

Single family house, St. Antoni

2013



The rurally located single-family house was completely prefabricated and after only 4 months of construction the building was ready for occupancy. The timber construction contains a world novelty - namely the TS 3.0 developed by Timbatec - a ceiling system made of panels, which carry 2-axes analogous to a concrete ceiling.

The project

The single-family house is located in a rural area of Fribourg-Mittelland. The wooden house has no basement and stands on a foundation slab. The house consists of one floor and a screed. The exterior facade consists of a wood fiber board with an exterior plaster. The entire house was completely prefabricated and after only 4 months of construction the building was ready for occupancy.

The construction

The carport attached to the side, also a wooden structure, contains a world first - because here the TS 3.0 ceiling system developed by Timbatec was used for the first time. A wooden panel (size 6 x 8 m) forms the roof here. The slab, which consisted of 3 individual parts, was joined and glued together as a whole on the construction site. Thus, this plate carries 2-axis, equal to a concrete ceiling. The load tests that were carried out confirmed the results of the structural design.



Suspension ridge



Bonding plates



Load test

Construction Data

- 52 m³ Wood
- 210 m² Floor space

Services of Timbatec

- SIA Phase 32 Construction project
- Statics and construction
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Work planning 3D and 2D

Timber construction engineer

Timbatec Holzbauingenieure Schweiz AG, Bern
3012 Bern

Timber Construction Contractor

Vonlanthen Holzbau
3186 Schmitten