



R&D SERVICES FOR BUILDING INFORMATION MODELLING

Ramboll works on developing practices and methods in cooperation with customers to utilise building information models (BIM) in engineering projects.

Building information model

Ramboll is in the front line of developing practices and methods in cooperation with customers to utilise building information models (BIM) for:

- communication between architectural design and structural engineering
- communication between building mechanical design and structural engineering
- getting quantity information for cost calculation
- production planning in steel workshops and element factories
- planning and follow-up of logistics
- planning and management of construction sites
- managing real estates

R&D for Tekla Structures

Tekla Structures is commonly used for modelling steel and concrete building frames. We have imple-

mented several internal as well as customer R&D projects for expanding the capabilities for modelling also other types of structures and improving the productivity of the design work. As an example of these can be mentioned tools for modeling embeds in concrete structures, special steel and wood structure connections and façade structures.

Expanding Tekla Structures features

During R&D work we have expanded Tekla Structures model information content by adding User Defined Attributes for project, part, assembly, cast unit and drawing objects. This attribute data can be used for restoring the customer specific information of structures and transferring information between different parties of building project.

We have created templates for drawing layouts by Template Editor which contain complex object

hierarchy and programming clauses for modifying the information. Template Editor has also been used for challenging reports.

Our developers have programmed Excel reports that convert Tekla Structures text reports into graphically structured documents.

Utilising Tekla Structures Custom component technology for improving modelling productivity is one of our main strenghts. We can now offer also software development services taking advantage of the .NET application programming interface that empower demanding customer solutions.

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