

New construction Chalet Schwarzbirg, Wengen

2010



This is the story of a beautiful chalet in gorgeous Wengen in the Bernese Oberland, which features 2-axis cantilevers and complex calculations.

The project

Chalet Schwarzbirg is located on steep terrain in Wengen in the Bernese Oberland. The apartment building consists of a massive basement and 3 full floors above ground in timber construction.

The construction method

All walls were prefabricated as elements in timber frame construction. Ribbed slabs with fan-shaped cantilevered ribs were chosen for the floor slabs to support the balconies. The calculations were challenging because the balconies have a large cantilever and run across corners. The exterior staircase was built in solid construction and connects to the individual apartments with landings.



South facade



Facade with balconies, photo Wenger Windows Wimmis



Pfette

Construction Data

- Roof area 310 m²
- Formwork 330 m²

Services of Timbatec

- SIA phase 31 preliminary project
- Cost estimate
- SIA Phase 32 Construction project
- Structural analysis and design
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Site supervision and site inspections



Window detail, photo Wenger Windows Wimmis

Architect

Näpflin Bau GmbH
3823 Wengen

Owner

Karl Näpflin
38232 Wengen

Timber construction contractors

HORIBE AG
3532 Zäziwil

Timber construction engineers

Timbatec Holzbauingenieure Schweiz AG, Thun
3600 Thun