

# House Rümelbach, Rümlang

2022/2023



The house Rümelbach in Rümlang is a new building that meets various needs of the population. Youth meeting, training, adult education or even a playgroup find a place in one place.

## The project

House Rümelbach in Rümlang is a new building that contains several uses. The oblong building floor plan is divided into two parts by the shared entrance area. In the northern wing, which has two floors, training rooms and meeting rooms are arranged on the first floor. In the basement, which is also accessible at ground level, there are rooms for a playgroup. On the first floor on the southern side is the youth club with a lounge and kitchen.

## The construction method

The first floor was built mostly in timber construction. The minimally sloped roof consists of a box girder element. Where no load-bearing exterior or interior walls could be formed, the loads were transferred by means of visible beams. The exterior walls as well as the interior walls are designed as timber frame construction. In the area of the staircase, the reinforced concrete walls are extended to below the roof.

## The challenge

One challenge was the bracing of the timber structure. Due to the narrow and long ground plan of the building, the long lateral wings created large forces on the concrete core located in the center.



The portico with the visible joists



View from the building



Construction and facade are made of wood

#### **Construction Data**

- Structural timber 60 m<sup>3</sup>
- Three-layer boards 700 m<sup>2</sup>
- Soft fiberboard 300 m<sup>2</sup>
- OSB board 280 m<sup>2</sup>

#### **Construction costs**

- BKP 214 approx. CHF 620'000.00

#### **Services of Timbatec**

- SIA Phase 31 Preliminary project
- SIA Phase 32 Construction project
- SIA Phase 41 Tender and comparison of offers
- SIA Phase 51 Implementation project
- SIA Phase 52 Execution

#### **Client**

Gemeindeverwaltung Rümlang  
8153 Rümlang

#### **Architect**

abp Architekten GmbH  
8406 Winterthur

#### **Timber construction engineer**

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#### **Timber construction**

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#### **Construction management**

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Photos by architect Daniel Brüttsch