

A photograph of the Melbourne Convention Centre at dusk. The building features a large, dark, angular roof structure and a facade of tall, narrow glass panels. The entrance area is illuminated with red lights, and the words "MELBOURNE CONVENTION CENTRE" are visible on the facade. The sky is a deep blue, and some streetlights are visible in the background.

GRAPHISOFT.
ARCHICAD 13

SHARED
PRODUCTIVITY

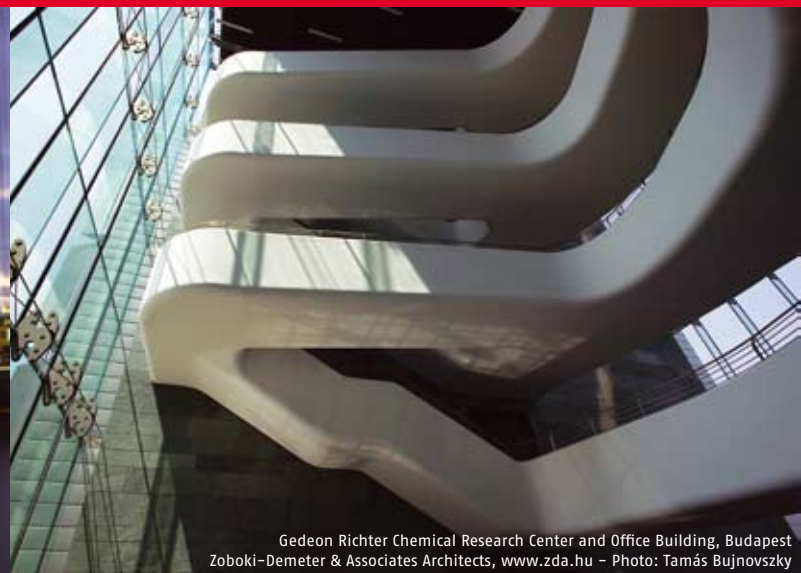
The best reward for a passionate architect is to see design ideas take on physical form. With Graphisoft ArchiCAD® Virtual Building™, you can explore your design ideas with full confidence that every detail is being captured and all your documents are synchronized. Our latest release reinforces ArchiCAD's position as the most complete and flexible design and documentation solution in the BIM category. ArchiCAD 13 introduces leading-edge technologies that revolutionize Design File Sharing and deliver mission critical Productivity Improvements for the design and documentation workflow.

SHARED PRODUCTIVITY

From the outset, ArchiCAD was built to specifically address the architect's desire for great design without compromising on practical needs. Graphisoft ArchiCAD's innovative Virtual Building solution helps you win more business while letting you concentrate on your core skill – creating inspiring designs.



Sir Peter Blake Memorial Project, NZ National Maritime Museum, NZ
Architect: Pete Bossley Architects, Auckland, NZ
Presentation Image by Buildmedia, Auckland, NZ



Gedeon Richter Chemical Research Center and Office Building, Budapest
Zoboki-Demeter & Associates Architects, www.zda.hu – Photo: Tamás Bujnovszky

VIRTUAL BUILDING

Working with ArchiCAD, you will discover the pleasures and the benefits of designing in a 3D architectural environment with extraordinary modeling freedom. Based on a profound knowledge of the architectural process, ArchiCAD's Virtual Building simulates the way a real building is constructed. From town planning to intricate details, from functional study to complex design, ArchiCAD's specialized tools are always available and extremely easy to use, ensuring that there are no boundaries to your creativity. With ArchiCAD, you create a 3D virtual model: all the necessary documentation and images are derived automatically.

The project lives and evolves on the screen simultaneously with your thoughts, allowing you to concentrate on your strength – creating inspiring designs. Virtual modeling is a natural and intuitive process which is both inspiring and enjoyable. Watch your building model evolve before your eyes. With the clarity of 3D, your clients can truly appreciate good design.

DESIGN

Any architect with the passion to freely explore design ideas can fulfill their wish without compromising on documentation precision and quality. With ArchiCAD you can model and shape freely, easily creating the forms you want and change naturally even complex elements in the most appropriate view. Like editing Curtain Walls as one element in standard views and its parts in an innovative 3D edit mode: based upon a flexible hierarchical structure of schemes, physical members and additional accessories, users can easily change and control the entire system or the smallest detail throughout the entire project.

