

Community apartment building, Gretzenbach

2023



In the village center of Gretzenbach in the canton of Solothurn, a timber building with twelve apartments and a village store was built. The balconies cantilever over 3.5 meters - without any disruptive supports. An ingenious, suspended construction makes this possible.

The project

The new building at Köllikerstrasse 29 in Gretzenbach consists of four full storeys and a basement. The first floor will contain retail space and a common room, with apartments above. The entire building above ground level will be built as a timber frame construction, with the exception of the interior walls on the first floor and the bracing staircase.

The construction method

The cantilevered balconies are a special feature of this building. We developed a suspended construction to eliminate the need for disruptive supports. Steel cables absorb the forces of the balconies and transfer the forces to the supporting structure of the outer walls via a bracket. You can twist and turn this ingenious detail however you like.



Construction Data

- Usable floor space: 1,500 m²
- Glulam: 160 m³
- Solid wood: 85 m³
- Solid wood panels: 55 m³

Construction costs

- BKP 1-9: CHF 6.9 Mio

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- Fire protection quality assurance QSS1
- Fire protection quality assurance QSS2
- Cost estimation
- 3D and 2D work planning

Client

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Architect

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Timber construction

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