

# Addition of a storey Lessingstrasse, Zürich

2013

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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 m<sup>3</sup> 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