



OPEN

DESIGN COLLABORATION BETWEEN
ARCHITECTS & ENGINEERS

GRAPHISOFT®
ARCHICAD 14

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, knowing that every detail is being captured and all your documents are synchronized. Building Information Modeling (BIM) has created unprecedented potential for design collaboration between Architects and Engineers. With intelligent, model-based workflows between the various trades, coordination errors can be reduced to virtually zero. ArchiCAD 14 offers architects industry-first open design collaboration workflows with leading engineering solutions worldwide.

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Mozas+Aguirre arquitectos, Spain
Caja Vital Kutxa, Vitoria-Gasteiz
www.mozasaguirre.com
Photographer: César San Millán

COLLABORATION

When implementing BIM on a large scale, architects often run into bottlenecks in model accessibility and workflow management. The GRAPHISOFT BIM server -- with leading edge Delta Server technology -- dramatically decreases network traffic, allowing team members to collaborate on BIM models in real time. The same technology makes BIM projects accessible through standard Internet connections from virtually anywhere in the world. ArchiCAD 14 offers new developments to this revolutionary BIM Server-based Teamwork solution, further improving the management of design teams working on shared BIM projects. The new "Solo" mode provides extended flexibility, while the TravelPack™ option lets you take your teamwork projects anywhere, with the ability to access the BIM Server from any remote computer. The BIM Server performance monitor function provides project leaders and CAD/BIM managers with powerful management tools to get all the information necessary for decisions required resulting in optimal Teamwork project workflow.

COORDINATION

The Virtual Building brought an unprecedented level of coordination between different views of the 3D model, as well as coordination of BIM models between the various disciplines. ArchiCAD 14 brings a new level of sophistication to interdisciplinary collaboration by turning IFC technology into full-fledged workflow solutions, enabling collaboration with engineers - regardless of their discipline or the name and version of the application they prefer working with. With the newly introduced model-based version tracking, for best in class coordination workflow with engineers, ArchiCAD 14 allows architects to compare IFC model versions and to import only differences, displaying design changes with color codes in the architectural model context. The same feature allows you to identify changes in the different versions of your architectural model exported to your partners. The combination of these comprehensive capabilities makes ArchiCAD an extremely efficient coordination tool.

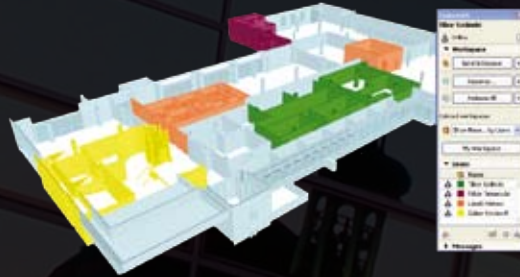
CONTROL

The dynamic nature of design projects requires parallel processes, smooth workflow and tight control. With 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 maintain total control of the process, while your clients receive the highest quality design. Controlling the workflow of larger teams is one of the most challenging tasks project leaders face on a regular basis. Industry-first GRAPHISOFT BIM Server technology provides an unmatched collection of workflow management tools for project leaders and CAD/BIM managers. User roles and project accesses can be fully customized to help control the design project with extremely flexible workflow options. The GRAPHISOFT BIM Server with the BIM Server Performance Monitor provides project leaders with powerful management tools to get all the information necessary for decisions required for optimal Teamwork project workflow.

INSIDE ARCHICAD



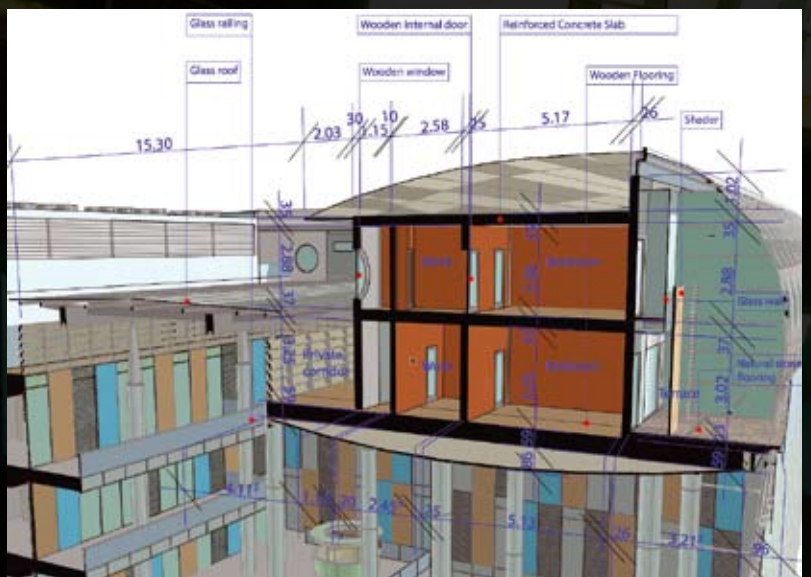
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Use **Teamwork technology** to enable your team to work simultaneously on various aspects of the same project, while keeping all team members updated on project progress.



