

OS Dotzigen replacement new building subject rooms, Dotzigen

2021



Around 100 students cook, work or make music in the new school wing in Dotzigen. The wooden building convinces with a generous and flexible room concept - which requires a well thought-out structural concept.

The project

After one year of construction, the Bütigen-Diessbach-Dotzigen Upper School Association has been handed the key. Around 100 students cook, work or make music in the new school wing. The building replaces the special wing built in 1975 on the same site. Over the past 25 years, this building had become an investment ruin due to structural damage. A new building is therefore the best solution from various points of view. The work and group rooms as well as the spacious school kitchen are oriented to the north. On the one hand, this allows a view of the nearby forest, and on the other hand, the rooms are less warm in summer. On the warmer south side, with a view of the neighboring buildings, are the access zones and the foyer.

The construction

The almost 240 m² large multipurpose room on the first floor can be divided into three separate rooms with two sliding walls. This allows maximum flexibility of use for the school building. The seven-meter-wide folding glass door at the west end of the building allows further flexibility. A concert by the school band inside the room, for example, can be watched from the stairs in front of the building.

The challenge

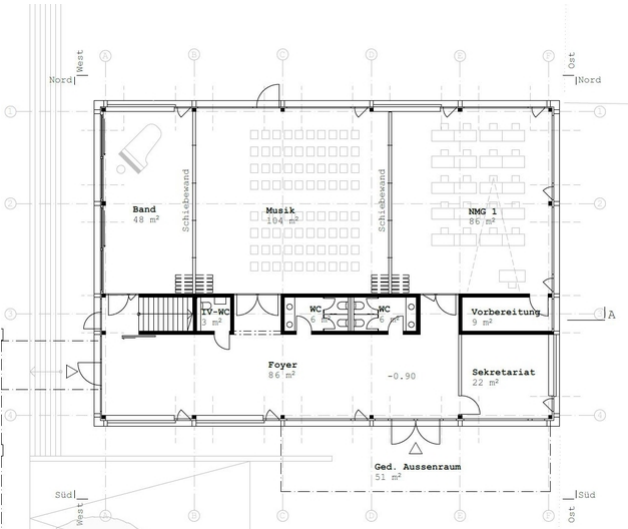
The almost ten-meter-wide multipurpose room is spanned by glulam beams made of beech wood. They carry the prescribed live load of 3kN (300 kg per square meter) for school buildings. Thanks to clever design and a suspended ceiling, only just under 40 centimeters of the 96-centimeter-high girders are visible.



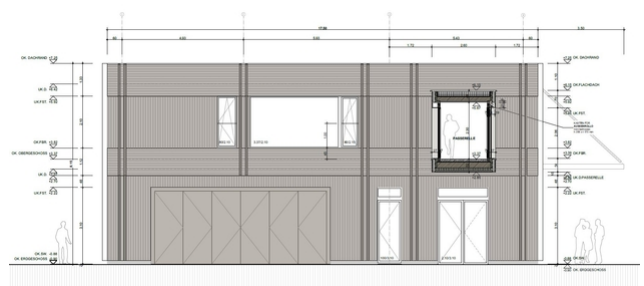
Multipurpose room with the beech wood joists and the folding partitions



West facade with the seven meter wide window front and the passerelle into the old building



Floor plan multipurpose room



West facade

Construction costs

- BKP 1-9: 4.1 million Swiss francs

Services of Timbatec

- SIA Phase 21 Structural review
- SIA Phase 31 Preliminary design
- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Statics and construction
- Fire protection planning
- Technical planning building physics

Client

Oberstufenschulverband Bütigen-Diessbach-Dotzigen
3293 Dotzigen

Architect

Leimer Tschanz Architekten
2502 Biel

Timber constructionengineer

Timbatec Holzbauingenieure Schweiz AG
3014 Bern

Timberconstruction

Zaugg AG
4938 Rohrbach

Photography

Nils Sandmeier
2501 Biel