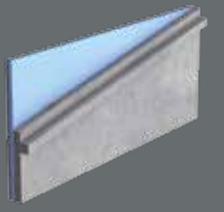
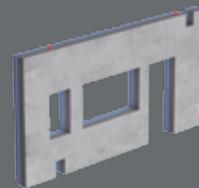
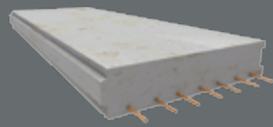
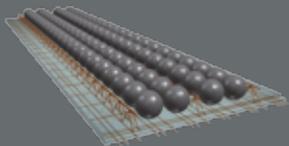




PLANBAR

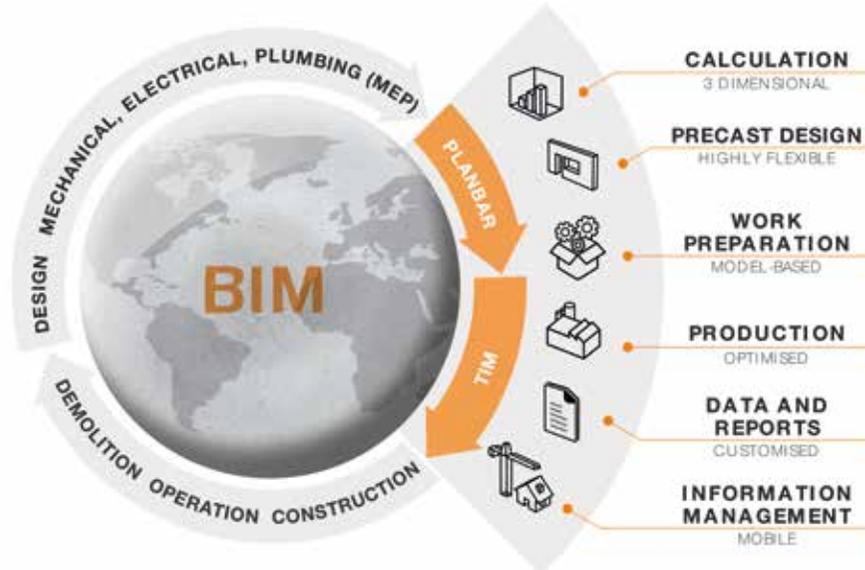
High-quality, industrialised precast concrete design

planbar



OPEN BIM -

Integrated Planning with PLANBAR and TIM



We connect worlds - our open software solutions PLANBAR and TIM are key to your success!

Modelling tools



Precast parts



Manufacturing execution system (MES)



As a globally active solution provider for the precast parts industry, we support you, from the first cost estimate to the planning and right up to production and assembly.

Therefore, our solutions play a crucial role in the entire BIM process.

We offer automation and the highest efficiency with serial production and provide flexible, high-performance functions for the design and production of demanding and complex precast parts.

Our service portfolio:

- **SalesManager:** Our solution for model-based quantity and volume calculation on the basis of PLANBAR - all without CAD knowledge.
- **PLANBAR:** The Precast Design Tool, which supports you optimally with precast parts design in any complexity.
- **TIM:** The Technical Information Manager, which sustainably optimises your processes as an information and integration platform.
- **mTIM:** The TIM app, which makes the building model mobile.

PLANBAR Features

- Model and plan-oriented work
- Ideal synthesis of 2D and 3D
- Optimised reinforcement that is ready for production
- Production documents at the push of a button
- Reliable data for production and invoicing
- Continuous data transfer
- Complex components are simply and easily designed with structural precast parts
- Openness to other systems through IFC import and IFC export

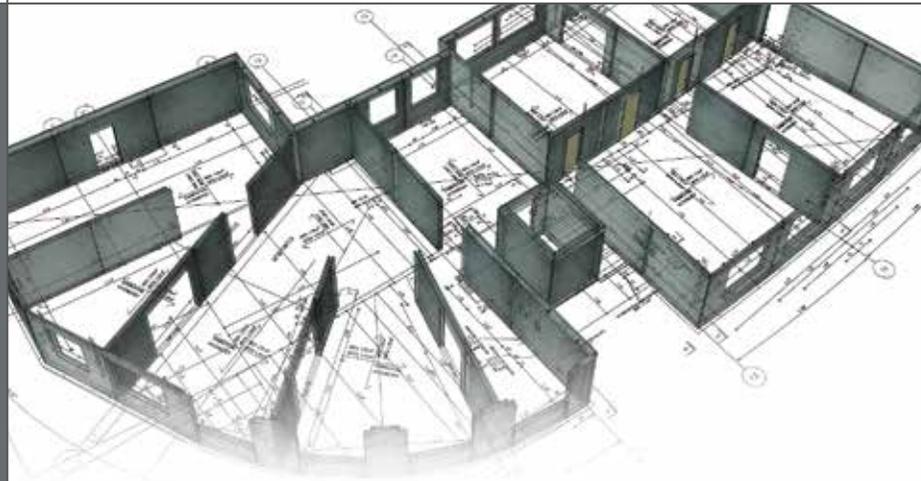
Wherever interfaces and different file formats dominate today, we want to accelerate the idea of Open BIM through open data exchange with other modelling tools.

