



Turnkey construction of a clinic which provides the highest level of medical care. It is the first passive house clinic project in Europe.

The hospital will have 664 beds and will take care of approximately 33.500 patients each year. The new health facility has ten operating rooms and a so called hybrid operating room, which will have special equipment like a CT and MRI scan.

For the quantity take-off in the tender phase BAM Deutschland AG did setup the core & shell model. During the work planning the designs of the external planners are coordinated with Solibri.

For the scheduling BAM Deutschland split the model according to the cycles of concrete pouring and created a 4D simulation.

At the construction site BIM 360 is implemented for issue management, quality assurance and quality control as well as for construction progress management. With BIM 360 the site managers have the model and all actual plans on their iPad.

The project team is implementing lean methods for the site management and work with subcontractors.

Client:

Zentrale Errichtungsgesellschaft mbH (ZEG) für das Klinikum Frankfurt Höchst

Contractor:

Joint Venture of BAM Deutschland AG (technical) and Max Bögl Stiftung & Co. KG (commercial)

Design Team:

Architect:

HPP Hentrich-Petschnigg&Partner GmbH & co. KG

Mechanical Planner: Götde Ingenieure GmbH

Electrical Planner:

Dr.-Ing. Bernd Kriegel Ingenieure GmbH

Structural Planner:

R&P Ruffert Ingenieurgesellschaft mbH

Building Physics: GN Bauphysik

Passive House Planner: Herz & Lang GmbH

Medical Technology: PL Architekten

Fire Protection Planner: HHP West Beratende Ingenieure GmbH

Acoustic Planner: Goritzka Akustik

Contract value: 195 mn €

Floor area: 79.037 m²

Completion: 02.2019

Key features

- Model-based estimation
- Open BIM coordination with external planners
- 4D simulation
- BIM2Field
 - Issue Management
 - QA/QC
 - Progress management
- Lean Construction