

Apartment house Bachstrasse, Buchs

2022



On Bachstrasse in Buchs in the canton of Aargau, a multi-family house was built in timber construction, which was originally planned as a reinforced concrete structure. The TS3 technology made it possible to change the material in the planning phase.

The project

The three-story apartment building was once planned entirely in solid construction. Today, the client enjoys a building that combines the advantages of timber construction and solid construction: The house offers a pleasant living atmosphere, has a low ecological footprint, high flexibility of use and could be realized quickly and within the planned budget. The floor structure is very slim at less than 40 centimeters. Sound measurements show that in the area of impact sound the minimum requirements are clearly exceeded, and in the case of airborne sound even the increased requirements are met.

The construction method

The floor slabs made of cross-laminated timber are connected with TS3 joints to form large areas. They rest on very filigree reinforced concrete columns and on the load-bearing exterior walls. With this construction method, a total of 190m² of TS3 floor area was realized.

The challenge

The connection details of the very filigree reinforced concrete columns to the ceilings made of cross laminated timber and the staircase in timber construction are the exciting challenges of this project.



Construction data

- Number of floors: 2
- Gross floor area: 190 m²



Architecture

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Client

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