

# Extension to the Allmend school complex, Oberengstringen

2017



The new building of the Allmend school complex in Oberengstringen not only offers urgently needed classrooms, but also new group rooms that allow contemporary forms of teaching. The new school building was constructed as a hybrid of concrete and wood.

## The project

The existing Allmend school building, built in 1969/1970, had not met the requirements of today's teaching methods for some time. Due to the lack of special rooms, the school repeatedly reached its limits. For this reason, those responsible in the Zurich suburban community, which borders directly on Zurich's city districts 9 and 10, had a three-story extension built. The cubic new building, with a footprint of 25 by 25 meters, has three floors and is designed in such a way that one floor can be added later. In addition to five classrooms and group rooms each, the new building houses, among other things, a lounge with a small kitchen, a conference room and two offices. Each floor is directly connected to the existing school building via a connecting structure.

## The construction method

The school annex was built using a hybrid construction method. Interior walls and ceilings were built in solid construction, the facade is made of wood and is load-bearing. The facade elements were prefabricated and used as supports and stop ends for the concrete slabs during construction. This had the advantage that the timber construction dictated the geometry and thus tolerances and sealing problems between the timber construction and the concrete were not an issue. Consequently, there was no need to match the timber elements to the concrete structure and make them as tight as possible. Rather: With the chosen approach, the concrete adapted to the wood. This meant that the shell construction time was shorter than with a purely solid construction, and the interior work could be started earlier.



Under construction: first the wooden elements were installed, then the ceilings were concreted



The outdoor classroom: outdoor learning



The newly designed surroundings of the school facility in Oberengstringen



More space through slim wooden walls (Photos Gataric Photography)

### Construction Data

- Cross laminated timber
- Facade formwork cedar

### Services of Timbatec

- SIA phase 31 preliminary project
- Cost estimate
- SIA Phase 32 Construction project
- Fire protection planning
- Statics and construction
- Site supervision and site inspections
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project

### Architect

Team 4 Architekten  
8037 Zurich

### Timber construction engineer

Timbatec Holzbauingenieure Schweiz AG, Zurich  
8006 Zurich

### Client

Municipality of Oberengstringen  
8102 Oberengstringen

### Civil engineer

Caprez Ingenieure AG  
8036 Zurich

### Timber constructor

Bühlmann AG  
8953 Dietikon