

New construction extension school building, Uettligen

2004



Here, a two-story rucksack addition to the existing building was to be realized, with adaptation of the existing eaves and transitions to the first building. The facade was to be created with a painted wooden formwork.

The project

The object was realized as a pure timber construction over a base floor in reinforced concrete. The ceiling above the ground floor and the flat roof were designed as box girders, with the lower slab as an acoustic layer.

The construction method

The walls are realized as timber frame construction with back-ventilated, horizontal external formwork. Spruce Rift / Halbrift class A / B was used for the exterior formwork. This was primed and painted with two coats of paint. For the roof, sloping insulation was laid over the box girder, and greenery was planted on top. The box girder itself is insulated with only about 1 / 3 of the total insulation thickness. This also acts as an acoustic absorption layer.



Shuttering/Windows



Formwork corner area



Schoolroom from inside



Sound absorbing ceiling

Construction Data

- Floor space 13.3 x 5.5 m
- Useful area : 220 m²
- Two-storey

Services of Timbatec

- Structural analysis and design
- SIA Phase 41 Tendering and comparison of offers

Timber Construction Engineer

Timbatec Holzbauingenieure (Schweiz) AG Thun
3600 Thun

Timber construction

Holzbau Partner AG
3066 Stettlen