ArchiCAD enables you to combine creative freedom with the well-known efficiency of the robust Virtual Building. A comprehensive set of tools support the creative process within the context of the project – so while you design your project all documents will be generated as a by-product, assuring smooth workflow and real-time evaluation.

DOCUMENTATION

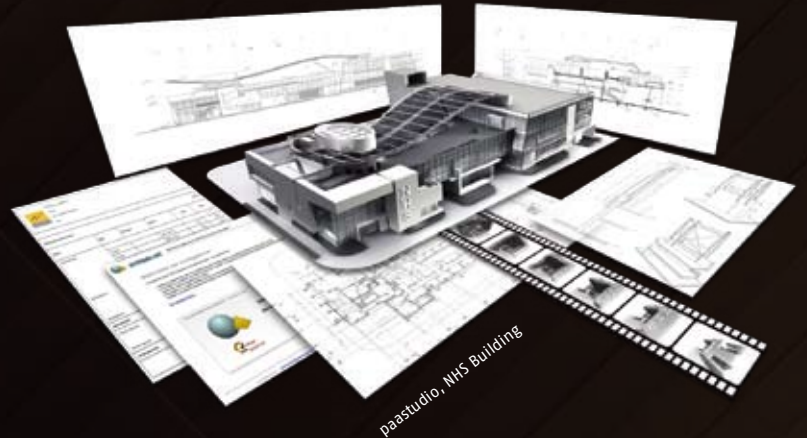
The innovative 3D Document capability enables users to use any 3D view of the model as the basis for creating a document where dimensions, annotations and even additional 2D drawing elements may be added. This helps designers more easily communicate their design intent. This new level of clarity in communication helps users to spend less time on design iteration with owners and reduce the number of construction issues which increase cost and lengthen project schedule.

ArchiCAD 13 continues the trend of delivering mission critical productivity improvements in each major release of ArchiCAD. ArchiCAD 13 introduces Annotated Schedule Drawings, Oriented Views, Intelligent Symbol Fills, Improved Object Handling, 64 bit Support and many more. These improvements further enhance ArchiCAD's best-in-class design and documentation workflow.

INSIDE ARCHICAD



Palm Jebel Ali Masterplan, Dubai, UAE
Fender Katsalidis Mirams Architects, Australia



paastudio, NHS Building

Design in a 3D Virtual Building environment and get all documentation generated as a by-product.



THE SOFTWARE ONCE AGAIN PROVED ITS WORTH. IT WAS POWERFUL ENOUGH TO COPE WITH DIFFICULT GEOMETRY INVOLVING CURVES IN BOTH DIRECTIONS, AND GAVE US GREAT FREEDOM IN THE AREAS OF STYLING AND DETAIL.



Thomas Joseph Rampp

Dubai Sports City Tower
Architect: Lang Hugger Rampp GmbH



Boost your BIM performance with globally unique multiprocessor support on both Windows and Macintosh and with **64-bit** support on Windows.

Architect: Fabian Ariel Hernandez



Create cutting-edge presentations with the integrated state-of-the-art rendering engine.

SHARED PRODUCTIVITY

The ArchiCAD Virtual Building, including industry-first GRAPHISOFT BIM Server technology, provides a model based collaboration environment for teams of any size. BIM projects can now be accessed from both within the office and through the Internet.



Veneto Precinct, Dubai Waterfront, UAE
Fender Katsalidis Mirams Architects, Australia



Golden Library, Łódź, Poland
Maciej Grelewicz

COLLABORATION

Building information modeling brings unique challenges to the design team: when implementing BIM on a large scale, architects often run into bottlenecks in model accessibility and workflow management. ArchiCAD 13 introduces the industry-first GRAPHISOFT BIM Server for on-demand access rights management and project access for teams of any size, both within the office and through the Internet.

Thanks to ArchiCAD 13's collaborative environment, long waiting times for server synchronization are a thing of the past. Our leading-edge Delta Server technology dramatically decreases network traffic, so team members can collaborate on BIM models in real time. The same technology makes BIM projects accessible through standard Internet connections from virtually anywhere in the world.

COORDINATION

The Virtual Building automatic update capabilities make coordination between documents effortless. When you create a 3D model, which all the building components are shown, you can check every part and any aspect of your project. And this is not the only way ArchiCAD supports the crucial goal of coordination. ArchiCAD's innovative Virtual Trace™ technology enables you to easily coordinate your work and track design changes both internally and with multi-disciplinary teams.

