

# 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 m<sup>3</sup>
- Volume of CLT timber ceiling 375m<sup>3</sup>

### 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