Boost your BIM performance with multiprocessor support, 64-bit BIM Server support on both Windows and Macintosh and 64-bit support on Windows.



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

OPEN DESIGN COLLABORATION

From the outset, ArchiCAD was built specifically to 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.



A4 Studio, Hungary
New cemetery, catafalque and graveyard, Szentendre, Hungary
www.a4studio.hu

VIRTUAL BUILDING

Working with ArchiCAD, you will discover the pleasures and the benefits of designing in a 3D architectural environment with extraordinary design 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 studies 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 comes to life 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 that is both inspiring and enjoyable. With the clarity of 3D, your clients will truly appreciate good design.

DESIGN

Any architect with the passion to freely explore design ideas can fulfill their wishes 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 their parts in an innovative 3D edit mode. With ArchiCAD 14's shadow casting in 3D OpenGL views, live 3D views of the BIM model – in addition to being work-views – also become a standard basis for communicating the design intent with clients. ArchiCAD enables you to combine creative freedom with the well-known efficiency of the robust Virtual Building. A comprehensive set of tools supports the creative process within the context of the project; while you design your project, documents will be generated as a by-product, assuring smooth workflow and real-time evaluation.

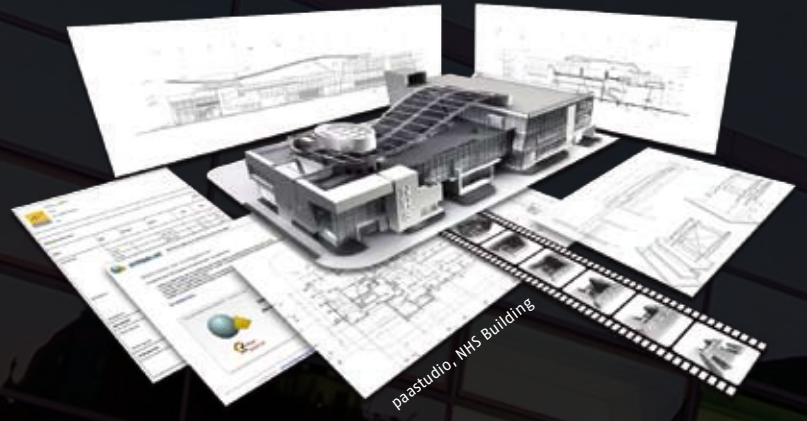
DOCUMENTATION

With ArchiCAD, you create a 3D virtual model – all the necessary documentation and images are derived automatically. The innovative 3D Document capability enables you 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 you communicate your design intent more easily. New documentation enhancements further improve ArchiCAD's best in class design and documentation workflow. As model-based annotation is key to an effective BIM process, the newly introduced custom dimension text prefixes/suffixes boost documentation productivity by an order of magnitude. The standard spreadsheet editing techniques and Excel export of Schedules and quantity take-offs, the easy offset functionality, and many more improvements result in better productivity and clear communication with all members of the design team.

INSIDE ARCHICAD



ARTechnic architects, Japan
SHELL, Karuizawa, Nagano
www.artechnic.jp
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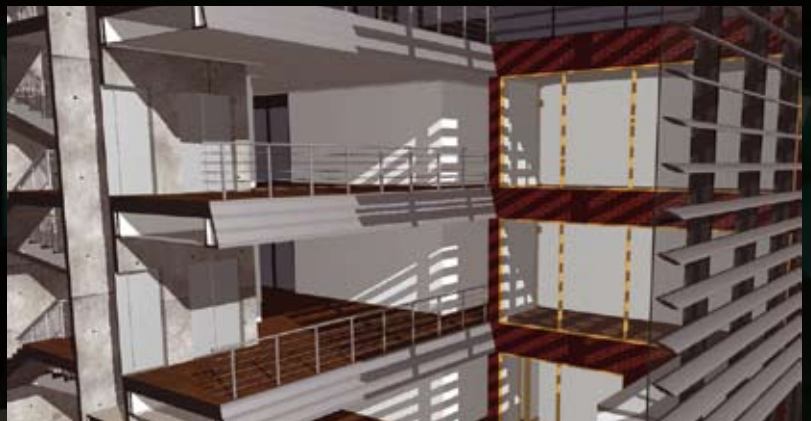


Design in a 3D Virtual Building environment and the entire documentation is generated as a by-product.

