

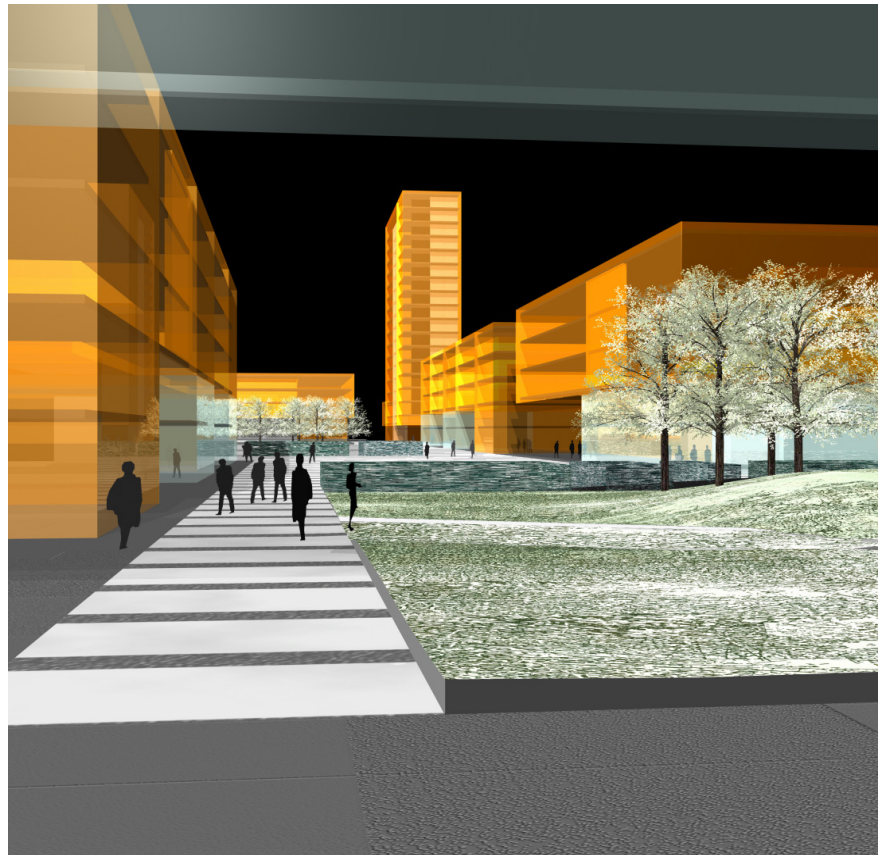
Allplan BIM 2008 for Architects

Performance Highlights



The interdisciplinary integrated solution for layout, component-oriented design, visualization, and construction costing

Allplan BIM for architects is the intelligent planning system from Nemetschek that supports you efficiently from the presentation of your initial draft idea, application and building costs planning right through to the working drawing and detailed planning. With Allplan you can cover the whole added-value chain in your design office and thus achieve more from the same resources. There are packages available to suit your particular requirements.



Picture: Westend campus, Johann Wolfgang Goethe University in Frankfurt/Main, Architekten pmp, Munich

Ease of Use

In addition to the latest Windows and CAD standards, Allplan provides a wide range of practical methods for entering data so that newcomers will quickly find their way around Allplan.

- ▶ Freely configurable user interface
- ▶ Intelligent cursor with user-friendly filter functions and snap tools
- ▶ Drag & drop, handles and Windows-compliant shortcuts
- ▶ Insertion of images, texts etc. via Clipboard
- ▶ Intuitive selection of tools using the right mouse button and visual assistant
- ▶ Format painter to quickly copy e.g. pen, and color
- ▶ Workspace can be rotated for optimum ergonomics
- ▶ Repeat and restore of entries, even after you have saved

- ▶ Support of mouse wheel in all modules (e.g. zooming dynamically)
- ▶ Express refresh function for fast zooming and moving
- ▶ Insertion and editing of documents from other applications such as Word, Excel etc. (OLE)
- ▶ Intelligent x-refs
- ▶ Save and load of files using Windows Explorer or innovative Allplan project structure
- ▶ Preparation of scanned plans
- ▶ Printing of any paper formats thanks to RTL grid raster driver
- ▶ Easy insertion of ortho-corrected images
- ▶ Creating custom lists and schedules without programming knowledge being required
- ▶ Extensive symbol catalogs
- ▶ Extensive online Help system

