

Extension elementary school, Stadel

2020



An extension will enable the kindergartens to be integrated into the Stadel elementary school. It creates the required additional space for all children.

The project

Timbatec was responsible for the planning of timber construction, building physics and civil engineering. The two-storey school annex, which was designed so that one storey could be added later, was built in pure timber construction from the floor slab onwards. The facade was also constructed with wooden slats. The staircase including the platform construction was built with encapsulated CLT panels and the staircase was used as a precast concrete element.

The construction

Due to the simply chosen structural system, only the stairwell and exterior walls are load-bearing. All interior walls are non-load-bearing, so that the layout of the classrooms can be designed very flexibly. With the signature ceilings, spans of a good 7 m were created with slim ceilings. These have the advantage of being REI30 on the one hand and a finished ceiling surface with acoustic profiles on the other.

The challenge

The challenge was to cleanly plan and tender the project in the shortest possible time. Due to the fact that Timbatec was responsible for the timber construction as well as for the building physics and civil engineering services, a fast and target-oriented planning was the result.



Construction Data

- Lignature ceilings 250 m²
- CLT panels 23.5 m³
- Solid or glued laminated timber 4.5 m³

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
- Statics and construction
- Technical planning building physics
- cost estimation
- Work planning 3D and 2D
- Technical site supervision and site inspections

Client

Primary school Stadel
8174 Stadel

Architect

DN Architekten GmbH
8004 Zurich

Timber constructionengineer

Timbatec Holzbauingenieure (Schweiz) AG Zurich
8005 Zurich

Timberconstruction

Hector Egger Holzbau AG
4900 Langenthal

Civil engineer

Timbatec Holzbauingenieure (Schweiz) AG Zurich
8005 Zurich

Building physics

Timbatec Holzbauingenieure (Schweiz) AG Zurich
8005 Zurich

Construction management

Walter Müller Baumanagement
8804 Au / ZH

Photography

DN Architekten GmbH
8004 Zurich