

Schoolbuilding, Richterswil

2021



Due to the increasing number of students, the municipality of Richterswil has decided to expand the space available in the Feld 1 school building. This will create an additional 1,542 square meters of space for classrooms, group rooms and a music room.

The project

The school building Feld 1 was put into operation in 1971 and has now reached its capacity limit. The school was therefore extended with two floors. Due to the good design, the structure and floor plan of the lower floors can be taken over. Thanks to the TS3 technology, the rooms are built flexibly, so that the use can be variably adapted to the needs. Due to the wooden construction, the rooms convey a feeling of security and brightness.

The construction method

On top of the existing roof of the school building, a 34 cm thick plywood panel was installed as a load distribution panel. This allows a flexible room layout in the extension, independent of the existing load-bearing structure below. The two-story extension now stands on it. The TS3 technology is used for the load distribution slab, the floor slab and the roof of the extension. The homogeneously connected slabs have a thickness of between 280 and 340 millimeters, depending on the floor, and are up to 13.5 meters long.



Visualization exterior view



Visualization interior

Construction data

- Number of floors: 2
- Gross floor area: 1'757 m²
- Cross laminated timber: 549 m³
- TS3 technology: 540 linear meters

Client

Community Richterswil

Timber engineer

Timbatec Holzbauingenieure Schweiz AG, Zurich

Timber construction

Saxer Holzbau GmbH, Zurich

Construction management

Allreal General Contractor AG, Zurich

CLT manufacturer

Schilliger Holz AG, Küssnacht