

# Vogelsang extension, Wetzikon

2018



In the middle of the city of Wetzikon in the canton of Zurich, a housing estate was renovated. By adding wooden floors, 36 new residential units were created on top of the prefabricated buildings designed by the architectural icon Ernst Göhner.

## The project

Additions to existing buildings can often only be realized in timber construction, as the existing structure would not be able to bear the load of steel and concrete. Wooden structures can even be used to add several stories to existing buildings. In the one to two-story addition to the Vogelsang housing development, the addition of the buildings was carried out with frame walls and solid wood ceilings. This resulted in only minor additional loads for the existing buildings and made complex and costly reinforcement measures unnecessary. As a result of the increase in height, the area provides living space for around 70 additional people without destroying the space between the buildings for recreation and social events.

## The construction method

The walls and flat roof are made of prefabricated frame building elements, glulam panels formed the floor slabs. To ensure comfort in the apartments and sound insulation between the units, the same system was used as for sue&til. With the elastically bonded split fill, concrete can be completely eliminated in the floor slabs. A total of 4,670 square meters of three-layer and 1,600 square meters of OSB boards were used for the addition. In addition, 5,740 square meters of gypsum fiberboard and 721 m<sup>3</sup> of lumber were used. Thanks to the high degree of prefabrication, the elements could be assembled quickly, thus keeping the construction time short.



Erection work with the crane



Interior view at the construction site with the floor ceiling in wood



Delivery of the prefabricated wooden elements



Production of wooden elements at Implenia

### Construction Data

- Structural timber 721 m<sup>3</sup>
- Three-layer boards 4'670 m<sup>2</sup>
- OSB boards 1'600 m<sup>2</sup>
- Gypsum fiberboards 5'740 m<sup>2</sup>

### Services of Timbatec

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### Timber Construction Engineer

Timbatec Holzbauingenieure Schweiz AG

### Total Contractor

Implenia Schweiz AG  
8305 Dietlikon

### Architect

Dachtler Partner AG  
8036 Zurich

### Photography

Daniel Lupini  
5430 Wettingen