Performance Highlights

- ▶ Layout, component-oriented design, visualization, and construction costing with just one software
- ▶ Integrated system for building planning, interior design, trade fair construction, landscape design, city planning, regional planning
- ▶ Custom packages
- ▶ If required, optimum integration with all tendering, awards and billing systems
- ▶ Flexible working in a team
- ▶ Simple automated data exchange, e.g. for AutoCAD
- ▶ Ideal for small and large projects and for lead consultants

3D Modeling and Sketching

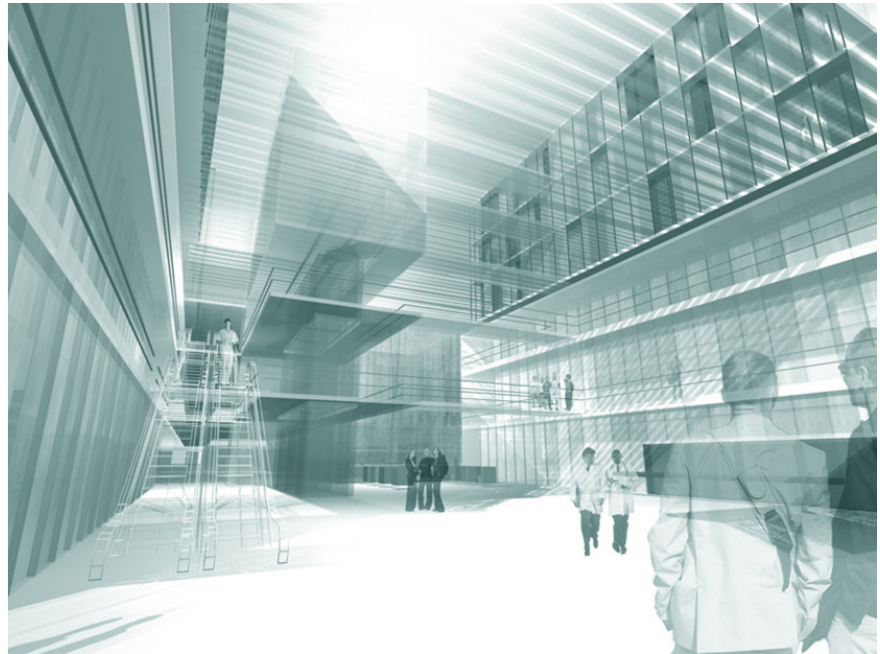
Using Allplan's powerful modeling and sketching tools, you can draft and design intuitively and make any modifications – after all, ideas rarely emerge at the push of a button.

- ▶ Modeling and sketching in three-dimensional space
- ▶ Powerful modeling tools for creating standard solids, solids of revolution, polyline sweep solid, pyramids and tessellated solids (Boolean operators)
- ▶ Joining of 3D Objects
- ▶ Simultaneous working in multiple viewports using 3D crosshairs
- ▶ Associative views and sections
- ▶ Creation of presentations of your design in real time while working in multiple animation windows
- ▶ Intuitive working: merging, slicing and intersecting solids, piercing surfaces
- ▶ Optional: Direct use of CINEMA 4D modeling tools possible in Allplan

Freehand Sketches

With Allplan, you can create freehand sketches more easily than on paper with natural line thicknesses.

- ▶ Can be used from redlining through to design
- ▶ Fast results and easy handling from the start
- ▶ Drawing aids e.g. photos of the area as digital background
- ▶ Easy sending via email



Picture: First prize in competition held by Hamburg-Eppendorf University Clinic, Nickl & Partner Architekten, Munich

Presentation

The presentation tools are directly integrated in Allplan and allow you to present your design in real time while you draw. You do not need any additional software or interfaces.