This is why we concentrate on the topic of interoperability and continuously optimise our interaction with other systems. Extensive interfaces for the import and export of plans and data in all conventional file formats (IFC, DWG, 3D-PDF, CAM, PXML, 3ds, u3d, png etc.) take account of the BIM method.

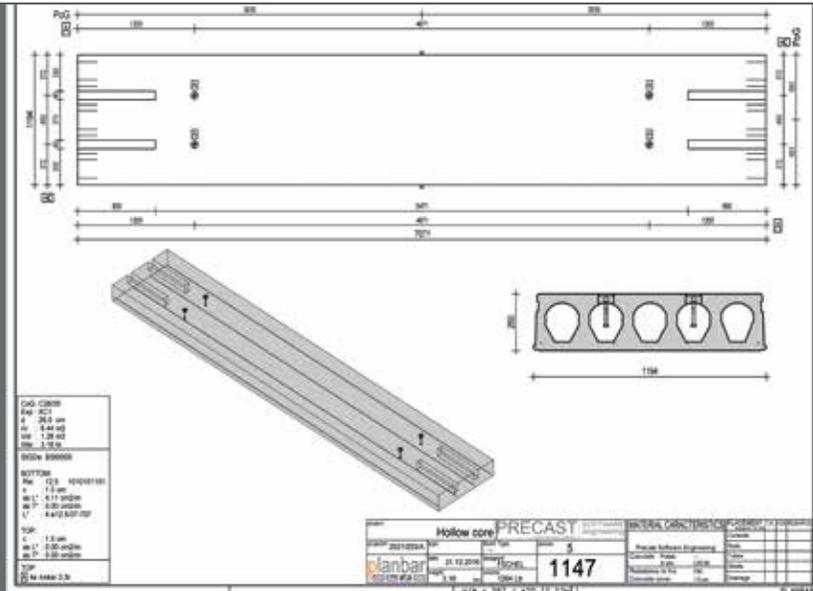
The transition to an "Open BIM", with potentially cross-sectoral uniform specifications concerning data maintenance and exchange poses a medium-term challenge for the entire precast concrete industry.

Choosing the best partners and tools offers an opportunity to embark upon this path in perfectly prepared manner.

T H I N K C O M P L E T E . Care for detail.



PLANBAR combines the advantages of three-dimensional models with excellent production documents.



PLANBAR offers an ideal and unique synthesis of model- and plan-oriented work. Because the **Element Plan** module solves the task of automatically creating production documents from a model with geometry and reinforcement.

This means that you can work on the plan in 2D and that the 3D model is automatically adjusted in the background, whereby PLANBAR naturally ensures that the model and plan remain consistent.

After all, production documents will stay just as important in the future. This is why we continue to emphasise perfect, mostly automatic document preparation.

At the same time, we utilise the added value of three-dimensional models: a permanent overview of the entire object with constant availability of all details, continuous consideration to change and simple, visual control options are only a few of the advantages posed by designing in 3D.

