

Mettli Emergency Shelter, Thalwil

2025



Timbatec provided support for the planning and construction of the Mettli emergency shelter in Thalwil in the areas of structural engineering and construction, as well as fire protection and building physics.

The Project

The emergency shelter in Thalwil is a two-story prefabricated structure built using timber construction methods. The building, which is 28 meters long and 7.5 meters wide, can accommodate approximately 40 people. Access is provided via an external steel-framed pergola. The project was planned and implemented in a very short time. Planning took place from mid-2023 to mid-2024, and the building was completed in May 2025 after an eight-month construction period and was ready for occupancy.

The Construction Method

The structural elements are very slim. The ceilings consist of 120 mm CLT panels, and the floor structure is 130 mm thick (250 mm total). The apartment partition walls feature staggered 120 mm studs and double sheathing on both sides. (Wall thicknesses: 180–190 mm).

The Challenge

Despite the very slim structures, numerous requirements regarding fire and sound insulation had to be met.



Construction Data

- Building volume: 1,250 m³
- Floor area: 450 m²
- Wood and wood-based materials: 70 m³

Construction costs

BKP 214: 350,000 CHF

Services of Timbatec

- SIA Phase 31 Preliminary project
- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Execution project
- SIA Phase 52 Execution
- SIA Phase 53 Commissioning
- Statics and construction
- Specialist planning for building physics
- Specialist fire protection planning

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Timber construction

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