

Renovation of the Papignies dam

greisch

Papignies, Lessines (BE)

Mission preliminary design, building permit, design and H&S coordination (on behalf of SPW). Construction designs (on behalf of the contractor)

Owner
SPW - Direction des voies
hydrauliques de Tournai

Architect
Canevas

Cost of the works
€ 4,1 M. excl vat (not including
electro-mechanical part) of
which € 100 000 for architecture
€ 4,1 M for civil engineering

Studies
2011 - 2013
Execution
2015 - 2016

AR GC CS



Studies for replacing the two existing beam structures with a new automatic moving dam, with two 8-metre wide bays.

Each bay is equipped with a metal sluice gate, itself operated by an oil-hydraulic cylinder.

The project includes:

- a set of technical installations housed in a building constructed on the central pier approximately 4 metres wide.
- a new concrete bridge across the two sections to carry traffic on the Rue de l'Écluse.
- the dam, located on a new branch of the river Dendre, almost one kilometre long, will have:
 - an upstream channel constructed with sheet piling under the flotation level, with plantable gabions on top,
 - a downstream trapezoidal channel designed with revetments and plantable gabions.



The presence of a thick layer of peat makes the geotechnical context problematic. For this reason, the dam is set on concrete piles.