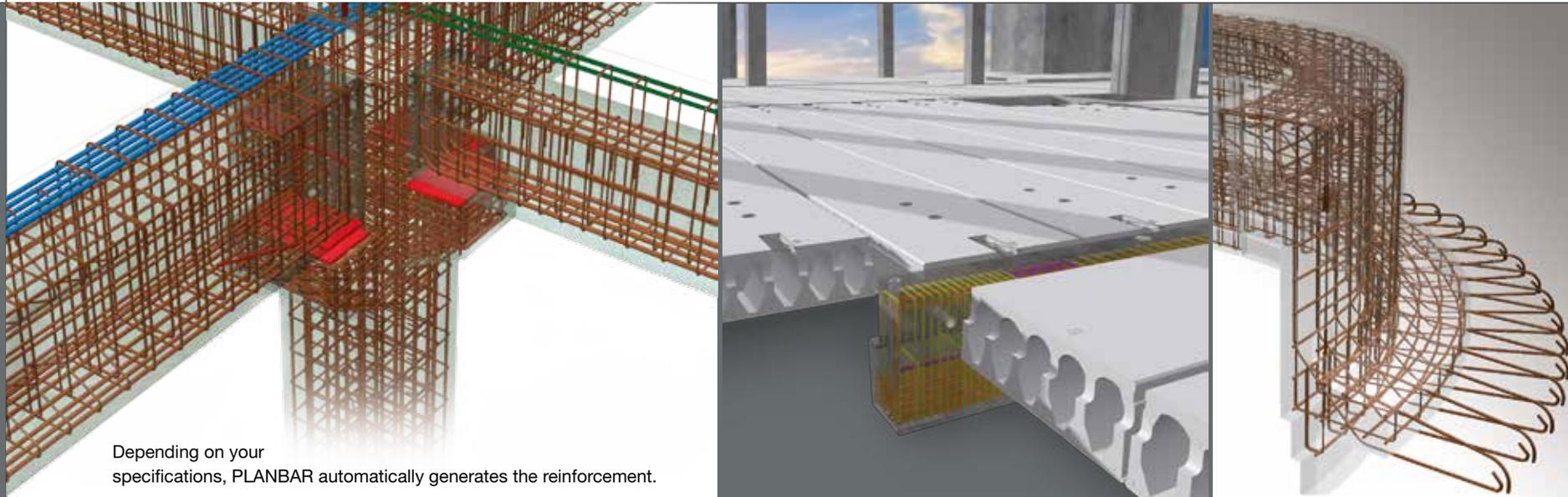
The 3D model also offers the option of data collection according to volume, cost and time criteria. This information is required during the work process and for integrated corporate or resource planning purposes.

Our Basis Allplan with the newly integrated Parasolid® Software from Siemens PLM Software offers you even more freedom during 3D modelling, especially when creating volume and surface models. The new 3D kernel also increases precision and performance during the modelling process.

Production docs at the push of a button

- Automatic creation of production documents
- Any modification and amendment to production documents, as required
- Model and plan are always consistent
- Changes in the model are directly transferred to the production documents
- Layouts can be individually created, depending on customer and element type
- Plan header and stamp are always up to date
- Multi-page Element Plans serve to display your specific content
- Significant increase in production efficiency and quality

THINK COMPLETE. Care for detail.



Depending on your specifications, PLANBAR automatically generates the reinforcement.

The design of reinforcement is a true highlight in PLANBAR and will optimally support you during the design and production processes of all types of precast parts.

In this regard, PLANBAR automatically creates reinforcement in accordance with your reinforcement specifications.

Round steel, reinforcing mesh, mesh stirrup and cages are available in catalogues and can be quickly tailored to specific characteristics.

Policies such as hook length, bending roll diameters, anchorage lengths can be easily and country-specifically adapted. The reinforcement automatically interacts with fixtures and production restrictions.

Required production data can then be automatically transferred to the machines in the factory or the master computer. Due to practically proven data interfaces, PLANBAR ensures smooth production from the very first day.

Reinforcement made easy

- creates plans automatically with labels and dimensions
- provides reinforcement printouts
- provides cutting and bending lists
- complies with your individual reinforcement specifications
- easy country-specific adjustment
- extremely easy implementation of modifications and supplements

