

# Conversion and extension at Eidmattstrasse 14, Zürich

2022

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The residential building at Eidmattstrasse 14 in Zurich, built in 1967, was renovated and two storeys were added.

## The project

The existing apartments were renovated and the wet rooms and riser zones were renewed. Two storeys were added to the existing building. In order to keep the additional loads of the extension as low as possible, it was built in timber construction. Additional steel crosses and concrete slabs were installed on the first floor and basement to strengthen the building against earthquakes.

## The construction method

The extension is constructed entirely in timber. The extension of the stairwell and the elevator shaft was constructed with encapsulated CLT walls. Due to the room geometry, the ceilings were made of cross-laminated timber panels. A steel support grid was laid on the existing reinforced concrete ceiling to transfer the loads locally to the load-bearing walls on the floor below.

## The challenge

Due to the different floor plans between the extension and the existing building, loads had to be absorbed and transferred at certain points. The encapsulation of the wooden elements of the staircase was carried out cleanly in close cooperation with the timber constructor.



Steel cross for earthquake reinforcement



Steel cross for earthquake reinforcement



Screwing the roof elements together

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### Timber construction engineer

Timbatec Holzbauingenieure (Schweiz) AG Zurich  
8005 Zurich

### Timber construction

BAUR Holzbau AG  
8907 Wettswil

### Client

Koenig Architekten AG  
8032 Zurich