

Monestier-de-Clermont - Marcel Cuynat secondary school

Extension of the school, construction of a gymnasium and of an athletics track



Country

France

Client

Conseil Général de l'Isère

Date

2008-2012

Cost of works

€4.5m excl. VAT

Sogreah's services

- Basic project management services included in French public buildings procurement law for the following works:
 - Earthworks
 - Main structure
 - Wooden framework
 - Roads and utilities, landscaping and athletics track

Group of contractors:

Agence AGORA (main contractor), Sogreah Consultants, BASSO, COTIB

Context

The extension of the school, attached to the existing building, will allow the creation of new classrooms (science, normal, multipurpose and arts).

Two houses for members of staff will be built on the lower part of the site.

The gymnasium and the athletics track will be built on a unused plot of land close to the school.

Description of the project

Extension of the school and staff accommodation

- Public building (French legislation: mixed usage).

- Area: 2,500 m².
- Staff accommodation: 2.

Gymnasium

- Public building (mixed usage).
- Area: 2,100 m².

Athletics track

- Four-lane, 200 m long athletics track with a sand trap.
- Shot put area.

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Technical characteristics

Extension of the school and staff accommodation

The extension is built in direct continuity with the existing school, thus using less ground that is therefore available for the construction of staff accommodation.

The structure of the extension is made of a concrete base with superficial strip foundations anchored in clay and of a wood frame superstructure with mixed wood/concrete flooring.

Staff accommodation has exactly the same design style as the extension.

Gymnasium

The gym and the combat sports hall are built partially into the natural slope of the hillside. They consist of a concrete base with superficial strip foundations anchored in gravelly clay, with a 3 bar ground bearing coefficient.

The superstructure frame is made with insulated wood panels and larch cladding.

The framework of the assembly hall is made with glulam beams supported by a metal tie-beam.

To prevent pore water circulation in the soil, a geocomposite draining layer and a set of transversal drains used for gravitational water recovery are installed under all indoor tiling.

A peripheral, auto-inflatable, leak-proof seal ensures that all construction joints are watertight.

Athletics track

The altitude of the outdoor athletics track was calculated with the MANSURA software to optimise excavation and backfilling.

Outdoor development of the gym and school

- Connexion to public networks.
- Hard landscaping with drainage (stabilised and permeable asphalt).
- Hard peripheral fence and irregular hedges.
- Storage of rainwater in underground tanks before controlled discharge into public sewage networks.