

## Storm water basin Vivaqua - Ganshoren

### Project Details

#### Activities

Civil Engineering  
Water engineering

#### Contractors

Franki Construct

#### Location

Nestor Martinlaan 38  
1083 Ganshoren Belgium  
Brussels BE

#### Client

Vivaqua

#### Engineering Office

Agidens, Nico Terry

#### Span

8m

#### Surface area above ground

2 555m<sup>2</sup>

#### Surface area subterranean

2 555m<sup>2</sup>

#### Construction period

1 year 8 months

#### Start work

02-2014

#### End of work

10-2015



Storm water reservoirs connected to the drainage system that can collect 10,000 m<sup>3</sup> of water during heavy storms, relieving the pressure on sewers. Buffered water is discharged into one of the main collectors in Brussels, half using a gravitational outlet, the other half using pumps.

An automated system has been fitted whereby the mechanical elements (pumps, mixers, rinsing system, ...) can function entirely automatically and can be operated from the owner's own offices. There is also a monitoring system allowing stream levels to be surveyed constantly from a distance.

#### Design:

- Length ±370m
- Breadth 8m
- Depth of 3.5 to 6m
- Underground, roofing plate is 1.5m below ground level

#### Construction method:

- Basin structure made of more than 1700 secant piles
- Concrete: 3500 m<sup>3</sup>
- Reinforcement: 620 tonnes

- HDPE pipes: 1000 m - diameters 400-350
- 2 pumps 35

## Franki Construct



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Since 1998 Franki Construct has been part of Willemen Groep, the largest family construction group in Belgium.