubles modernes destinés à des fins industrielles ou commerciales, cette publication est destinée à aider le concepteur à réaliser les bons choix.

Avant d'aborder la conception, il est essentiel de porter attention au planning. La première partie de la publication est consacrée à ce point ainsi qu'au management du projet.

On donne ensuite un certain nombre d'informations permettant au concepteur de choisir les bonnes dispositions et géométries de la structure. Cette partie a pour l'appui des informations approfondies dans la suite de la publication.