

Perfect Planning in 3D - Hauraton with Tailored Data for Drainage Projects

BIM: Facility management is increasingly in focus

Progress with Building Information Modelling (BIM): Hauraton is continually expanding its digital planning world for drainage projects. Increasingly, facility management and the operational management of a building are the focus of the offers. "An extremely important aspect for investors and operators," emphasises Alicia Kraft. The architect is responsible for the BIM sector at Hauraton. This means that numerous processes and data of a building project are mapped in a digital 3D model and integrated into its planning: technical drawings, geometric information, details of components, time, costs and much more.

BIM files: Densely filled with relevant info and functions far beyond the construction phase

"For planners, the large number and variety of functions that we have stored in our files is interesting, because they can also draw significant conclusions and concrete forecasts for later building operation from them," says Alicia Kraft.

For example, maintenance. The information for this is stored both geometrically and informatively in Hauraton's BIM model. The geometric part provides information, for example when the channel is inserted virtually into the model, about how much space must be taken into account in order to be able to remove the screws and gratings later during practical maintenance - for example, when cleaning the channel. Alicia Kraft: "This is particularly important in the area of façades. If enough space is planned between the façade finish and the channel based on the 3D information, later operation will run smoothly."

Prepare budget and time schedules in advance

It is also easy to calculate how many screws need to be loosened per metre of channel, which tools should be kept on hand for this and how many staff are needed. "Costs can be calculated precisely in this way," says Kraft, pointing out the advantages for operators who can anticipate costs at an early stage.

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Rastatt, May 2021

Determine individual installation area

Another function that Hauraton emphasises, especially with planners and contractors in mind, is the installation area. With the information stored here, differentiated calculations can be made as to how much foundation or material needs to be planned. The calculations can be made directly from the BIM model with the dimensions provided there. The same applies to the contractor's technical preparations: The exact installation area or excavation can be determined for each load class in the project.

Is the volume flow overloading the channel?

This question can also be addressed with Hauraton's BIM offer as early as the project planning stage. The drainage areas connected to the sides are checked virtually. Per metre per channel, they can be individually adapted to the areas in the project. Local rainfall events and surface runoff must also be taken into account. The volume flow in the entire channel run is calculated automatically from the components. "This way, it can then be quickly recognised whether a certain channel would be overloaded in practice and therefore it would be better to fall back on another product or another nominal size," explains Alicia Kraft.

Use BIM throughout the entire process

For optimal results, project cooperation should already begin in the planning concept and accompany the construction process up to the commissioning of the drainage system. "The cooperation can also be profitably designed far beyond that and extend into ongoing facility management," Alicia Kraft explicitly points out. "We also remain the contact partner during operation, for example in the event of maintenance or renovation and all other incidents throughout the entire life cycle."

All products of the drainage solution are presented in the form of a component management system as Autodesk Revit families for BIM. This allows planners to enter the objects directly into their BIM project. Depending on the planning phase, they are available in two different levels of detail or Level of Development (LOD).

The planner version as a graphical conceptual model offers the files in early performance phases in the smallest possible size for fast loading times. The level of detail (Level of Geometry = LOG) is low, but offers all geometric (from LOD 100-300) and non-geometric information (from LOD 100-500).

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Hauraton develops and distributes drainage and water management systems worldwide. With decades of experience and broad expertise, the owner-managed company is a specialist for customised solutions for large-scale projects. Due to its comprehensive product range for all fields of application in surface drainage, it is one of the international market leaders. Core service areas are civil engineering, landscaping, aqua construction and sports construction.

Hauraton lives the spirit of ingenuity: For 65 years, the success story of the family-owned company from Baden has been characterised by trend-setting new developments such as the Recyfix recycled composite channels, the Side-Lock locking technology or the Drainfix and Sportfix Clean systems for cleaning rainwater and filtering microplastics.

Hauraton distributes its product range around the globe with its own subsidiaries and partners in more than 60 countries. The reference list includes international projects such as the Formula 1 race track in Hanoi (Vietnam), Moscow's Lushniki Stadium for the 2018 Football World Cup, the launch pad for the Ariane 6 rocket in Kourou (French Guiana) and Frankfurt's Fraport Airport.

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