



## Pond in Hageveld Estate Heemstede

A large oval pond covers the underground garage for the estate. The pond's coloured glass panels, conceived as a work of art, create an extraordinary night-time effect in the Dutch estate.

### POND IN HAGEVELD ESTATE HEEMSTED, NETHERLANDS

Client: Hopman Interheem Groep

Landscape architects: Bureau Alle Hesper; Berrie van Eideren, Marika Oudijk

Collaborators: MYJ groep architecten, Stijlgroep, Braaksma & Ross architecten,

HMADP architecten, Hermine van der Does (artist)

Area: 730 square metres (pond), 14 hectares (estate)

Completion: 2007

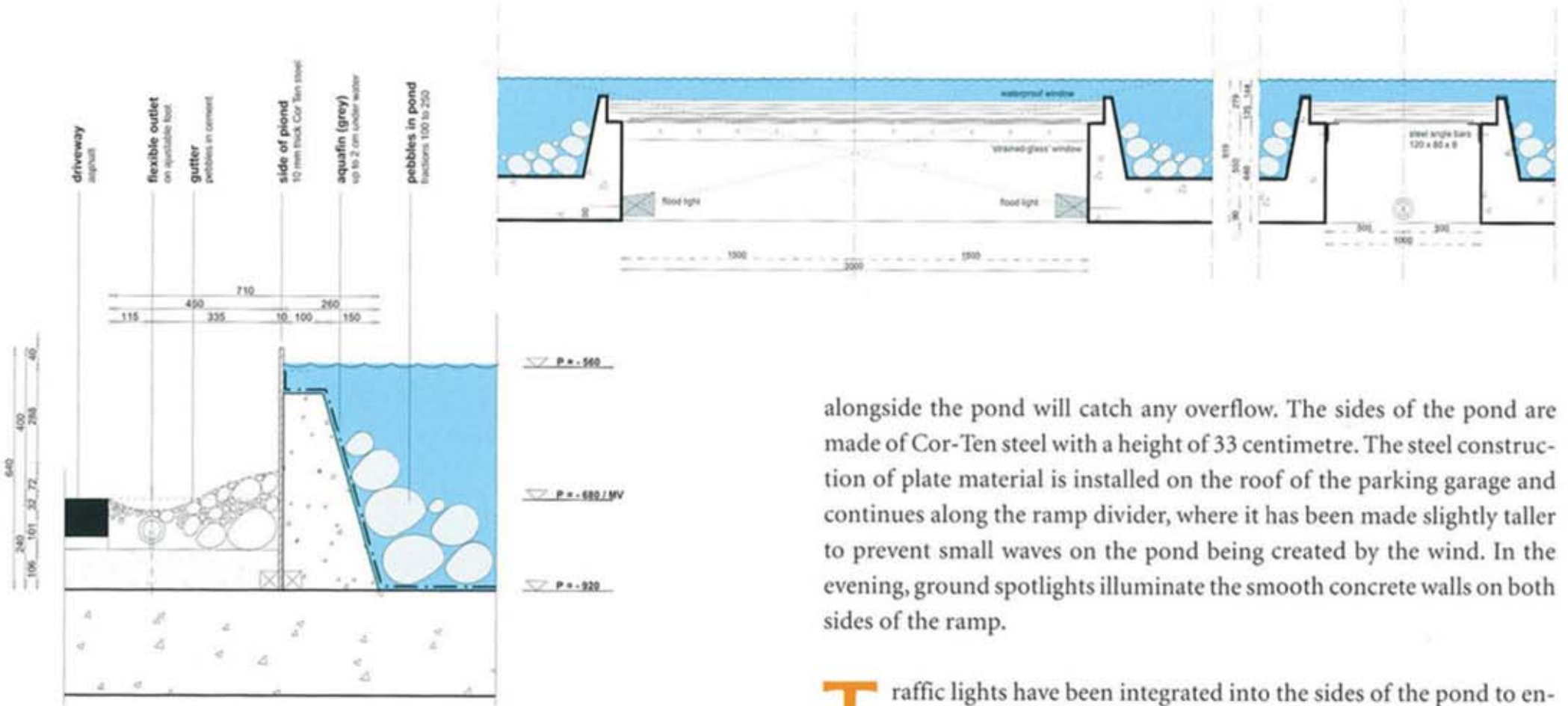


In 2002 plans were made to transform the Hageveld Estate, formerly a Catholic seminary, into a residential building. The residences were in need of a parking garage. The ideal site for the garage, but also the most risky in terms of space and aesthetics, was directly in front of the main entrance of this national monument. In order to do justice to the site's character, a large pond was placed over the underground garage, with the entrance driveway cutting through it "invisibly". The garage and all associated elements at ground level were designed in collaboration with the architects. Light shafts are set into the pond, providing the garage with daylight illumination. These are covered with coloured glass panels, conceived as a work of art. An extraordinary effect is created at night, when the light from the garage shines up through the glass panels. The stained-glass windows reference the religious history of the estate.

The shape of the pond is a large oval (approximately 40 x 26.5 metres), located on the site of the old pond. With a surface area of 730 square metres, and depth of 60 centimetre, the water is brought to life by jets of little bubbles just above the surface. The water level must be as high as possible to mirror the old building. The drainage channels running

The light shafts set into the pond are covered with coloured glass panels. They provide the garage with daylight illumination. At night, the light shines up through the glass panels.

The windows covering the eleven light shafts are situated 15 centimetre beneath the surface of the water. Drainage channels run alongside the pond.



alongside the pond will catch any overflow. The sides of the pond are made of Cor-Ten steel with a height of 33 centimetre. The steel construction of plate material is installed on the roof of the parking garage and continues along the ramp divider, where it has been made slightly taller to prevent small waves on the pond being created by the wind. In the evening, ground spotlights illuminate the smooth concrete walls on both sides of the ramp.

**T**raffic lights have been integrated into the sides of the pond to ensure that only one car can enter or exit the parking garage via the ramp. These traffic lights are comprised of a row of red and green LEDs that have been cast into a plastic strip. A fire hydrant has also been built into the pond wall. For this purpose, a Cor-Ten steel door has been installed with a B crafted into the metalwork, which stands for Brandweer (Fire Brigade).

To make the pond watertight, grey roof covering has been applied to the base of the pond on the roof of the parking garage. Large fraction Mörane Extra gravel (Scottish gravel with a diameter from 10 to 12,5 centimetre) augments this covering. The drainage channels alongside the pond are made of a smaller fraction Mörane Extra gravel (1,8 to 5; 3 to 5 and 7 to 10 centimetre). To keep the 438 cubic metre of water pure, a professional pump with UV lights has been installed which combats the growth of algae.

The eleven light shafts that are distributed across the pond are covered by extra thick, waterproof windows. These windows measure 3 x 1 metre and are situated 15 centimetre beneath the surface of the water. The daylight that enters the garage is refracted by the water in the pond. Spotlights for the garage are situated beneath the light shaft windows.

A Dutch glass artist has designed the special, modern stained-glass windows for the project. Made from blown glass, the resulting air bubbles in these windows provide a very lively effect. The windows are made using the appliqué glass technique, in which glass is adhered with epoxy resin. The pond is one of the most prominent additions to the landscape of this historical estate. It represents the new layer that is added which is typical for the Dutch design.

