



The project is situated on the 'Kennedyplein' in De Haan, a coastal city in West Flanders, Belgium. The community service building has to play an important role in the social revival of the neighbourhood. The strong lines and shapes of the building have to attract people from every direction.

Allplan Engineering

This project is an engineering design with Allplan Engineering 2012 software. The strong shapes and different heights called for a 3D approach. With the help of Allplan Engineering, we succeeded in lightening up every detail of the construction, where a 2D approach would rather leave you in the dark.

We started working with the Allplan Engineering software in August 2011. We had four days of basic training and with the help of the helpdesk we started to elaborate our new projects with Allplan Engineering. Despite our basic knowledge of the program software, the building up of the design in 3D was not too complex. On the contrary, the modelling process was very user friendly and satisfying results were obtained rather quickly.

Working Method in Allplan

The 3D model was built up with 3D-objects without any intelligence. These objects were given all the right architectural attributes afterwards. In this way you have absolute freedom in the designing, but you can still keep the right presentation and visualisation of beams, columns, walls, etc....

We worked with the following simple colour codes

- Red: Concrete/Steel Column
- Blue: Concrete Beam
- Orange: Steel Beam
- Yellow: Masonry Wall
- Green: Concrete Wall
- Grey: Concrete plate

The floor above the ground floor is on different planes and consists of prestressed vaults. This floor level determines all the levels of the bearing objects such as walls, columns and beams.

The Use of a 3D model

Working in 3D gives you a much better summary of the project in total and it allows you to check every detail without losing valuable time. Once the 3D model is built, it's a rather easy to create any view or section of any part of the building. Instead of limiting the building information to prevent errors, additional plans and views were made to clarify the design. Even a 3D-pdf was sent to the contractor; this way he loses less time and he can start working with a complete and clear engineering design.

Reinforced objects

The difficult shapes were no threshold for the design of the reinforced objects. With the collision detection tool you can always check the practicability of the reinforced design. Allplan Engineering 2012 has shown itself to be a powerful tool with lots of potential. We look forward to working with the new Allplan Engineering 2013 software, especially with the new smartparts.

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Engineering Office Plantec nv was founded in 1986 and is specialised in the design of infrastructure, architecture, urban design, topography and structural engineering. The firm currently operates from Ostend with approximately 28 employees and works throughout West and East Flanders.

Our vision and working method:

Everything around us has a determinant influence on the quality of life. Our creativity has its source in the comprehension of the environment. With a multifunctional team of designers and engineers, we try to enhance the quality of life itself.

An ISO9001 Quality Management System is in operation in our office and is externally audited by BQA.

Project information

Owner Gemeente De Haan
 Architect Ontwerpbureau Plantec nv
 General Contractor Detrac
 Engineering Office Ontwerpbureau Plantec nv
 Location De Haan, Belgium
 Construction Period 04/2013 to 12/2013

Short description | Community Service Building Vosseslag

This building is part of the redesign of the 'Kennedyplein' and is located in the south of the square. The strong lines and shapes are designed to attract attention from every direction, like a beacon in the sea. Every side of the building has to link up with the surrounding infrastructure. The building is designed to play a significant role in the feeling of safety and social control on this renewed site. The functional use of the building has to enhance the social revival of the square and its environment.