- ▶ Several animation windows to display and check models
- ▶ Calculation of high-resolution, photo-realistic images using various rendering methods
- ▶ User-definable surface properties and textures
- ▶ Interactive camera movement in animated mode
- ▶ Mist, seasonal surfaces for spring, summer, fall and winter
- ▶ Shadow calculation, any light sources and lamps
- ▶ Walk-throughs, sun studies, AVI movies
- ▶ Interactive connection to CINEMA 4D
- ▶ Export and import of a large number of bitmap formats

Layout and Design

Allplan includes extensive layout and design tools – providing you with innumerable options to present your ideas convincingly: combine drawings, images, graphics and text in no time at all and create outstanding layouts, tables, boards, presentations and much more.

- ▶ Fills with color transition and transparency for making light settings, for example (transition from one color to another, transition can even be defined for transparency)
- ▶ Transparent bitmaps for textures, backgrounds and structures (e.g. take a photo of the floor covering and use it as a pattern)
- ▶ Sequence properties of elements (setting is also taken into account in subsequent printing and plotting operations)

- ▶ Exact positioning of geo-referenced orthophotos (as TIFF or JPG files) with bitmap area
- ▶ Textures for realistic features in 2D drawings or associative views and sections
- ▶ Blanking for text and dimension text
- ▶ Integrated bitmap editor for refining images in Allplan

Building Design and Interior Design

Allplan's layout-oriented and component-oriented approach to building design allows you to efficiently create layouts based on a digital building model, which is also the basis for subsequent presentations and exact cost calculations.

- ▶ Creation of a building model using "intelligent components" (entering and modifying data in the same dialog box)
- ▶ Entry and editing of components in plan view, isometric view or in an animation window
- ▶ Automatic, graphical wall intersection with correct quantities
- ▶ Assignment of priorities: e.g. reinforced concrete support takes priority over brick wall
- ▶ Automatic separation of different materials
- ▶ Automatic "repair" of intelligent components when undoing work steps or changes
- ▶ Ongoing updating of dimension strings, weights and areas
- ▶ Even complex plan changes in a single step: e.g. floor height change with single entry (modification of wall height, automatic adjustment of reinforcement and lintel/header), transfer of changes to other floors with a mouse click

- ▶ Correct adjustment of e.g. hatching depending on scale
- ▶ Special user-friendly tools for stair design and roofs
- ▶ Façade Modeler

Quantity Takeoff and Building Costs

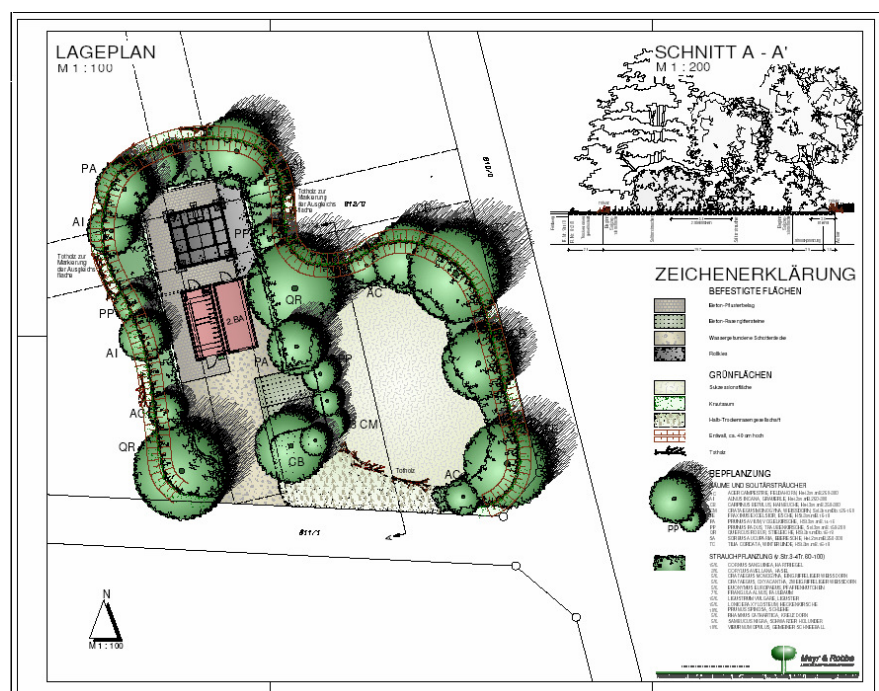
Allplan automatically handles a multitude of important and time-consuming tasks: e.g. Allplan calculates quantities, generates lists and schedules or transfers data to systems used for tendering, ordering and billing.

