

Addition of a storey Lessingstrasse, Zürich

2013



The addition of a storey to the existing office building at Lessingstrasse 3 in Zurich proved to be a challenge, but Timbatec solved it in a well thought-out manner. Today, the building presents itself with two additional floors in timber construction. Here 5 new apartments were created.

The project

The addition to the existing office building at Lessingstrasse 3 in Zurich consists of two floors in timber construction. A total of 5 new apartments were created - 3 maisonettes as well as 2 storey apartments.

The construction

The cantilever of the second attic floor was solved with the load-bearing 120 mm cross laminated timber panels. The ceilings and the roof were formed with box girder elements over 7.20 m and connected to the load-bearing cross laminated timber panels with support battens. For bracing, the stairwell and a wall slab in solid construction were led up to the roof. The ceiling and roof slabs were connected to these.

The challenge

Due to the different floor plan arrangements, the loads from the timber construction could only be transferred to a few points. Another complicating factor was that the second floor of the extension projects 1.30 - 2.90 m beyond the first floor on one side. Here, the apartment partition walls were designed as load-bearing panels with 120 mm cross-laminated timber boards resting on two point supports.



Interior view on terrace



Kitchen interior



Staircase



Bathroom

Construction Data

- 120 m³ Wood

Services of Timbatec

- SIA Phase 31 Preliminary design
- Fire protection planning
- cost estimate
- SIA Phase 32 Construction project
- Structural analysis and design
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Site supervision and site inspections

Client

Rutishauser Partner AG
8280 Kreuzlingen

Architect

Arndt Geiger Herrmann AG
8038 Zurich

Timber contractor

Baur Holzbau AG
8907 Wettswil