



ALLPLAN ARCHITECTURE IN PRACTICE

Combining Functional and Individual Concepts

📍 New construction of a production hall with an adjoining administrative building in Dinslaken, Germany

The new construction of a production hall with a connected administrative building for Hesotec in Dinslaken represents both the core business – commercial construction – and the individual and creative solutions developed by Brüninghoff, the hall construction specialists. A completely new operational site combining functionality and individuality was the result.

The client's objective was to develop a new operational site with a production hall and an upstream administrative building that optimizes working and production processes. It also had to be possible to expand the production facility on the same plot using as little space as possible. An upstream building structure communicates Hesotec's identity to the outside world. Here, both functionality and the individual design and formation of a corporate architecture are in the spotlight. As the general contractor, Brüninghoff was responsible for creating and developing the turnkey construction project.

The project is distinguished by the contrasting combination of modern hall construction and a seemingly offset administrative building acting as "head" of the ensemble. The distinctive feature of the administrative building is two

staggered levels. The upper floor called for an overhang of a meter in both directions, which led to particular challenges in construction and the final planning. Brüninghoff was able to meet these challenges using detailed construction planning regarding the overhang. The exact location and size of the facade panels in connection with the large window elements were planned in multiple facades and sectional views and prepared for execution.

The company could optimally react to the client's wishes during the planning process thanks to software from Allplan. The intelligent building model enabled planners to visualize and further develop both the facade design and the formation of the building's cubature together with the client during the design phase. Allplan offers a variety of options in detailed final planning. This way, architects and engineers can make designers' jobs easier on the building site, guaranteeing that the construction process runs smoothly.

The exact planning of various construction details such as connections, intersections, and reinforcements optimized critical aspects of construction during the planning phase.



Brüninghoff GmbH & Co. KG, with headquarters in Heiden (Münsterland), has been one of the leading hall construction specialists in Germany since 1974. The family business specializes in the production of pre-assembled construction elements made of concrete, steel, wood, and aluminum, as well as conception, planning, and the turnkey execution of construction projects. 365 employees in four locations (Heiden, Hamburg, Niemberg, and Villingen-Schwenningen) carry out 160 construction projects throughout Europe each year.

"We develop functional and individual concepts for our clients tailored to suit their particular operational demands and wishes," says CEO Frank Steffens, describing one of the main principles of the company. This applies to modern, ambitious hall construction, as well as for office and administrative real estate and special buildings like day-care centers, recreational centers, and airport terminals.

"From my perspective, the advantage of Allplan lies in the consistency of the software and the networking of individual planning disciplines."

Frank Steffens, CEO Brüninghoff GmbH & Co. KG

In the next few years, Brüninghoff GmbH & Co. KG will increasingly focus on Building Information Modeling planning methods. To do this, the company is putting its faith in Allplan. This allows the company to find individual solutions and further develop projects from the initial sketches through to final planning using only one piece of software.

PROJECT INFORMATION AT A GLANCE

Focus: Architecture

Software used: Allplan Architecture

Project data:

- ➔ Client: Hesotec GmbH, Dinslaken
- ➔ Start of construction: 30.03.2011
- ➔ Completion: 30.12.2011
- ➔ GFS/Usable area: 2653 m² / 2823 m²
- ➔ Total: 1.500.000 €