

Nauenstrasse, Tann ZH

2020



The newly built apartment house in Tann is located directly next to the Nauenbach. The wooden house with 4 floors offers a total of 5 rental apartments in a quiet location.

The project

The planning of the project was a small family plan of the Timbatec employee. The architect in charge and the civil engineer are siblings of one of the employees. The building is built as a wooden structure from the floor slab. The solid wooden ceilings rest on the interior load-bearing axes and exterior walls. The cantilevered balconies were all constructed without columns. All beams and columns, as well as the ceilings, are visible and were treated with a UV protection with a light white content. Timbatec was responsible for the entire timber structural design, the detailed design and the fire protection design including quality assurance.

The construction

From the floor slab onwards, the building is a pure timber construction. The elevator shaft and staircase are also made of wood. The escape staircase is a steel construction. The timber construction was realized very efficiently. The three interior load-bearing axes with beams and slabs as single span beams are visible. The ceiling span 4.0-4.5m is optimal. The supporting axes with beams are supported every 3.5m.

The challenge

The challenge was the cantilevered balconies with 90 degrees against the span direction of the slabs. These were executed with load-bearing balcony parapets anchored in the exterior walls.



Interior view



Attic

Construction Data

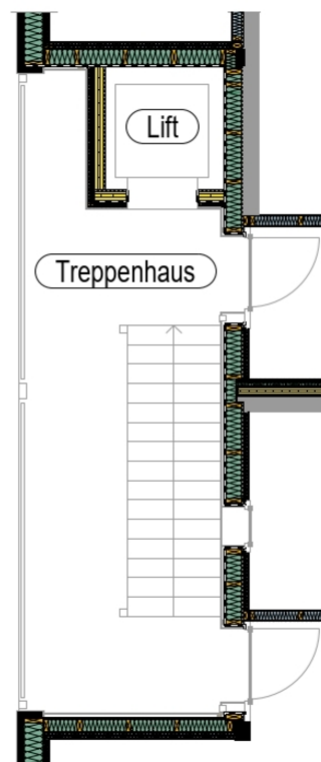
- Wood-based panels 25 m³
- Structural timber / BSH 150 m³

Construction costs

- BKP 1-9: 5.5 million Swiss francs
- BKP 2: 2.3 million Swiss francs
- BKP 214: 0.5 million Swiss francs

Services of Timbatec

- SIA Phase 31 Preliminary design
- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- SIA Phase 52 Execution
- Fire protection planning



Detail staircase

Architect

Architekturbüro Rüegg, 8733 Eschenbach

Client

Marlise and Hans-Jakob Wettli, 8632 Tann ZH

Timberconstruction engineer

Timbatec Holzbauingenieure Schweiz AG, 8005 Zurich

Timberconstruction

Artho Holz- und Elementbau AG, 8735 St. Gallenkappel

Civil engineer

EBP Schweiz AG, 8008 Zurich

Construction management

Architekturbüro Rüegg, 8733 Eschenbach

Photography

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