

# Temporary restaurant \"time out\" Cantonal Hospital, Aarau

2020



The new "time out" staff restaurant at the Aarau Cantonal Hospital was built in just eight months. 3D planning and good project management made the fast construction time possible.

## The project

The Cantonal Hospital Aarau is projecting a new building within the existing hospital site, which will replace the existing clinics. Construction activities began in 2019 and will be largely completed by 2023. The existing LeClou staff restaurant will be replaced with a temporary facility designed to operate for 4-5 years.

The new building will be realized between the existing buildings House 1 and House 3. On the 1st floor, the restaurant will offer space for a maximum of 600 people. On the 2nd floor there are storage and ancillary rooms. Below the two main floors are the technical facilities and parking spaces. The building is connected to the neighboring buildings via an elevator in the basement.

## The construction method

The building is a post and beam construction with box girder elements both for the ceiling and for the roof. In the transverse direction of the building, large beams are stretched, which stand on columns anchored in the ground with pile foundations.

The challenge

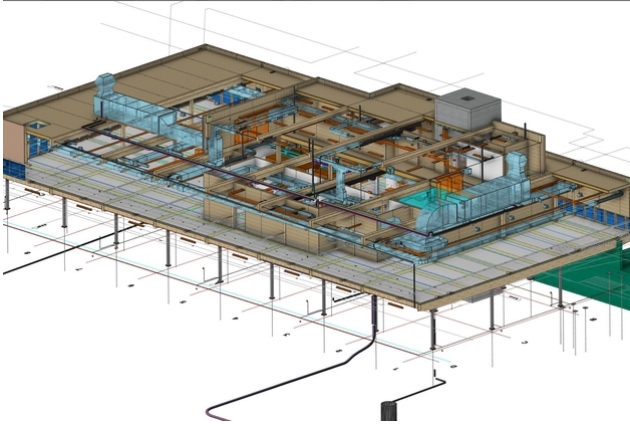
To realize the planning and works design in such a short time was possible thanks to a good cooperation with the timber constructor and the other specialized planners. This was achieved with an automated correx phase with the 3D models. This new matching possibility saves time for the approval. We also started a pilot project with a new tool of the drawing program, where several employees worked simultaneously on the 3D model. This also saved time.



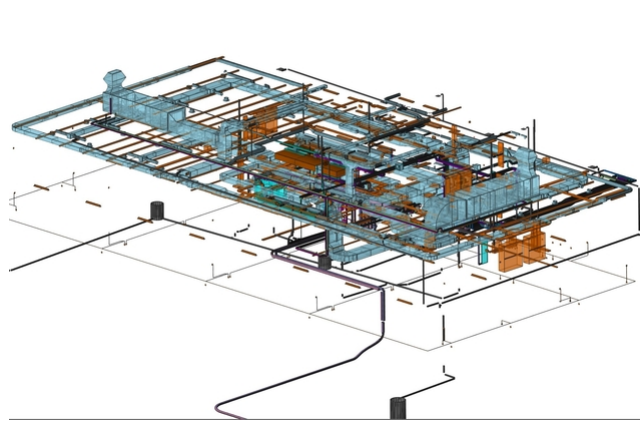
Innenansicht



Innenraum vor Einrichtung



Holzbauplanung und HLKS sind aufeinander abgestimmt



HLKS-Planung im 3-D-Modell

### Construction Data

- hollow box elements 1400 m<sup>2</sup>
- glued laminated timber 150 m<sup>3</sup>
- OSB boards 4500 m<sup>2</sup>

### Construction costs

- BKP 1-9: 6 million francs
- BKP 214: 1
- 1 million francs

### Services of Timbatec

- SIA Phase 31 Preliminary design
- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- SIA Phase 52 Execution
- SIA Phase 53 Commissioning
- Statics and construction
- Fire protection planning
- Fire protection Quality assurance QSS2
- Cost estimation
- Works planning 3D and 2D
- Technical site management and site inspections

### Architect

Erne AG Holzbau, 5080 Laufenburg

### Client

Kantonsspital Aarau AG, 5001 Aarau

### Timber construction engineer

Timbatec Holzbauingenieure Schweiz AG, 8005 Zurich

### Timber construction

Erne AG Holzbau, 5080 Laufenburg

### Civil engineer

STK Bauingenieure AG, 8802 Kilchberg

### Building physics

BAKUS Bauphysik & Akustik GmbH, 8045 Zurich