

# Addition of a storey at Widmerstrasse 73, Zurich

2020

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The four-story residential building in the quiet district 2 in Zurich was extended with one floor. Timbatec planned the attic floor in timber construction.

## The project

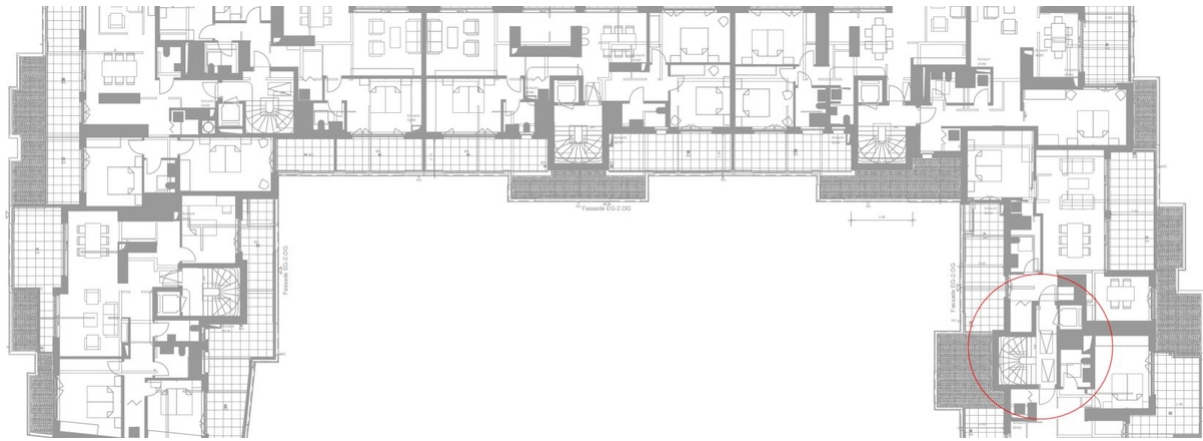
The four-story residential building is located in a quiet neighborhood close to Lake Zurich and the community of Kilchberg. With the additional attic floor and the simultaneous renovation, the building is upgraded. Timbatec planned the stud frame building and then created the structural concept in the special floor plan. A further planning step was the dimensioning of the roof, the load-bearing walls as well as the encapsulated wooden components for the staircase. Timbatec accompanied the construction during the execution, likewise Timbatec took over the quality assurance as a specialist for the encapsulated timber components.

## The construction method

For weight reasons, the attic storey could only be added in wood. The extension was built as an element frame construction, the roof elements were realized as box girder elements. The existing solid construction was completely renovated. The components to the escape routes were designed as encapsulated constructions.

## The challenge

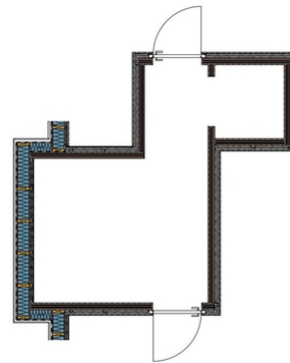
The challenge for this addition was mainly the logistics of planning the wooden elements in such a way that the crane could also support them. The various buildings were offset in height, which required some brainpower for the connections to the existing building and the detailed solutions.



Floor plan extension



Encapsulated staircase in the construction phase



Encapsulated staircase

**Construction Data**

- Hollow box elements: 880 m<sup>2</sup>
- cross laminated timber: 240 m<sup>2</sup> / 24 m<sup>3</sup>
- stud walls: 1240 m<sup>2</sup>
- Kerto: 5 m<sup>3</sup>

**Construction costs**

- BKP 214: 550'000 CHF

**Client**

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