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ALLPLAN 2025: Revolutionizing Design and Construction with AI-Powered Tools and Real-Time Collaboration

Seamless and innovative workflows for substantially increased productivity across all disciplines

Munich, 15 October 2024 – ALLPLAN has launched its latest version of BIM software, setting a **new standard in design and construction workflows**. ALLPLAN 2025 introduces advanced features that empower architects, engineers, fabricators, and construction professionals to work more efficiently and collaboratively than ever before. With powerful **AI-driven visualization, automated design tools, and seamless real-time collaboration**, the software

offers significant productivity gains and enables teams to deliver high quality projects with superior precision. By streamlining processes and improving interdisciplinary coordination, ALLPLAN 2025 paves the way for a **new era of innovation in the AEC industry**.

The construction industry is facing increasing demands for faster, more efficient processes, driven by labour shortages and rising costs. In response, ALLPLAN 2025 offers automated workflows, real-time data access, and enhanced collaboration to help maintain competitiveness and deliver more successful projects. "*ALLPLAN 2025 is a game changer for AEC professionals delivering innovative design-to-build workflows and real-time collaboration that significantly increase productivity. Our AI-driven and automated tools not only save time, but also enhance the quality and creativity of projects, fostering true collaboration and innovation",* said Eduardo Lazzarotto, Chief Product & Strategy Officer at ALLPLAN.

From AI-driven visualization for architects to advanced reinforcement modeling for civil engineers, ALLPLAN 2025 ensures seamless, efficient workflows across all disciplines. Here are some key features for various AEC sectors:

Highlights for Building Design

ALLPLAN 2025 introduces **AI-powered visualisation workflows** to support the idea generation process. With the AI Visualizer tool, visualizations can be created in seconds without additional costs or hardware limitations, as the images are generated in the cloud. The new tool provides inspiration in the early and later design stages and is suitable for visualising both exterior and interior architecture.

ALLPLAN 2025 also brings substantial improvements to BIM workflows. A new **ceiling system tool** accelerates the modeling and management of suspended ceilings, making it easier to coordinate and visualize building services such as lighting, smoke detectors, and ventilation systems. For projects with complex components, the **enhanced multilayer slabs feature** simplifies the design, planning, and modification of multi-layer slabs, allowing to easily meet the requirements of different project phases.

Designers are always looking for content to optimize their model and design quality according to the latest standards. To support this task, an **enhanced**

Content Connector now offers integration of the comprehensive 3DFindit platform from Cadenas.

Highlights for Engineering

The latest version of ALLPLAN 2025, further enhances the software's multi-material capabilities, providing users with more efficient modeling and detailing tools.

The ability to automatically place **reinforcement along any surface,** eliminating the need to model each bar individually, is a significant time saver for structural engineers. The freeform reinforcement functionality works for 3D freeform geometries as well as slabs and walls. Daniel Bacon, managing director of gbc engineers, comments: *"ALLPLAN 2025's enhancements in automated reinforcement placement will further reduce design effort."*

AutoConverter is a service hosted in the ALLPLAN Cloud via BIMPLUS that can create structural models from 3D geometric models and export them to a wide range of structural analysis solutions. The enhanced version of AutoConverter now supports the handling of curved beams, both in-plane and out-of-plane. This is useful for architecturally challenging structures with multiple curved elements.

The modeling of **steel connections** has been further enhanced to improve the user experience and enable compliance with Eurocode 3. This provides better integration with SDS2 for connection design, detailing and fabrication.

The merger of ALLPLAN, FRILO, and SCIA has created new opportunities for structural engineers and reinforcement detailers to work closely together. As a **technical preview**, ALLPLAN 2025 introduces the ability to **transfer reinforcement parameters**, such as the number and diameter of longitudinal reinforcement and the diameter and spacing of stirrup reinforcement, from the FRILO B5+ column program to the automatic column reinforcement in ALLPLAN 2025.

Highlights for Infrastructure

The enhanced Allplan Bridge functionality is now included in the **newly**

formulated ALLPLAN Civil edition, which enables the design of bridges as well as all types of civil structures.

A **new parametric reinforcement modeling approach** allows users to easily define multiple reinforcement shapes for civil structures, streamlining workflows and increasing productivity and accuracy. Ciprian Popa, founder of StructuralGlass.org, adds: *"The parametric reinforcement modeling approach in ALLPLAN 2025 significantly streamlines workflows, increasing both productivity and accuracy. It is a decisive step towards greater automation in design and construction."*

An entirely **new design to build workflow for precast girder bridges** with automated processes is enabled, and better project handling and data management is achieved through improvements to navigation trees. Improved parametric intersections and digital terrain modeling enhancements support superior road design.

By using **predefined templates for common design elements** in the latest release, engineers can quickly create detailed models and ensure consistency across projects. This approach not only streamlines workflows, but also allows for easy updates and adjustments, increasing overall accuracy and productivity.

Highlights for Fabrication and Construction

ALLPLAN 2025 enables design to build workflows for superior **coordination of multi-materials requirements** based on different types of construction processes.

For the precast industry, precast detailers and fabricators, ALLPLAN continues to converge technology and improve workflows. The enhanced **Precast Data Validator** is a key tool for minimizing errors in precast design and detailing. It enables the production of high quality, error-free precast concrete elements, so users can rely on the model for correct data.

There is now improved handling of textures in **views and sections** for consistent output, i.e. optimal plans and layouts. For precast parts, ALLPLAN users will benefit from improved usability and time savings through unified views and sections that can be used for multiple materials.

In ALLPLAN 2025, the **excavation modeler** has been updated to allow users to create soil layers and individual reports for smaller excavations. In addition, the **formwork planning add-on** allows automatic assignment of formwork wall elements. The **Peri Maximo** formwork system has now also been added.

Platform Highlights

ALLPLAN 2025 delivers collaborative design to build workflows through ALLPLAN Cloud services, the robust solution designed for use and interaction with multiple disciplines across the AEC industry. An example is the new **workflow with Bluebeam Studio**, allowing users to easily bring documents from the Bluebeam Studio Project environment into their ALLPLAN workflows. This provides users with a digital delivery environment for handover at different project stages to synchronize 3D and 2D data and exchange it with project stakeholders.

Furthermore, the **navigation logic has been improved**, allowing for easier rotation, zooming, and orientation in both 3D and 2D modeling spaces. This update aims to enhance the navigation experience and productivity for architects and engineers.

Availability

ALLPLAN 2025 as well as the free 14-day trial version are now available for download.

More information: ALLPLAN 2025

About the Nemetschek Group

The Nemetschek Group is a globally leading provider of software for digital transformation in the AEC/O and media industries. Its intelligent software solutions cover the entire life cycle of construction and infrastructure projects and allow creatives to optimize their workflows. Customers can plan, construct, and manage buildings and infrastructure more efficiently and sustainably, and develop digital content such as visualizations, films, and

computer games in a creative way. The software company drives new technologies and approaches such as artificial intelligence, digital twins, and open standards (OPEN BIM) in the AEC/O industries to increase productivity and sustainability. We are continuously expanding our portfolio, including through investments in disruptive start-ups. More than 7 million users are currently designing the world with the customer-focused solutions of our four segments. Founded by Prof. Georg Nemetschek in 1963, the Nemetschek Group today employs more than 3,400 experts.

The company, which has been listed in the MDAX and TecDAX since 1999, achieved a revenue of EUR 851.6 million and an EBITDA of EUR 257.7 million in 2023.

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