

New construction double kindergarten, Uttigen

2008



The new double kindergarten in Uttigen was planned and executed as a pure timber construction. The building should have a simple and inexpensive construction. The use should also remain variable - school meetings should also be able to take place there.

The project

In addition to the kindergarten and classrooms, a detached equipment room is integrated into the overall appearance. The insulation standard of the outer shell is equal to the Minergie standard. However, the installation of a comfort ventilation system and the certification were not carried out. The design The roof structure is freely spanned over 8.70 m so that the largest possible rooms are created without interference from supports. In order to be able to bear the loads of the heavy roof structure (extensive greening), the roof is bridged with a 320 mm high lignature box.

The construction method

The Lignature system proved to be the optimal supporting structure, since the curvature of the roof can also be formed with elements of different widths. The room acoustics measures are also directly integrated into the Lignature elements. The walls are of normal frame construction. On the one hand, the bracing is solved via the inner planking, consisting of a Livingboard panel. This Livingboard panel is also the inner planking, which is why a formaldehyde-free glued panel was explicitly chosen. Steel girders clamped into the concrete foundation stiffen the building at the window front. This system was chosen because there are no bracing walls to provide cross bracing. A lignature ceiling was also used for the existing gallery in order to be able to implement the same acoustic measures as in the roof.



Exterior view entrance side



Interior bright with acoustic ceiling



Gallery view



Facade south-north

Construction Data

- Roof span: 8.7m
- Length: 30.1m
- Width: 19.7m

Services of Timbatec

- Statics
- Bracing/overall stability
- Call for tenders
- Details/detailed solutions
- Support and consulting contractor/architect
- Site inspections

Owner

Residents' municipality of Uttigen
3628 Uttigen

Execution

Künzi + Knutti AG
3715 Adelboden

Architect

HMS Architecture and Planning
3700 Spiez

Timber construction engineers

Timbatec Holzbauingenieure Schweiz AG, Thun
3600 Thun