

# MFH Chappelistei, Zwillikerstrasse, Ottenbach

2005

---



On the property on Zwillikerstrasse in Ottenbach, two MFAs were to be built. These comprise 2 and 3 floors respectively and contain 4 and 6 large condominiums. It is planned to build the walls, ceilings and the roof in optiholz® board piles. The walls outside will be insulated and plastered.

## The project

The 2-storey building could be constructed using the timber construction method. As many parts as possible were to be built from the board stack elements, which the building owner manufactures in his own production. The symmetrically arranged apartments are each accessed from the centrally located staircase.

## The construction

In order to meet the client's concerns and to create a pleasant living environment, the supporting structure consists mainly of prefabricated optiholz board stack modules. These carry the loads of the floor slabs and the roof, transfer them in the walls to the foundation and, together with OSB planking, serve as bracing.

## The challenge

Another challenge was the gallery floor support or its span. The solution is a steel angle at the bottom chord of a visible truss. Since the properties in question are multi-family dwellings, great attention was paid to sound insulation between the apartments. The desired sound insulation values were achieved by cladding the board stack everywhere with a decoupled gypsum fiber planking.



Shell



Preparation roof insulation



Half-timbered gallery



Gallery, top view

### Construction Data

- Number of buildings: 2
- Number of apartments: 10
- optiholz board stack: about 120 m<sup>3</sup>

### Services of Timbatec

- Fire protection planning
- Statics and construction
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 52 Execution
- Technical site management and site inspections

### Timber Construction Engineers

Timbatec Holzbaingenieure Schweiz AG, Thun  
3600 Thun

### Architect

Fux Rainer  
8905 Arni AG

### Client

Sidler Kurt  
8913 Ottenbach