

Addition of storey, extension Migros, Zofingen

2008



The existing Migros Zofingen building, which was getting on in years, was to be extended.

The project

By moving the restaurant from the first floor to the second floor extension, both the retail space and the restaurant area could be expanded. Timbatec's task was to calculate the structural analysis for the wooden structure on the second floor. The creation of the 3D/2D work planning was also part of the service. The extension was built on top of the existing roof, so the existing column grid on the lower floor had to be taken into account for load transfer. The primary structure was chosen as a truss construction on steel columns.

The construction method

With the desire to achieve the slimmest possible roof structure, the roof was designed as a ribbed structure. The client wanted a long window front in the northeast facade. To meet this wish, this area of the exterior wall had to be designed as a box girder. Furthermore, the details had to be designed in such a way that the main load-bearing structure could move freely from the outer wall. For the remaining walls, the efficient and flexible timber frame construction method was chosen.

The challenge

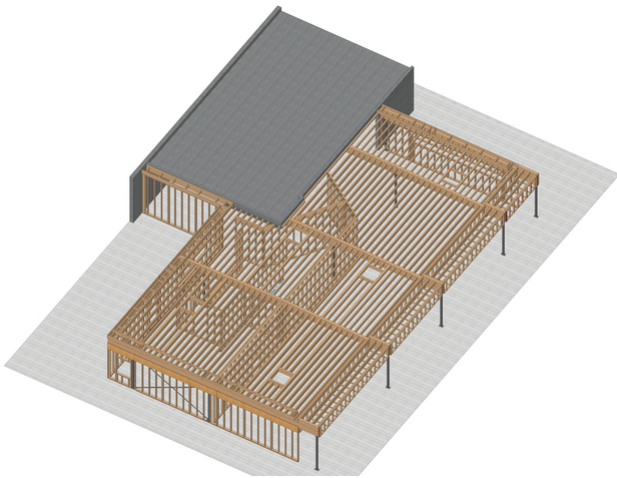
In order to meet the tight schedule, a high degree of prefabrication was aimed for in the planning, which demanded disciplined work from all those involved in the project.



Entrance area restaurant



View increase



Design view 3D



View north side with light band

Construction Data

- Glulam GL24h: 55.6m³
- Structural timber: 43.7 m³
- Three-layer boards 42mm for 712.5m³
- ribbed roof elements
- three-layer panels 27 mm: 111.1m³

Services of Timbatec

- SIA Phase 32 Construction project
- Statics and construction
- SIA Phase 51 Implementation project

Timber construction contractor

Haudenschild Holzbau AG
4704 Niederbipp

Architect

Sulzer + Buzzi Baumanagement
4601 Olten