

# New construction mountain house Morenia, Saas-Fee

2005

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The new building of the 2-storey mountain restaurant Morenia in Saas-Fee is located at an altitude of 2'570 m.a.s.l. and measures approximately 43 x 21 m.

## The project

The Berghaus On the ground floor there is a restaurant with self-service market, kitchen, toilets and offices. Adjacent to the restaurant to the south, a sun terrace with outdoor bar was realized. The basement contains storage and technical rooms, toilets and the self-service restaurant. The restaurant has seating for 650 inside and 350 outside. The realization The object was realized as a pure timber construction over a base floor in reinforced concrete. The loads of the longitudinal main girders are transferred to the concrete foundations via the columns of the skeleton structure.

## The construction method

Between the main girders, a beam layer was used as a secondary supporting structure. The façade was set off from the columns in timber frame construction by means of steel brackets. All supports, connections and assembly joints from the primary structure were solved and executed using GSA technology. The bracing in the basement is provided by a tension rod system. The first floor is braced by steel tube strut frames. For wind and earthquake bracing, the elevator shaft in reinforced concrete is also used. Timber construction and Minergie: a mountain restaurant with exemplary character Report in Schweizer Holzbau 12/2006



Input



Self-service



Detail with GSA technology



Detail support - facade

#### Construction Data

- BSH primary supporting structure: approx. 127 m<sup>3</sup>
- BSH beam layer: approx. 207 m<sup>3</sup>
- Dimensions: 43 x 21 m
- Max post loads  $f_{dmax}$  1'100 kN

#### Services of Timbatec

- Statics and construction

#### Civil engineer

Bumann & Partner GmbH  
3906 Saas-Fee

#### Timber construction engineers

Timbatec Holzbauingenieure Schweiz AG, Thun  
3600 Thun

#### Client

Bürgergemeinde  
3989 Biel

#### Architect

Architekturbüro Walter Burgener BFA AG  
3900 Brig

#### Timber construction contractor

ARGE Holzbau Morenia: Brawand Zimmerei AG

#### Timber construction engineer GSA

Neue Holzbau AG, timber construction engineer  
6078 Lungern