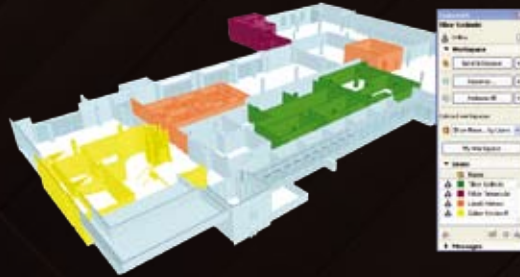
Working with ArchiCAD, you can quickly and visually analyze differences between your 3D model, 3D and 2D documents and consultants' documents. It becomes much easier to detect clashes between different building systems before construction starts. The combination of these comprehensive capabilities makes ArchiCAD an extremely efficient coordination tool.

CONTROL

ArchiCAD's renowned Virtual Building, together with the industry-first GRAPHISOFT BIM Server technology, provide unmatched control over the design project within an extremely flexible workflow. Using ArchiCAD, architects can define and control the balance between 3D and 2D work to match their own preferences, the project type or team members' abilities, thus making the most of their team's expertise and tailoring the technology to fit their workflow. The GRAPHISOFT BIM Server provides central control for CAD/BIM Managers over team members' roles and responsibilities in BIM projects. The dynamic nature of design projects requires parallel processes, smooth workflow and tight control. Using ArchiCAD, you can achieve all these with the confidence that your documents are synchronized and that the right type of document is at hand to clearly illustrate your thoughts. You keep control over the process, while your clients receive the highest quality design.

INSIDE ARCHICAD

Wissenschafts- und Kongresszentrum Darmstadt, Germany
Architects: Talik Chalabi and fs-architekten, Darmstadt
Photo: Architekturfotografie, Claus Graubner



Use **Teamwork technology** to enable your team to work simultaneously on various aspects of the same project, while keeping all team members updated on project progress.

ArchiCAD's Teamwork, with on-demand element access and server-level conflict management, combines the flexibility of 2D workflows with the coordination power of the model-based world. Companies can utilize their workforce much more efficiently with a dynamic and centrally controllable design workflow.



Yellow Treehouse restaurant
Architect: Peter Eising
Photographer: Lucy Gauntlett



Use any 3D view of the model to create a **3D Document**, in which dimensions, annotations and 2D drawing elements may be added. This new level of clarity in communication helps reduce construction issues, thus saving money and speeding up the project schedule.

WORKFLOW

ArchiCAD's workflow gives you more control over your design, while maintaining accuracy and efficiency in documentation. From the central database of the 3D model data, you can extract all the information needed to complete architectural and structural plans, sections and elevations, details, bills of quantities, window/door/finish schedules, renderings, animations and virtual reality scenes. The Virtual Building approach also enables you to make changes at any time, while maintaining the integrity of your documents automatically.

Modeling – Design – Design Evaluation

3D TOOLS

- Walls
- Doors
- Windows
- Skylights
- Roofs
- Curtain Walls
- Beams
- Columns
- Slabs
- Stairs
- Mesh
- Zones
- Objects
- Lamps
- Cameras

LIVE PROJECT VIEWS

Stories, Sections, Elevations
Interior Elevations, Worksheets
Details, 3D, Schedules etc.

PERSONALIZED 3D TOOLS
and Work Environment
Custom Objects – GDL
Favorites
Work Environments

SPECIAL MODELING TOOLS
Solid Element Operations
Complex Walls – Custom Profiles
Slanted Walls – Double Slanted
Walls Parametric Objects,
Magic Wand

2D TOOLS

- Lines
- Fills
- Arc/Circle
- Polyline
- Text
- Dimensions

PERSONALIZED DRAWING TOOLS

- Templates
- Pen Sets
- Fill Types
- Image Fills
- Line Types

Workviews

SAVED VIEWS

- Layer Combos
- Scale
- Zoom level
- View Options
- 3D Cut planes

VIEW TYPES

- Plans, Sections
- Elevations,
Int. Elev.
- Worksheets
- Details
- 3D Views
- 3D Documents
- Rendered Views
- Schedules
- Lists

