

Apartment Building on Bachstrasse, Buchs

2022



A multi-family home constructed using timber framing was built on Bachstrasse in Buchs, in the canton of Aargau; the project had originally been planned as a reinforced concrete structure. TS3 technology made it possible to change the building material during the planning phase.

The Project

The three-story apartment building was originally planned to be constructed entirely using solid construction methods. Today, the clients are delighted with a building that combines the advantages of timber construction and solid construction: The building offers a pleasant living environment, has a low ecological footprint, high flexibility of use, and was completed quickly and within the planned budget. The floor structure is very slim, at less than 40 centimeters. Sound measurements show that the minimum requirements for impact sound are significantly exceeded, and the increased requirements for airborne sound are even met.

The Construction Method

The cross-laminated timber floor slabs are joined to large-scale areas using TS3 joints. They rest on very slender reinforced concrete columns and on the load-bearing exterior walls. Using this construction method, a total of 190 m² of TS3 floor area was realized.

The Challenge

The connection details between the very slender reinforced concrete columns and the cross-laminated timber floors, as well as the stairwell constructed using timber, are the exciting challenges of this project.



Construction data

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



Architecture

Andreas Marti & Partner Architects, Inc., Aarau

Client

Ines and Christoph Streuli-Schmid, Suhr

Timber engineer

Timbatec Timber Engineering Switzerland AG, Zurich

Timber construction

Hecht Holzbau AG, Sursee

Civil engineer

Healy + Partner Engineering AG, Aarau

Building physics

Timbatec Timber Engineering Switzerland AG, Zurich

Construction management

Andreas Marti & Partner Architects, Inc., Aarau

Photography

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