



New version allows interdisciplinary AEC teamwork on a single platform / Coordination of materials and construction methods / Superior BIM workflows and real-time collaboration

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## Allplan 2023: The Multi-Material Solution for Ultimate Buildability

Munich, October 13, 2022 - ALLPLAN, provider of BIM solutions for the AEC industry, launches the **new version of its BIM software Allplan 2023**. As a connecting **platform for interdisciplinary collaboration** between architects, engineers, precast plants and construction companies, Allplan 2023 enables efficient coordination and collaborative workflows. The **multi-material solution** covers everything from masonry, cast-in-place concrete to steel and timber construction and - **for the first time - precast concrete**.

The ability to coordinate different materials and construction methods in one

common model enables architects to better consider the **economical and sustainable use of building materials**, earlier, and in accordance with environmental requirements. Engineers and construction companies can **build directly on the architects' design** and use it as the basis for structural analysis and detailing, MEP engineering, prefabrication and construction. Allplan 2023 supports **workflows across the entire process** from the initial idea to the completed project, enabling time, cost, and material savings.

*"Our corporate vision is to make Allplan the most widely used central platform for the global AEC industry, enabling users to realize sustainable, functional and outstanding buildings and infrastructure,"* says Dr. Detlef Schneider, CEO at ALLPLAN. *"With Allplan 2023, we have a comprehensive platform for efficient coordination and interdisciplinary collaboration that covers the entire design and construction process from initial design to execution planning for site and precast design. Allplan is your AEC platform to design and build together."*

## **Highlights for building design**

When it comes to building design, productivity, quick and easy modeling is key. The **properties palette has been updated** to make creating and adjusting openings in walls and slabs more convenient, flexible, and swift. Simply specify the dimensions and any sub-objects – such as lintels, rabbets, or facings – in the palette, and Allplan 2023 does the rest.

Due to increasingly complex construction projects and the trend towards ever more detailed planning, data volumes are continuously rising. Terrain surveys or point clouds with many millions of points represent a particular challenge. Allplan 2023 processes such data directly on the graphics card. In this way, **large volumes of data can be reliably processed** without time delays or memory limits.

Designing and detailing reinforcement is also faster than before. Allplan's **automated reinforcement modeling** is a stand-out feature. Now it is even more effective in Allplan 2023 with the ability to reinforce several identical walls and columns at the same time. With regard to the increasing requirements in BIM projects, the attribution of reinforcement has been extensively revised, and a new release manager supports the cycle-accurate ordering of reinforcement in lean construction projects. Massimo Stefani, architect and BIM Consultant at Harpaceas, comments: *"With Allplan 2023 a*

*series of new features are provided that make the positioning of the reinforcements in the modeled structure even easier, faster and more intuitive than was previously possible. In addition to what is enabled with the numerous PythonParts developed in previous versions, the new automatic reinforcement functions of some typical elements allow you to further speed up the workflow.”*

The Allplan 2023 version is characterized by **newly integrated precast design and detailing features**. As a result, engineering offices and precast plants can now create even the most complex of precast components in one platform using a familiar interface. This not only simplifies project coordination, but also enables new, even more efficient workflows. Reinhard Roscher, Managing Director of CAD-Forge GmbH from Graz, is also impressed by the new possibilities: *“I have already had very positive experiences with Allplan 2023 as a beta tester and I am able to create high-quality plans for my customers in precast plants.”*

Accurately **modeling steel framework** is another activity that can be time-consuming. To overcome this, Allplan 2023 now lets you customize the start and end angles of the structural framing elements, as well as specify holes and end conditions. There’s no need to manually model each feature, so more detailed frames can be created in less time and to higher precision, improving efficiency of communication while collaborating with detailers, fabricators, MEP engineers, and other BIM stakeholders.

Convincing clients of creative ideas is often best achieved with atmospheric visualizations of the project. With Allplan 2023, the **powerful visualization options** have been extensively enhanced. Visualization effects are now also available throughout the animation as well as with Realtime Render and CineRender. The integration of the Lumion LiveSync connection improves the visualization workflow by tracking Allplan scenes and their changes in Lumion in real time.

## **Highlights for infrastructure design**

There is a major **productivity boost for users working on terrain and road plans**. Allplan 2023 improves and automates plan rendering and introduces additional components and layers. This results in a reduction of manual workflows leading to significant time savings, further supported through an IFC road-compatible building structure and attributes for smoother data

exchange.

With **Allplan Bridge 2023**, parametric modeling along axes is extended to include free parametric modeling of basic bodies such as prisms as well as associated Boolean functions. This introduces a new era in modeling, allowing bridge components, bridge abutments but also, for example, integral bridges to be modeled with maximum efficiency. Additionally, the calculation options have also been further extended, for example for external tendons.

### **Highlights for construction planning**

Inner-city construction and infrastructure projects often necessitate accurate excavation shoring. Allplan 2023 supports the detailed design of these requirements with **new functions for planning bored pile and soldier pile walls**, as well as ground anchors.

Every construction site situation is different and requires individual and careful consideration, for example, for the **intelligent placement of cranes, containers, or fences**. Allplan 2023 provides new objects such as the 'tower crane' with collision detection as well as simple capacity checking, that is particularly easy to customize and can also be linked to specific manufacturer data such as tower, foundation, and jib dimensions. With tools like these, a well-thought-out construction site setup can be planned and achieved in the shortest possible time.

### **Highlights for interdisciplinary collaboration**

No one designs a project in isolation. Now, with a host of **updated interfaces and libraries**, getting that information from your model and into a format that can be used by an external party is even more efficient than previously. For example, IFC, DWG, and DGN formats all use the Open Design Alliance libraries, for the most up-to-date and widely used formats. Other available formats include SAF for structural engineering, SHP for cadastral information, IFC4precast for precast concrete, and the IFC4 Reference View export has been certified by buildingSMART.

Instead of importing and exporting BCF files, the connection of the Allplan Issue Manager with the **Solibri BCF Live Connector** now allows issues identified during model checking in Solibri to be transferred directly to the issue workflow in Allplan. Thus, issues can be evaluated and processed, edited, and corrected directly in Allplan.

## Availability

Allplan 2023 as well as the **free 30-day trial version** are now available for download.

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## About the Nemetschek Group

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Publicly listed since 1999 and quoted on the MDAX and TecDAX, the company achieved revenue amounting to EUR 681.5 million and an EBITDA of EUR 222.0 million in 2021.

## Contacts

**ALLPLAN**

**Janet Kästner**

Senior PR & Marketing Professional

Allplan

[jkaestner@allplan.com](mailto:jkaestner@allplan.com)

+49 89-92793-1301