

School center Château d'eau, Marly

2024



Marly has a new wooden school complex that combines classrooms and a sports hall. It was built with sustainability in mind, using local wood and favoring environmentally friendly practices.

The project

The new «Château d'eau» school complex in Marly has twelve classrooms, four kindergarten rooms and a double gymnasium. The school center is divided into three Minergie-P-Eco buildings in timber construction. Each building contains a specific program: - Elementary school - Kindergarten with after-school care - gymnasium. The construction is designed as a load-bearing timber structure based on a modular grid. The constructive structure, sound insulation and lighting combine to create a warm and calm atmosphere that is perfect for everyday school life.

The construction method

The primary structure is based on the principle of post-and-beam construction. It therefore perfectly fulfills the concept of flexibility required in school construction and enables a flexible distribution of rooms. The floor slabs and the roof are planned as filigree elements reminiscent of traditional beams.

The challenge

In order to be in line with sustainable development, preference was given to wood from the region with a short supply chain. An environmentally friendly process for clean wood was ensured through tenders for sawing, drying and gluing.



attractive architectural language in wood photo ©Primula Bosshard



View of the gymnasium from the gallery photo ©Primula Bosshard



Wooden living and meeting room photo ©Primula Bosshard



Conference and presentation room photo ©Primula Bosshard

Construction Data

- Volume of glulam 1250 m³
- Volume of CLT timber ceiling 375m³

Construction costs

- BKP 1 to 9: CHF 37 million incl. VAT
- BKP 214: CHF 4.4 million incl. VAT

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

Architect

Ruffieux-Chehab
1700 Fribourg

Timber construction engineer

Timbatec SA ingénieur bois
2800 Delémont

Timber construction

Charpentes Vial SA
1724 Le Mouret

Construction management

Tekhne SA
1700 Fribourg

Client

Commune de Marly
1723 Marly

Photography

2024 Ecole Château-d'Eau à Marly
©Primula Bosshard