

# Double kindergarten, Lohn-Ammansegg

2004

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The municipality of Lohn-Ammansegg wants to build a new double kindergarten. The planned object consists of 2 cubes, which are positioned laterally and offset in height on a slight slope.

## The project

The assignment Due to the planned use, a division into two parts with one row of columns was achieved within the cubes. At the same time, the span was reduced from about 11.50 m to about 7.40 m. The roof elements were formed from 2 edge beams in BSH 140 / 440 and cross beams in between. The largest element measured around 4.00 x 11.50 m.

## The construction method

The Timbatec office provided the foundation for the extremely fast and precise assembly with structural analysis, design and factory planning on CADWORK 3D and 2D. At the request of the contractor, all joints (including those in the upright frame timbers) were designed as dovetail joints. With modern joinery systems, the production does not represent any additional effort, but the assembly of the elements is faster and, above all, error-free.



Input



Fassade



Interior view 1



Interior view 2

### Construction Data

- Floor area: 460 m<sup>2</sup>
- Room height: 2.70 m
- Building volume: 1240 m<sup>3</sup>
- boards OSB 3 15 mm 205 m<sup>2</sup>
- Boards OSB 3 18 mm 416 m<sup>2</sup>
- boards DWD 200 m<sup>2</sup>
- 3-layer board Fi B/C 19 mm with acoustic perforation 450 m<sup>2</sup>
- 3-layer board Fi C/C 27 mm 120 m<sup>2</sup>
- Glulam GL 24h 52 m<sup>3</sup>
- Solid wood C24 4.4 m<sup>3</sup>

### Services of Timbatec

- Statics and construction
- Works planning 3D and 2D

### Timber construction contractors

Hector Egger Holzbau AG  
4900 Langenthal

### Timber construction engineers

Timbatec Holzbauingenieure Schweiz AG, Thun  
3600 Thun

### Architect

Felber und Szelpal Architekten  
4500 Solothurn

### Client

Municipality of Lohn-Ammansegg  
4573 Lohn-Ammansegg