Reichenberg Arhitektura, Slovenia | Complex Slavija, Maribor, Slovenia | www.arhitekturni-ateljje.si



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



With shadow-casting, live 3D views of the BIM model in addition to being work-views also become a standard basis for communicating the design intent with clients.

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

Open Design Collaboration – Incorporate ArchiCAD's collaboration capabilities in your workflow. Share 3D models and 2D drawings. Work seamlessly with your structural, MEP and other consultants, visualization artists or fellow architects regardless of the software they use.



Coordination | Passion | Modeling | Freedom | Communication | Evaluation | Co

INSIDE ARCHICAD

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 EcoDesigner™.

GRAPHISOFT
Virtual Building
Explorer™ and
GRAPHISOFT
ArchiCAD
architects and
designers
can explore,
communicate
and share their
project designs
like never before



paastudio, NHS Building, www.paastudio.com

Drawings with a click



b9 architects inc. Bradley Khouri
Urban Canyon, Seattle, Washington
www.b9architects.com
Photography: William Wright



GRAPHISOFT MEP Modeler™ is 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.

Confidence | Workflow | Integration

SYSTEM REQUIREMENTS

Operating System:

Microsoft® Windows® XP Pro 32bit and 64bit native, Microsoft Windows Vista® Business and Ultimate Edition 32-bit and 64-bit
Microsoft Windows 7, 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 required.
Macintosh®: Macintosh with any Intel processor.
Multicore processor is recommended to exploit ArchiCAD 14 performance capabilities.

RAM:

2 GB of RAM is required. 4GB or more is recommended for complex models.

Hard Drive:

About 1 GB free disk space is required for a full installation of ArchiCAD.
Additional 2–3 GB hard disk space required for work with 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 on-board video memory of 256 MB or more is recommended to fully exploit hardware acceleration capabilities. True Color display adapter is needed
Macintosh: Open GL compatible graphic card with on-board video memory of 256 MB or more is recommended to fully exploit hardware acceleration capabilities. True Color display adapter is needed
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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Cover image:

Darmstadtium, Wissenschafts- und Kongresszentrum Darmstadt, Germany
Architects: fs-architekten Paul Schröder Architekt BDA and Chalabi architects & partners
Photo: Claus Graubner ©

GRAPHISOFT®

FOR MORE DETAILS, CONTACT ANY GRAPHISOFT OFFICE, OR VISIT: WWW.GRAPHISOFT.COM

HEADQUARTERS

GRAPHISOFT R&D zrt.
Phone: +36 (1) 437 3000
Fax: +36 (1) 437 3099
E-mail: mail@graphisoft.hu
Web: www.graphisoft.com

GERMANY

GRAPHISOFT Deutschland GmbH.
Phone: +49 (89) 746 430
Fax: +49 (89) 746 43299
E-mail: mail@graphisoft.de
Web: www.graphisoft.de

JAPAN

GRAPHISOFT Japan KK.
Phone: +81 (3) 55 45 3800
Fax: +81 (3) 55 45 3804
E-mail: mail@graphisoft.co.jp
Web: www.graphisoft.co.jp

RUSSIA

GRAPHISOFT Representative Office
Phone: +7 495 510 2503
E-mail: russia@graphisoft.com
Web: www.graphisoft.ru

SOUTH-EAST ASIA & CHINA

GRAPHISOFT Representative Office
Phone: +65 65632827
Fax: +65 65632827
E-mail: asia@graphisoft.com

SPAIN

GRAPHISOFT Spain, SL.
Phone: +34 (91) 535 8750
Fax: +34 (91) 535 8751
E-mail: mail@archicad.es
Web: www.archicad.es

UNITED KINGDOM

GRAPHISOFT UK Ltd.
Phone: +44 (1483) 263 150
Fax: +44 (1483) 263 151
E-mail: mail@graphisoft.co.uk
Web: www.graphisoft.co.uk

UNITED STATES

GRAPHISOFT U.S., Inc.
Phone: +1 (617) 485 4203
Fax: +1 (617) 485 4201
E-mail: info@graphisoft.com
Web: www.graphisoftus.com