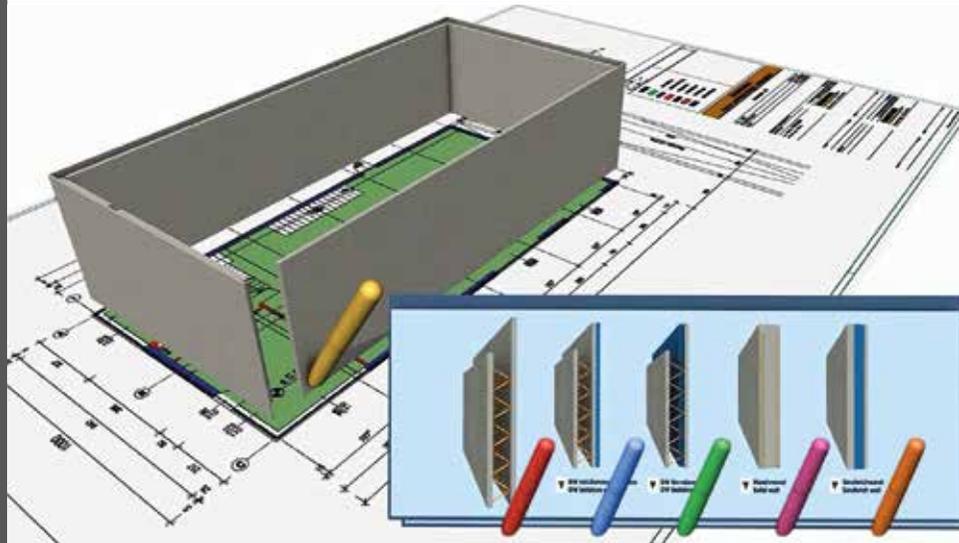
PLANBAR also convinces with the highest level of precision and flexibility in reinforcement production. Because in PLANBAR, you can design any type of reinforcement with simple or even more complex bending forms.

During the design phase, you can already verify whether the reinforcement can in actual fact be produced. This significantly increases productiveness and the production speed of your manufacturing process.

The required production data are then automatically transferred to the machines in the factory or the master computer, whereby PLANBAR supports all conventional data formats.

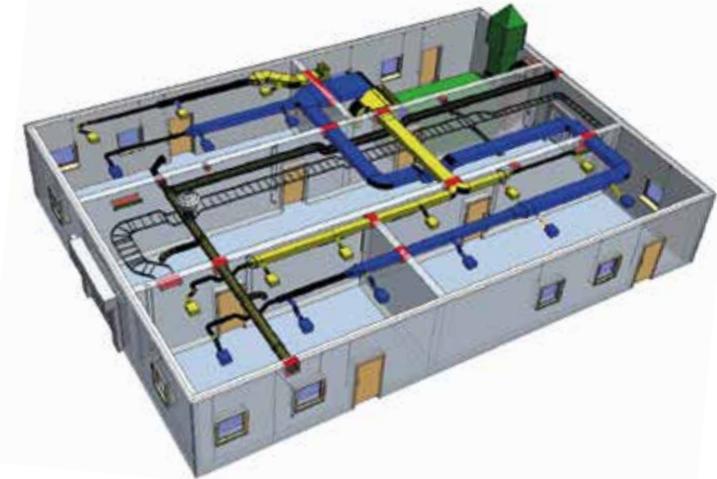
The continuous process chain of PLANBAR ensures that data only have to be entered once. With its higher efficiency, PLANBAR therefore supports you in smooth production.

THINK IN NEW DIMENSIONS



The ideal sales tool is the SalesManager, which quickly takes you from the quote to visualisation to the order.

The MEP Assistant supports you in the design phase, when dealing with mechanical, electrical and plumbing (MEP).



At present, precast parts factories frequently need to submit their offers on the basis of rudimentary layout plans or very basic models of the building contractors. In practise, this frequently leads to inaccuracies during the creation of proposals and uncertainties in the communication with the customer.

Faster than any tool so far, the SalesManager automatically, quickly and simply uses the building's model to determine volumes, creates lists and graphical reports and then transfers the data to a calculation programme.

Benefits & Advantages

- an easy and simple way to your 3D model
- graphical volume and quantity determination
- attractive visualisation of offered positions
- comprehensive listing of your delivery volume
- intuitive operation
- no CAD skills necessary

“With the help of SalesManager, I can transparently determine the necessary volumes across all workstations and implement any modifications quickly and easily. In this regard, the 3D model of the precast parts is a decisive help in the sales process.”

Dirk Spielbrink, Head of Sales, Lütkenhaus GmbH (Germany)

We stand for openness to other systems. This is why we concentrate on how we could import and export data even more easily. However, you can already now take a first step towards BIM with the IFC import.

This not only concerns the import of architectural components but also the data from mechanical, electrical, plumbing (MEP). Use the function MEP Assistant to quickly create fixtures and openings.

With the MEP Assistant you can import 3D objects you previously created directly in PLANBAR. The second practical option is the import of 3D objects provided by other systems, e.g. as an IFC file. After the import you can continue to design as usual.

PLANBAR naturally also offers you the option of subsequently modifying or deleting the fixtures.

You can then comfortably export your data as IFC.

T H I N K F U T U R E

**„As for the future,
your task is not to foresee it but to enable it.”**

Antoine de Saint-Exupéry, French author and aviator (1900 – 1944)

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