- ▶ Automatic lists with expert knowledge in accordance with VOB calculation rules
- ▶ CAD-supported quantity takeoff permits VOB-compliant tenders even at position level
- ▶ Current, exact and traceable quantities at all times at the click of a mouse
- ▶ Exact area calculation for manually or automatically determined rooms (inclusion of new floorspace regulations from 1.1.2004)

- ▶ Automatic assignment of floor area and door reveal according to door swing
- ▶ Automatic inclusion of roof slopes in accordance with second calculation directive
- ▶ Option of exporting all lists to MS Office
- ▶ Area and cubic volume calculation to DIN 277 (new legislation)
- ▶ Construction costing to DIN 276 (cost group 3)
- ▶ Integrated connection to tendering, ordering and billing system

Landscaping, City Planning and Regional Planning

Allplan provides special, fully integrated and powerful tools for landscaping, city and regional planning.



Picture: Site plan, Mayr Et Robbe Landschaftsarchitektur, Neusäss

- ▶ Digital terrain and path modeling: Triangular meshing, contour lines, slope calculations, verifiable cut and fill (REB), longitudinal sections, curved lines, torsion lines, profiles, quantities etc.
- ▶ Landscaping: 2D/3D, complete from draft to implementation, automatic creation of plant keys, interface to Bruns catalog, tree plans etc.
- ▶ City and regional planning: 3D sections with floor, roof, spacing and plot areas, roof modeling incl. gable and barrel roof, analyses (e.g. roof suitability, building method), incl. terms from occupancy and drawing symbol regulations etc.

Technical Building Services

The TBS modules enable designers to include their concepts in the technical building services.

- ▶ Fast definition of electrics, heating and sanitation with just a few parameter entries
- ▶ Professional building simulation for the dynamic calculation of energy data and analyses such as the heating and cooling load

Rapid Data Management and Collaboration

Even large data volumes for complex building projects can be processed quickly with Allplan – even when the workgroup manager is used by several people simultaneously.

- ▶ Building-specific structuring of data using drawing file and layer technology
- ▶ Multifile system data maintenance enables several files to be loaded and unloaded simultaneously
- ▶ Management of the data quantities so that only the objects currently required are loaded
- ▶ Parallel access to a project by more than one user on the network
- ▶ Teamworking irrespective of location
- ▶ Use of peripherals such as printers and scanners in the network
- ▶ Transparent data access: see who is working on what
- ▶ Central management of all design objects from one location
- ▶ Definition of office standards and parameters for uniform working methods and designs
- ▶ Assignment and changing of rights for projects and project components
- ▶ Administrator function for project settings
- ▶ License server for optimum use of all your Allplan licenses

Data Exchange

Allplan offers almost unlimited data exchange options.

- ▶ Import and export of 2D and 3D PDF documents
- ▶ Time-saving interface technology for automated data exchange with high data integrity: e.g. DXF and DWG

- ▶ The individual settings for each project design partner need only be entered once
- ▶ Easy and simple processing of scanned drawings
- ▶ Object manager to prepare and analyze digital or scanned plans for facility management and other tasks
- ▶ Intelligent integration of facility management software
- ▶ Allplan connects architecture and engineering in a single application

Where to turn for help

We offer comprehensive support before and after purchase.

- ▶ Attractive conditions
- ▶ Special offers for students, trainees, educational establishments and startups
- ▶ Qualified range of training measures (Nemetschek Campus)
- ▶ Direct consulting and support

Further Information

If you need additional information or would like to find out more about one of our products, please contact your local Nemetschek dealer or visit our website at: www.nemetschek.com.