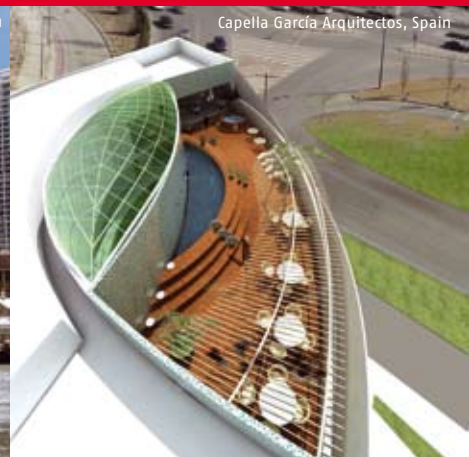
C&J Architects, Helsinki, Finland
Econia Business Park – ecological office building



ML Design, Brisbane, Australia, www.mldesign.com.au

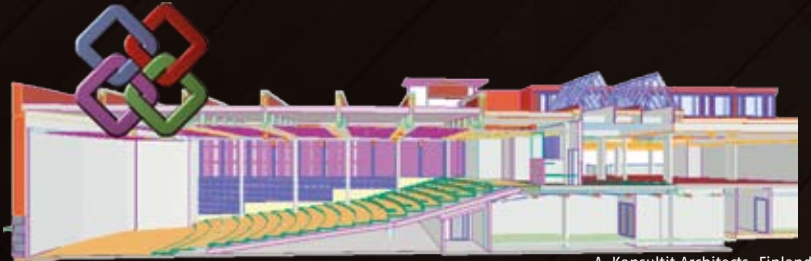


Capella García Arquitectos, Spain



Coordination | Passion | Modeling | Freedom | Communication | Evaluation | Con

INSIDE ARCHICAD



A-Konsultit Architects, Finland

Optimize design and construction by using IFC technology. ArchiCAD offers seamless sharing of the Virtual Building model across disciplines, simulations and analyses. It expands the architectural model's usability, delivers a more accurate and efficient construction phase and a shorter time to market.

Layouts

Publishing

MASTER LAYOUTS

Predrawn Elements
Frames
Associative
Textual Data
- Names
- Numbers
- Scales
- Project Info
Auto Updated
Drawings

PUBLISHER SETS

- Compiled of
Layouts
- Auto
update
- Folder
hierarchy

FILE TYPES

DWG, JPG,
PDF, TIF, PSD
DGN, PMK....

"GREEN" Now an Organic Part of Architecture: perform quick energy evaluation to ensure optimal energy consumption and sustainable design by combining the ArchiCAD Virtual Building with Graphisoft's EcoDesigner.



Drawings with a click



Építész Stúdió, Hungary - Renovation of Modernist Bus Station



GRAPHISOFT MEP Modeler is developed for architectural practices and architectural departments of A/E firms to create, edit or import 3D MEP networks (ductwork, piping and cable trays) and coordinate them with the ArchiCAD Virtual Building.

SYSTEM REQUIREMENTS

Operating System:

Microsoft® Windows® XP Pro 32bit and 64bit native, Microsoft Windows Vista® Executive, Business and Ultimate Editions 32 bit and 64 bit native, QuickTime 7 or later, and Java 1.6.0 or later required.

Mac® OS X 10.5 and 10.6 on Mac Intel computers

CPU:

Windows: Intel® Pentium® 4 or higher recommended.

Macintosh®: Macintosh with any Intel processor

RAM:

1 GB of RAM is required. 2GB or more is recommended for complex models

Hard Drive:

About 1 GB free disk space is required for a full installation of ArchiCAD.

Free hard disk space is required according to model complexity (over 2 GB recommended for complex models and 3D visualization).

Display:

Resolution of 1024 x 768 is required. 1280x1024 or higher is recommended.

Video card:

Windows: Open GL and DirectX 9 compatible graphic card with 256 MB or more on-board video memory is recommended to fully exploit hardware acceleration capabilities

Macintosh: Open GL compatible graphic card with 256 MB or more on-board video memory is recommended to fully exploit hardware acceleration capabilities

You can find a list of recommended video cards at: http://archicadwiki.com/Video_Cards

Optional Hardware Peripherals:

All major plotter brands, printers and digitizers can be used with ArchiCAD

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Melbourne Convention & Exhibition Centre, Australia
A Plenary Group Public Private Partnership
Architects: Woods Bagot and NH Architecture
Photographs © Peter Bennetts.

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